

AP - 13

**STAGE 1 & 2
REPORTS**

DATE:

August 2010

Jason Henry

From: Jason Henry
Sent: Monday, November 15, 2010 4:40 PM
To: 'Hansen, Edward J., EMNRD'
Subject: Plains TNM 97-18 Release Site (AP-0013) re-seeding information
Attachments: TNM 97-18_2010Seeding.pdf

**RE: Re-seeding documentation
Plains Marketing, L.P.
TNM 97-18 Release Site (AP-0013)
Unit Letter G, Section 28, T20S, R37E, NMPM, Lea County, New Mexico**

Ed,

Attached is the re-seeding information that you requested for the above referenced site. I will you mail you a hard copy of this document as well.

Please let me know if you have any questions or need more information.

Thank you,

Jason Henry
575-441-1099

11/16/2010

New Mexico State Land Office

Field Operations Division

(505) 827-3723 P.O. Box 1148 Santa Fe, NM 87504
 (575) 392-8733 2702-D N. Cimarron Hobbs, NM 88240
 (375) 383-1323 N. Canal, Suite B Carlisle, NM 88120
 (375) 623-4979 1601 S. Adkisson Roswell, NM 88210
 (575) 763-0796 103 E. 6th St. Clovis, NM 88101



REVEGETATION FORM

1. General Information

Site name: **TNM 97-18**

Utl. or Dist. or Section: _____ Township: _____ Range: _____ County: _____ Latitude: _____ Longitude: _____

Company Name: **Plains Marketing, LP** Contact Name: **Jean Henry**

Phone No.: **(505) 471-1099** Email: **jhenry@pmlp.com**

Address: **2530 State Hwy. 214, Denver City, TR 79323**

Soil: Spill P&E Work Pre-Closure Facility Closure Other

OSD Spill No.: _____

Site size: _____ square feet. Map detail of site attached

Address of site location: _____

2. Soils

Do not use credits; subsides; cattle racks brought to the surface by spilling shall be removed.

Salvaged from site Blended Imported Blended Depth (in): _____

Texture: _____ Describe soil & subsoil: **sand**

Soil prep methods: Rip Depth (in): _____ Disc Depth (in): _____ Rollerpack

Date completed: **7/7** Photos attached Number of photos: _____

3. Seeding

Soil must be tested to this limit; seed bag tag should be made the day you start the SFR.

Custom seed mix Prescribed mix Seed mix name: _____ Seeding date: **10/25/10**

Is seed mix divided into sublots based on seed size? Yes No **BLAND**

Drill Seeder Broadcast Hydroseeding

Drill Type: **Truma Trillion** Method: _____

Soil conditions during seeding: Dry Damp Wet

Photos attached Observation: _____

Number of photos: _____

4. Additional Methods

Mulching Crimping Fertilizer Other

Mulch type: _____ Type: _____ Describe: _____

Fertilizer: _____

Photos attached Observation: _____

Number of photos: **6**

5. Certification

I hereby certify that the information in this form and attachments is true and correct to the best of my knowledge and belief.

Name: _____ Title: _____ Date: _____

Signature: _____

* Mail form and attachments to the Santa Fe office address listed above, attention: FOD - Environment. Email completed scanned form and attachments to: stabalala@state.nm.us

New Mexico State Land Office Review

	Observations	Depth (in):	Approve	Date field checked	Initials
Soil Condition:			Yes <input type="checkbox"/> No <input type="checkbox"/>		
Seeding:			Yes <input type="checkbox"/> No <input type="checkbox"/>		
Other:			Yes <input type="checkbox"/> No <input type="checkbox"/>		
Additional Observations:					

Curtis & Curtis Seed
4500 N. Prince
Clovis, NM 88101
Phone: 575-762-4759

Basin Environmental
6.5 Acres BLM #2 Drill Rate
6 - 1 Acre Bags @ 17.90 Bulk Pounds Each
1-12 Acre bag @ 8.92 Bulk Pound
Job: TNM 981

Lot# M-9922

Item	Origin	Purity	Germ	Dormant	Germ & Dormant	Test Date	Total PLS Pounds
Sand Dropseed	Texas	12.42%	07.00%	83.00%	90.00%	07/10	13.00
Not Stated							
Sand Bluestem	Montana	17.83%	90.00%	04.00%	94.00%	03/10	19.50
Woodward							
Little Bluestem	Texas	34.93%	57.00%	23.00%	80.00%	07/10	32.50
Pasture							
Coreopsis	Oregon	14.51%	77.00%	00.00%	77.00%	09/10	13.00
Plains							

Other Crop: 00.59% There Are 6 Bags For This Mix
Weed Seed: 00.18% This Bag Weighs 17.90 Bulk Pounds
Inert Matter: 19.54% Use this bag for 1 acres.

Total Bulk Pounds: 116.32

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Clovis, NM 88101
Phone: 575-762-4759

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Woodward							
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Pasture							
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Plains							

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1-12 Acre bag @ 8.92 Bulk Pound
Job: TNM 981

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Woodward							
Little Bluestem	Texas	34.93%	57.00%	23.00%	80.00%	07/10	32.50
Pasture							
Coreopsis	Oregon	14.51%	77.00%	00.00%	77.00%	09/10	13.00
Plains							

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Phone: 575-762-4759

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Lot# M-9922

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Woodward							
Little Bluestem	Texas	34.93%	57.00%	23.00%	80.00%	07/10	32.50
Pasture							
Coreopsis	Oregon	14.51%	77.00%	00.00%	77.00%	09/10	13.00
Plains							

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Inert Matter: 19.54% Use this bag for 1 acres.

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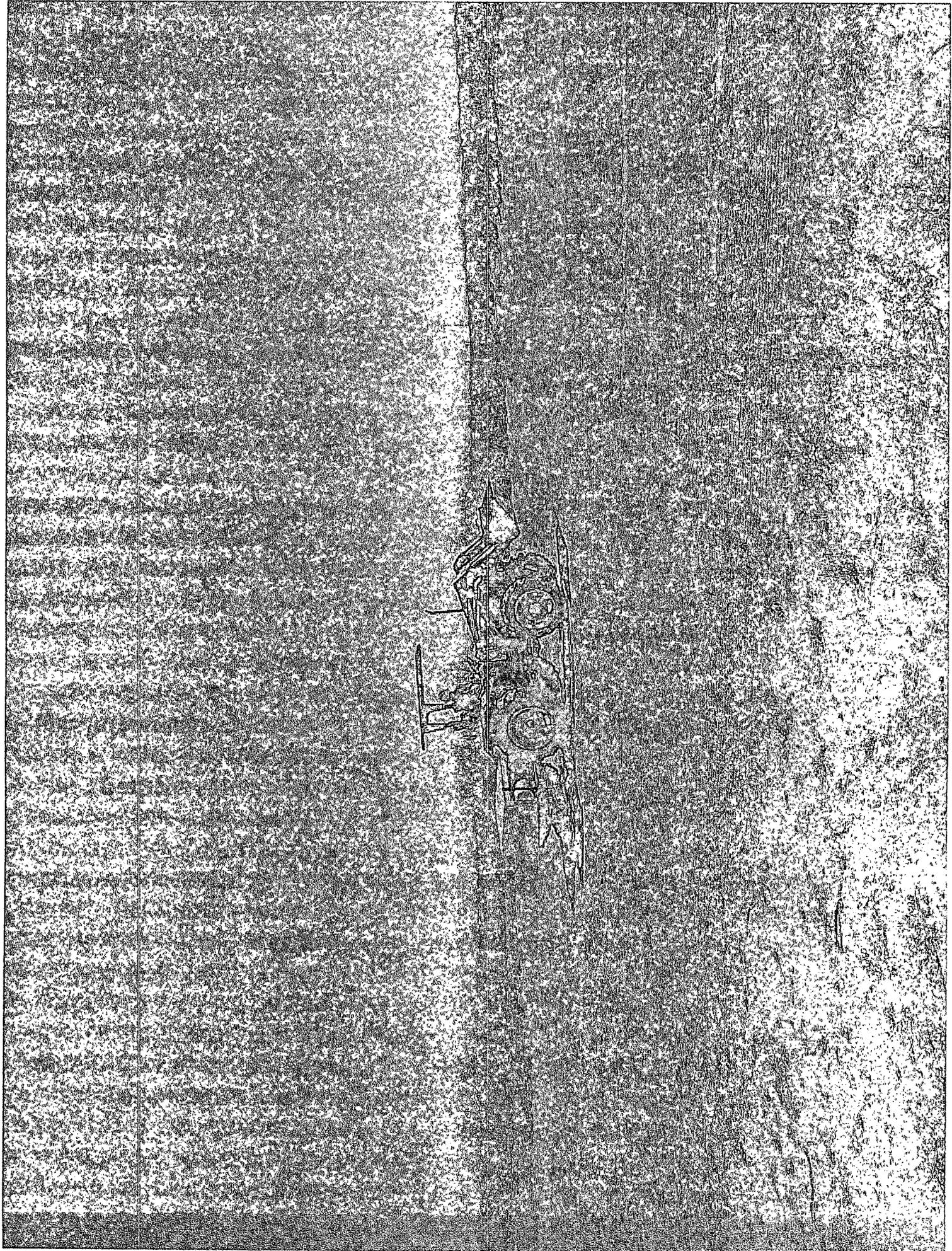
Curtis & Curtis Seed
 4500 N. Prince
 Clovis, NM 88101
 Phone: 505-762-4739

