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4.18.06
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**PRELIMINARY SITE INVESTIGATION REPORT
and
REMEDATION/CLOSURE PLAN**

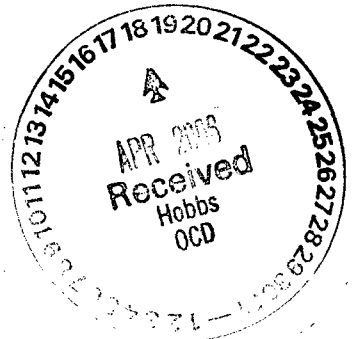
**Plains Marketing, L.P.
Livingston Ridge Station Tank 113038
Lea County, New Mexico
Plains EMS # 2006-086**

**Unit D, Section 6, Township 21S, Range 32E
Latitude 32°, 25, 36.5" North, Longitude 103°, 43, 21.2" West**

Prepared For:

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

Prepared By:
HMR&V Services, Inc.
P.O. Box 60228
Midland, TX 79711
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Plains -

April 13, 2006

Incident - nPAC 0606548065
application - pPAC 0606548221

**PRELIMINARY SITE INVESTIGATION REPORT
and
REMEDIATION/CLOSURE PLAN**

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Mark Meadows by:
Prepared By: Elr. Jager

Date: 4/10/06

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Appendix A:	New Mexico Office of the State Engineer Water Well Database Report
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Appendix C:	NMOCD C-141

Introduction

HMR&V Services, Inc., responded to a crude oil tank release for Plains Marketing, L.P. (Plains), located at the Livingston Ridge Station Tank #113038 on March 2, 2006. The float malfunctioned on the tank resulting in an overflow. The float was fixed and excavation of the impacted soil was initiated and impacted soil was stockpiled on a 6-mil poly-liner adjacent to the excavation.

This site is located in Unit D, Section 6, Township 21 South, Range 32 East, in Lea County, New Mexico (topographic Site Location Map is attached as Figure 1). The site is located at latitude 32°25, 36.5 North and longitude 103°, 43, 21.2 West. The site is characterized by a crude oil station in an undulating sand dune pasture utilized for cattle grazing. The visible surface stained area includes the release point covering an area approximately 1575 square feet. Approximately 10 barrels of crude oil were released from the Plains tank and 5 barrels were recovered.

An Emergency One-call was initiated March 2, 2006 (200610398) and all responding companies either cleared or marked their respective lines.

Ms. Pat Caperton, New Mexico Oil Conservation Division (NMOCD), Hobbs, New Mexico District 1, was verbally notified of the release on March 3, 2006. A C-141 form, dated March 3, 2006 was completed by Plains and submitted to the NMOCD, Hobbs, New Mexico Office (see Appendix C, NMOCD C-141).

Summary of Field Activities

On March 2, 2006, HMR&V responded to a tank overflow located at the Livingston Ridge Station to contain the crude oil release under the direction of Plains operations personnel.

After containing the crude oil release, excavation of the release point and flow path was initiated with the excavated soil placed on a 6-mil poly-liner for future remedial action. The excavated area is approximately 64 feet long by 41 feet wide and approximately 2 to 3 feet below ground surface (bgs) (See Figure 2, Site Map). Approximately 300 cubic yards of impacted soil has been stockpiled on-site commensurate with remediation activities.

On March 10, 2006, confirmation soil samples were collected from the excavated area. The confirmation soil samples collected were field screened with a Photoionization Detector (PID), (see Figure 3, Soil Sampling Locations). All 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 indicated that the walls and floor of the excavated area are below NMOCD regulatory standards for BTEX and TPH constituent concentrations (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 section 6. No listings were available for the immediate area. There are no surface water bodies or water wells within 1000 feet of the release site. The site has an NMOCD Rankin Score of 0-9, which sets the remediation levels at:

Benzene: 10ppm

BTEX: 50ppm

TPH: 5000ppm

Distribution of Hydrocarbons in the Unsaturated Zone

The release point and flow path areas were excavated to approximately 64 feet long by 41 feet wide and depths ranging approximately 2 feet bgs to 3 feet bgs (see Figure 2, Site Map) with no visual evidence of crude oil impact evident on the floor or the sidewalls of the excavation. Confirmation soil samples were collected from excavation on March 10, 2006. The soil samples were field screened with a PID and analyzed for concentrations of BTEX and TPH. Laboratory data sheets and chain-of-custody forms are attached (Appendix B).

