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

FLWJ 0518756948 7.6.05 R-20

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 Marketing, LP	Contact Camille Reynolds
Address 5805 East Hwy. 80, Midland, TX 79706	Telephone No. 505-441-0965
Facility Name Young Deep to Lynch Idle 10"	Facility Type 10"Steel Pipeline

Surface Owner BLM	Mineral Owner	Lease No.

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
A	19	20S	34E					Lea

Latitude 32° 33'54.1" **Longitude** 103° 35' 31.8"

NATURE OF RELEASE

Type of Release Crude Oil	Volume of Release 35 barrels	Volume Recovered 15 barrels
Source of Release 10" Steel Pipeline	Date and Hour of Occurrence 6/30/2005 @ 06:30	Date and Hour of Discovery 6/30/2005 @ 06:45
Was Immediate Notice Given? ☒ Yes ☐ No ☐ Not Required	If YES, To Whom? Larry Johnson	
By Whom? Camille Reynolds	Date and Hour 6/30/2005@ 15:37	
Was a Watercourse Reached? ☐ Yes ☒ No	If YES, Volume Impacting the Watercourse.	

If a Watercourse was Impacted, Describe Fully.*

WTR APPROX 150'

JUL

Describe Cause of Problem and Remedial Action Taken.* Internal corrosion of the 10 inch pipeline resulted in release of crude oil. A clamp was installed on the pipeline to mitigate the release. The line is idle so information concerning volume and pressure on line is unavailable.

Describe Area Affected and Cleanup Action Taken.* The impacted soil was excavated and stockpiled on plastic. Aerial extent of surface impact was 1,843 square feet.

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 Reynolds	OIL CONSERVATION DIVISION
Printed Name: Camille Reynolds	Approved by District Supervisor:
Title: Remediation Coordinator	Approval Date: / Expiration Date:
E-mail Address: cjreynolds@paalp.com	Conditions of Approval: / Attached ☐
Date: 7/6/05 Phone:505-441-0965	

* Attach Additional Sheets If Necessary

Basin Environmental Service Technologies, LLC

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

Effective Solutions

JERBAC OK
7.4.05
To Chris & Bobby

PRELIMINARY SITE INVESTIGATION REPORT
and
REMEDIATION/CLOSURE PLAN

PLAINS MARKETING, L.P.
Young Deep to Lynch Idle 10"
Lea County, New Mexico
Plains EMS # 2005-00156
UNIT A (NE/NE), Section 19, Township 20S, Range 34E
Latitude, Longitude 32°, 33', 54.1" North, 103°, 35', 31.8" West

Prepared For:

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

Prepared By:
Basin Environmental Service Technologies, LLC
P. O. Box 301
Lovington, New Mexico 88260

27 July 2005

Ken Dutton
Basin Environmental Service Technologies, LLC

TABLE OF CONTENTS

Tables

Figures

Appendices

INTRODUCTION

Basin Environmental Service Technologies, LLC (Basin), responded to a pipeline release for Plains Marketing, L.P. (Plains), located on the Young Deep to Lynch Idle 10-inch Pipeline on 30 June 2005. The Young Deep to Lynch Idle 10-inch Pipeline was clamped and the impacted soils were excavated and temporarily stockpiled on a poly liner.

This site is located in Unit A (NE/NE), Section 19, Township 20 South, Range 34 East, in Lea County, New Mexico (topographic Site Location Map is attached as Figure 1) on land owned by the Bureau of Land Management (BLM). The site is located at latitude 32°, 33', 54.1" North and longitude 103°, 35', 31.8" West. The site is characterized by a right-of-way for the pipeline in an undulating sand dune pasture utilized for cattle grazing. The visible surface stained area includes the release point covering an area approximately 60 feet long by 30 feet wide. Approximately 35 barrels of crude oil were released from the Plains Pipeline and 15 barrels were recovered.

An Emergency One-Call was initiated 30 June 2005 and all responding companies either cleared or marked their respective lines. Subsequent renewals of the one-call have been accomplished as required.

Mr. Larry Johnson, New Mexico Oil Conservation Division (NMOCD), Hobbs, New Mexico District 1, and Mr. Steve Caffey, BLM, Hobbs, New Mexico Office, were verbally notified of the release on 30 June 2005. A BLM Report of Undesirable Event form was completed by Plains and submitted to the BLM, Hobbs, New Mexico Office (see Appendix C, Report of Undesirable Event).

SUMMARY OF FIELD ACTIVITIES

On 30 June 2005, Basin arrived at the Young Deep to Lynch Idle 10-inch Pipeline release to repair and contain the crude oil pipeline release under the direction of Plains operations personnel. After the release had been contained utilizing a pipeline repair clamp, the excavation of the impacted soil was initiated (see Figure 2, Site Map). The impacted soil was placed on a poly liner adjacent to the release for future remedial action. Under the direction of Plains operations personnel, the Young Deep to Lynch Idle 10-inch Pipeline was de-oiled following the crude oil release.

The release point and flow path were excavated to approximately 125 feet long by 36 feet wide and 8 feet below ground surface (bgs) (see Figure 2, Site Map). All excavated soil was placed on a poly liner for future remedial action. On 11 July 2005, confirmation soil samples were collected and screened with a Photoionization Detector (PID), calibrated 11 July 2005 (see Figure 2, Site Map). The selected soil samples were analyzed for benzene, toluene, ethylbenzene, and xylenes (BTEX), and total petroleum hydrocarbons – gasoline range organics/diesel range organics (TPH-GRO/DRO). Laboratory results of the confirmation soil samples indicate that

the excavated area is below NMOCD regulatory standards (see Table 1, Soil Chemistry Table).

NEW MEXICO OIL CONSERVATION DIVISION (NMOCD) SOIL CLASSIFICATION

A search of the New Mexico State Engineers database revealed no groundwater depth information for that section. However, Section 24 in the same Township and Range contains groundwater information revealing an average depth to groundwater of 270 feet bgs. There are no surface water bodies or water wells within 1000 feet of the release site. Based on this data, the site has an NMOCD Ranking Score of 0 –9, which sets the remediation levels at:

Benzene: 10 ppm

BTEX: 50 ppm

TPH: 5000 ppm

DISTRIBUTION OF HYDROCARBONS IN THE UNSATURATED ZONE

The release point and flow path areas were excavated to a depth of approximately 8 feet bgs and no visual evidence of crude oil impact was evident on the floor or sidewalls of the excavation. PID readings indicated no detectable concentrations of Volatile Organic Compounds (VOC) remained on the floor or sidewalls of the excavation. Confirmation soil samples were collected from the excavation on 11 July 2005; field screened with a PID and were analyzed for concentrations of BTEX and TPH. Laboratory data sheets and chain-of-custody forms are attached (Appendix C).

Analytical results indicated detectable BTEX concentrations were below NMOCD regulatory standards for the Release Point North Wall soil sample at a depth of 3 feet bgs. Analytical results indicated BTEX concentrations were not detected above the laboratory detection limits on the remaining confirmation soil samples. Analytical results indicated detectable TPH concentrations were below NMOCD regulatory standards for the Release Point North Wall, Release Point Floor, West of Release Point 64.5' North Wall and West of Release Point 65' Floor, soil samples at a depth of 3, 7, 3 and 8 feet bgs, respectively. Analytical results indicated TPH concentrations were not detected above the laboratory detections limits on the remaining confirmation soil samples.

ARCHEOLOGICAL SURVEY RESULTS

Boone Archeological Services, LLC, Carlsbad, New Mexico, conducted an archeological survey of the site, in accordance with BLM directives. Results of the archeological survey did not find evidence of cultural resources present, and therefore, recommended archeological clearance. A copy of the archeological survey is included in Appendix D.

RECOMMENDATIONS FOR REMEDIATION/CLOSURE

Approximately 1400 cubic yards of impacted soil has been excavated and stockpiled on-site resulting from the emergency response and excavation of the release point and flow path. Approximately 100 cubic yards of segregated clean overburden required bulldozing aside to allow an area for stockpiling the impacted soils and access to the release point and flow path. Based on the analytical results, which indicate the excavation is below NMOCD regulatory standards, Basin and Plains propose to blend the excavated impacted soils with the clean segregated overburden and surrounding predominant sand dunes, collect confirmation soil samples from the blended material to ensure TPH concentrations of less than 5,000 mg/kg and backfill the excavation with the blended soils. The backfilled excavation will be contoured to the original rangeland grade surrounding the site and reseeded with BLM approved grass seed. A request for closure will be submitted to the Hobbs District 1 office, upon completion of backfilling activities. Based on the results of the remediation activities conducted, Plains requests approval from the OCD and BLM to implement these proposed final remediation and site closure activities.

QA/QC PROCEDURES

Soil Sampling

Soil samples were delivered to Environmental Lab of Texas, Inc. in Odessa, Texas for BTEX, TPH analyses using the methods described below. Soil samples were analyzed for BTEX, TPH-GRO/DRO within fourteen days following the collection date.

The soil samples were analyzed as follows:

- BTEX concentrations in accordance with EPA Method 8021B, 5030
- TPH concentrations in accordance with modified EPA Method 8015M GRO/DRO

Decontamination Of Equipment

Cleaning of the sampling equipment will be the responsibility of the environmental technician. Prior to use, and between each sample, the sampling equipment will be cleaned with Liqui-Nox® detergent and rinsed with distilled water.

Laboratory Protocol

The laboratory will be responsible for proper QA/QC procedures after signing the chain-of-custody form. These procedures will be either transmitted with the laboratory reports or are on file at the laboratory.

LIMITATIONS

Basin Environmental Service Technologies, LLC, has prepared this Preliminary Investigation Report and Work Plan 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 Plains Marketing, L.P.