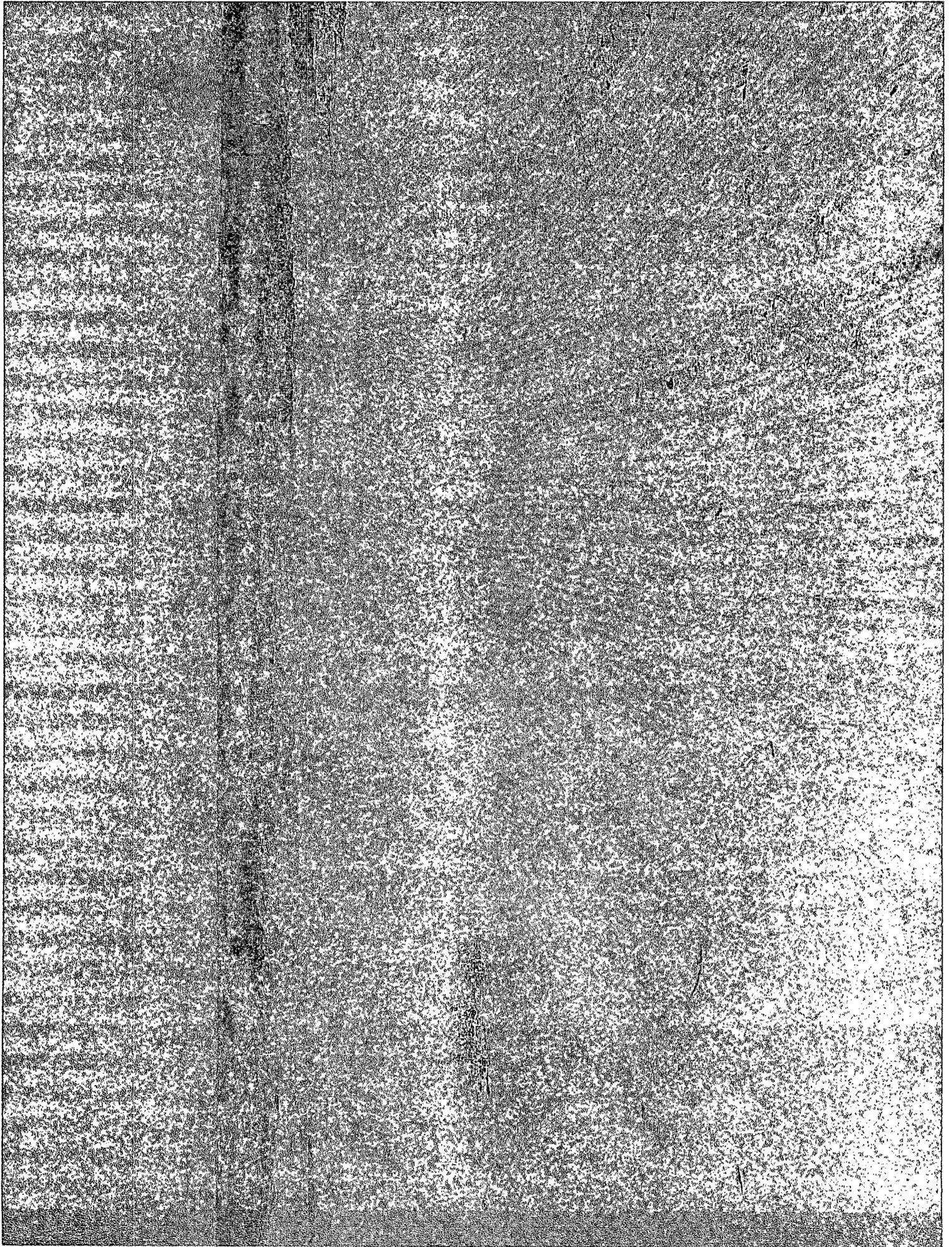
Basin Environment
 6.5 Acre BLM #2 Dylli Rata
 6 - 1 Acre Bags @ 17.90 Bulk Pounds Each
 1 - 1.3 Acre bag @ 8.51 Bulk Pound
 Job: TNM 9817

