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

State of New Mexico
Energy Minerals and Natural Resources

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

Form C-141
Revised October 10, 2003

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

Release Notification and Corrective Action

OPERATOR

☐ Initial Report X **Final Report**

Name of Company Plains Pipeline	Contact Daniel Bryant
Address P.O. Box 3119, Midland, TX 79702	Telephone No. 432-557-5865
Facility Name **TNM Keohane Pump Historical**	Facility Type Pump

Surface Owner Danny Berry	Mineral Owner BLM	Lease No.

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
"O"	27	T20S	R34E					Lea

Latitude 32°, 32', 15.7" North **Longitude** 103°, 32', 41.7" West.

NATURE OF RELEASE

Type of Release Crude Oil	Volume of Release Unknown	Volume Recovered
Source of Release Pump	Date and Hour of Occurrence Unknown	Date and Hour of Discovery 07/24/2008 – 900 hrs
Was Immediate Notice Given? X Yes ☐ No ☐ Not Required	If YES, To Whom? Larry Johnson	
By Whom? Camille Bryant	Date and Hour 08/07/2008 800 hrs	
Was a Watercourse Reached? ☐ Yes ☒ No	If YES, Volume Impacting the Watercourse.	

If a Watercourse was Impacted, Describe Fully.*

Describe Cause of Problem and Remedial Action Taken.* Landowner notified Plains Pipeline of a historical release located on his property

Describe Area Affected and Cleanup Action Taken. Impacted soil was excavated and transported to an NMOCD approved land farm. Excavation backfill material was purchased from the landowner. Please refer to the Remediation Summary and Site Closure Request dated October 2008 for additional details.

BURE KOUNTY SITE

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

Signature: Dan Bryant	OIL CONSERVATION DIVISION	
Printed Name: Daniel Bryant	Approved by District Supervisor: Johnson	
Title: Remediation Coordinator	Approval Date: 12.4.08	Expiration Date: —
E-mail Address: dmbryant@paalp.com	Conditions of Approval: —	1RP-1926
Date: October 20, 2008 Phone: 432-557-5865		

ENVIRONMENTAL ENGINEER

RECEIVED

DEC 04 2008

HOBBS OCD

Basin Environmental Service Technologies, LLC

2800 Plains Highway
P. O. Box 301
Lovington, New Mexico 88260
cstanley@basinenv.com
Office: (505) 396-2378 Fax: (505) 396-1429

Effective Solutions

REMEDIATION SUMMARY

AND

SITE CLOSURE REQUEST

PLAINS MARKETING, L.P. (231735)
TNM Keohane Pump Historical
Lea County, New Mexico
Plains SRS – TNM Keohane Pump Historical
UNIT O (SW/SE), Section 27, Township 20 South, Range 34 East
Latitude 32° 21' 15.7" North, Longitude 103° 32' 41.7" West
NMOCD Reference # 1RP-1926

Prepared For:

Plains Marketing, L.P.
333 Clay Street
Suite 1600
Houston, Texas 77002

Prepared By:
Basin Environmental Service Technologies, LLC

October 2008

Curt D. Stanley
Project Manager

TABLE OF CONTENTS

FIGURES

TABLES

APPENDICES

INTRODUCTION AND BACKGROUND INFORMATION

Basin Environmental Service Technologies, LLC (Basin), on behalf of Plains Marketing, L.P. (Plains), has prepared this Remediation Summary and Site Closure Request for the release site known as TNM-Keohane Pump Historical. The legal description of the release site is Unit Letter "O" (SW ¼ SE ¼), Section 27, Township 20 South, Range 34 East, in Lea County, New Mexico. The subsurface of the property affected by the release is owned by the United States Bureau of Land Management (BLM), the surface of the property is owned by Mr. Danny Berry. The release site GPS coordinates are 32° 32' 15.7" North and 103° 32' 41.7" West. Please reference Figure 1 for a Site Location Map and Figure 2 for a Site and Sample Location Map. The Release Notification and Corrective Action (Form C-141) is included as Appendix C.

On July 24, 2008, Plains reported a historical release of an unknown volume of crude oil at the former Plains Keohane Pump Station. The historical release was discovered by the landowner and reported to Plains. The Pump Station was removed from the site prior to the discovery of the release. The resulting surface stain attributed to the release measured approximately 40 feet by 75 feet. The release was the attributed to routine operation of the pump station.

NMOCD SITE CLASSIFICATION

According to data obtained from the New Mexico Office of the State Engineer (NMOSE), no water wells are recorded in Section 27 of the above referenced township. The NMOSE database indicates groundwater was encountered at depths exceeding 100 feet below ground surface (bgs) in a water well within the township. This depth to groundwater results in a score of zero (0) being assigned to the site based on the New Mexico Oil Conservation Division (NMOCD) depth to groundwater criteria.

The water well database, maintained by the NMOSE, indicated there are no water wells less than 1,000 feet from the release, resulting in zero (0) points being assigned to this site as a result of this criteria.

There is no surface water body located within 1,000 feet of the site. Based on the NMOCD ranking system zero (0) points will be assigned to the site as a result of the criteria.