DISTRIBUTION

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Larry.Johnson@state.nm.us

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Hobbs Field Office
414 W. Taylor
Hobbs, New Mexico 88240

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P. O. Box 301
Lovington, New Mexico 88260
kdutton@basinenv.com

Copy 3

TABLES

TABLE 1

SOIL CHEMISTRY

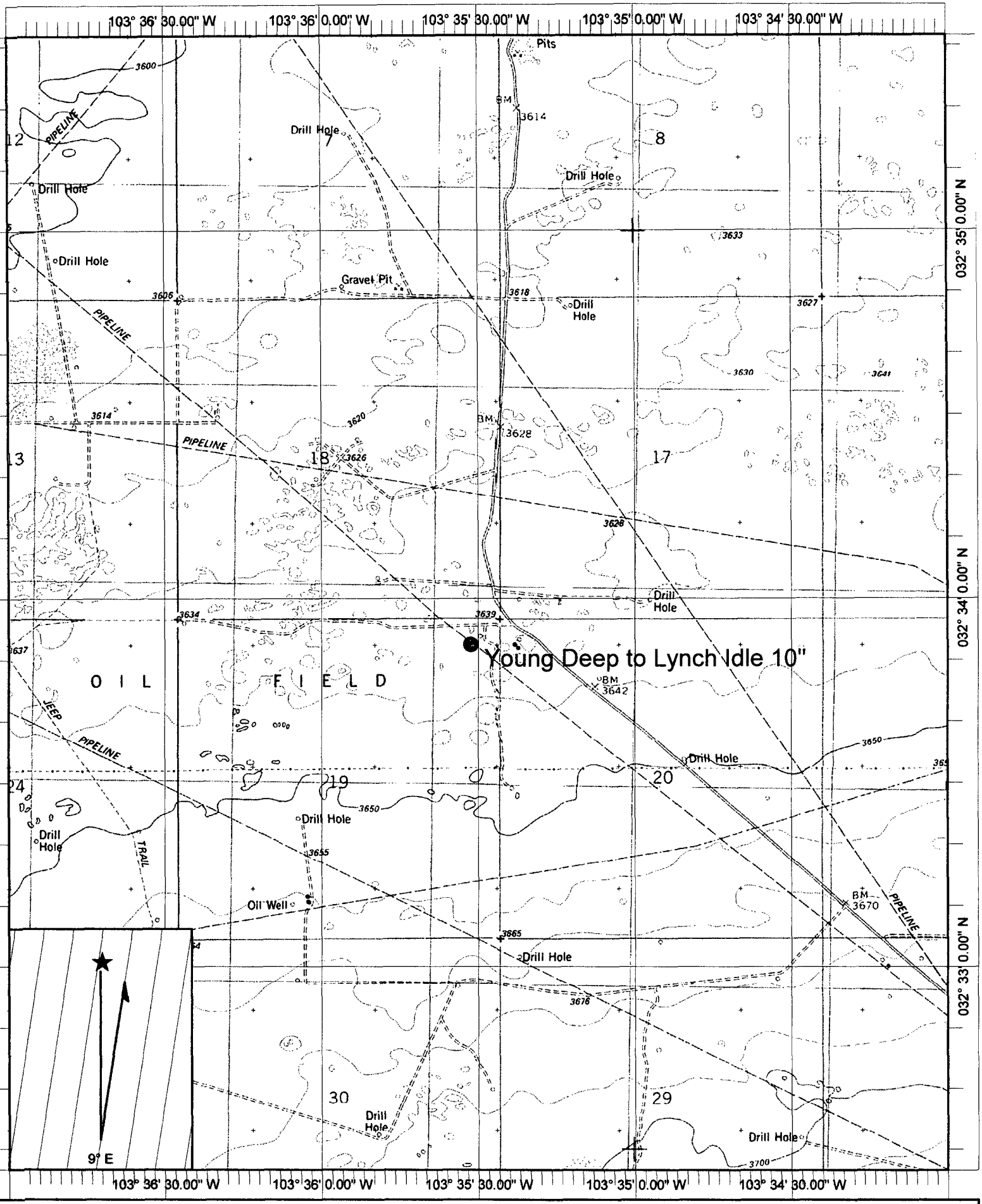
PLAINS MARKETING, L.P.
YOUNG DEEP TO LYNCH 10" IDLE
LEA COUNTY, NEW MEXICO
EMS: 2005-00156

SAMPLE LOCATION	SAMPLE DEPTH (Below Normal Surface Grade)	SAMPLE DATE	METHOD: EPA SW 846-8021B, 5030					METHOD: 8015M		TOTAL TPH	CHLORIDES
			BENZENE	TOLUENE	ETHYL-BENZENE	M,P-XYLENES	O-XYLENE	GRO	DRO		
			(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
Release Point N. Wall	3' bgs	07/11/05	<0.025	<0.025	<0.025	0.037	<0.025	<10	51.1	51.1	
Release Point S. Wall	3' bgs	07/11/05	<0.025	<0.025	<0.025	<0.025	<0.025	<10	<10	<10	
Release Point Floor	7' bgs	07/11/05	<0.025	<0.025	<0.025	<0.025	<0.025	<10	54.8	54.8	
West of Release Point 64.5' S. Wall	3' bgs	07/11/05	<0.025	<0.025	<0.025	<0.025	<0.025	<10	<10	<10	
West of Release Point 64.5' N. Wall	3' bgs	07/11/05	<0.025	<0.025	<0.025	<0.025	<0.025	<10	46.8	46.8	
West of Release Point 65' Floor	8' bgs	07/11/05	<0.025	<0.025	<0.025	<0.025	<0.025	<10	75.9	75.9	
East of Release Point 57' S. Wall	3' bgs	07/11/05	<0.025	<0.025	<0.025	<0.025	<0.025	<10	<10	<10	
East of Release Point 57' N. Wall	3' bgs	07/11/05	<0.025	<0.025	<0.025	<0.025	<0.025	<10	<10	<10	
East of Release Point 57' Floor	8' bgs	07/11/05	<0.025	<0.025	<0.025	<0.025	<0.025	<10	<10	<10	364
Stockpile Background		07/13/05	<0.025	0.308	0.139	2.00	0.884	637	4090	4730	
NMOCD CRITERIA			**10**	**TOTAL BTEX 50**						**5000**	

FIGURES

FIGURE 1

SITE LOCATION MAP

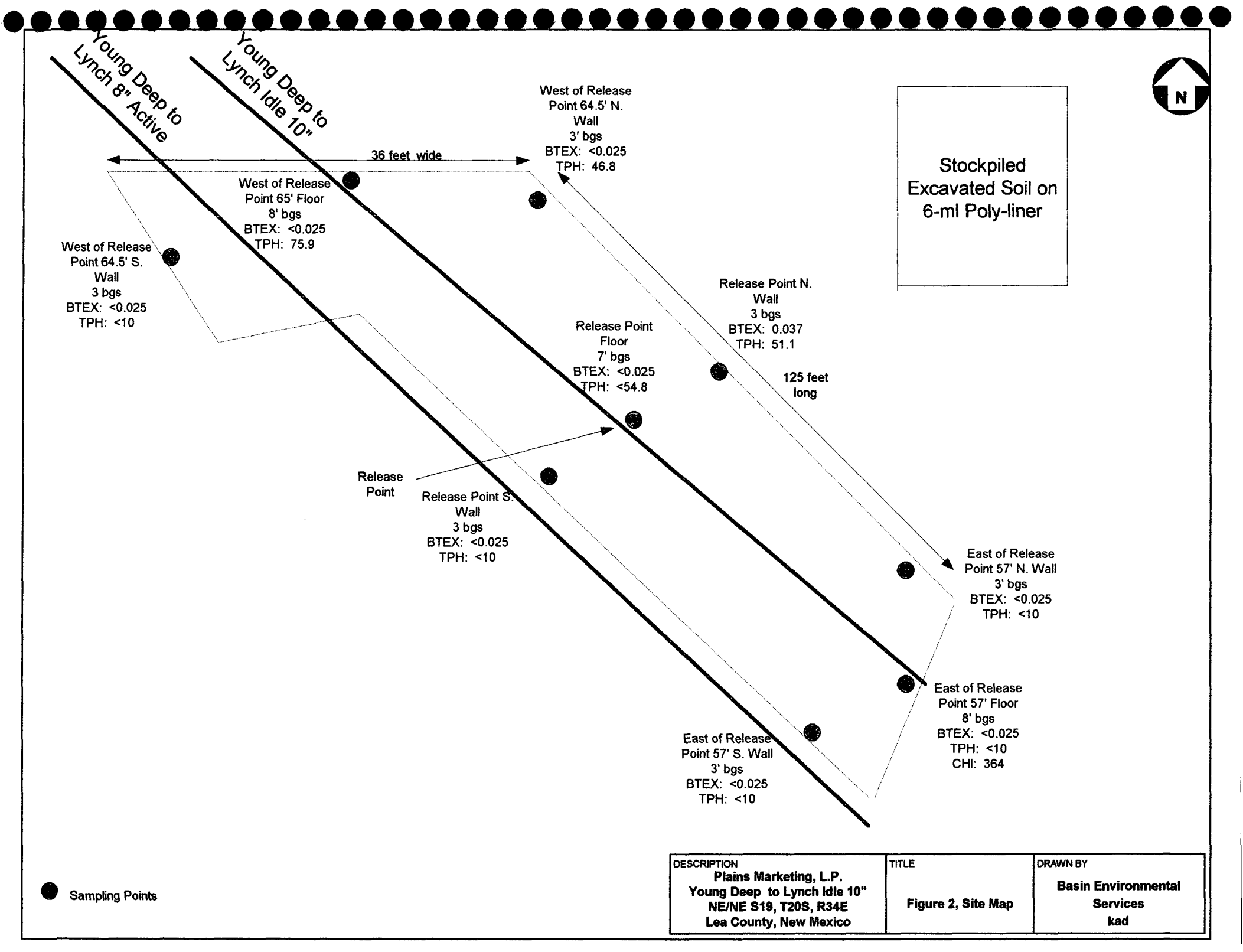


Name: LEA
Date: 7/29/2005
Scale: 1 inch equals 2000 feet

Location: 032° 33' 59.6" N 103° 35' 29.99" W
Caption: Figure 1, Site Location Map
Plains Marketing, L. P.
Young Deep to Lynch Idle 10"