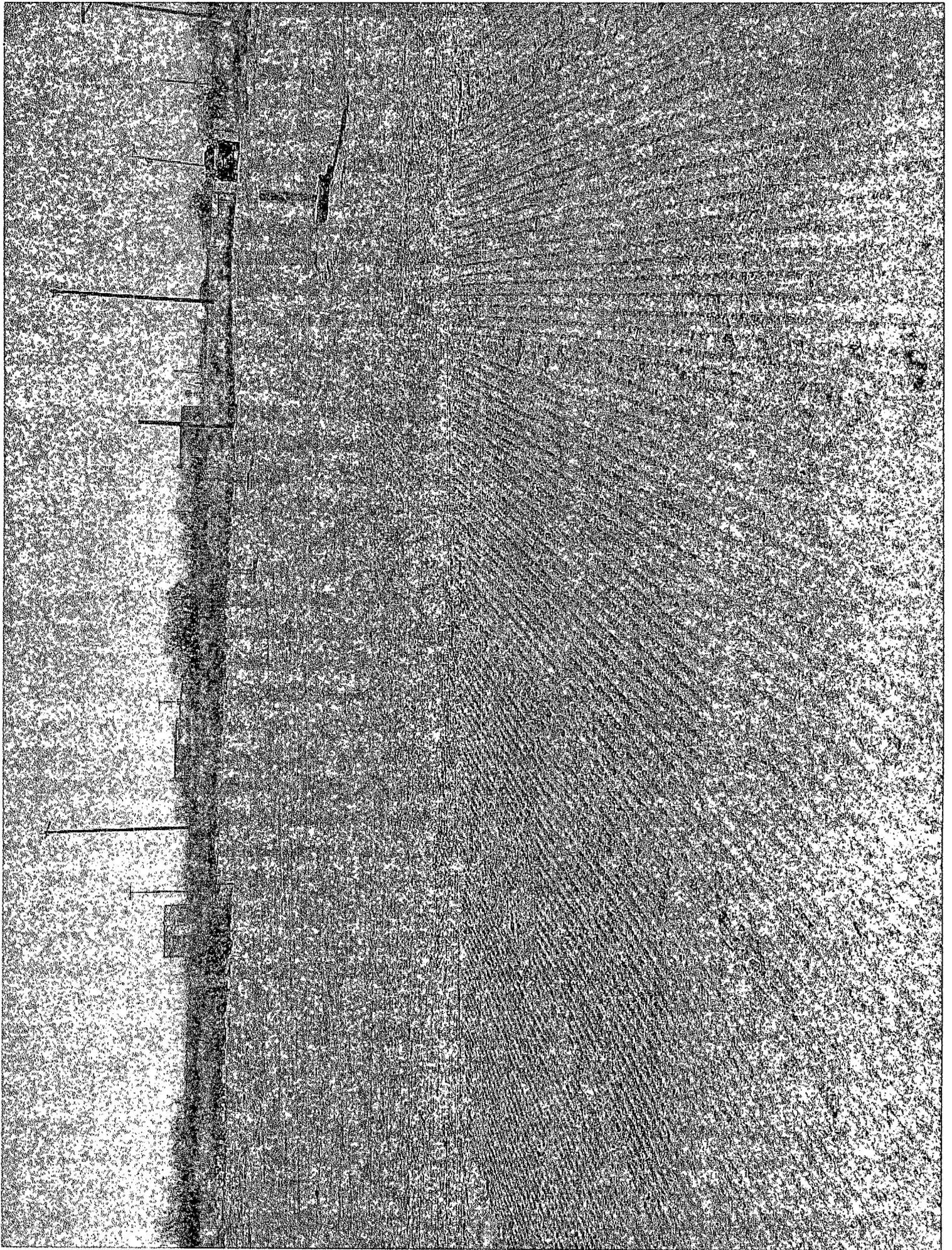
Lot: M-9922

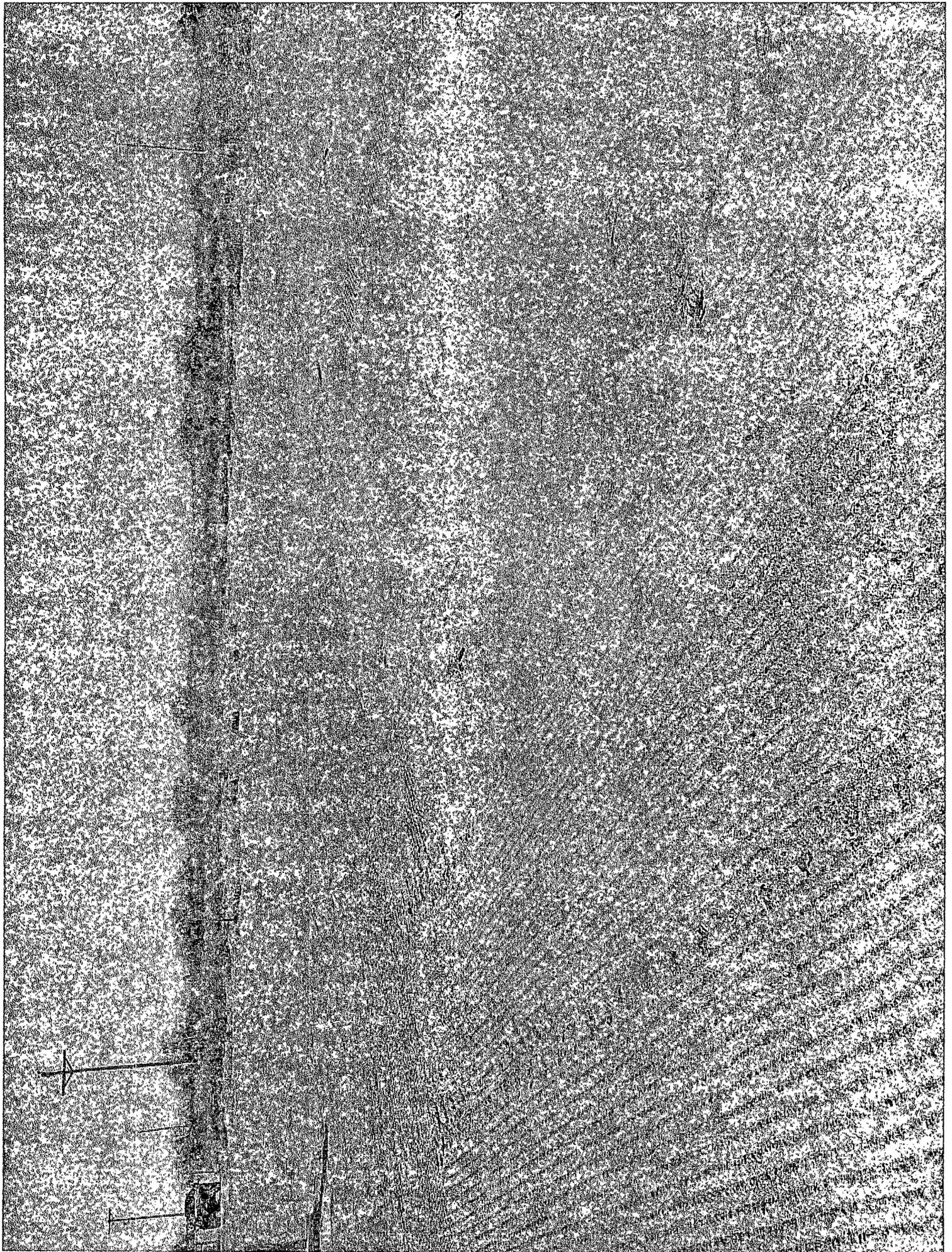
Item	Origin	Purity	Germ	Dormant	Germ & Dormant	Test Date	Total PLS Pounds
Sand Dropseed Not Stated	Texas	12.42%	07.00%	83.00%	90.00%	07/10	13.00
Sand Bluestem Woodward	Montana	17.83%	90.00%	04.00%	94.00%	03/10	19.50
Little Bluestem Pasture	Texas	34.93%	57.00%	23.00%	80.00%	07/10	32.50
Coreopsis Plains	Oregon	17.51%	77.00%	00.00%	77.00%	09/10	13.00

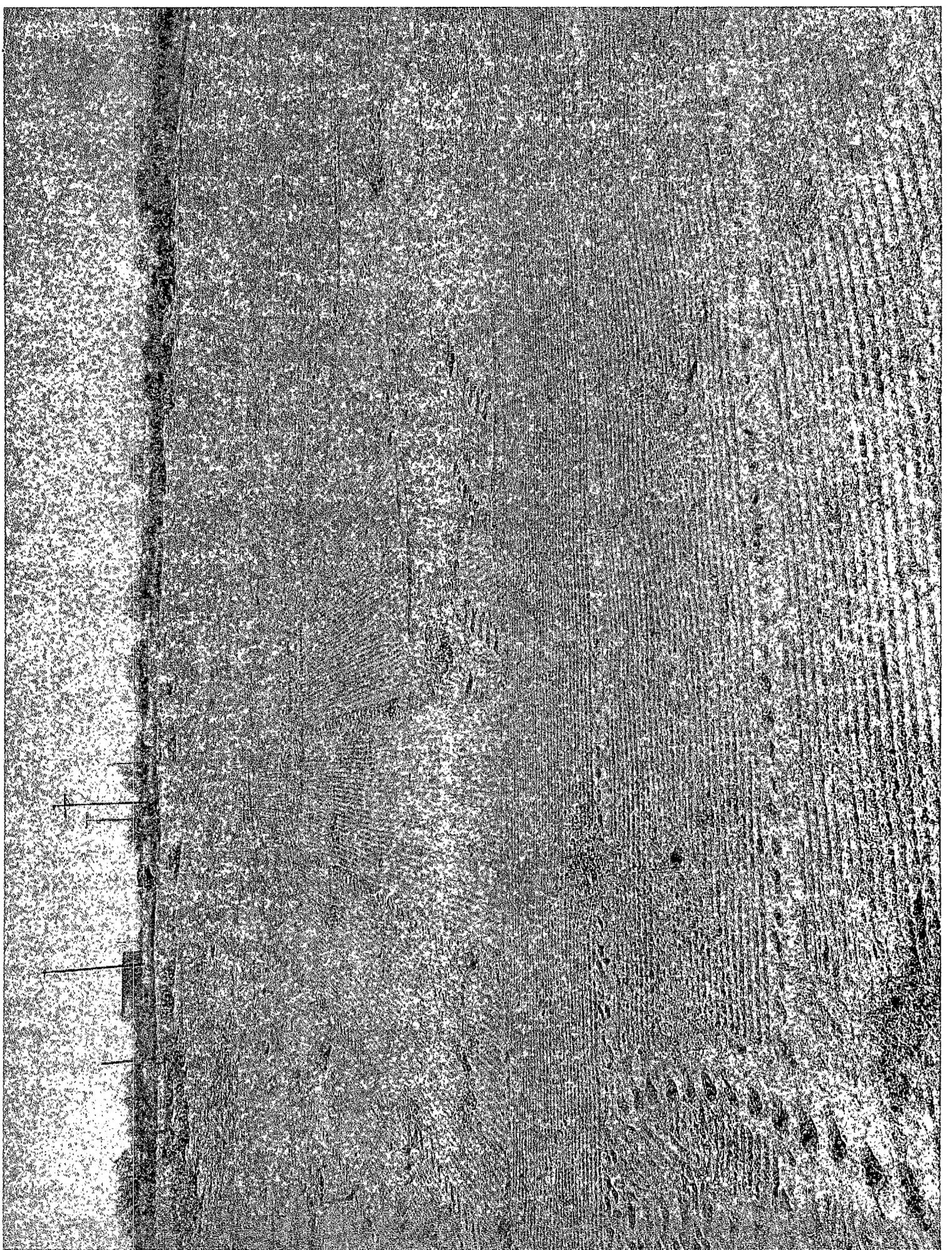
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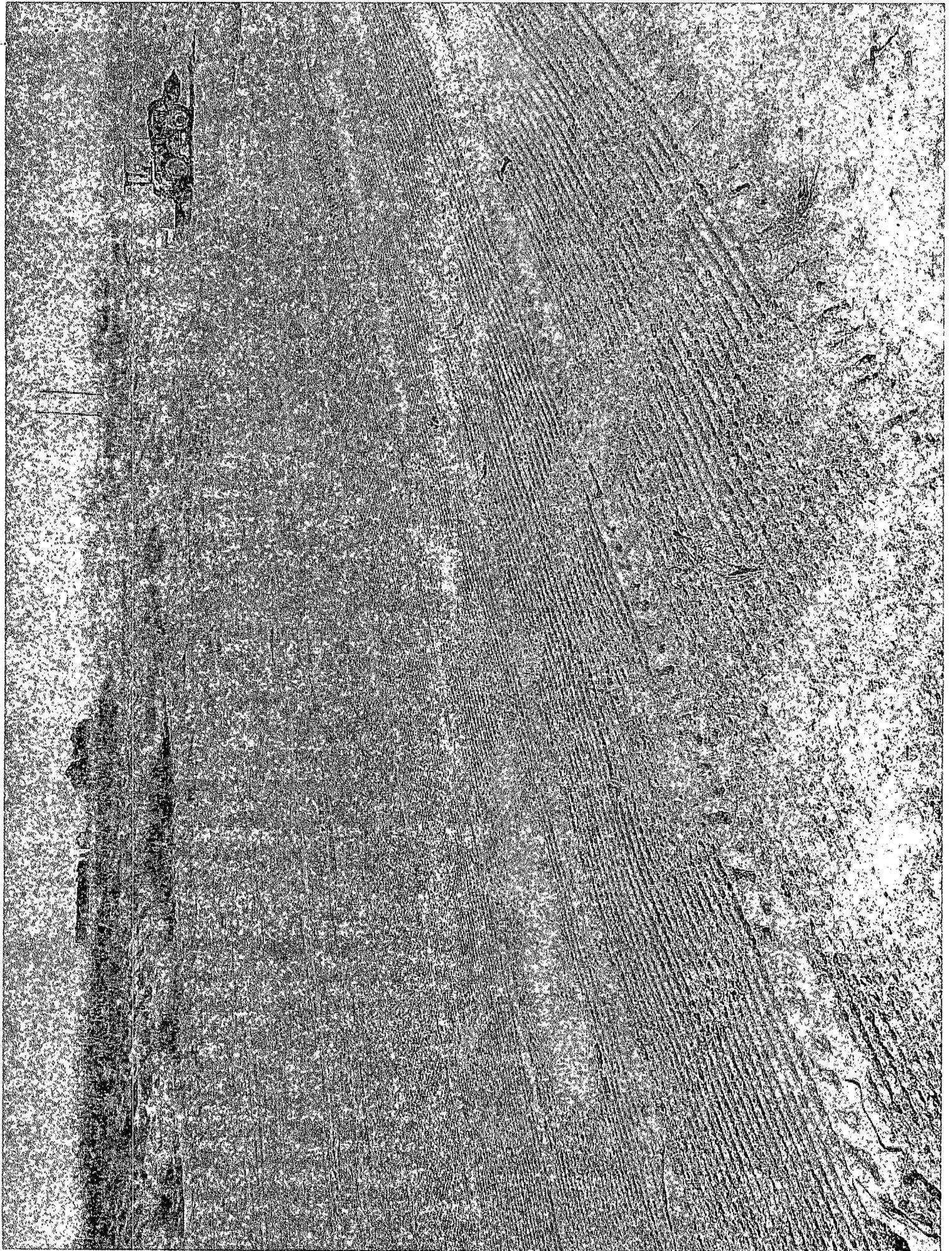