The NMOCD guidelines indicate the Keohane Pump Historical release site has a ranking score of zero (0). Based on this score, the soil remediation levels for a site with a ranking score of zero (0) points are as follows:

- Benzene – 10 mg/Kg (ppm)
- BTEX – 50 mg/Kg (ppm)
- TPH – 5,000 mg/Kg (ppm)

SUMMARY OF RECENT FIELD ACTIVITIES

On July 7 through July 9, 2008, approximately 836 cubic yards (cy) of hydrocarbon impacted soil was excavated at the release site, stockpiled and subsequently transported to the Lazy Ace

Land Farm. The final dimensions of the excavation were approximately 40 feet in width (North to South), 75 feet in length (East to West) and four (4) feet below ground surface (bgs) in depth in the center of the excavation.

On August 7, 2008, a confirmation soil sample was collected from the excavation floor (Floor @ 4'). The soil sample was analyzed for concentrations of benzene, toluene, ethylbenzene and xylene (BTEX) using method EPA 8021b and total petroleum hydrocarbons (TPH) using method SW8015 modified. A summary of the analytical results is included as Table 1, Concentrations of BTEX and TPH in Soil. Laboratory results are included in Appendix A and soil sample locations are depicted on Figure 2, Site and Sample Location Map.

The analytical results indicated benzene and BTEX concentrations were below the laboratory method detection limit (MDL) of 0.0011 mg/Kg and 0.0021 mg/Kg, respectively. The analytical results indicated TPH concentrations were 82.1 mg/Kg for the soil sample.

Based on the analytical results, the excavation was backfilled with soil purchased from the landowner. The site was contoured to the area topography and was seeded in September 2008 with vegetation acceptable to the surface landowner. Photographs are provided as Appendix B.

SITE CLOSURE REQUEST

Based on the analytical results of confirmation soil samples collected from the excavation, Basin recommends Plains provide the NMOCD Hobbs District Office and the BLM-Carlsbad District Office a copy of this Remediation Summary and Site Closure Request and request the NMOCD and BLM grant site closure to the TNM-Keohane Historical release.

LIMITATIONS

Basin Environmental Service Technologies, LLC has prepared this Remediation Summary and Site Closure Request to the best of its ability. No other warranty, expressed or implied, is made or intended.

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

This report has been prepared for the benefit of Plains Marketing, L.P. The information contained in this report, including all exhibits and attachments, may not be used by any other

party without the express consent of Basin Environmental Service Technologies, LLC and/or Plains Marketing, L.P.

DISTRIBUTION:

Copy 1: Larry Johnson
New Mexico Energy, Minerals and Natural Resources Department
Oil Conservation Division (District 1)
1625 French Drive
Hobbs, New Mexico 88240

Copy 2: James Amos
Carlsbad Field Office
United Stated Bureau of Land Management
620 E. Greene Street
Carlsbad, New Mexico 88220

Copy 3: Jeff Dann
Plains Marketing, L.P.
333 Clay Street, Suite 1600
Houston, Texas 77002
jpdann@paalp.com

Copy 4: Daniel Bryant
Plains Marketing, L.P.
P.O. Box 3119
Midland, Texas 79702
dmbryant@paalp.com

Copy 5: Curt Stanley
Basin Environmental
P.O. Box 301
Lovington, New Mexico 88260
cstanley@basinenv.com