FIGURE 2

SITE MAP

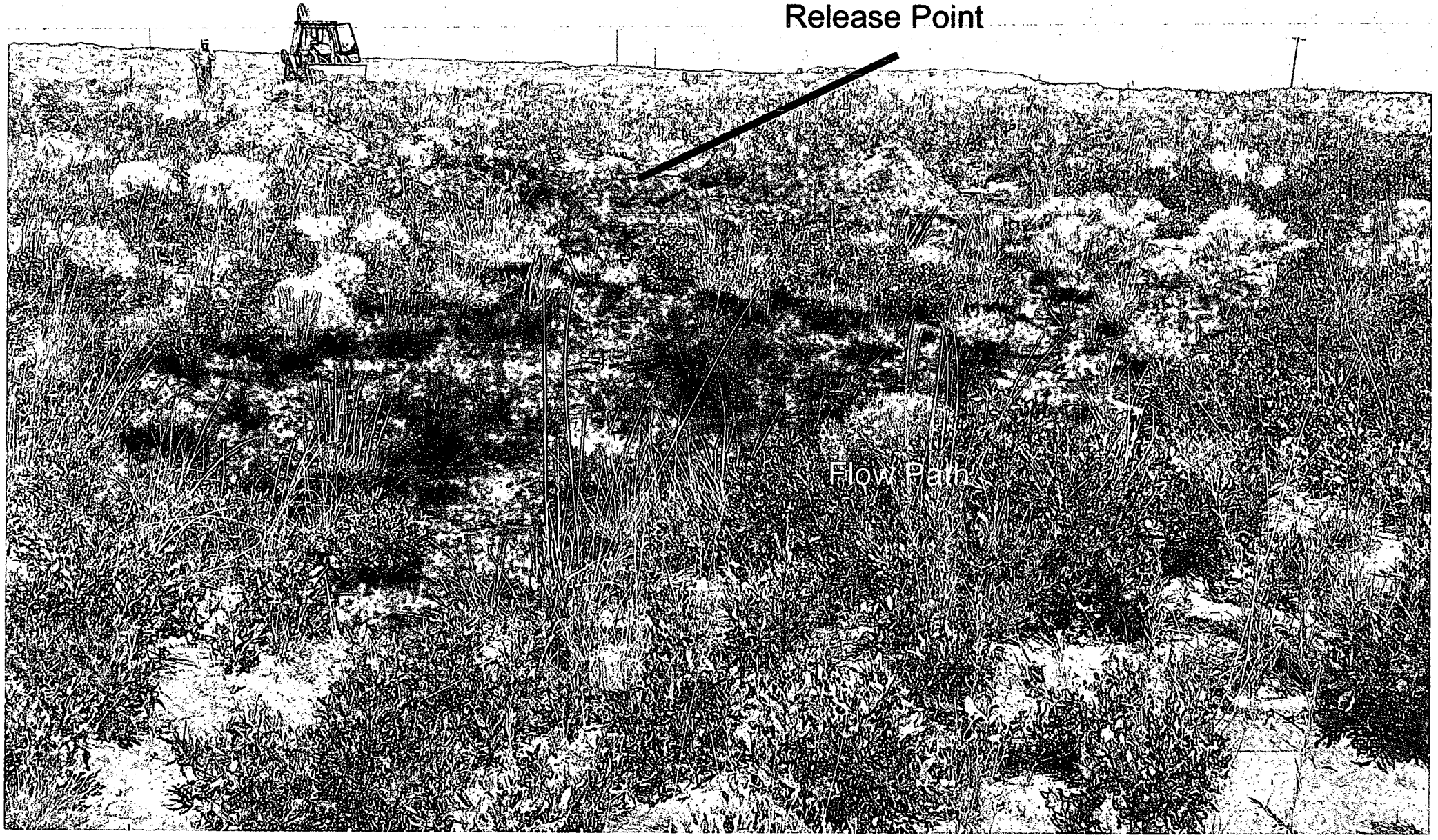


DESCRIPTION	TITLE	DRAWN BY
Plains Marketing, L.P. Young Deep to Lynch Idle 10" NE/NE S19, T20S, R34E Lea County, New Mexico	**Figure 2, Site Map**	**Basin Environmental Services kad**

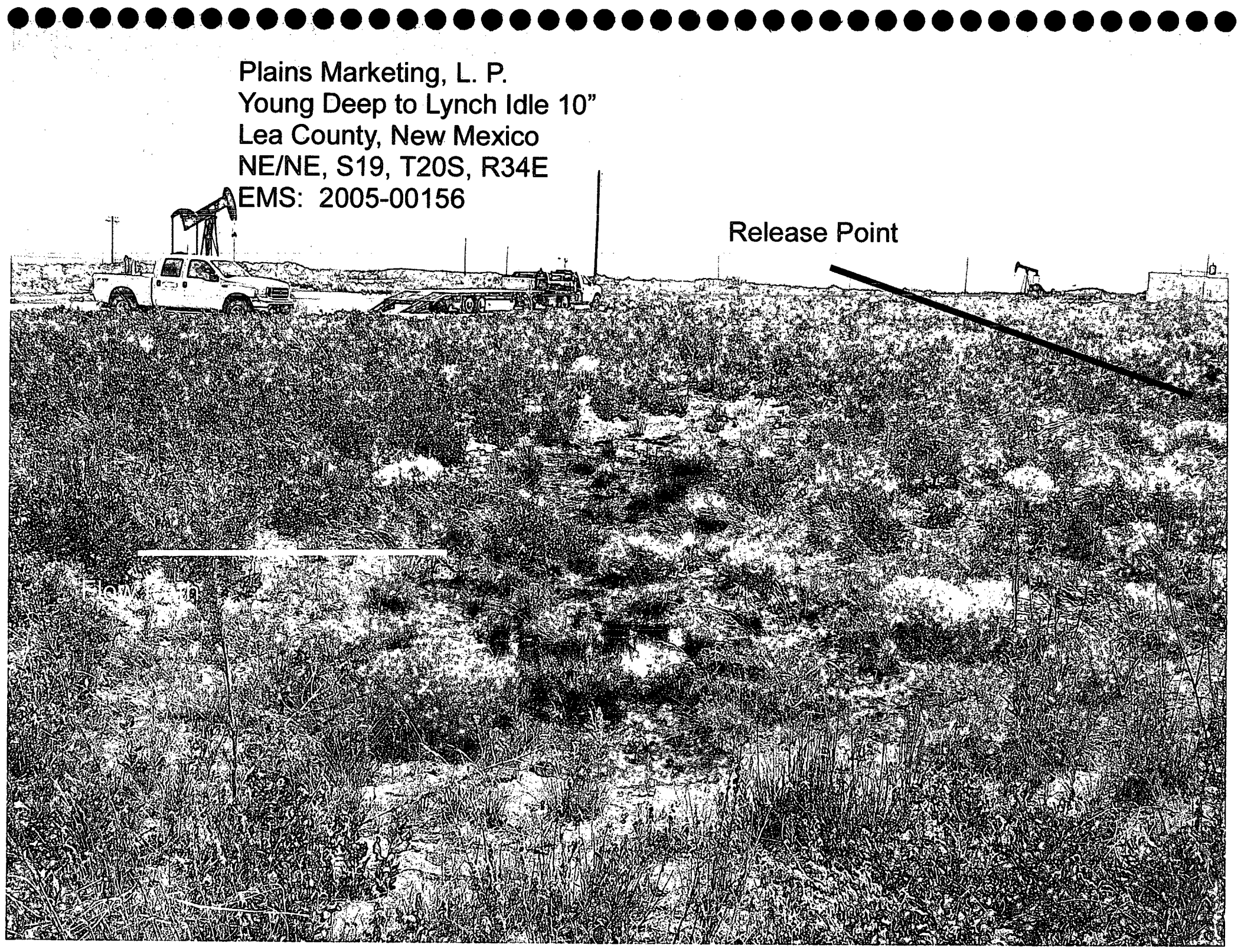
FIGURE 3

DIGITAL PHOTOS

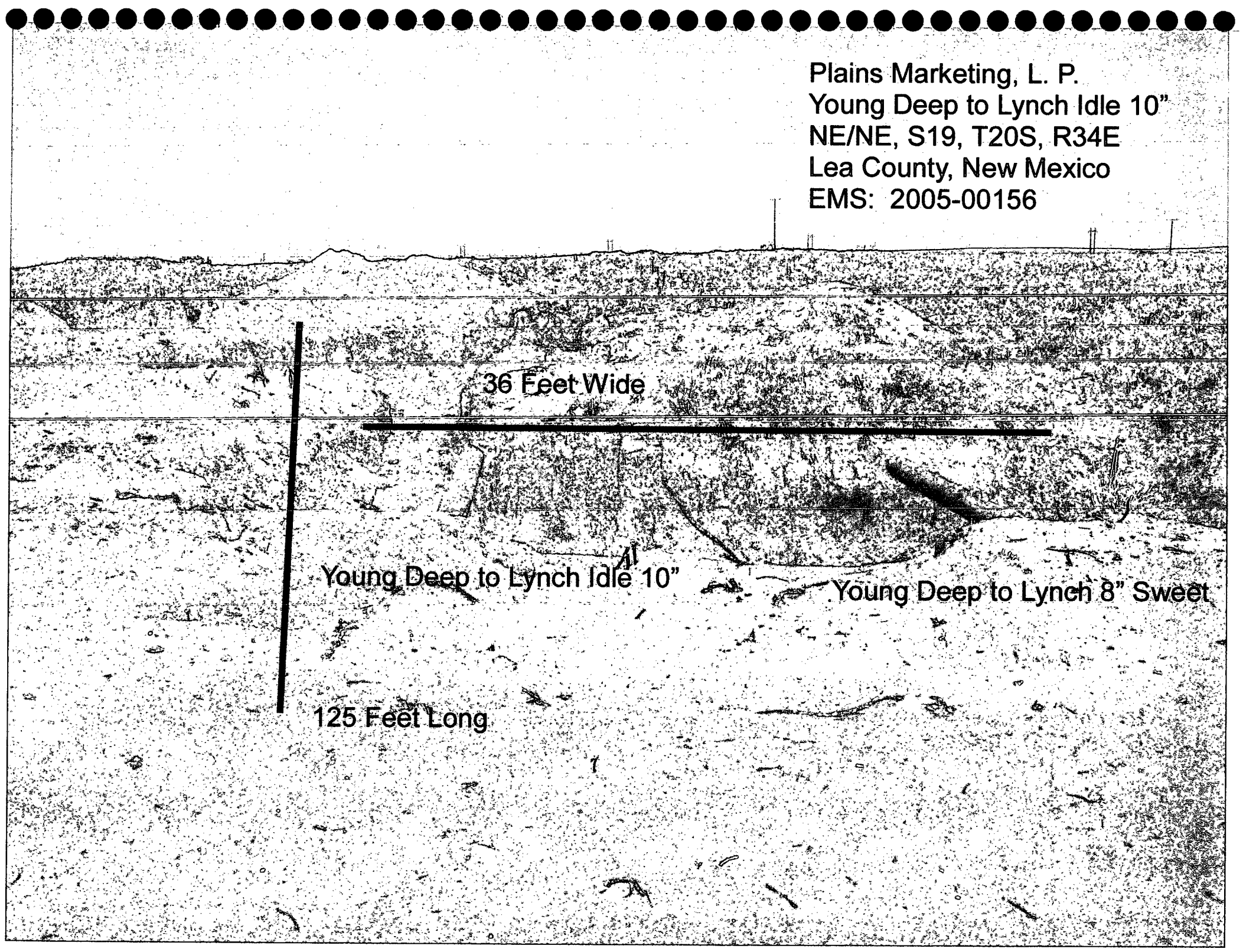
Plains Marketing, L. P.
Young Deep to Lynch Idle 10"
Lea County, New Mexico
NE/NE, S19, T20S, R34E
EMS: 2005-00156