RECEIVED OCD

SOIL CLOSURE REQUEST

2010 SEP 14 A 10:41

TNM 97-18

SW ¼, NE ¼, SECTION 28, TOWNSHIP 20 SOUTH, RANGE 37 EAST
LEA COUNTY, NEW MEXICO
PLAINS SRS NUMBER: TNM 97-18-KNOWN
NMOCD REF AP-0013

Prepared for:

PLAINS PIPELINE, L.P.
333 Clay Street, Suite 1600
Houston, Texas 77002



Prepared by:

NOVA Safety and Environmental
2057 Commerce
Midland, Texas 79703

August 2010

Ronald K. Rounsaville
Senior Project Manager

Brittan K. Byerly, P.G.
President

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FIGURES

- FIGURE 1: Site Location Map
FIGURE 2: Excavation Areas Map
FIGURE 3: Confirmation Sample Locations Map – North Excavation Area
FIGURE 4: Confirmation Sample Locations Map – South Excavation Area

TABLES

- TABLE 1: Concentrations of BTEX and TPH in Soil

APPENDICES

- APPENDIX A: Notification of Release and Corrective Action (Form C-141)
APPENDIX B: Photographic Documentation
APPENDIX C: Laboratory Reports (On the attached CD)

1.0 INTRODUCTION

On behalf of Plains Pipeline, L.P. (Plains), NOVA Safety and Environmental (NOVA) is pleased to submit this Soil Closure Request to the New Mexico Oil Conservation Division (NMOCD) for the site known as TNM 97-18 (SRS # TNM 97-18-Known). The site is located approximately 5.25 miles south of the town of Monument, New Mexico, in the SW ¼ of the NE ¼ of Section 28, Township 20 South, and Range 37 East. The TNM 97-18 release occurred on September 10, 1997 from a sixteen (16) inch diameter pipeline operated by Texas New Mexico Pipe Line Company (TNM) and was reported as an 83 barrel loss with none recovered. The release was attributed to internal pipeline corrosion. The site is now the responsibility of Plains, which acquired the assets of Link Energy in April of 2004. For reference, a site location and site map are provided as Figures 1 and 2, respectively. The Release Notification and Corrective Action (Form C-141) is included as Appendix D.

2.0 NMOCD SITE CLASSIFICATION

The depth to groundwater in the on-site area is less than 50 feet bgs. Based on the NMOCD soil classification system, 20 points would be assigned to the site as a result of this criterion.

The distance to the nearest water source exceeds 1,000 feet, resulting in zero points being assigned to the site on this ranking criterion. There is no surface water body located within 1,000 feet of the site, resulting in zero points being assigned on this ranking criterion. The NMOCD guidelines indicate that the site would have a Ranking Score of >19. The soil action levels for a site with a Ranking Score of >19 points are as follows:

- Benzene - 10 ppm
- BTEX - 50 ppm
- TPH - 100 ppm

The approved Soil Remediation Work Plan proposed that if hydrocarbon impact exceeding NMOCD cleanup standards existed in the soil below 12 feet in depth, then a synthetic liner would be installed in the excavation over the area exceeding the cleanup standards. Impacted excavated soil from the surface to 12 feet bgs would be treated on-site by blending and aeration techniques to achieve target concentrations (or below) as stated in the Work Plan. Pursuant to the Work Plan, treated soil above the liner will be blended to less than 1000 mg/kg TPH, less than 10 mg/Kg benzene and less than 50 mg/Kg total BTEX.

3.0 SUMMARY OF RECENT FIELD ACTIVITIES

3.1 Impacted Soil Removal

Pursuant to the Work Plan, approved by the NMOCD on February 19, 2008, excavation of the impacted soils in the area of the release began on March 18, 2010. An excavator was utilized to remove impacted soil from the floor and sidewalls of two original excavation areas. The excavated soil was stockpiled on-site, pending treatment and laboratory analysis. As excavation activities progressed, soil samples were collected from the floor and sidewalls of the northern

and southern excavation areas. Based on visual and olfactory observations, the final dimensions of the northern excavation area were approximately 125 feet in length (north to south) by 95 feet in width (east to west) and averaged approximately 12 feet below ground surface (bgs). The southern excavation measured approximately 65 feet in length (east-west) by 75 feet in width (north-south) and averaged approximately 12 feet bgs. Monitoring wells within the excavation area were left intact. An estimated 14,500 cubic yards of soil was brought to surface for onsite remediation by mixing, blending and aeration methods. Excavation activities were completed on April 27, 2010. Figure 2 is an Excavation Areas Map depicting the pipelines, the two excavation areas and other site details.

3.2 Excavated Soil Remediation

Excavated soil was staged in a large cleared area located northeast of the excavations. Non-impacted near-surface soil collected from within the cleared area was pushed up and used to blend with the impacted soil. Mixing and blending activities continued concurrently with excavation activities. Approximately 14,500 cubic yards of soil were brought to the surface for remediation. Following blending activities, thirty confirmation soil samples were collected for every 500 cubic yards of material and submitted for laboratory analysis for BTEX, EPA method 8021 and Total Petroleum Hydrocarbons, EPA method 8015.

3.3 Confirmation Soil Sampling – Excavation Areas

Confirmation soil samples collected from the excavation areas were submitted for laboratory analysis for TPH by Method 8015M and BTEX by Method 8021B. Laboratory submitted samples were placed in a new sterile glass container, equipped with a Teflon-lined lid furnished by the laboratory. Samples were labeled, placed on ice, and chilled to a temperature of approximately 4° C. Appropriate chain-of-custody documentation and shipping protocols were followed. The laboratory analytical reports are presented on the attached CD provided in Appendix C. Table 1 displays the analytical results of confirmation soil samples.

Southern Excavation Area

On March 25, 26 and 29, 2010, confirmation soil samples were collected from the floor and sidewalls of the Southern excavation area. The analytical results of these soil samples indicated TPH and BTEX concentrations were below the NMOCD regulatory standards of 100 mg/Kg and 50 mg/Kg, respectively, with the exception of three soil samples collected from the excavation sidewalls identified as S. Exc. E. Wall-1, 10 ft., S. Exc. NE Wall, 10 ft and S. Exc. S. Cent. Wall, 10 ft., and three floor samples identified as S. Exc. BH-2, SE Cor. Floor, 12 ft., S. Exc. BH-3, S. Cent. Floor, 12 ft. and S. Exc. BH-6, N. Cor. Floor, 12 ft. The analytical results for samples collected from the southern excavation walls exhibited total petroleum hydrocarbon (TPH) concentrations ranging from 114 mg/Kg to 280 mg/Kg. The analytical results for the soil sample collected from the southern excavation floor exhibited total petroleum hydrocarbon (TPH) concentrations ranging from 98.9 mg/Kg to 318 mg/Kg.

On March 31 and April 1, 2010, upon receipt of initial analytical results, the area surrounding the impacted wall and floors of the southern excavation were excavated further to the north, south

and east approximately 2-3 feet. Confirmation soil samples were collected from the walls and floor areas and submitted for laboratory analysis. The analytical results of these soil samples indicated TPH and BTEX concentrations were below the NMOCD regulatory standards of 100 mg/Kg and 50 mg/Kg, respectively, with the exception of the soil sample collected from the excavation floor identified as S. Exc., BH-2B, SE. Cor. Floor, 12 ft., which exhibited a total TPH concentration of 136 mg/Kg.

On April 14, 2010, upon receipt of secondary analytical results, the area surrounding soil sample S. Exc., BH-2B, SE. Cor. Floor, 12 ft. was further excavated approximately 5 feet to the southeast. One additional confirmation soil sample identified as S. Exc., BH-2C, SE. Cor. Floor, 12 ft., was collected from the southeast corner of the south excavation area. The analytical results of this soil sample indicated a total TPH concentration of 130 mg/Kg. On April 21, 2010, upon receipt of the analytical results, the area surrounding soil sample S. Exc., BH-2C, SE. Cor. Floor, 12 ft. was further excavated approximately 2 feet to the southeast. One additional confirmation soil sample identified as S. Exc., BH-2D, SE. Cor. Floor, 12 ft., was collected from the southeast corner of the south excavation area and submitted for laboratory analysis. The analytical results for soil sample S. Exc. BH-2D, SE. Cor. Floor, 12 ft. indicated total TPH concentrations were below the NMOCD regulatory standards. A Confirmation Sample Locations Map for the South Excavation Area is provided as Figure 4.

Northern Excavation Area

On April 14, 2010, confirmation soil samples were collected from the floor and sidewalls of the northern excavation area. The analytical results of these soil samples indicated TPH and BTEX concentrations were below the NMOCD regulatory standards of 100 mg/Kg and 50 mg/Kg, respectively, with the exception of three soil samples collected from the excavation floor and sidewalls identified as N. Exc. W. Cent. Wall, 10 ft., N. Exc. SE Cent Wall, 10 ft and N. Exc. W. Cent Floor, 12 ft. The analytical results for samples collected from the northern excavation walls exhibited total petroleum hydrocarbon (TPH) concentrations ranging from 398.7 mg/Kg to 696 mg/Kg. The analytical results for the soil sample collected from the northern excavation floor exhibited a TPH concentration of 472.6 mg/Kg.