Figures

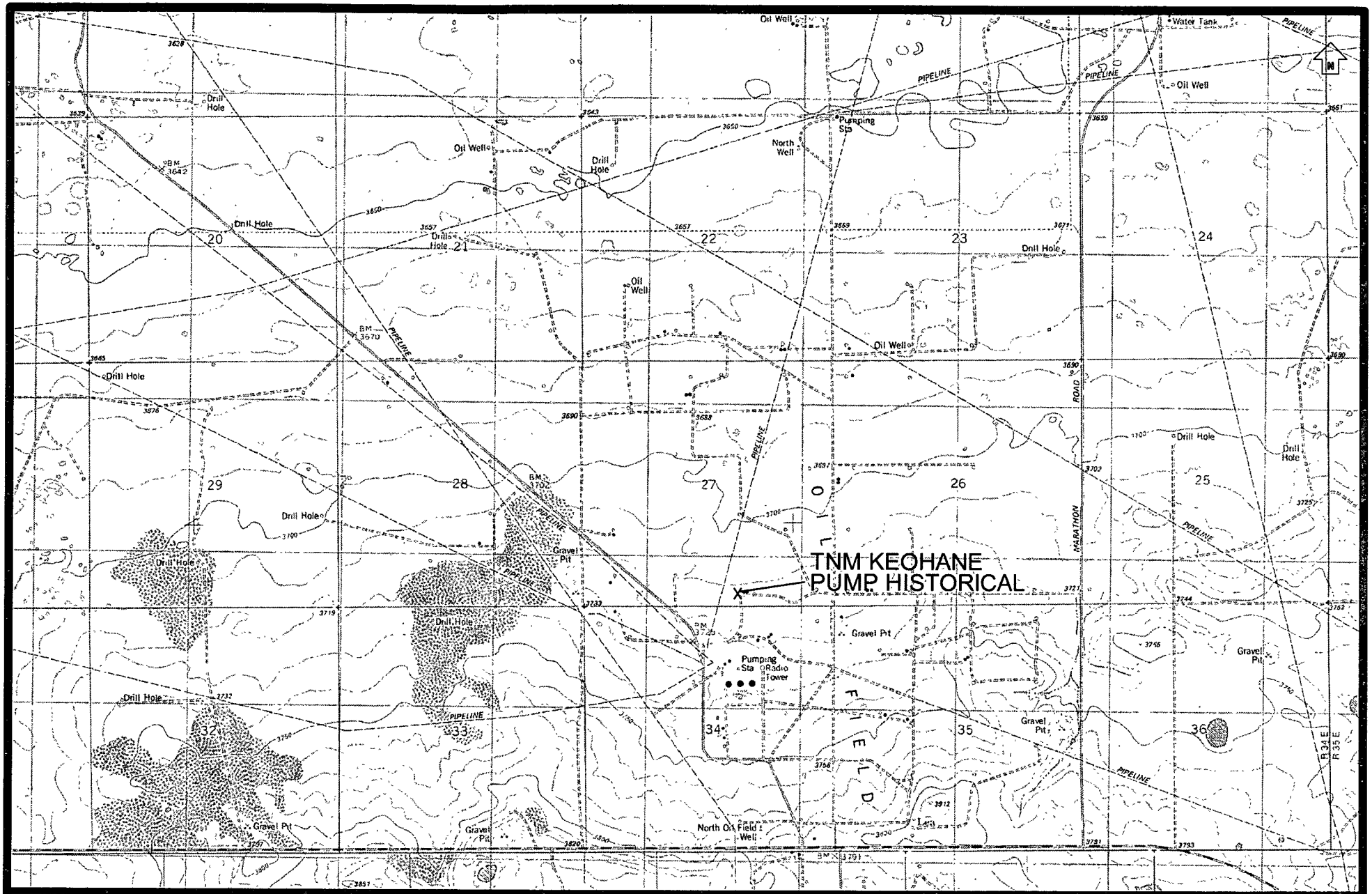
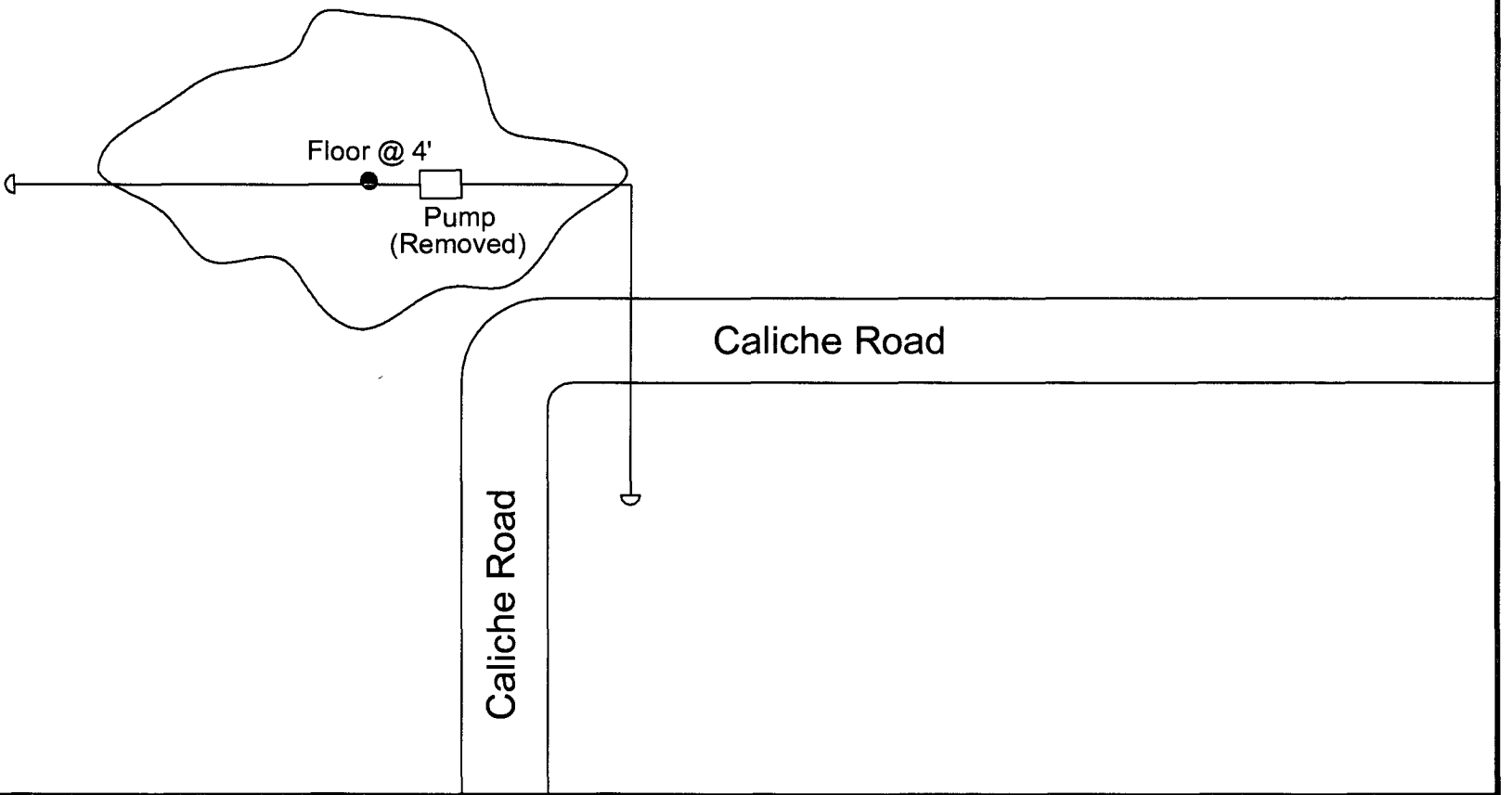