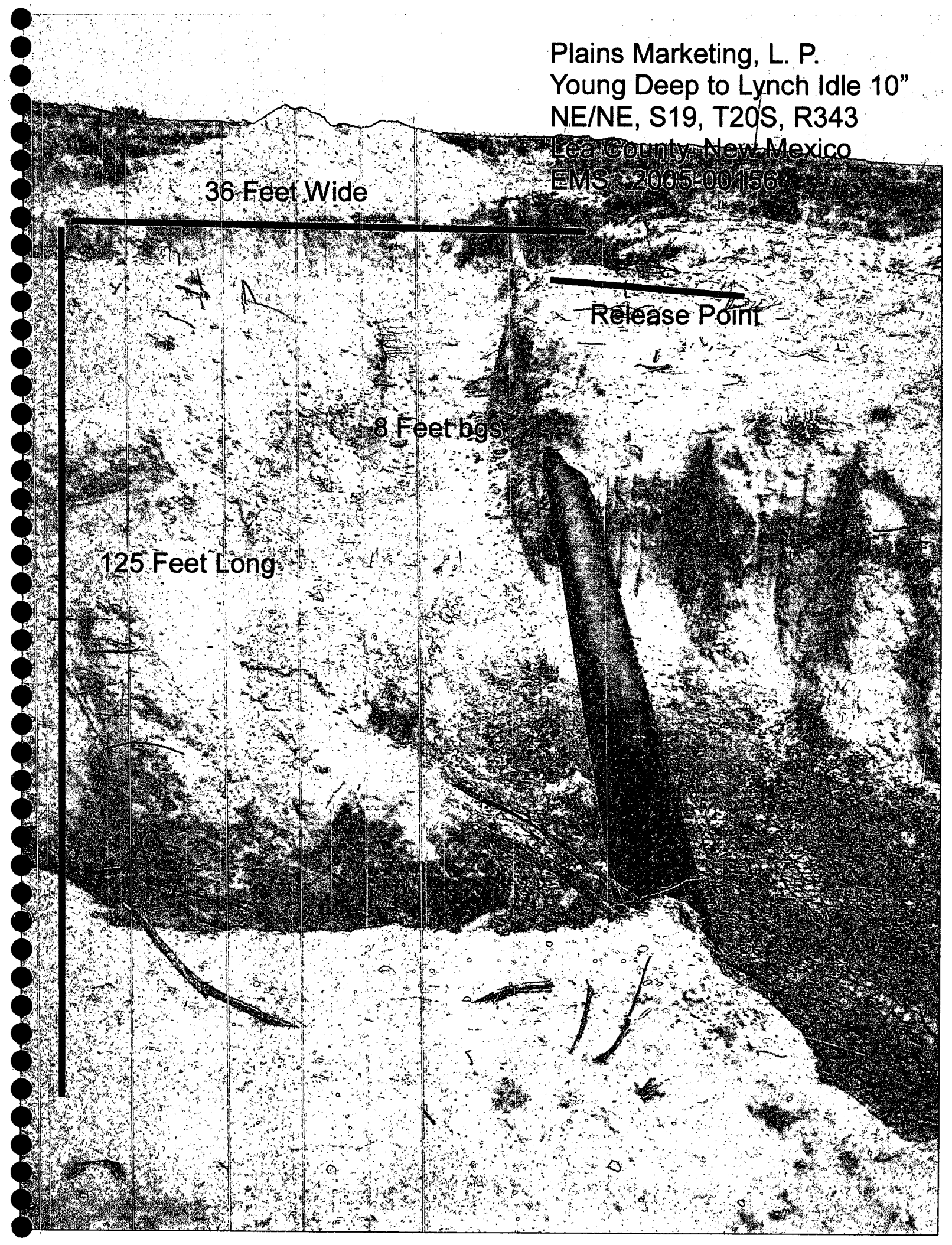


Plains Marketing, L. P.
Young Deep to Lynch Idle 10"
Lea County, New Mexico
NE/NE, S19, T20S, R34E
EMS: 2005-00156



Plains Marketing, L. P.
Young Deep to Lynch Idle 10"
NE/NE, S19, T20S, R34E
Lea County, New Mexico
EMS: 2005-00156




Plains Marketing, L. P.
Young Deep to Lynch Idle 10"
NE/NE, S19, T20S, R343
Lea County, New Mexico
EMS - 2005-001567
36 Feet Wide
Release Point
8 Feet bgs
125 Feet Long

APPENDICES

APPENDIX A

NEW MEXICO OFFICE OF THE STATE ENGINEER WATER WELL DATABASE REPORT

New Mexico Office of the State Engineer
Well Reports and Downloads

Township: 20S Range: 34E Sections: 19,20,21,22,23,24

NAD27 X: Y: Zone: Search Radius:

County: Basin: Number: Suffix:

Owner Name: (First) (Last) ○ Non-Domestic
○ Domestic ◉ All

Well / Surface Data Report | Avg Depth to Water Report | Water Column Report | Clear Form | WATERS Menu | Help

AVERAGE DEPTH OF WATER REPORT 07/27/2005

(Depth Water in Feet)

Bsn	Tws	Rng	Sec	Zone	X	Y	Wells	Min	Max	Avg
CP	20S	34E	24				1	270	270	270

Record Count: 1

New Mexico Office of the State Engineer
Well Reports and Downloads

Township: 20S Range: 34E Sections: 19

NAD27 X: Y: Zone: Search Radius:

County: Basin: Number: Suffix:

Owner Name: (First) (Last) ○ Non-Domestic
○ Domestic ◉ All

Well / Surface Data Report | Avg Depth to Water Report | Water Column Report | Clear Form | WATERS Menu | Help

WELL / SURFACE DATA REPORT 07/27/2

DB File Nbr	Use	(acre ft per annum) Diversion	Owner	Well N

No Records found, try again

New Mexico Office of the State Engineer
Well Reports and Downloads

Township: 20S Range: 34E Sections: 19,30,29,28,27,26,25

NAD27 X: Y: Zone: Search Radius:

County: Basin: Number: Suffix:

Owner Name: (First) (Last) ○ Non-Domestic ○ Domestic ◉ All

Well / Surface Data Report | Avg Depth to Water Report | Water Column Report | Clear Form | WATERS Menu | Help

AVERAGE DEPTH OF WATER REPORT 07/27/2005

								(Depth Water in Feet)		
Bsn	Tws	Rng	Sec	Zone	X	Y	Wells	Min	Max	Avg

No Records found, try again

APPENDIX B

ENVIRONMENTAL LABORATORY OF TEXAS ANALYTICAL RESULTS

ENVIRONMENTAL LAB OF

12600 West I-20 East - Odessa, Texas 79765

Analytical Report

Prepared for:

Camille Reynolds

Plains All American EH & S

1301 S. County Road 1150

Midland, TX 79706-4476

Project: Young Deep to Lynch 10" Idle

Project Number: EMS# 2005-00156

Location: Lea County, NM

Lab Order Number: 5G15010

Report Date: 07/20/05

Plains All American EH & S	Project: Young Deep to Lynch 10" Idle	Fax: (432) 687-4914
1301 S. County Road 1150	Project Number: EMS# 2005-00156	**Reported:**
Midland TX, 79706-4476	Project Manager: Camille Reynolds	07/20/05 08:47

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Release Point N. Wall 3' BGS	5G15010-01	Soil	07/11/05 09:00	07/15/05 12:00
Release Point S. Wall 3' BGS	5G15010-02	Soil	07/11/05 09:05	07/15/05 12:00
Release Point Floor 7' BGS	5G15010-03	Soil	07/11/05 09:10	07/15/05 12:00
West of Release Point 64.5' S. Wall 3' BGS	5G15010-04	Soil	07/11/05 09:15	07/15/05 12:00
West of Release Point 64.5' N. Wall 3' BGS	5G15010-05	Soil	07/11/05 09:20	07/15/05 12:00
West of Release Point 65' Floor 8' BGS	5G15010-06	Soil	07/11/05 09:25	07/15/05 12:00
East of Release Point 57' S. Wall 3' BGS	5G15010-07	Soil	07/11/05 09:30	07/15/05 12:00
East of Release Point 57' N. Wall 3' BGS	5G15010-08	Soil	07/11/05 09:35	07/15/05 12:00
East of Release Point 57' Floor 8' BGS	5G15010-09	Soil	07/11/05 09:40	07/15/05 12:00
Stockpile Background	5G15010-10	Soil	07/13/05 11:20	07/15/05 12:00

12600 West I-20 East - Odessa, Texas 79705 - (432) 563-1800 - Fax (432) 563-1713

Plains All American EH & S	Project: Young Deep to Lynch 10" Idle	Fax: (432) 687-4914
1301 S. County Road 1150	Project Number: EMS# 2005-00156	**Reported:**
Midland TX, 79706-4476	Project Manager: Camille Reynolds	07/20/05 08:47

Organics by GC

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Release Point N. Wall 3' BGS (5G15010-01) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EG51902	07/18/05	07/18/05	EPA 8021B	
Toluene	ND	0.0250	"	"	"	"	"	"	
Ethylbenzene	ND	0.0250	"	"	"	"	"	"	
Xylene (p/m)	ND	0.0250	"	"	"	"	"	"	
Xylene (o)	ND	0.0250	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*82.7 %*	*80-120*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*89.4 %*	*80-120*		"	"	"	"	
Gasoline Range Organics C6-C12	ND	10.0	mg/kg dry	1	EG51515	07/15/05	07/18/05	EPA 8015M	
Diesel Range Organics >C12-C35	**51.1**	10.0	"	"	"	"	"	"	
Total Hydrocarbon C6-C35	**51.1**	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		*85.6 %*	*70-130*		"	"	"	"	
Surrogate: 1-Chlorooctadecane		*90.4 %*	*70-130*		"	"	"	"	
Release Point S. Wall 3' BGS (5G15010-02) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EG51902	07/18/05	07/18/05	EPA 8021B	
Toluene	ND	0.0250	"	"	"	"	"	"	
Ethylbenzene	ND	0.0250	"	"	"	"	"	"	
Xylene (p/m)	ND	0.0250	"	"	"	"	"	"	
Xylene (o)	ND	0.0250	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*80.1 %*	*80-120*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*93.3 %*	*80-120*		"	"	"	"	
Gasoline Range Organics C6-C12	ND	10.0	mg/kg dry	1	EG51515	07/15/05	07/18/05	EPA 8015M	
Diesel Range Organics >C12-C35	ND	10.0	"	"	"	"	"	"	
Total Hydrocarbon C6-C35	ND	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		*87.6 %*	*70-130*		"	"	"	"	
Surrogate: 1-Chlorooctadecane		*88.8 %*	*70-130*		"	"	"	"	
Release Point Floor 7' BGS (5G15010-03) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EG51902	07/18/05	07/18/05	EPA 8021B	
Toluene	ND	0.0250	"	"	"	"	"	"	
Ethylbenzene	ND	0.0250	"	"	"	"	"	"	
Xylene (p/m)	ND	0.0250	"	"	"	"	"	"	
Xylene (o)	ND	0.0250	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*87.9 %*	*80-120*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*99.3 %*	*80-120*		"	"	"	"	
Gasoline Range Organics C6-C12	ND	10.0	mg/kg dry	1	EG51515	07/15/05	07/18/05	EPA 8015M	
Diesel Range Organics >C12-C35	**54.8**	10.0	"	"	"	"	"	"	
Total Hydrocarbon C6-C35	**54.8**	10.0	"	"	"	"	"	"	