On April 21, 2010, upon receipt of the initial analytical results, the area surrounding the impacted wall and floors of the northern excavation area were further excavated approximately 3 feet to the west and southeast. Confirmation soil samples were collected from the walls and floor areas and submitted for laboratory analysis. The analytical results of these soil samples indicated TPH and BTEX concentrations were below the NMOCD regulatory standards of 100 mg/Kg and 50 mg/Kg, respectively. Five additional wall and floor confirmation samples were collected from the northern excavation area and submitted for laboratory analysis. The analytical results of these soil samples indicated TPH and BTEX concentrations were below the NMOCD regulatory standards, with the exception of the soil sample collected from the excavation sidewall identified as N. Exc., SE. Cor. Wall, 10 ft., which exhibited a TPH concentration of 1,380 mg/Kg. On April 27, 2010, upon receipt of the analytical results, the area surrounding the sample identified as N. Exc. SE Cor. Wall, 10 ft., was excavated further to the west approximately 5 ft. Confirmation soil sample N. Exc. SE. Cor. Wall-B, 12 ft. was collected from the excavation sidewall and submitted for laboratory analysis. The analytical results for soil

sample N. Exc. SE. Cor. Wall-B, 12 ft. indicated the TPH concentration was below the NMOCD regulatory standards. A Confirmation Sample Locations Map for the North Excavation Area is provided as Figure 3.

3.4 Confirmation Soil Sampling – Blended Soil Piles

From April 21 through May 7, 2010, the estimated 14,500 cubic yards of impacted soil from the two excavation areas were staged in a cleared area to the northeast of the excavation areas. Non-impacted soil collected from a borrow area west of the stockpiled soil was used to mix with the impacted soil.

On April 14, 2010, 11 composite soil samples (SS-1 through SS-11) were collected from the blended soil stockpiles from the southern excavation area and submitted to the laboratory for analysis. The analytical results indicated the TPH concentration of the stockpile soil ranged from <50 mg/Kg to 162.32 mg/Kg. Benzene concentrations were less than 0.010 mg/Kg and total BTEX concentrations were below 50 mg/Kg. On April 27, 2010, 10 composite soil samples (NS-1 through NS-10) were collected from a portion of the blended soil stockpiles from the northern excavation area (identified as North Stockpile A) and submitted to the laboratory for analysis. The analytical results on the ten North Stockpile A soil samples ranged from 477.3 mg/Kg to 2,399 mg/Kg. Benzene concentrations were less than 0.010 mg/Kg and total BTEX concentrations were below 50 mg/Kg. On May 4, 2010, following additional soil blending and aeration activities, two blended soil stockpile samples were collected from North Stockpile A (NS-9 and NS-10) and submitted for laboratory analysis. The analytical results indicated the TPH concentrations of the Samples NS-9B and NS-10B were below the approved 1,000 mg/Kg limit.

On April 30, 2010, 9 composite soil samples (SS2-1 through SS2-9) were collected from a portion of the blended soil stockpiles from the northern excavation area (identified as North Stockpile 2) and submitted to the laboratory for analysis. The analytical results on the 9 North Stockpile 2 soil samples ranged from 598.6 mg/Kg to 1,185.40 mg/Kg. Benzene concentrations were less than 0.010 mg/Kg and total BTEX concentrations were below 50 mg/Kg. On May 7, 2010, following additional soil blending and aeration activities, two blended soil stockpile samples were collected from North Stockpile 2 (SS2-6B and SS2-7B) and submitted for laboratory analysis. The analytical results indicated the TPH concentrations of the Samples SS2-6B and SS2-7B were below the approved 1,000 mg/Kg limit.

3.5 Synthetic Liner Placement

Upon receipt of laboratory analytical results indicating the identified areas of hydrocarbon impact were below the approved criteria set forth in the Work Plan for treated soils, preparation for the installation of the synthetic liner installation began as proposed in the workplan to the NMOCD dated February 2008. The floor of the excavation required some leveling to provide an effective and efficient pathway for the channeling of moisture. Following the leveling activities, a six-inch layer of non-impacted sand, acquired locally, was placed in the excavation. The sand protects the synthetic liner from rips and tears and aids in the proper installation of the liner.

On May 6, 2010, the synthetic liner was installed at a depth of approximately 12 feet below ground surface in the northern and southern excavation areas by a vendor trained in the proper installation of impermeable liners. Following the synthetic liner installation an additional six-inch layer of non-impacted sand was placed on top of the liner to further protect the liner. Photographic documentation of the liner installation is provided as Appendix B.

3.6 Backfilling and Surface Restoration

Based on analytical results of laboratory analyzed confirmation soil samples obtained from the excavation areas and remediated soil piles, on May 13, 2010, upon completion of liner installation activities, backfilling of the excavation commenced. The blended soil stockpile was placed in the excavation in twelve-inch lifts and compacted. A water truck was used to supply moisture to the soil to allow for proper compaction.

On May 18, 2010, backfilling activities were completed and the disturbed area was contoured to fit the surrounding topography.

4.0 SOIL CLOSURE REQUEST

Plains has completed the activities proposed in the NMOCD approved Soil Remediation Work Plan dated August 2006 and requests NMOCD approval for Soil Closure.

A complete (including groundwater) Site Closure Request will be submitted to the NMOCD after eight consecutive quarterly groundwater sampling events have demonstrated BTEX concentrations are below the NMOCD regulatory guidelines.

5.0 LIMITATIONS

NOVA has prepared this Soil Closure Request to the best of its ability. No other warranty, expressed or implied, is made or intended. NOVA has examined and relied upon documents referenced in the report and has relied on oral statements made by certain individuals. NOVA has not conducted an independent examination of the facts contained in referenced materials and statements. We have presumed the genuineness of the documents and that the information provided in documents or statements is true and accurate. NOVA has prepared this report in a professional manner, using the degree of skill and care exercised by similar environmental consultants. NOVA also notes that the facts and conditions referenced in this report may change over time and the conclusions and recommendations set forth herein are applicable only to the facts and conditions as described at the time of this report.

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

6.0 DISTRIBUTION

- Copy 1: Ed Hansen
New Mexico Oil Conservation Division
Environmental Bureau
1220 South St. Francis Drive
Santa Fe, New Mexico 87505
- Copy 2: Larry Johnson
New Mexico Energy, Minerals and Natural Resources Department
Oil Conservation Division District 1
1625 French Drive
Hobbs, NM 88240
- Copy 3: Jason Henry
Plains Marketing, L.P.
2530 State Highway 214
Denver City, TX 79323
jhenry@paalp.com
- Copy 4: Jeff Dann
Plains Marketing, L.P.
333 Clay Street, Suite 1600
Houston, Texas 77002
jpdann@paalp.com
- Copy 5: NOVA Safety and Environmental.
2057 Commerce Drive
Midland, Texas 79703
rrounsaville@novatraining.cc