Figure 1
Site Location Map
Plains Marketing, L.P.
TNM Keohane Pump Historical
Lea County, New Mexico
SRS# TNM Keohane Pump Historical
NMOCD Reference 1RP-1926

Basin Environmental Services

Prep By. CDS	Checked By. CDS
October 5, 2008	Scale 1"= 2,000'



Legend:

- Excavation Extent
- Soil Sample Location
- Pipeline

30 15 0 15 30

Distance in Feet

Figure 2
Site and Sample
Location Map (08/07/08)
Plains Marketing, L.P.
TNM-Keohane Pump Historical
Lea County, NM
SRS # TNM-Keohane Pump Historical
NMOCD Reference 1RP-1926

Basin Environmental Services

Scale 1" = 30'	CAD By: CDS	Checked By: CDS
October 5, 2008		

Tables

TABLE 1

CONCENTRATIONS OF BENZENE, BTEX AND TPH IN SOIL

PLAINS MARKETING, L.P.
TNM-KEOHANE PUMP HISTORICAL
LEA COUNTY, NEW MEXICO
SRS # TNM-KEOHANE PUMP HISTORICAL
NMOCD REFERENCE 1RP - 1926

SAMPLE LOCATION	SAMPLE DEPTH (below ground surface)	SAMPLE DATE	SOIL STATUS	METHOD: EPA SW 846-8021B, 5030						METHOD: 8015M			TOTAL TPH C_6 - C_{35} (mg/Kg)
				BENZENE (mg/Kg)	TOLUENE (mg/Kg)	ETHYL-BENZENE (mg/Kg)	M,P-XYLENE (mg/Kg)	O-XYLENE (mg/Kg)	TOTAL BTEX (mg/Kg)	TPH GRO C_6 - C_{12} (mg/Kg)	TPH DRO C_{12} - C_{28} (mg/Kg)	TPH ORO C_{28} - C_{35} (mg/Kg)	
Floor @ 4'	4'	08/07/08	In-Situ	<0.0010	<0.0021	<0.0011	<0.0021	<0.0011	<0.0021	<15.9	42 9	39.2	82.1
NMOCD REGULATORY STANDARD				10					50				5,000

Appendices

Appendix A
Laboratory Reports

Analytical Report 310166

for

PLAINS ALL AMERICAN EH&S

Project Manager: Camille Reynolds

TNM-Keohane Pump Historical

TNM-Keohane Pump Hist.

18-AUG-08

E84880

12600 West I-20 East Odessa, Texas 79765

Texas certification numbers:
Houston, TX T104704215 - Odessa/Midland, TX T104704215-08-TX

Florida certification numbers:
Houston, TX E871002 - Miami, FL E86678 - Tampa, FL E86675
Norcross(Atlanta), GA E87429

South Carolina certification numbers:
Norcross(Atlanta), GA 98015

North Carolina certification numbers:
Norcross(Atlanta), GA 483

Houston - Dallas - San Antonio - Austin - Tampa - Miami - Latin America
Midland - Corpus Christi - Atlanta

18-AUG-08

Project Manager: **Camille Reynolds**
PLAINS ALL AMERICAN EH&S
1301 S. COUNTY ROAD 1150
Midland, TX 79706

Reference: XENCO Report No: **310166**
TNM-Keohane Pump Historical
Project Address: Lea County, NM

Camille Reynolds:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number 310166. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. Estimation of data uncertainty for this report is found in the quality control section of this report unless otherwise noted. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by XENCO Laboratories. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 310166 will be filed for 60 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

We thank you for selecting XENCO Laboratories to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

Brent Barron, II
Odessa Laboratory Manager

Sample Cross Reference 310166

PLAINS ALL AMERICAN EH&S, Midland, TX

TNM-Keohane Pump Historical

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
Floor @ 4'	S	Aug-07-08 13:50		310166-001

Certificate of Analysis Summary 310166

PLAINS ALL AMERICAN EH&S, Midland, TX

Project Name: TNM-Keohane Pump Historical

Project Id: TNM-Keohane Pump Hist.
Contact: Camille Reynolds
Project Location: Lea County, NM

Date Received in Lab: Thu Aug-14-08 04:45 pm
Report Date: 18-AUG-08
Project Manager: Brent Barron, II

Analysis Requested							
	Lab Id:	310166-001					
	Field Id:	Floor @ 4'					
	Depth:						
	Matrix:	SOIL					
	Sampled:	Aug-07-08 13:50					
BTEX by EPA 8021B	*Extracted:*	Aug-15-08 15:30					
	Analyzed:	Aug-16-08 00:04					
	Units/RL:	mg/kg	RL				
Benzene		ND	0 0011				
Toluene		ND	0.0021				
Ethylbenzene		ND	0.0011				
m,p-Xylenes		ND	0.0021				
o-Xylene		ND	0.0011				
Total Xylenes		ND					
Total BTEX		ND					
Percent Moisture	*Extracted:*						
	Analyzed:	Aug-15-08 17:00					
	Units/RL:	%	RL				
Percent Moisture		5.84					
TPH By SW8015 Mod	*Extracted:*	Aug-15-08 16:45					
	Analyzed:	Aug-16-08 21:01					
	Units/RL:	mg/kg	RL				
C6-C12 Gasoline Range Hydrocarbons		ND	15.9				
C12-C28 Diesel Range Hydrocarbons		42.9	15.9				
C28-C35 Oil Range Hydrocarbons		39.2	15.9				
Total TPH		82 1					

Brent Barron
Odessa Laboratory Director

XENCO Laboratories

Flagging Criteria

X In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to effect the recovery of the spike concentration. This condition could also effect the relative percent difference in the MS/MSD.