12600 West I-20 East - Odessa, Texas 79705 - (432) 563-1800 - Fax (432) 563-1713

Plains All American EH & S	Project: Young Deep to Lynch 10" Idle	Fax: (432) 687-4914
1301 S. County Road 1150	Project Number: EMS# 2005-00156	**Reported:**
Midland TX, 79706-4476	Project Manager: Camille Reynolds	07/20/05 08:47

Organics by GC

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Release Point Floor 7' BGS (5G15010-03) Soil									
Surrogate: 1-Chlorooctane		*74.6 %*	*70-130*		*EG51515*	*07/15/05*	*07/18/05*	*EPA 8015M*	
Surrogate: 1-Chlorooctadecane		*94.6 %*	*70-130*		"	"	"	"	
West of Release Point 64.5' S. Wall 3' BGS (5G15010-04) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EG51902	07/18/05	07/18/05	EPA 8021B	
Toluene	ND	0.0250	"	"	"	"	"	"	
Ethylbenzene	ND	0.0250	"	"	"	"	"	"	
Xylene (p/m)	ND	0.0250	"	"	"	"	"	"	
Xylene (o)	ND	0.0250	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*84.5 %*	*80-120*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*101 %*	*80-120*		"	"	"	"	
Gasoline Range Organics C6-C12	ND	10.0	mg/kg dry	1	EG51516	07/15/05	07/18/05	EPA 8015M	
Diesel Range Organics >C12-C35	ND	10.0	"	"	"	"	"	"	
Total Hydrocarbon C6-C35	ND	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		*88.8 %*	*70-130*		"	"	"	"	
Surrogate: 1-Chlorooctadecane		*112 %*	*70-130*		"	"	"	"	
West of Release Point 64.5' N. Wall 3' BGS (5G15010-05) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EG51902	07/18/05	07/18/05	EPA 8021B	
Toluene	ND	0.0250	"	"	"	"	"	"	
Ethylbenzene	ND	0.0250	"	"	"	"	"	"	
Xylene (p/m)	ND	0.0250	"	"	"	"	"	"	
Xylene (o)	ND	0.0250	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*84.1 %*	*80-120*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*100 %*	*80-120*		"	"	"	"	
Gasoline Range Organics C6-C12	ND	10.0	mg/kg dry	1	EG51516	07/15/05	07/18/05	EPA 8015M	
Diesel Range Organics >C12-C35	**46.8**	10.0	"	"	"	"	"	"	
Total Hydrocarbon C6-C35	**46.8**	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		*74.8 %*	*70-130*		"	"	"	"	
Surrogate: 1-Chlorooctadecane		*96.8 %*	*70-130*		"	"	"	"	

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Plains All American EH & S	Project: Young Deep to Lynch 10" Idle	Fax: (432) 687-4914
1301 S. County Road 1150	Project Number: EMS# 2005-00156	**Reported:**
Midland TX, 79706-4476	Project Manager: Camille Reynolds	07/20/05 08:47

Organics by GC

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
West of Release Point 65' Floor 8' BGS (5G15010-06) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EG51902	07/18/05	07/18/05	EPA 8021B	
Toluene	ND	0.0250	"	"	"	"	"	"	
Ethylbenzene	ND	0.0250	"	"	"	"	"	"	
Xylene (p/m)	ND	0.0250	"	"	"	"	"	"	
Xylene (o)	ND	0.0250	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*100 %*	*80-120*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*109 %*	*80-120*		"	"	"	"	
Gasoline Range Organics C6-C12	ND	10.0	mg/kg dry	1	EG51516	07/15/05	07/18/05	EPA 8015M	
Diesel Range Organics >C12-C35	**75.9**	10.0	"	"	"	"	"	"	
Total Hydrocarbon C6-C35	**75.9**	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		*81.6 %*	*70-130*		"	"	"	"	
Surrogate: 1-Chlorooctadecane		*95.2 %*	*70-130*		"	"	"	"	
East of Release Point 57' S. Wall 3' BGS (5G15010-07) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EG51902	07/18/05	07/18/05	EPA 8021B	
Toluene	ND	0.0250	"	"	"	"	"	"	
Ethylbenzene	ND	0.0250	"	"	"	"	"	"	
Xylene (p/m)	ND	0.0250	"	"	"	"	"	"	
Xylene (o)	ND	0.0250	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*86.7 %*	*80-120*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*96.7 %*	*80-120*		"	"	"	"	
Gasoline Range Organics C6-C12	ND	10.0	mg/kg dry	1	EG51516	07/15/05	07/18/05	EPA 8015M	
Diesel Range Organics >C12-C35	ND	10.0	"	"	"	"	"	"	
Total Hydrocarbon C6-C35	ND	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		*80.0 %*	*70-130*		"	"	"	"	
Surrogate: 1-Chlorooctadecane		*99.2 %*	*70-130*		"	"	"	"	
East of Release Point 57' N. Wall 3' BGS (5G15010-08) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EG51902	07/18/05	07/18/05	EPA 8021B	
Toluene	ND	0.0250	"	"	"	"	"	"	
Ethylbenzene	ND	0.0250	"	"	"	"	"	"	
Xylene (p/m)	ND	0.0250	"	"	"	"	"	"	
Xylene (o)	ND	0.0250	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*95.1 %*	*80-120*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*113 %*	*80-120*		"	"	"	"	
Gasoline Range Organics C6-C12	ND	10.0	mg/kg dry	1	EG51516	07/15/05	07/18/05	EPA 8015M	
Diesel Range Organics >C12-C35	ND	10.0	"	"	"	"	"	"	
Total Hydrocarbon C6-C35	ND	10.0	"	"	"	"	"	"	

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Organics by GC

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
East of Release Point 57' N. Wall 3' BGS (5G15010-08) Soil									
Surrogate: 1-Chlorooctane		*84.0 %*	*70-130*		*EG51516*	*07/15/05*	*07/18/05*	*EPA 8015M*	
Surrogate: 1-Chlorooctadecane		*102 %*	*70-130*		"	"	"	"	
East of Release Point 57' Floor 8' BGS (5G15010-09) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EG51902	07/18/05	07/18/05	EPA 8021B	
Toluene	ND	0.0250	"	"	"	"	"	"	
Ethylbenzene	ND	0.0250	"	"	"	"	"	"	
Xylene (p/m)	ND	0.0250	"	"	"	"	"	"	
Xylene (o)	ND	0.0250	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*87.4 %*	*80-120*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*97.7 %*	*80-120*		"	"	"	"	
Gasoline Range Organics C6-C12	ND	10.0	mg/kg dry	1	EG51516	07/15/05	07/18/05	EPA 8015M	
Diesel Range Organics >C12-C35	ND	10.0	"	"	"	"	"	"	
Total Hydrocarbon C6-C35	ND	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		*87.4 %*	*70-130*		"	"	"	"	
Surrogate: 1-Chlorooctadecane		*105 %*	*70-130*		"	"	"	"	
Stockpile Background (5G15010-10) Soil									
Benzene	**J [0.0232]**	0.0250	mg/kg dry	25	EG51902	07/18/05	07/18/05	EPA 8021B	J
Toluene	**0.308**	0.0250	"	"	"	"	"	"	
Ethylbenzene	**0.139**	0.0250	"	"	"	"	"	"	
Xylene (p/m)	**2.00**	0.0250	"	"	"	"	"	"	
Xylene (o)	**0.884**	0.0250	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*94.0 %*	*80-120*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*90.2 %*	*80-120*		"	"	"	"	
Gasoline Range Organics C6-C12	**637**	50.0	mg/kg dry	5	EG51516	07/15/05	07/18/05	EPA 8015M	
Diesel Range Organics >C12-C35	**4090**	50.0	"	"	"	"	"	"	
Total Hydrocarbon C6-C35	**4730**	50.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		*22.0 %*	*70-130*		"	"	"	"	*S-06*
Surrogate: 1-Chlorooctadecane		*23.8 %*	*70-130*		"	"	"	"	*S-06*

Plains All American EH & S	Project: Young Deep to Lynch 10" Idle	Fax: (432) 687-4914
1301 S. County Road 1150	Project Number: EMS# 2005-00156	**Reported:**
Midland TX, 79706-4476	Project Manager: Camille Reynolds	07/20/05 08:47

General Chemistry Parameters by EPA / Standard Methods

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Release Point N. Wall 3' BGS (5G15010-01) Soil									
% Moisture	**5.2**	0.1	%	1	EG51807	07/15/05	07/18/05	% calculation	
Release Point S. Wall 3' BGS (5G15010-02) Soil									
% Moisture	**5.4**	0.1	%	1	EG51807	07/15/05	07/18/05	% calculation	
Release Point Floor 7' BGS (5G15010-03) Soil									
% Moisture	**6.9**	0.1	%	1	EG51807	07/15/05	07/18/05	% calculation	
West of Release Point 64.5' S. Wall 3' BGS (5G15010-04) Soil									
% Moisture	**1.1**	0.1	%	1	EG51807	07/15/05	07/18/05	% calculation	
West of Release Point 64.5' N. Wall 3' BGS (5G15010-05) Soil									
% Moisture	**7.2**	0.1	%	1	EG51807	07/15/05	07/18/05	% calculation	
West of Release Point 65' Floor 8' BGS (5G15010-06) Soil									
% Moisture	**12.3**	0.1	%	1	EG51807	07/15/05	07/18/05	% calculation	
East of Release Point 57' S. Wall 3' BGS (5G15010-07) Soil									
% Moisture	**2.9**	0.1	%	1	EG51807	07/15/05	07/18/05	% calculation	
East of Release Point 57' N. Wall 3' BGS (5G15010-08) Soil									
% Moisture	**7.6**	0.1	%	1	EG51807	07/15/05	07/18/05	% calculation	
East of Release Point 57' Floor 8' BGS (5G15010-09) Soil									
Chloride	**364**	5.00	mg/kg	10	EG51904	07/18/05	07/18/05	EPA 300.0	
% Moisture	**9.3**	0.1	%	1	EG51807	07/15/05	07/18/05	% calculation	
Stockpile Background (5G15010-10) Soil									
% Moisture	**4.4**	0.1	%	1	EG51807	07/15/05	07/18/05	% calculation	