FIGURES

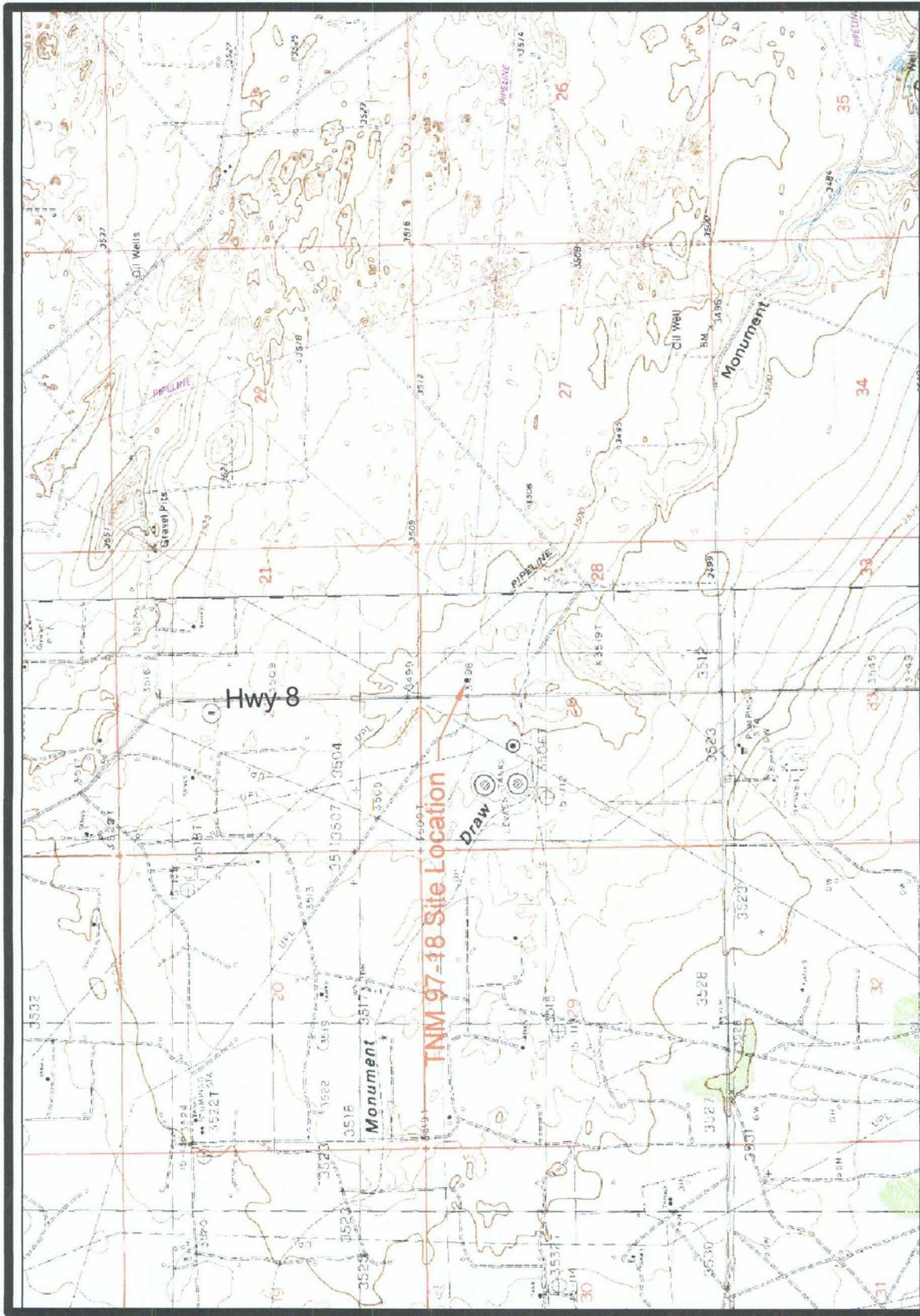
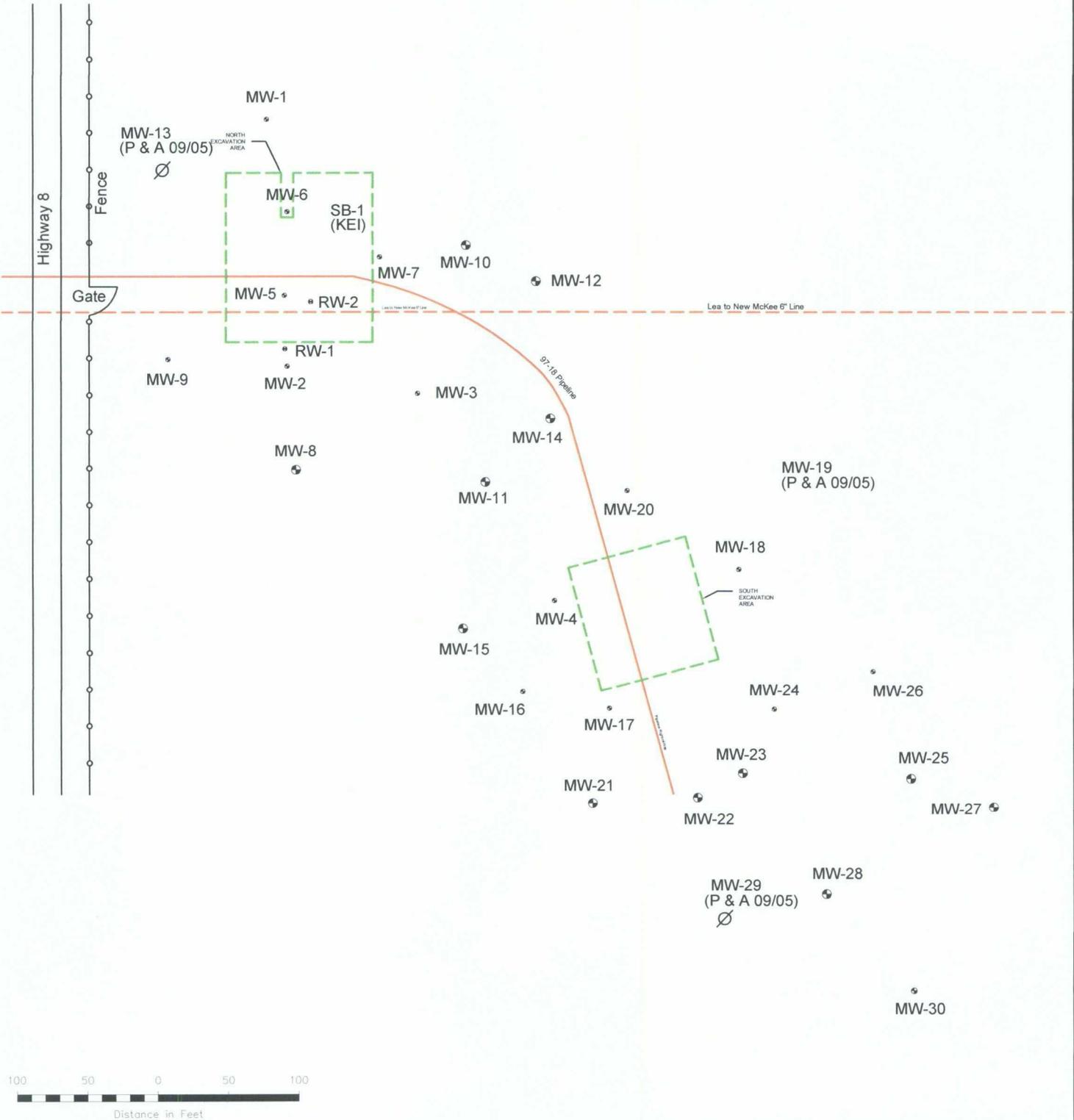


Figure 1
 Site Location Map
 Plains Marketing, L.P.
 TNN 97-18
 Plains EMS# TNN 97-18
 Lea County, NM
 NMOCD Reference # AP-13

NOVA Safety and Environmental



Lat. N02° 32' 57" Long. W103° 15' 22"
 Scale: 1" = 2 Miles
 Prep By: CCS
 Checked By: CCS
 November 21, 2005



- LEGEND:**
- Monitor Well
 - Recovery Well
 - Soil Boring
 - Well Plugged and Abandoned
 - Excavation Area
 - Geoprobe Location

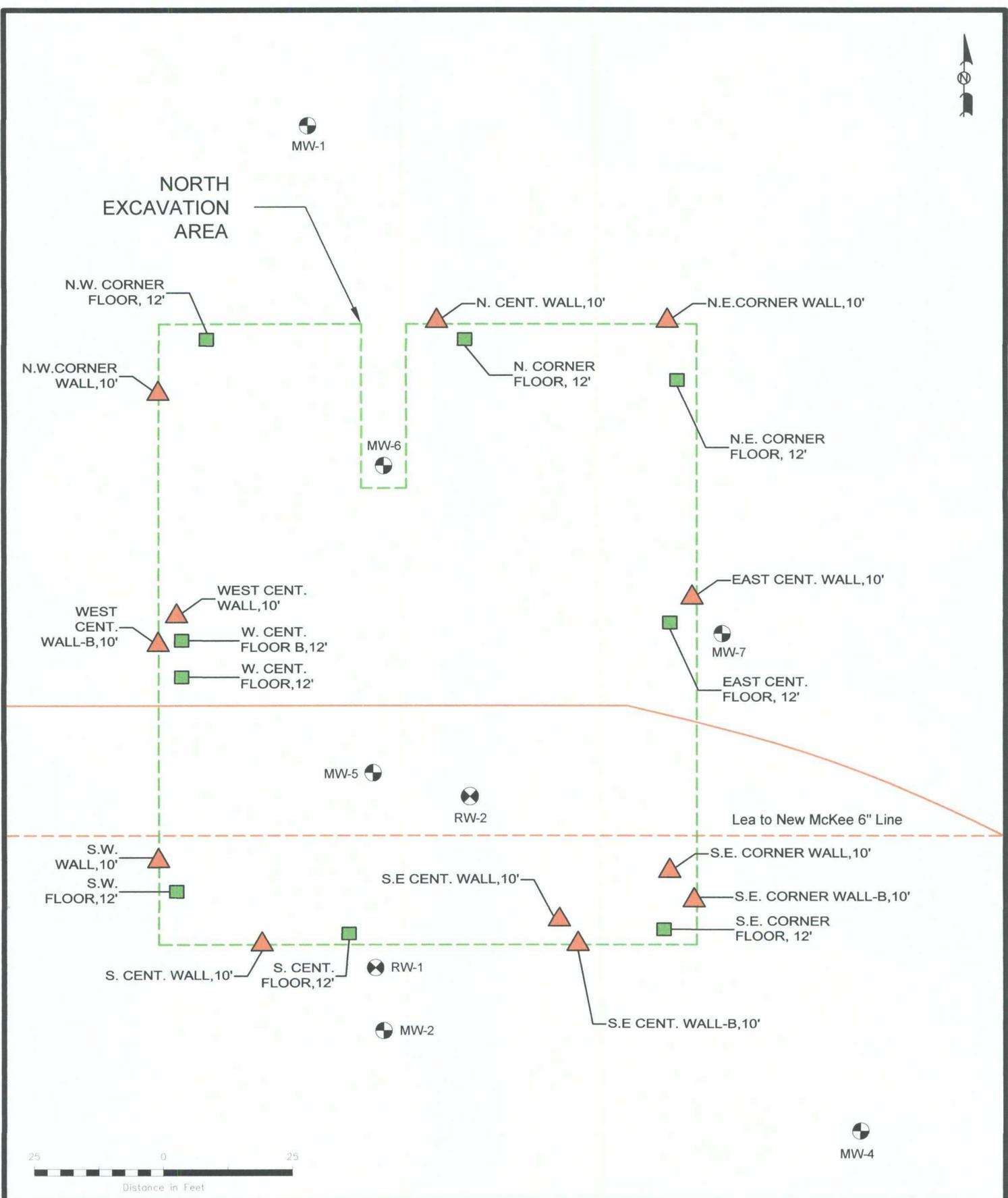
Figure 2
Excavation Areas Map
Plains Marketing, L.P.
TNM 97-18
Lea County, NM

NOVA
safety and environmental
www.novasafetyandenvironmental.com

2057 Commerce Drive
Midland, Texas 79703
432.520.7720

Scale: 1" = 100'	CAD By: SAT	Checked By: RKR
June 1, 2010	SW1/4, NE 1/4, Section 28, T20S, R37E	