B A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.

D The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.

E The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.

F RPD exceeded lab control limits.

J The target analyte was positively identified below the MQL(PQL) and above the SQL(MDL).

U Analyte was not detected.

L The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.

H The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.

K Sample analyzed outside of recommended hold time.

* Outside XENCO'S scope of NELAC Accreditation

Form 2 - Surrogate Recoveries

Project Name: TNM-Keohane Pump Historical

Work Order #: 310166 **Project ID:** TNM-Keohane Pump Hist.

Lab Batch #: 731303 **Sample:** 310166-001 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg

BTEX by EPA 8021B Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0343	0.0300	114	80-120	
4-Bromofluorobenzene	0.0268	0.0300	89	80-120	

Lab Batch #: 731303 **Sample:** 310166-001 S / MS **Batch:** 1 **Matrix:** Soil

Units: mg/kg

BTEX by EPA 8021B Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0292	0.0300	97	80-120	
4-Bromofluorobenzene	0.0318	0.0300	106	80-120	

Lab Batch #: 731303 **Sample:** 310166-001 SD / MSD **Batch:** 1 **Matrix:** Soil

Units: mg/kg

BTEX by EPA 8021B Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0291	0.0300	97	80-120	
4-Bromofluorobenzene	0.0322	0.0300	107	80-120	

Lab Batch #: 731303 **Sample:** 514022-1-BKS / BKS **Batch:** 1 **Matrix:** Solid

Units: mg/kg

BTEX by EPA 8021B Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0284	0.0300	95	80-120	
4-Bromofluorobenzene	0.0289	0.0300	96	80-120	

Lab Batch #: 731303 **Sample:** 514022-1-BLK / BLK **Batch:** 1 **Matrix:** Solid

Units: mg/kg

BTEX by EPA 8021B Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0350	0.0300	117	80-120	
4-Bromofluorobenzene	0.0271	0.0300	90	80-120	

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

All results are based on MDL and validated for QC purposes.

Form 2 - Surrogate Recoveries

Project Name: TNM-Keohane Pump Historical

Work Order #: 310166 **Project ID:** TNM-Keohane Pump Hist.

Lab Batch #: 731303 **Sample:** 514022-1-BSD / BSD **Batch:** 1 **Matrix:** Solid

Units: mg/kg

BTEX by EPA 8021B Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0290	0.0300	97	80-120	
4-Bromofluorobenzene	0.0271	0.0300	90	80-120	

Lab Batch #: 731290 **Sample:** 310166-001 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg

TPH By SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	79.3	100	79	70-135	
o-Terphenyl	44.0	50.0	88	70-135	

Lab Batch #: 731290 **Sample:** 310167-003 S / MS **Batch:** 1 **Matrix:** Soil

Units: mg/kg

TPH By SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	78.4	100	78	70-135	
o-Terphenyl	47.6	50.0	95	70-135	

Lab Batch #: 731290 **Sample:** 310167-003 SD / MSD **Batch:** 1 **Matrix:** Soil

Units: mg/kg

TPH By SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	81.0	100	81	70-135	
o-Terphenyl	48.3	50.0	97	70-135	

Lab Batch #: 731290 **Sample:** 514017-1-BKS / BKS **Batch:** 1 **Matrix:** Solid

Units: mg/kg

TPH By SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	80.4	100	80	70-135	
o-Terphenyl	46.7	50.0	93	70-135	

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

All results are based on MDL and validated for QC purposes.

Form 2 - Surrogate Recoveries

Project Name: TNM-Keohane Pump Historical

Work Order #: 310166 **Project ID:** TNM-Keohane Pump Hist.

Lab Batch #: 731290 **Sample:** 514017-1-BLK / BLK **Batch:** 1 **Matrix:** Solid

Units: mg/kg

TPH By SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	82.7	100	83	70-135	
o-Terphenyl	46.4	50.0	93	70-135	

Lab Batch #: 731290 **Sample:** 514017-1-BSD / BSD **Batch:** 1 **Matrix:** Solid

Units: mg/kg

TPH By SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	79.5	100	80	70-135	
o-Terphenyl	46.2	50.0	92	70-135	

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

All results are based on MDL and validated for QC purposes.

BS / BSD Recoveries

Project Name: TNM-Keohane Pump Historical

Work Order #: 310166 **Project ID:** TNM-Keohane Pump Hist.

Analyst: ASA **Date Prepared:** 08/15/2008 **Date Analyzed:** 08/15/2008

Lab Batch ID: 731303 **Sample:** 514022-1-BKS **Batch #:** 1 **Matrix:** Solid

Units: mg/kg

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Benzene	ND	0.1000	0.1124	112	0.1	0.0997	100	12	70-130	35	
Toluene	ND	0.1000	0.1126	113	0.1	0.0991	99	13	70-130	35	
Ethylbenzene	ND	0.1000	0.1200	120	0.1	0.1084	108	10	71-129	35	
m,p-Xylenes	ND	0.2000	0.2508	125	0.2	0.2234	112	12	70-135	35	
o-Xylene	ND	0.1000	0.1153	115	0.1	0.1020	102	12	71-133	35	