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Organics by GC - Quality Control

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch EG51515 - Solvent Extraction (GC)										
Blank (EG51515-BLK1)				Prepared: 07/15/05 Analyzed: 07/18/05						
Gasoline Range Organics C6-C12	ND	10.0	mg/kg wet							
Diesel Range Organics >C12-C35	ND	10.0	"							
Total Hydrocarbon C6-C35	ND	10.0	"							
Surrogate: 1-Chlorooctane	*44.9*		*mg/kg*	*50.0*		*89.8*	*70-130*			
Surrogate: 1-Chlorooctadecane	*44.2*		*"*	*50.0*		*88.4*	*70-130*			
LCS (EG51515-BS1)				Prepared: 07/15/05 Analyzed: 07/18/05						
Gasoline Range Organics C6-C12	394	10.0	mg/kg wet	500		78.8	75-125			
Diesel Range Organics >C12-C35	395	10.0	"	500		79.0	75-125			
Total Hydrocarbon C6-C35	789	10.0	"	1000		78.9	75-125			
Surrogate: 1-Chlorooctane	*50.9*		*mg/kg*	*50.0*		*102*	*70-130*			
Surrogate: 1-Chlorooctadecane	*46.7*		*"*	*50.0*		*93.4*	*70-130*			
Calibration Check (EG51515-CCV1)				Prepared: 07/15/05 Analyzed: 07/18/05						
Gasoline Range Organics C6-C12	498		mg/kg	500		99.6	80-120			
Diesel Range Organics >C12-C35	498		"	500		99.6	80-120			
Total Hydrocarbon C6-C35	996		"	1000		99.6	80-120			
Surrogate: 1-Chlorooctane	*229*		*"*	*250*		*91.6*	*70-130*			
Surrogate: 1-Chlorooctadecane	*235*		*"*	*250*		*94.0*	*70-130*			
Matrix Spike (EG51515-MS1)	**Source: 5G15008-08**			Prepared: 07/15/05 Analyzed: 07/18/05						
Gasoline Range Organics C6-C12	443	10.0	mg/kg dry	507	ND	87.4	75-125			
Diesel Range Organics >C12-C35	455	10.0	"	507	35.1	82.8	75-125			
Total Hydrocarbon C6-C35	898	10.0	"	1010	35.1	85.4	75-125			
Surrogate: 1-Chlorooctane	*57.1*		*mg/kg*	*50.0*		*114*	*70-130*			
Surrogate: 1-Chlorooctadecane	*52.2*		*"*	*50.0*		*104*	*70-130*			
Matrix Spike Dup (EG51515-MSD1)	**Source: 5G15008-08**			Prepared: 07/15/05 Analyzed: 07/18/05						
Gasoline Range Organics C6-C12	476	10.0	mg/kg dry	507	ND	93.9	75-125	7.18	20	
Diesel Range Organics >C12-C35	471	10.0	"	507	35.1	86.0	75-125	3.46	20	
Total Hydrocarbon C6-C35	947	10.0	"	1010	35.1	90.3	75-125	5.31	20	
Surrogate: 1-Chlorooctane	*57.1*		*mg/kg*	*50.0*		*114*	*70-130*			
Surrogate: 1-Chlorooctadecane	*52.0*		*"*	*50.0*		*104*	*70-130*			

Organics by GC - Quality Control

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch EG51516 - Solvent Extraction (GC)										
Blank (EG51516-BLK1)				Prepared: 07/15/05 Analyzed: 07/18/05						
Gasoline Range Organics C6-C12	ND	10.0	mg/kg wet							
Diesel Range Organics >C12-C35	ND	10.0	"							
Total Hydrocarbon C6-C35	ND	10.0	"							
Surrogate: 1-Chlorooctane	*42.9*		*mg/kg*	*50.0*		*85.8*	*70-130*			
Surrogate: 1-Chlorooctadecane	*43.8*		*"*	*50.0*		*87.6*	*70-130*			
LCS (EG51516-BS1)				Prepared: 07/15/05 Analyzed: 07/18/05						
Gasoline Range Organics C6-C12	421	10.0	mg/kg wet	500		84.2	75-125			
Diesel Range Organics >C12-C35	390	10.0	"	500		78.0	75-125			
Total Hydrocarbon C6-C35	811	10.0	"	1000		81.1	75-125			
Surrogate: 1-Chlorooctane	*50.9*		*mg/kg*	*50.0*		*102*	*70-130*			
Surrogate: 1-Chlorooctadecane	*46.7*		*"*	*50.0*		*93.4*	*70-130*			
Calibration Check (EG51516-CCV1)				Prepared: 07/15/05 Analyzed: 07/19/05						
Gasoline Range Organics C6-C12	485		mg/kg	500		97.0	80-120			
Diesel Range Organics >C12-C35	534		"	500		107	80-120			
Total Hydrocarbon C6-C35	1020		"	1000		102	80-120			
Surrogate: 1-Chlorooctane	*232*		*"*	*250*		*92.8*	*70-130*			
Surrogate: 1-Chlorooctadecane	*237*		*"*	*250*		*94.8*	*70-130*			
Matrix Spike (EG51516-MS1)	**Source: 5G15010-04**			Prepared: 07/15/05 Analyzed: 07/18/05						
Gasoline Range Organics C6-C12	469	10.0	mg/kg dry	506	ND	92.7	75-125			
Diesel Range Organics >C12-C35	457	10.0	"	506	ND	90.3	75-125			
Total Hydrocarbon C6-C35	926	10.0	"	1010	ND	91.7	75-125			
Surrogate: 1-Chlorooctane	*56.1*		*mg/kg*	*50.0*		*112*	*70-130*			
Surrogate: 1-Chlorooctadecane	*52.3*		*"*	*50.0*		*105*	*70-130*			
Matrix Spike Dup (EG51516-MSD1)	**Source: 5G15010-04**			Prepared: 07/15/05 Analyzed: 07/18/05						
Gasoline Range Organics C6-C12	455	10.0	mg/kg dry	506	ND	89.9	75-125	3.03	20	
Diesel Range Organics >C12-C35	465	10.0	"	506	ND	91.9	75-125	1.74	20	
Total Hydrocarbon C6-C35	920	10.0	"	1010	ND	91.1	75-125	0.650	20	
Surrogate: 1-Chlorooctane	*55.6*		*mg/kg*	*50.0*		*111*	*70-130*			
Surrogate: 1-Chlorooctadecane	*51.5*		*"*	*50.0*		*103*	*70-130*			

Organics by GC - Quality Control

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch EG51902 - EPA 5030C (GC)										
Blank (EG51902-BLK1)			Prepared & Analyzed: 07/18/05							
Benzene	ND	0.0250	mg/kg wet							
Toluene	ND	0.0250	"							
Ethylbenzene	ND	0.0250	"							
Xylene (p/m)	ND	0.0250	"							
Xylene (o)	ND	0.0250	"							
Surrogate: a,a,a-Trifluorotoluene	*88.5*		*ug/kg*	*100*		*88.5*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*84.0*		*"*	*100*		*84.0*	*80-120*			
LCS (EG51902-BS1)			Prepared & Analyzed: 07/18/05							
Benzene	99.3		ug/kg	100		99.3	80-120			
Toluene	105		"	100		105	80-120			
Ethylbenzene	113		"	100		113	80-120			
Xylene (p/m)	222		"	200		111	80-120			
Xylene (o)	111		"	100		111	80-120			
Surrogate: a,a,a-Trifluorotoluene	*90.7*		*"*	*100*		*90.7*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*103*		*"*	*100*		*103*	*80-120*			
Calibration Check (EG51902-CCV1)			Prepared: 07/18/05 Analyzed: 07/19/05							
Benzene	81.3		ug/kg	100		81.3	80-120			
Toluene	86.8		"	100		86.8	80-120			
Ethylbenzene	96.3		"	100		96.3	80-120			
Xylene (p/m)	190		"	200		95.0	80-120			
Xylene (o)	99.8		"	100		99.8	80-120			
Surrogate: a,a,a-Trifluorotoluene	*81.3*		*"*	*100*		*81.3*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*98.2*		*"*	*100*		*98.2*	*80-120*			
Matrix Spike (EG51902-MS1)	**Source: 5G15012-01**		Prepared & Analyzed: 07/18/05							
Benzene	89.0		ug/kg	100	ND	89.0	80-120			
Toluene	95.8		"	100	ND	95.8	80-120			
Ethylbenzene	107		"	100	ND	107	80-120			
Xylene (p/m)	209		"	200	ND	104	80-120			
Xylene (o)	103		"	100	ND	103	80-120			
Surrogate: a,a,a-Trifluorotoluene	*88.7*		*"*	*100*		*88.7*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*104*		*"*	*100*		*104*	*80-120*			

Organics by GC - Quality Control

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch EG51902 - EPA 5030C (GC)										
Matrix Spike Dup (EG51902-MSD1)	**Source: 5G15012-01**			Prepared & Analyzed: 07/18/05						
Benzene	81.4		ug/kg	100	ND	81.4	80-120	8.92	20	
Toluene	88.8		"	100	ND	88.8	80-120	7.58	20	
Ethylbenzene	99.2		"	100	ND	99.2	80-120	7.57	20	
Xylene (p/m)	196		"	200	ND	98.0	80-120	5.94	20	
Xylene (o)	98.1		"	100	ND	98.1	80-120	4.87	20	
Surrogate: a,a,a-Trifluorotoluene	*83.1*		"	*100*		*83.1*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*104*		"	*100*		*104*	*80-120*			