NMOCD Ref # AP-0013



LEGEND:

	Monitor Well		Excavation Area
	Recovery Well		
	Soil Sample Locations - Walls		
	Soil Sample Locations - Floors		

NMOCD Ref # AP-0013

Figure 3
Site Details &
Confirmation Sample Locations Map
 North Excavation Area
 Plains Marketing, L.P.
 TNM 97-18
 Lea County, NM

NOVA
 safety and environmental
 www.novasafetyandenvironmental.com

2057 Commerce Drive
 Midland, Texas 79703
 432.520.7720

Scale: 1" = 25'	CAD By: SAT	Checked By: RKR
June 11, 2010	SW14, NE 1/4, Section 28, T20S, R37E	



MW-20

W. N.W. WALL, 10'

N. CENT. WALL, 10'

N.E. WALL-2, 10'

N.E. WALL, 10'

E. WALL-1B, 10'

BH-6B

BH-6

BH-1

E. WALL-1, 10'

BH-5

MW-18

SOUTH EXCAVATION AREA

MW-4

W.CENT. WALL, 10'

E. WALL-2, 10'

BH-2

BH-2B

BH-2C

BH-2D

BH-3

BH-3B

BH-3C

MW-16

W.SW WALL, 10'

BH-4

S. CENT WALL-2, 10'

S. CENT WALL, 10'

MW-17

MW-24

Pipeline Right-of-Way



LEGEND:

	Monitor Well		Excavation Area
	Recovery Well		
	Soil Sample Locations - Walls		
	Soil Sample Locations - Floors		

NMOCD Ref # AP-0013

Figure 4
 Site Details &
 Confirmation Sample Locations Map
 South Excavation Area
 Plains Marketing, L.P.
 TNM 97-18
 Lea County, NM



2057 Commerce Drive
 Midland, Texas 79703
 432.520.7720
 www.novasafetyandenvironmental.com

Scale: 1" = 25'	CAD By: SAT	Checked By: RKR
June 11, 2010	SW1/4, NE 1/4, Section 28, T20S, R37E	

TABLES

TABLE 1

Concentrations of BTEX and TPH in Soil
 97-18
 PLAINS PIPELINE, L.P.
 Plains SRS # TNM 97-18
 NMOC Reference AP-0013

SAMPLE DATE	SAMPLE LOCATION	SAMPLE DEPTH	SOIL STATUS	Method SW-8015b			Method SW 846-8021b					
				GRO C ₆ -C ₁₂ mg/Kg	DRO >C ₁₂ -C ₃₅ mg/Kg	Total TPH C ₆ -C ₃₅ mg/Kg	Benzene mg/Kg	Toluene mg/Kg	Ethylbenzen e mg/Kg	Xylene mg/Kg	Total BTEX mg/Kg	
NMOC REGULATORY STANDARD												
South Excavation Area Floor and Sidewall Sample Locations												
03/25/10	South Excav. E. Wall-1	10'	Excavated	<1.0	114	114	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
03/25/10	South Excav. E. Wall-2	10'	In-Situ	<1.0	<50	<50	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
03/25/10	South Excav. NE. Wall	10'	Excavated	<1.0	124	124	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
03/25/10	South Excav. N. Cent Wall	10'	In-Situ	<1.0	62.2	62.2	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
03/26/10	South Excav. S. Cent Wall	10'	Excavated	<1.0	280	280	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
03/26/10	South Excav. W. NW Wall	10'	In-Situ	<1.0	<50	<50	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
03/26/10	South Excav. W. Cent Wall	10'	In-Situ	<1.0	<50	<50	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
03/26/10	South Excav. W. SW Wall	10'	In-Situ	<1.0	<50	<50	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
03/29/10	S. Exc. BH-1, N Cent Floor	12'	In-Situ	2.54	65.1	67.6	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
03/29/10	S. Exc. BH-2, SE Cor Floor	12'	Excavated	<1.0	98.9	98.9	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
03/29/10	S. Exc. BH-3, S. Cent Floor	12'	Excavated	<1.0	246	246	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
03/29/10	S. Exc. BH-4, SW Cor Floor	12'	In-Situ	<1.0	<50	<50	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
03/29/10	S. Exc. BH-5, NW Cor Floor	12'	In-Situ	<1.0	50.4	50.4	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
03/29/10	S. Exc. BH-6, N Cor Floor	12'	Excavated	106	212	318	<0.010	<0.010	<0.010	1.24	0.406	1.646
03/29/10	S. Exc. BH-7, NE Cor Floor	12'	In-Situ	<1.0	<50	<50	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
03/31/10	South Excav. E. Wall-1 B	10'	In-Situ	<1.0	67.5	67.5	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
03/31/10	South Excav. NE Wall-2	10'	In-Situ	<1.0	<50	<50	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
03/31/10	South Excav. S. Cent Wall-2	10'	In-Situ	<1.0	74.7	74.7	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
04/01/10	S. Exc. BH-2B, SE. Cor Flr, 12'	12'	Excavated	5.09	131	136	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
04/01/10	S. Exc. BH-3B, S. Cent Flr, 12'	12'	In-Situ	<1.0	<50	<50	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
04/01/10	S. Exc. BH-6B, N. Cent Flr, 12'	12'	In-Situ	<1.0	61.3	61.3	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
04/14/10	S. Exc. BH-2C, SE. Cor Flr, 12'	12'	Excavated	<1.0	130	130	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
04/21/10	S. Exc. BH-2D, SE. Cor Flr, 12'	12'	In-Situ	<1.0	<50	<50	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010

TABLE 1

Concentrations of BTEX and TPH in Soil

97-18

PLAINS PIPELINE, L.P.

Plains SRS # TNM 97-18

NMOC Reference AP-0013

SAMPLE DATE	SAMPLE LOCATION	SAMPLE DEPTH	SOIL STATUS	Method SW-8015b			Method SW 846-8021b					
				GRO C ₆ -C ₁₂ mg/Kg	DRO >C ₁₂ -C ₃₅ mg/Kg	Total TPH C ₆ -C ₃₅ mg/Kg	Benzene mg/Kg	Toluene mg/Kg	Ethylbenzen e mg/Kg	Xylene mg/Kg	Total BTEX mg/Kg	
NMOC REGULATORY STANDARD												
North Excavation Area Floor and Sidewall Sample Locations												
04/14/10	N. Exc. NW. Cor Wall, 10'	10'	In-Situ	2.75	<50	2.75	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
04/14/10	N. Exc. W. Cent Wall, 10'	10'	Excavated	16.7	382	398.7	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
04/14/10	N. Exc. N. Cent Wall, 10'	10'	In-Situ	<1.0	<50	<50	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
04/14/10	N. Exc. SW Wall, 10'	10'	In-Situ	<1.0	<50	<50	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
04/14/10	N. Exc. S. Cent Wall, 10'	10'	In-Situ	<1.0	<50	<50	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
04/14/10	N. Exc. SE. Cent Wall, 10'	10'	Excavated	<1.0	696	696	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
04/14/10	N. Exc. N. Cor Floor, 12'	12'	In-Situ	<1.0	<50	<50	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
04/14/10	N. Exc. NW Cor Floor, 12'	12'	In-Situ	<1.0	<50	<50	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
04/14/10	N. Exc. W. Cent Floor, 12'	12'	Excavated	10.6	462	472.6	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
04/14/10	N. Exc. SW Floor, 12'	12'	In-Situ	<1.0	<50	<50	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
04/14/10	N. Exc. S. Cent Floor, 12'	12'	In-Situ	<1.0	<50	<50	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
04/14/10	N. Exc. SE Cor Floor, 12'	12'	In-Situ	<1.0	<50	89.4	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
South Excavation Area Floor and Sidewall Sample Locations												
04/21/10	N. Exc. W. Cent Wall-B, 10'	10'	In-Situ	<1.0	<50	<50	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
04/21/10	N. Exc. SE. Cent Wall-B, 10'	10'	In-Situ	<1.0	<50	<50	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
04/21/10	N. Exc. W. Cent Floor-B, 12'	12'	In-Situ	<1.0	<50	<50	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
04/21/10	N. Exc. NE Cor Wall, 10'	10'	In-Situ	<1.0	<50	<50	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
04/21/10	N. Exc. E. Cent Wall, 10'	10'	In-Situ	<1.0	<50	<50	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
04/21/10	N. Exc. SE Cor Wall, 10'	10'	Excavated	<1.0	1,380	1,380	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
04/21/10	N. Exc. NE Cor Floor, 12'	12'	In-Situ	<1.0	103	103	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
04/21/10	N. Exc. E. Cent Floor, 12'	12'	In-Situ	<1.0	<50	<50	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
04/21/10	N. Exc. SE Cor Floor, 12'	12'	In-Situ	<1.0	<50	<50	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
South Excavation Soil/Stockpile Composite Samples												
04/27/10	N. Exc. SE Cor Wall-B, 10'	10'	In-Situ	<1.0	<50	<50	<0.010	0.0496	<0.010	<0.010	<0.010	0.0496
South Excavation Soil/Stockpile Composite Samples												
04/14/10	South Soil Stockpile, SS-1	--	Blended	<1.0	<50	<50	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
04/14/10	South Soil Stockpile, SS-2	--	Blended	<1.0	51.2	51.2	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
04/14/10	South Soil Stockpile, SS-3	--	Blended	<1.0	<50	<50	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
04/14/10	South Soil Stockpile, SS-4	--	Blended	<1.0	54.7	54.7	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
04/14/10	South Soil Stockpile, SS-5	--	Blended	1.32	101	102.32	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
04/14/10	South Soil Stockpile, SS-6	--	Blended	<1.0	<50	<50	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
04/14/10	South Soil Stockpile, SS-7	--	Blended	3.32	159	162.32	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
04/14/10	South Soil Stockpile, SS-8	--	Blended	1.41	70.5	71.9	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
04/14/10	South Soil Stockpile, SS-9	--	Blended	1.2	75.5	76.7	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
04/14/10	South Soil Stockpile, SS-10	--	Blended	<1.0	98.3	98.3	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
04/14/10	South Soil Stockpile, SS-11	--	Blended	<1.0	<50	<50	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010

TABLE 1

Concentrations of BTEX and TPH in Soil

97-18

PLAINS PIPELINE, L.P.