Analyst: IRO **Date Prepared:** 08/15/2008 **Date Analyzed:** 08/16/2008

Lab Batch ID: 731290 **Sample:** 514017-1-BKS **Batch #:** 1 **Matrix:** Solid

Units: mg/kg

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
C6-C12 Gasoline Range Hydrocarbons	ND	1000	844	84	1000	835	84	1	70-135	35	
C12-C28 Diesel Range Hydrocarbons	ND	1000	851	85	1000	839	84	1	70-135	35	

Relative Percent Difference RPD = 200*|(C-F)/(C+F)|
Blank Spike Recovery [D] = 100*(C)/[B]
Blank Spike Duplicate Recovery [G] = 100*(F)/[E]
All results are based on MDL and Validated for QC Purposes

Form 3 - MS / MSD Recoveries

Project Name: TNM-Keohane Pump Historical

Work Order # 310166 **Project ID:** TNM-Keohane Pump Hist.

Lab Batch ID: 731303 **QC- Sample ID:** 310166-001 S **Batch #:** 1 **Matrix:** Soil

Date Analyzed: 08/16/2008 **Date Prepared:** 08/15/2008 **Analyst:** ASA

Reporting Units: mg/kg

BTEX by EPA 8021B	MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY										
Analytes	**Parent Sample Result [A]**	**Spike Added [B]**	**Spiked Sample Result [C]**	**Spiked Sample %R [D]**	**Spike Added [E]**	**Duplicate Spiked Sample Result [F]**	**Spiked Dup. %R [G]**	**RPD %**	**Control Limits %R**	**Control Limits %RPD**	**Flag**
Benzene	ND	0.1062	0.0828	78	0.1062	0.0873	82	5	70-130	35	
Toluene	ND	0.1062	0.0810	76	0.1062	0.0844	79	4	70-130	35	
Ethylbenzene	ND	0.1062	0.0855	81	0.1062	0.0905	85	5	71-129	35	
m,p-Xylenes	ND	0.2124	0.1768	83	0.2124	0.1863	88	6	70-135	35	
o-Xylene	ND	0.1062	0.0781	74	0.1062	0.0832	78	5	71-133	35	

Lab Batch ID: 731290 **QC- Sample ID:** 310167-003 S **Batch #:** 1 **Matrix:** Soil

Date Analyzed: 08/17/2008 **Date Prepared:** 08/15/2008 **Analyst:** IRO

Reporting Units: mg/kg

TPH By SW8015 Mod	MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY										
Analytes	**Parent Sample Result [A]**	**Spike Added [B]**	**Spiked Sample Result [C]**	**Spiked Sample %R [D]**	**Spike Added [E]**	**Duplicate Spiked Sample Result [F]**	**Spiked Dup. %R [G]**	**RPD %**	**Control Limits %R**	**Control Limits %RPD**	**Flag**
C6-C12 Gasoline Range Hydrocarbons	ND	1160	915	79	1160	960	83	5	70-135	35	
C12-C28 Diesel Range Hydrocarbons	ND	1160	906	78	1160	954	82	5	70-135	35	

Matrix Spike Percent Recovery [D] = 100*(C-A)/B
Relative Percent Difference RPD = 200*|(C-F)/(C+F)|

Matrix Spike Duplicate Percent Recovery [G] = 100*(F-A)/E

ND = Not Detected, J = Present Below Reporting Limit, B = Present in Blank, NR = Not Requested, I = Interference, NA = Not ApplicableN = See Narrative, EQL = Estimated Quantitation Limit

Sample Duplicate Recovery

Project Name: TNM-Keohane Pump Historical

Work Order # 310166

Lab Batch #: 731187 **Project ID:** TNM-Keohane Pump Hist.

Date Analyzed: 08/15/2008 **Date Prepared:** 08/15/2008 **Analyst:** JLG

QC- Sample ID: 310167-001 D **Batch #:** 1 **Matrix:** Soil

Reporting Units: %

Percent Moisture Analyte	SAMPLE / SAMPLE DUPLICATE RECOVERY				
	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Percent Moisture	10.1	9.53	6	20	

Spike Relative Difference RPD 200 * | (B-A)/(B+A) |
All Results are based on MDL and validated for QC purposes.

Environmental Lab of Texas

A Xenco Laboratories Company

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

12600 West I 20 East
Odessa, Texas 79765
Phone 432-563-1800
Fax 432-563 1713

Project Manager: Curt Stanley
Company Name: Basin Environmental LLC
Company Address: 2000 Plains Hwy
City/State/Zip: Lovington, NM 88260
Telephone No: 575-441-2244 Fax No: 575-396-1429
Sampler Signature: Curt Stanley for Billy Blackwood

Project Name: INM - Keohane Pump
Project #: INM - Keohane Historical Pump Hist.
Project Loc: Lea Co, NM
PO #: PAA - C J Bryant
Report Format: ☑ Standard ☐ TRRP ☐ NPDLS
e-mail: CStanley@basinenv.com

(lab use only) ORDER #: 310162

LAB # (lab use only)	FIELD CODE	Beginning Depth	Ending Depth	Date Sampled	Time Sampled	Field Filtered	Total # of Containers	Preservation & # of Containers: Ice	HNO3	HCl	H2SO4	NaOH	Na2S2O3	None	Other (Specify)	Matrix: DW=Drinking Water SL=Sludge GW=Groundwater S=Soil/Solid NP=Non-Potable Specify Other	Analyze For: TCLP 418.1 / 8015M	TPH TX 1005	Cations (Ca, Mg, Na, K)	Anions (Cl, SO4, Alkalinity)	SAR / ESP / CEC	Metals: As Ag Ba Cd Cr Pb Hg Se	Volatiles	Semivolatiles	BTEX 8021B 5030 or 8260 TEX 8260	RCI	N O R M	RUSH TAT (Pre-Schedule) 24, 48, 72 hrs	Standard TAT
621	FLOOR C 4'			6/7/08	1350		1	X								S	X								X				X