General Chemistry Parameters by EPA / Standard Methods - Quality Control

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch EG51807 - General Preparation (Prep)										
Blank (EG51807-BLK1)				Prepared: 07/15/05 Analyzed: 07/18/05						
% Moisture	ND	0.1	%							
Duplicate (EG51807-DUP1)	**Source: 5G15002-01**			Prepared: 07/15/05 Analyzed: 07/18/05						
% Moisture	18.9	0.1	%		17.2			9.42	20	
Batch EG51904 - Water Extraction										
Blank (EG51904-BLK1)				Prepared & Analyzed: 07/19/05						
Chloride	ND	0.500	mg/kg							
Blank (EG51904-BLK2)				Prepared & Analyzed: 07/19/05						
Chloride	ND	0.500	mg/kg							
LCS (EG51904-BS1)				Prepared & Analyzed: 07/18/05						
Chloride	11.1		mg/L	10.0		111	80-120			
LCS (EG51904-BS2)				Prepared & Analyzed: 07/19/05						
Chloride	10.5		mg/L	10.0		105	80-120			
Calibration Check (EG51904-CCV1)				Prepared & Analyzed: 07/18/05						
Chloride	10.9		mg/L	10.0		109	80-120			
Calibration Check (EG51904-CCV2)				Prepared & Analyzed: 07/18/05						
Chloride	10.9		mg/L	10.0		109	80-120			
Duplicate (EG51904-DUP1)	**Source: 5G14002-01**			Prepared & Analyzed: 07/18/05						
Chloride	139	5.00	mg/kg		138			0.722	20	

Plains All American EH & S	Project: Young Deep to Lynch 10" Idle	Fax: (432) 687-4914
1301 S. County Road 1150	Project Number: EMS# 2005-00156	**Reported:**
Midland TX, 79706-4476	Project Manager: Camille Reynolds	07/20/05 08:47

General Chemistry Parameters by EPA / Standard Methods - Quality Control

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch EG51904 - Water Extraction										
Duplicate (EG51904-DUP2)	**Source: 5G15012-08**			Prepared & Analyzed: 07/18/05						
Chloride	81.3	5.00	mg/kg		97.5			18.1	20	

12600 West I-20 East - Odessa, Texas 79705 - (432) 563-1800 - Fax (432) 563-1713

Notes and Definitions

S-06	The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.
J	Detected but below the Reporting Limit; therefore, result is an estimated concentration (CLP J-Flag).
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
LCS	Laboratory Control Spike
MS	Matrix Spike
Dup	Duplicate

Report Approved By: Raland K Tuttle Date: 7/20/2005

Raland K. Tuttle, Lab Manager
Celey D. Keene, Lab Director, Org. Tech Director
Peggy Allen, QA Officer
Jeanne Mc Murrey, Inorg. Tech Director
LaTasha Cornish, Chemist
Sandra Sanchez, Lab Tech.

Environmental Lab of Texas

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

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

Project Manager: Ken Dutton
Company Name: Basin Environmental Service Technologies
Company Address: P.O. Box 301
City/State/Zip: Lovington, New Mexico 88260
Telephone No: 505-396-2378 Fax No: 505-396-1429
Sampler Signature: Roxanne Johnson

Project Name: Young Deep to Lynch 10" Idle
Project #: EMS # 2005-00156
Project Loc: Lea County / New Mexico
PO #: Camille Reynolds, Plains Marketing

LAB # (lab use only)	FIELD CODE	Date Sampled	Time Sampled	No. of Containers	Preservative: Ice	Preservative: HNO_3	Preservative: HCl	Preservative: NaOH	Preservative: H_2SO_4	Preservative: None	Preservative: Other (specify)	Matrix: Water	Matrix: Sludge	Matrix: Soil	Matrix: Other (specify)	Analyze For: TCLP: TPH: 418.1 (8015M) 1005 1006	TOTAL: TPH: 418.1 (8015M) 1005 1006	Cations (Ca, Mg, Na, K)	Anions (Cl, SO4, CO3, HCO3)	SAR / ESP / CEC	Metals: As Ag Ba Cd Cr Pb Hg Se	Volatiles	Semivolatiles	BTEX 8021B/8260 or BTEX 8260	RCI	N.O.R.M.	Chlorides -300.1			RUSH TAT (Pre-Schedule)	Standard TAT
59600	Release Point = "RP"	2005															X							X							
-01	Release Point N. Wall 3' BGS	July 11	09:00	1	X									X		X								X						X	X
-02	Release Point S. Wall 3' BGS	July 11	09:05	1	X									X		X								X						X	X
-03	Release Point Floor 7' BGS	July 11	09:10	1	X									X		X								X						X	X
-04	W. of Release Point 64.5' S. Wall 3' BGS	July 11	09:15	1	X									X		X								X						X	X
-05	W of RP 64.5' N Wall 3' BGS	July 11	09:20	1	X									X		X								X						X	X
-06	W of RP 65' Floor 8' BGS	July 11	09:25	1	X									X		X								X						X	X
-07	E of RP 57' S. Wall 3' BGS	July 11	09:30	1	X									X		X								X						X	X
-08	E of RP 57' N. Wall 3' BGS	July 11	09:35	1	X									X		X								X						X	X
-09	E of RP 57' Floor 8' BGS	July 11	09:40	1	X									X		X								X				X		X	X
-10	Stockpile Background	July 13	11:20	1	X									X		X								X						X	X

Special Instructions:
Please email results to KDutton@Basinenv.com

Sample Containers Intact? Y N
Temperature Upon Receipt:
Laboratory Comments:
Rec 4.0°C

Relinquished by:	Date	Time	Received by:	Date	Time
	7-15-05	12:[illegible]			
Relinquished by:	Date	Time	Received by ELOT:	Date	Time
			Rala dk Jo	7-15-05	1200

Environmental Lab of Texas
Variance / Corrective Action Report – Sample Log-In

Client: Basin Env. / Plains A.A.

Date/Time: 7/15/05 12:00

Order #: 5G15010

Initials: CK

Sample Receipt Checklist

Temperature of container/cooler?	Yes	No	~2.5 C
Shipping container/cooler in good condition?	Yes	No	
Custody Seals intact on shipping container/cooler?	Yes	No	Not present
Custody Seals intact on sample bottles?	Yes	No	Not present
Chain of custody present?	Yes	No	
Sample Instructions complete on Chain of Custody?	Yes	No	
Chain of Custody signed when relinquished and received?	Yes	No	
Chain of custody agrees with sample label(s)	Yes	No	
Container labels legible and intact?	Yes	No	
Sample Matrix and properties same as on chain of custody?	Yes	No	
Samples in proper container/bottle?	Yes	No	
Samples properly preserved?	Yes	No	
Sample bottles intact?	Yes	No	
Preservations documented on Chain of Custody?	Yes	No	
Containers documented on Chain of Custody?	Yes	No	
Sufficient sample amount for indicated test?	Yes	No	
All samples received within sufficient hold time?	Yes	No	
VOC samples have zero headspace?	Yes	No	Not Applicable

Other observations:

_____

_____

_____

Variance Documentation:

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

Regarding:

_____

_____

_____

Corrective Action Taken:

_____

_____

_____

_____

_____

_____

_____

APPENDIX C

BLM REPORT OF UNDESIRABLE EVENT

Faxed to Steve Caffy BLM on 7-6-05 @ 1:55

Form NM 3162-1
(August 2004)

UNITED STATES DEPARTMENT OF THE INTERIOR
Bureau of Land Management
New Mexico State Office

REPORT OF UNDESIRABLE EVENT

DATE OF OCCURRENCE/DISCOVERY: 6-30-05 TIME OF OCCURRENCE: 06:45

DATE REPORTED TO BLM: 7-1-05 TIME REPORTED: 14:50

BLM OFFICE REPORTED TO: (FIELD/DISTRICT/OTHER) Hobbs office Steve Caffey

LOCATION: (¼ ¼) A SECTION 19 T. 20S R. 34E MERIDIAN NM Prime Meridia

COUNTY: Lea STATE: NM WELL NAME _____

OPERATOR: COMPANY NAME Plains Pipeline PHONE NO. 505-441-0965
CONTACT PERSON'S NAME Camille Reynolds

SURFACE OWNER: BLM MINERAL OWNER: _____
(FEDERAL/INDIAN/FEE/STATE)

LEASE NO.: _____ RIGHT-OF-WAY NO.: NM 168992

UNIT NAME / COMMUNITIZATION AGREEMENT NO.: _____

TYPE OF EVENT, CIRCLE APPROPRIATE ITEM (S):

BLOWOUT, FIRE, FATALITY, INJURY, PROPERTY DAMAGE, (OIL SPILL) SALTWATER SPILL, OIL AND SALTWATER SPILL, TOXIC FLUID SPILL, HAZARDOUS MATERIAL SPILL, UNCONTROLLED FLOW OF WELLBORE FLUIDS, OTHER (SPECIFY):

CAUSE OF EVENT: Internal Corrosion of 10" steel pipeline

HazMat Notified: (for spills) —

Law Enforcement Notified: (for thefts) —

CAUSE AND EXTENT OF PERSONAL INJURIES/CAUSE OF DEATH(S): None

Safety Officer Notified: —

EFFECTS OF EVENT: Release of crude oil onto pasture

ACTION TAKEN TO CONTROL EVENT: Clamp placed on line

LENGTH OF TIME TO CONTROL BLOWOUT OR FIRE: —

VOLUMES DISCHARGED: OIL 35 barrels WATER 0 GAS —

OTHER AGENCIES NOTIFIED: NMOCD - Larry Johnson Hobbs Office

ACTION TAKEN OR TO BE TAKEN TO PREVENT RECURRENCE: Clamp on line

FINAL INVESTIGATION:

TEAM NAME(S) _____

FIELD INSPECTION DATE _____

SUMMARY OF RESULTS OF INSPECTION _____

RESOURCE LOSS WAS (CIRCLE ITEM): AVOIDABLE UNAVOIDABLE

DATE OF MEMO NOTIFYING MINERALS MANAGEMENT SSERVICE THAT LOSS WAS AVOIDABLE: _____

DATE/TIME/PERSON NOTIFIED:

DISTRICT OFFICE _____

STATE OFFICE _____

WASHINGTON OFFICE _____

SUMMARY OF RESULTS OF RECLAMATION/CORRECTIVE ACTION: _____

REMARKS: _____

SIGNATURE OF AUTHORIZED OFFICER _____

DATE: _____ TITLE: _____

APPENDIX D

BOONE ARCHEOLOGY SURVEY REPORT

Boone Archaeological Services LLC
2030 North Canal
Carlsbad, NM 88220
Email: BAS@warpdriveonline.com
Office: 505-885-1352

FAX NUMBER 505-887-7667

FACSIMILE TRANSMITTAL SHEET

TO:	FROM:
Ken Dutton	Danny / Ann Boone
COMPANY:	**DATE:**
Basin Environmental	7/8/05
FAX NUMBER:	**TOTAL NO. OF PAGES:**
505-396-1429	4
PHONE NUMBER:	**SENDER'S REFERENCE NUMBER:**
505-396 2378	BAS 07-05-01
RE:	**YOUR REFERENCE NUMBER:**
Arch report	

☐ URGENT ☑ FOR REVIEW ☐ PLEASE COMMENT ☐ PLEASE REPLY

Notes/Comments:

Need a EMS Number

The above report has been delivered to the Carlsbad BLM

Thank you for your business

TITLE PAGE/ABSTRACT/ NEGATIVE SITE REPORT CFO/RFO

1/03

1. BLM Report No.	2. Reviewer's Initials/Date_____ ACCEPTED ( ) REJECTED ( )	3. NMCRIS No.: 93658

4. Type of Report: Negative (X) Positive ( )

5. Title of Report:
Class III archaeological survey of an irregular shaped area where petroleum produce leaked from the Maljamar to Lynch 10" line.