Plains SRS # TNM 97-18

NMOC Reference AP-0013

SAMPLE DATE	SAMPLE LOCATION	SAMPLE DEPTH	SOIL STATUS	Method SW-8015b				Method SW 846-8021b								
				GR0 C ₆ -C ₁₂ mg/Kg	DRO >C ₁₂ -C ₃₅ mg/Kg	Total TPH C ₆ -C ₃₅ mg/Kg	Benzene mg/Kg	Toluene mg/Kg	Ethylbenzen e mg/Kg	Xylene mg/Kg	Total BTEX mg/Kg					
NMOC REGULATORY STANDARD													10	-	-	50
North Excavation Soil Stockpile Composite Samples													1,000			
04/27/10	North Stockpile A, NS-1	--	Blended	8.39	654	662	<0.010	0.0478	<0.010	<0.010	<0.010	<0.010	0.0478			
04/27/10	North Stockpile A, NS-2	--	Blended	7.05	613	620.05	<0.010	0.0521	<0.010	<0.010	<0.010	<0.010	0.0521			
04/27/10	North Stockpile A, NS-3	--	Blended	29.6	543	572.6	<0.010	0.0518	<0.010	<0.010	<0.010	<0.010	0.0518			
04/27/10	North Stockpile A, NS-4	--	Blended	21.8	462	484	<0.010	0.0515	<0.010	<0.010	<0.010	<0.010	0.0515			
04/27/10	North Stockpile A, NS-5	--	Blended	13.3	464	477.3	<0.010	0.0504	<0.010	<0.010	<0.010	<0.010	0.0504			
04/27/10	North Stockpile A, NS-6	--	Blended	68.6	919	987.6	<0.010	0.0572	<0.010	<0.010	<0.010	0.117	0.1742			
04/27/10	North Stockpile A, NS-7	--	Blended	51.1	868	919.1	<0.010	0.0449	<0.010	<0.010	<0.010	0.154	0.1989			
04/27/10	North Stockpile A, NS-8	--	Blended	38.4	593	631.4	<0.010	0.0549	<0.010	<0.010	<0.010	<0.010	0.0549			
04/27/10	North Stockpile A, NS-9	--	Re-Blended	149	1,800	1,949	<0.010	0.0539	0.298	0.298	0.298	0.566	0.9179			
04/27/10	North Stockpile A, NS-10	--	Re-Blended	119	2,280	2,399	<0.010	<0.010	<0.010	0.240	0.240	0.512	0.752			
04/30/10	North Stockpile 2, SS2-1	--	Blended	91.5	868	959.5	<0.010	0.0441	0.0147	0.0147	0.297	0.297	0.3558			
04/30/10	North Stockpile 2, SS2-2	--	Blended	111	839	950	<0.010	<0.010	0.0155	0.0155	0.162	0.162	0.1775			
04/30/10	North Stockpile 2, SS2-3	--	Blended	66.6	566	632.6	<0.010	<0.010	<0.010	<0.010	0.0996	0.0996	0.0996			
04/30/10	North Stockpile 2, SS2-4	--	Blended	132	616	748	<0.010	<0.010	0.0499	0.0499	0.193	0.193	0.2429			
04/30/10	North Stockpile 2, SS2-5	--	Blended	79	604	683	<0.010	0.0470	0.0499	0.0499	0.194	0.194	0.2909			
04/30/10	North Stockpile 2, SS2-6	--	Re-Blended	92.2	990	1,082.2	<0.010	<0.010	<0.010	<0.010	0.165	0.165	0.165			
04/30/10	North Stockpile 2, SS2-7	--	Re-Blended	45.4	1,140	1,185.40	<0.010	0.0447	<0.010	<0.010	0.105	0.105	0.1497			
04/30/10	North Stockpile 2, SS2-8	--	Blended	41.6	557	598.6	<0.010	<0.010	<0.010	<0.010	0.152	0.152	0.152			
04/30/10	North Stockpile 2, SS2-9	--	Blended	29	920	949	<0.010	0.0445	0.0148	0.0148	0.118	0.118	0.1773			
05/04/10	North Stockpile A, NS-9B	--	Blended	26.4	588	614.4	<0.010	<0.010	<0.010	<0.010	0.112	0.112	0.112			
05/04/10	North Stockpile A, NS-10B	--	Blended	54.7	623	677.7	<0.010	<0.010	0.0394	0.0394	0.295	0.295	0.3344			
05/07/10	North Stockpile 2, SS2-6B	--	Blended	5.4	181	186.4	NA	NA	NA	NA	NA	NA	NA			
05/07/10	North Stockpile 2, SS2-7B	--	Blended	8.37	273	281.37	NA	NA	NA	NA	NA	NA	NA			

NA = Not Analyzed

APPENDICES

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

District I - (505) 393-6161
 P.O. Box 1980
 Hobbs, NM 88241-1980
 District II - (505) 748-1283
 811 South First
 Artesia, NM 88210
 District III - (505) 334-6178
 1000 Rio Brazos Road
 Aztec, NM 87410
 District IV - (505) 827-7131

State of New Mexico
 Energy Minerals and Natural Resources Department
 Oil Conservation Division
 2040 South Pacheco Street
 Santa Fe, New Mexico 87505
 (505) 827-7131

Form C-141
 Originated 2/13/97

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 Final Report

Name Texas-New Mexico Pipe Line Company	Contact Edwin H. Gripp
Address Box 60028, San Angelo, TX 76906	Telephone No. (915) 947-9000
Facility Name 16" main line	Facility Type pipe line

Surface Owner Millard Bush Estate	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
	28	20S	37E					Dea

NATURE OF RELEASE

Type of Release Down crude	Volume of Release 83 barrels	Volume Recovered none
Source of Release 16" main line	Date and Hour of Occurrence Unknown	Date and Hour of Discovery 9-10-97 4:30 pm
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? Elizabeth	
By Whom? Mike Pearce	Date and Hour 9-11-97 1:30 pm	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.	

If a Watercourse was Impacted, Describe Fully.*

Describe Cause of Problem and Remedial Action Taken.*
 Internal Corrosion
 Leak successfully clamped off.

Describe Area Affected and Cleanup Action Taken.*
 3600 sq. ft. pasture land.
 Contaminated soil will be excavated.

Describe General Conditions Prevailing (Temperature, Precipitation, etc.).*
 95° Cloudy

I hereby certify that the information given above is true and complete to the best of my knowledge and belief. Signature: <i>Edwin H. Gripp</i>	<u>OIL CONSERVATION DIVISION</u>	
Printed Name: Edwin H. Gripp	Approved by: District Supervisor:	
Title: District Manager	Approval Date:	Expiration Date:
Date: 9-11-97	Phone: 915-947-9001	Conditions of Approval:
		Attached <input type="checkbox"/>

* Attach Additional Sheets If Necessary

State Corp. Commission
 Pipe Line Division

Hazardous Waste Section
 NM Environmental Improvement Div.

TNM-97-18 JWC JAS



APPENDIX B
Photographic Documentation

Client: Plains Marketing, L.P.
Location: Lea County, New Mexico

Project Name: TNM 97-18
Photographer: Jaime Fowler

Photograph No. 1

Direction: West

Description: View of the Southern excavation area.



Photograph No. 2

Direction: West

Description: View of the Northern excavation area.



Client: Plains Marketing, L.P.
Location: Lea County, New Mexico

Project Name: TNM 97-18
Photographer: Jaime Fowler

Photograph No. 3

Direction: South

Description: View to the south of the Northern excavation area.



Photograph No. 4

Direction: Southeast

Description: Synthetic Liner Installation within the Northern excavation area.



Client: Plains Marketing, L.P.
Location: Lea County, New Mexico

Project Name: TNM 97-18
Photographer: Jaime Fowler

Photograph No. 5

Direction: West

Description: Synthetic Liner Installation within the Northern excavation area.



Photograph No. 6

Direction: Southeast

Description: Synthetic Liner Installation within the Southern excavation area.



Client: Plains Marketing, L.P.
Location: Lea County, New Mexico

Project Name: TNM 97-18
Photographer: Jaime Fowler

Photograph No. 1

Direction: West

Description: View of the Southern excavation area.

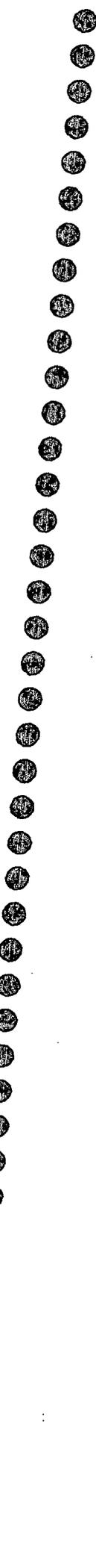


Photograph No. 2

Direction: West

Description: View of the Northern excavation area.





APPENDIX C
Laboratory Analytical Reports
(On the attached CD)