Special Instructions:

Laboratory Comments
Sample Containers Intact? Y N
VOCs Free of Headspace? N
Sample Containers Intact? Y N
Custody seals on container(s) N
Custody seals on cooler(s) Y N
Sample Hand Delivered by Sampler/Client Rep ? N
by Courier? UPS DHL FedEx Lone Star
Temperature Upon Receipt 5.5 °C

Relinquished by	Date	Time	Received by	Date	Time
	6/14/08	1645			
Relinquished by	Date	Time	Received by	Date	Time
Relinquished by	Date	Time	Received by ELOT	Date	Time
			Andrea Lam	8/14/08	16 45

Environmental Lab of Texas

Variance/ Corrective Action Report- Sample Log-In

Client: Basin Env. | Plains

Date/ Time: 8.14.08 16:45

Lab ID #: 310166

Initials: aL

Sample Receipt Checklist

					Client Initials
#1	Temperature of container/ cooler?	(Yes)	No	5.5 °C	
#2	Shipping container in good condition?	(Yes)	No		
#3	Custody Seals intact on shipping container/ cooler?	Yes	No	(Not Present)	
#4	Custody Seals intact on sample bottles/ container?	(Yes)	No	Not Present	
#5	Chain of Custody present?	(Yes)	No		
#6	Sample instructions complete of Chain of Custody?	(Yes)	No		
#7	Chain of Custody signed when relinquished/ received?	(Yes)	No		
#8	Chain of Custody agrees with sample label(s)?	(Yes)	No	ID written on Cont / Lid	
#9	Container label(s) legible and intact?	(Yes)	No	Not Applicable	
#10	Sample matrix/ properties agree with Chain of Custody?	(Yes)	No		
#11	Containers supplied by ELOT?	(Yes)	No		
#12	Samples in proper container/ bottle?	(Yes)	No	See Below	
#13	Samples properly preserved?	(Yes)	No	See Below	
#14	Sample bottles intact?	(Yes)	No		
#15	Preservations documented on Chain of Custody?	(Yes)	No		
#16	Containers documented on Chain of Custody?	(Yes)	No		
#17	Sufficient sample amount for indicated test(s)?	(Yes)	No	See Below	
#18	All samples received within sufficient hold time?	(Yes)	No	See Below	
#19	Subcontract of sample(s)?	Yes	No	(Not Applicable)	
#20	VOC samples have zero headspace?	(Yes)	No	Not Applicable	