Author(s): Ann Boone

6. Fieldwork Date(s):
from 5 July 2005 to

7. Report Date: 5 July 2005

8. Consultant Name & Address:
Boone Archaeological Services
2030 North Canal, Carlsbad, NM 88220
Direct Charge: Danny Boone
Field Personnel Names: Danny Boone
Phone: (505) 885-1352

9. Cultural Resource Permit No.:
BLM: 190-2920-03-E
STATE: NM-05-157

10. Consultant Report No.
BAS 07-05-01

11. Customer Name: Plains All American Pipeline Co.
Responsible Individual: Ken Dutton (Agent)
Address: 3112 W Highway 82
Lovington, NM 88260
Phone: (505)393-5611

12. Customer Project No.:
EMS No.

13. Land Status:	BLM	STATE	PRIVATE	OTHER	TOTAL
a. Area Surveyed (acres)	1.5 (+/-)	0	0	0	1.5 (-/+)
b. Area of Effect (acres)	1.0 (-/+)	0	0	0	1.0 (+/-)

14. a. Linear: Length; NA Width; NA
b. Block: Irregular shaped, See 16 b. and attached project map.

15. Location: (Maps Attached if Negative Survey)
a. State: New Mexico
b. County: Lea
c. BLM Office: Carlsbad
d. Nearest City or Town: Hobbs, NM
e. Legal Location: T 20S, R 34E, Sec. 19, NE¼ NE¼.
f. Well Pad Footages: N/A
g. USGS 7.5 Map Name(s) and Code Number(s): LEA, NM (1984) 32103-E5

16. Project Data:

a. Records Search: Date(s) of BLM File Review: 1 July 2005 2005 Name of Reviewer (s): Ann Boone

Date(s) of ARMS Data Review: 1 July 2005 Name of Reviewer (s): Ann Boone

Findings (see Field Office requirements to determine area to be reviewed during records search):

LA 108870 is within 0.25 mile

b. Description of Undertaking:

The project is an irregular shaped (See attached Map) area near the south side of the pad for the No. 3 Wallen Fed. well where a pipeline leaked petroleum produce. Cleanup operations were underway at the time of this survey. This project was not staked but Danny Boone met at the location with Basin Environmental personnel and the effected area plus an estimated 100 foot buffer was surveyed. Location, footage, survey acres and impact acres are estimations based on a hand held GPS Unit.

c. Environmental Setting (NRCS soil designation; vegetative community; etc.):

Topography: Slightly rolling dunal plain.

Vegetation: Overall ground cover is approximately 30% and consists primarily of shinoak, yucca cactus, prickly pear cactus, various grasses and other flora.

NRCS: Peyote-Maljamar-Kermit association: Gently undulating and rolling, deep, sandy soils.

d. Field Methods: (transect intervals; crew size; time in field, etc.):

Transects: A parallel grid spaced 15 meters or less apart.

Crew Size: One

Time in Field: 1.0 hours.

e. Artifacts Collected (?): None

17. Cultural Resource Findings:

a. Identification and description: None

b. Evaluation of significance of Each Resource:

18. Management Summary (Recommendations):

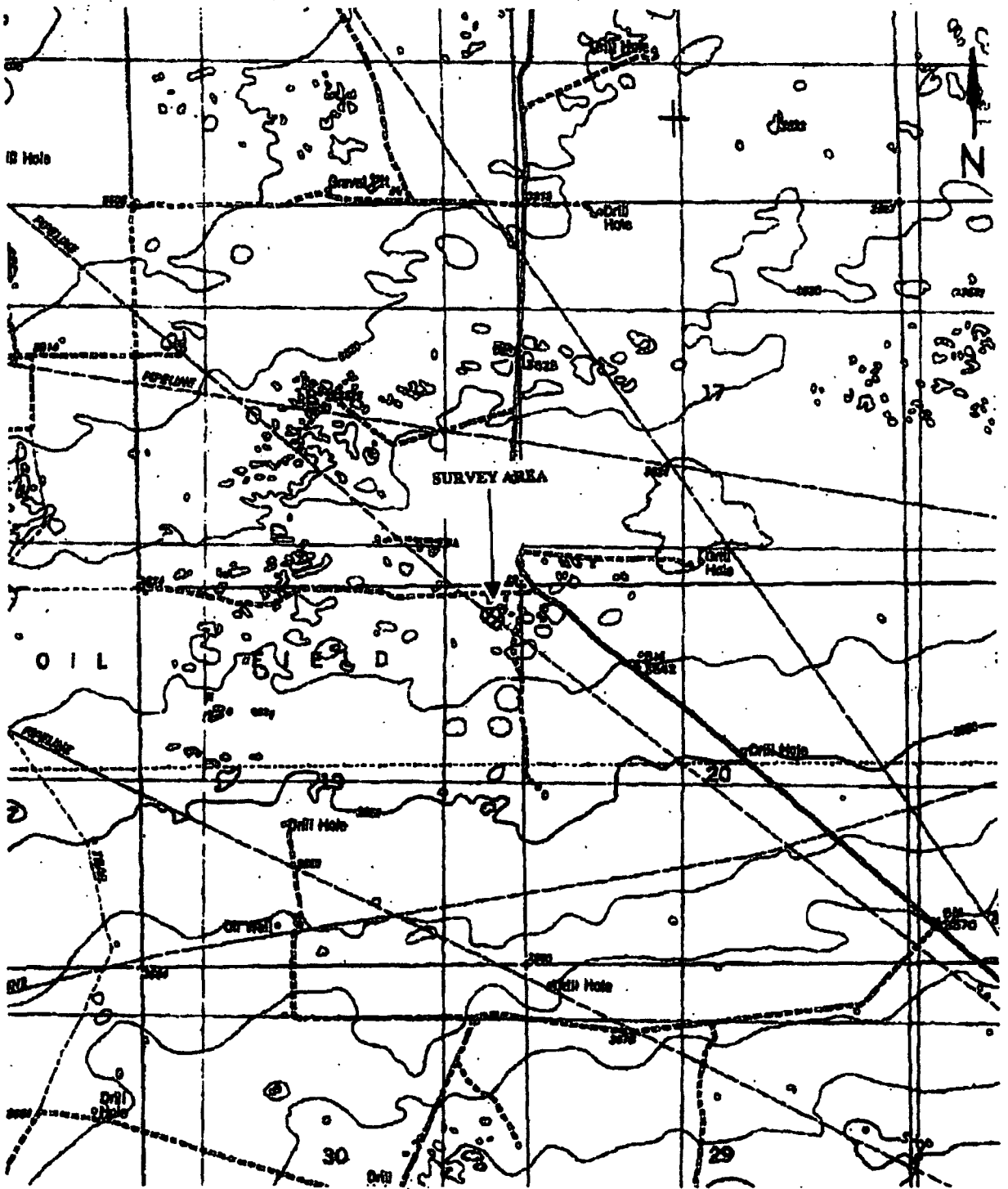
No cultural resources were encountered during the survey, therefore clearance of an irregular shaped area where petroleum produce leaked from the Maljamar to Lynch 10" line for Plains All American Pipeline is recommended. If cultural resources are encountered at any time all activity should cease and the BLM Archaeologist notified immediately.

19.

I certify that the information provided above is correct and accurate and meets all appreciable BLM standards.

Responsible Archaeologist Danny Boone 6 July 2005

Signature Date



Location Map of an irregular shaped area where petroleum produce leaked from the Maljamar to Lynch 10" line for Plains All American Pipeline in Section 19, T 20S, R 34E, NMPM, Lea County, New Mexico.
Map Reference: USGS 7.5' Series; LEA, NM (1984) 32103-E5

SCALE 1:24000

1 0 1 MILE
1000 0 1000 2000 3000 4000 5000 6000 7000 FEET
1 .5 0 1 KILOMETER

APPENDIX E

NMOCD 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 Marketing, LP	Contact Camille Reynolds
Address 5805 East Hwy. 80, Midland, TX 79706	Telephone No. 505-441-0965
Facility Name Young Deep to Lynch Idle 10"	Facility Type 10"Steel Pipeline

Surface Owner BLM	Mineral Owner	Lease No.

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
A	19	20S	34E					Lea

Latitude 32° 33'54.1" Longitude 103° 35' 31.8"

NATURE OF RELEASE

Type of Release Crude Oil	Volume of Release 35 barrels	Volume Recovered 15 barrels
Source of Release 10" Steel Pipeline	Date and Hour of Occurrence 6/30/2005 @ 06:30	Date and Hour of Discovery 6/30/2005 @ 06:45
Was Immediate Notice Given? ☒ Yes ☐ No ☐ Not Required	If YES, To Whom? Larry Johnson	
By Whom? Camille Reynolds	Date and Hour 6/30/2005@ 15:37	
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.* Internal corrosion of the 10 inch pipeline resulted in release of crude oil. A clamp was installed on the pipeline to mitigate the release. The line is idle so information concerning volume and pressure on line is unavailable.

Describe Area Affected and Cleanup Action Taken.* The impacted soil was excavated and stockpiled on plastic. Aerial extent of surface impact was 1,843 square feet.

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 Reynolds

Printed Name: Camille Reynolds

Title: Remediation Coordinator

E-mail Address: cjreynolds@paalp.com

Date: 7/6/05 Phone:505-441-0965

Attach Additional Sheets If Necessary

OIL CONSERVATION DIVISION

Approved by District Supervisor:

Approval Date: Expiration Date:

Conditions of Approval: Attached ☐