Analytical results from the March 10, 2006 confirmation soil sampling event indicated that detectable BTEX and TPH concentrations were below NMOCD regulatory standards for the bottom and sidewalls. Analytical results indicate that the TPH concentrations from the excavation stockpile samples are above NMOCD regulatory standards.

Recommendations for Remediation/Closure

Approximately 300 cubic yards of impacted soil were excavated and stockpiled on-site resulting from the emergency response and remediation activities. Based on the results of the remedial activities conducted, Plains requests approval to transport the impacted soil to the Plains Lea Station Landfarm (LSLF). A permit (NMOCD Form C-138) will be obtained from the NMOCD for the transporting of the contaminated soils to LSLF. The backfill material will be obtained from the LSLF. This is material that has been treated, tested and authorized for reuse by the NMOCD. The excavation will be backfilled and contoured to the original rangeland grade surrounding the tank battery. Upon completion of backfilling and contouring, Plains will submit a request for closure to NMOCD pursuant to *NMOCD Guidelines for Remediation of Leaks, Spills, and Releases (1993)*.

QA/QC Procedures

Soil Sampling

Soil samples were delivered to environmental Lab of Texas, Inc. Odessa, Texas for BTEX, TPH analyses using the methods described below. Soil samples were placed on ice for transport to the lab. 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 the 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

HMR&V Services, Inc. has prepared this Preliminary Investigation Report and Remediation/Closure Plan to the best of ability. No other warranty, expressed or implied, is made intended.

HMR&V Services, Inc. has examined and relied upon documents referenced in the report and has relied on oral statements made by certain individuals. HMR&V Services, Inc. , 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. HMR&V Services, Inc., has prepared this report in a professional manner, using the degree of skill and care exercised by similar environmental consultants. HMR&V Services, Inc., also notes that the facts and conditions 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 HMR&V Services, Inc. and Plains Marketing, L.P.

Distribution

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Table 1:

Soil Chemistry

TABLE 1

SOIL CHEMISTRY

PLAINS MARKETING, L.P.
LIVINGSTON RIDGE STATION
LEA COUNTY, NEW MEXICO
EMS: 2006-086

SAMPLE LOCATION	SAMPLE DEPTH (Below normal surface grade)	SAMPLE DATE	Method: EPA SW 846-8021B, 5030					Method: 8015		TOTAL TPH (mg/kg)
			BENZENE (mg/kg)	TOLUENE (mg/kg)	ETHYL- BENZENE (mg/kg)	P/M- XYLENES (mg/kg)	O- XYLENE (mg/kg)	GRO (mg/kg)	DRO (mg/kg)	
BH 1	3'	3/10/2006	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	119.79	17.7	130
BH 2	3'	3/10/2006	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	23.4	ND	23.4
BH 3	3'	3/10/2006	<0.0250	0.263	0.393	1.37	0.612	545	56.3	601
BH 4	3'	3/10/2006	<0.0250	0.136	0.153	0.413	0.215	198.8	30.0	229
SW 1	6"	3/10/2006	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<10	<10	<10
SW 2	6"	3/10/2006	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	234.31	39.2	266
SW 3	6"	3/10/2006	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<10	<10	<10
SP 1	6"	3/10/2006	0.342	3.01	2.13	6.47	3.26	9520	683	10200
NMOCD			10		TOTAL BTEX 50					5000

BH – Bottom Hole SW – Side Wall SP – Stock Pile bgs – below ground surface

Figure 1:

Site Location Map

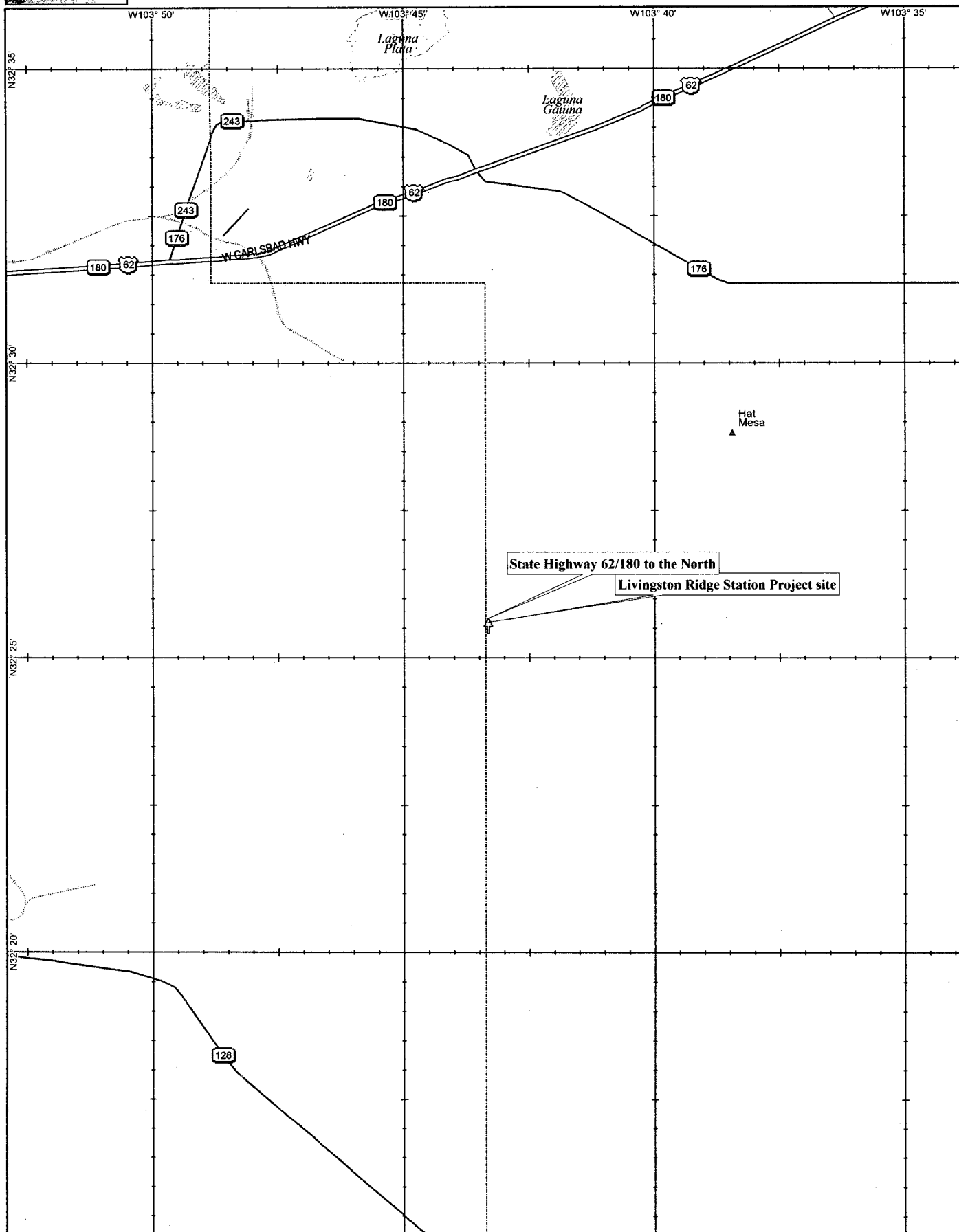


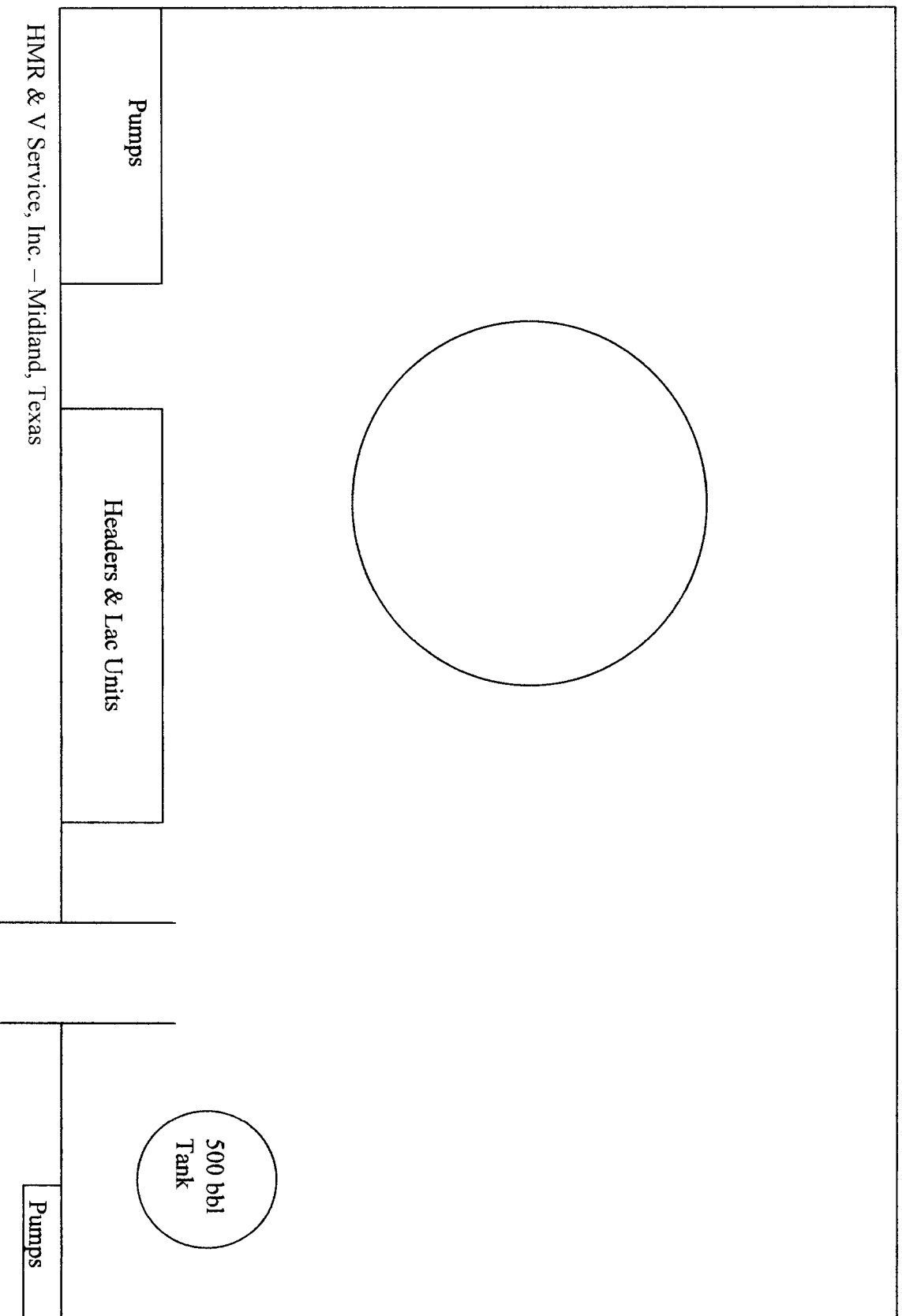
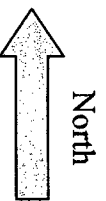
Figure 2:

Site Map



Livingston Ridge Station

Project # PLA 2006-086



Soil Sampling

Figure 3:

Livingston Ridge Station

Project # PLA 2006-086

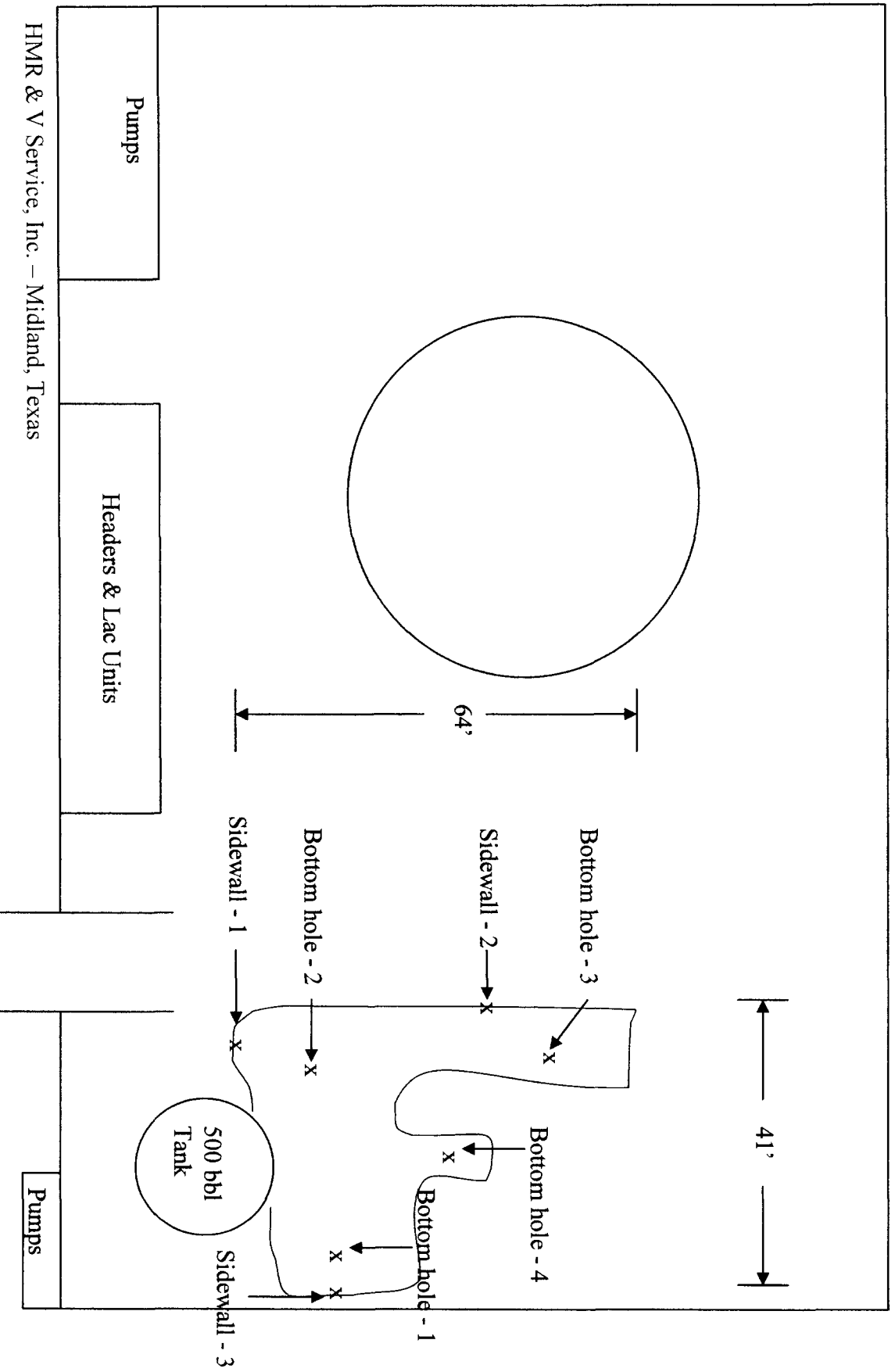