Variance Documentation

Contact: _____ Contacted by: _____ Date/ Time: _____

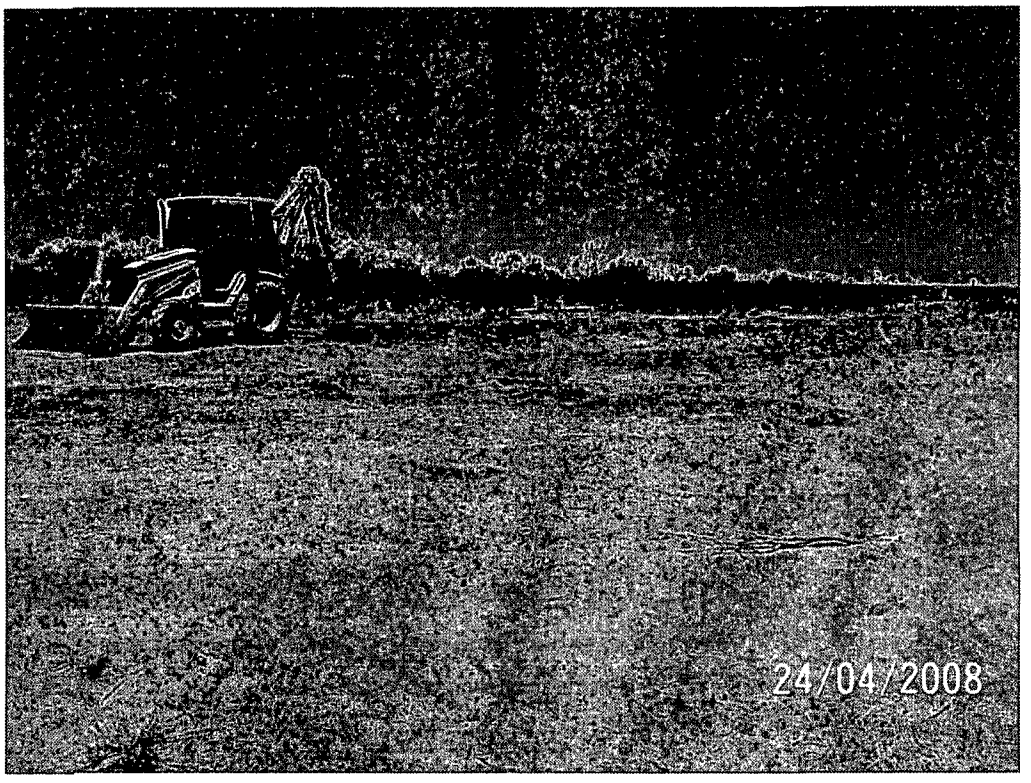
Regarding: _____

Corrective Action Taken: _____

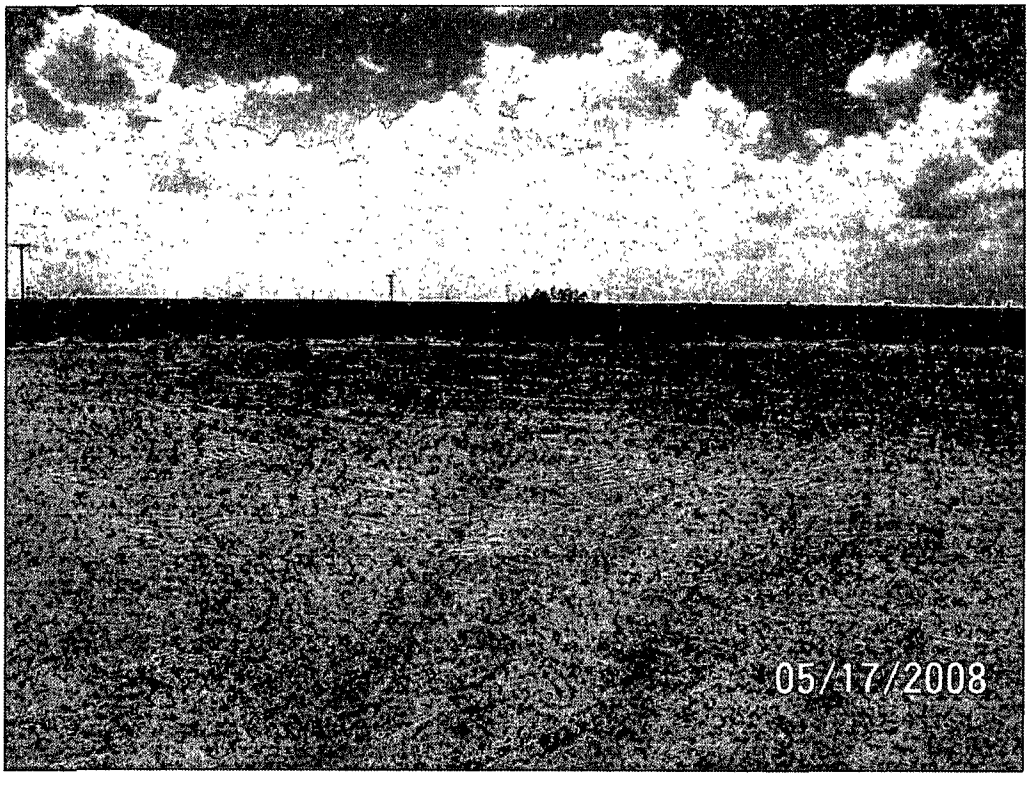
Check all that Apply:

- ☐ See attached e-mail/ fax
- ☐ Client understands and would like to proceed with analysis
- ☐ Cooling process had begun shortly after sampling event

Appendix B
Photographs



TNM Keohane Pump Historical – Release Area Prior to Excavation Activities



TNM Keohane Pump Historical – Excavation Activities Completed and Site Contoured

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

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

State of New Mexico
Energy Minerals and Natural Resources

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

Form C-141
Revised October 10, 2003

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

Release Notification and Corrective Action

OPERATOR

x Initial Report ☐ Final Report

Name of Company Plains Pipeline	Contact Camille Reynolds
Address 3112 W. US Hwy 82, Lovington, NM 88260	Telephone No. 505-441-0965
Facility Name TNM Kochane Pump Historical	Facility Type Pump

Surface Owner Danny Berry	Mineral Owner BLM	Lease No.

API # 30-025-08465-00-00

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
O	27	20S	34E					Lea

Latitude 32° 32' 15.7" **Longitude** 103° 32' 41.7"

NATURE OF RELEASE

Type of Release Crude Oil	Volume of Release unknown	Volume Recovered
Source of Release Pump	Date and Hour of Occurrence Unknown	Date and Hour of Discovery 07/24/2008 @ 9:00
Was Immediate Notice Given? X Yes ☐ No ☐ Not Required	If YES, To Whom? Larry Johnson	
By Whom? Camille Bryant	Date and Hour 08/07/2008 @ 8:00	
Was a Watercourse Reached? ☐ Yes ☒ No	If YES, Volume Impacting the Watercourse.	

If a Watercourse was Impacted, Describe Fully.*

RECEIVED
AUG 12 2008
HOBBS OCD

Describe Cause of Problem and Remedial Action Taken Landowner notified Plains Pipeline of historical release located on his property.

Describe Area Affected and Cleanup Action Taken:* Remediation in progress.

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

Signature: Camille Bryant	OIL CONSERVATION DIVISION
Printed Name: Camille Bryant	Approved by District Supervisor: L Johnson ENVIRONMENTAL ENGINEER
Title: Remediation Coordinator	Approval Date: 8.12.08 Expiration Date: 10.15.08
E-mail Address: cjbryant@paalp.com	Conditions of Approval: SUBMIT FINAL C-141 Attached ☐ IRP-1926
Date: 08/07/2008 Phone:505-441-0965	

* Attach Additional Sheets If Necessary

PGRL0823836529
nGRL0823839448
eGRL0823842282