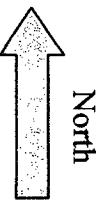
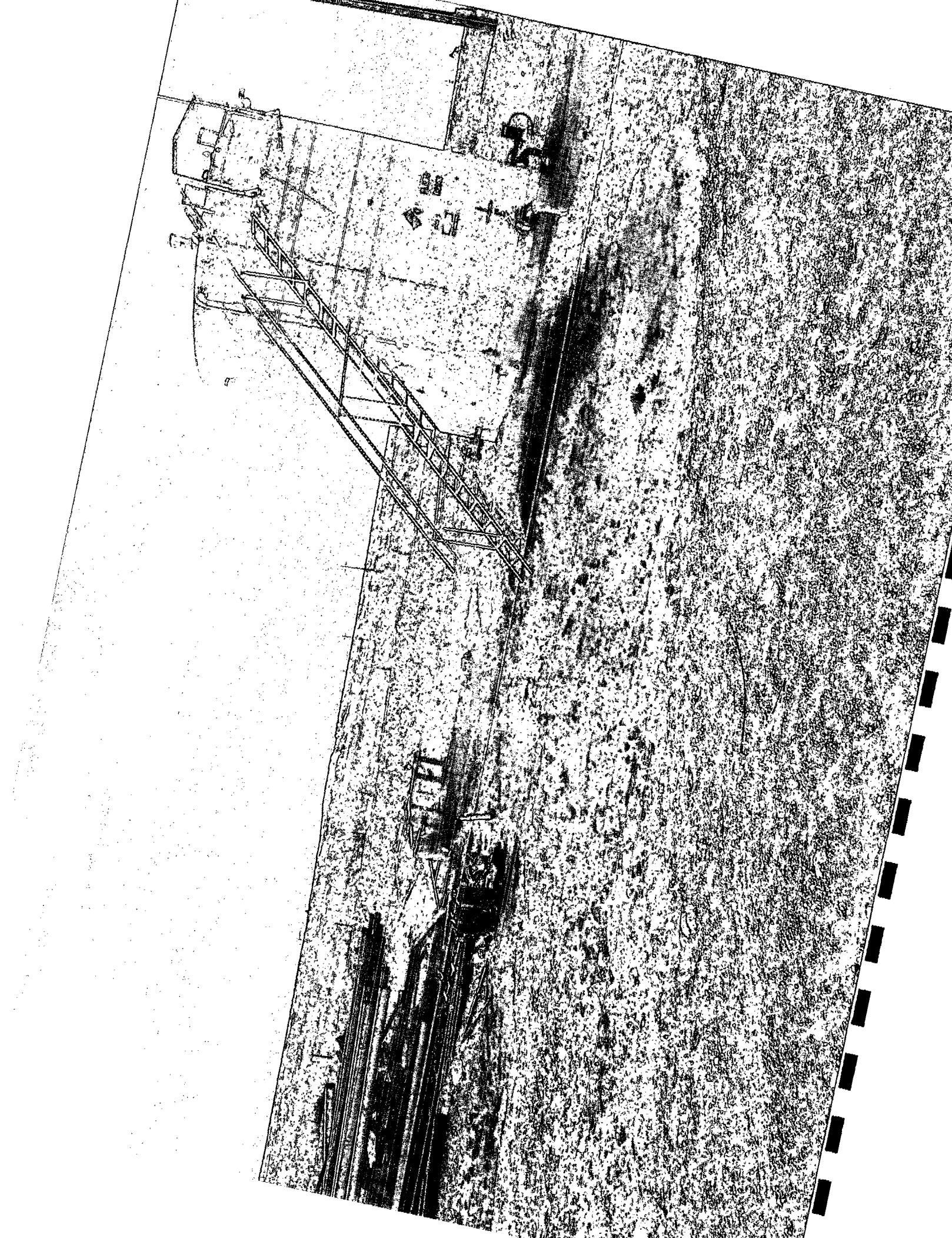
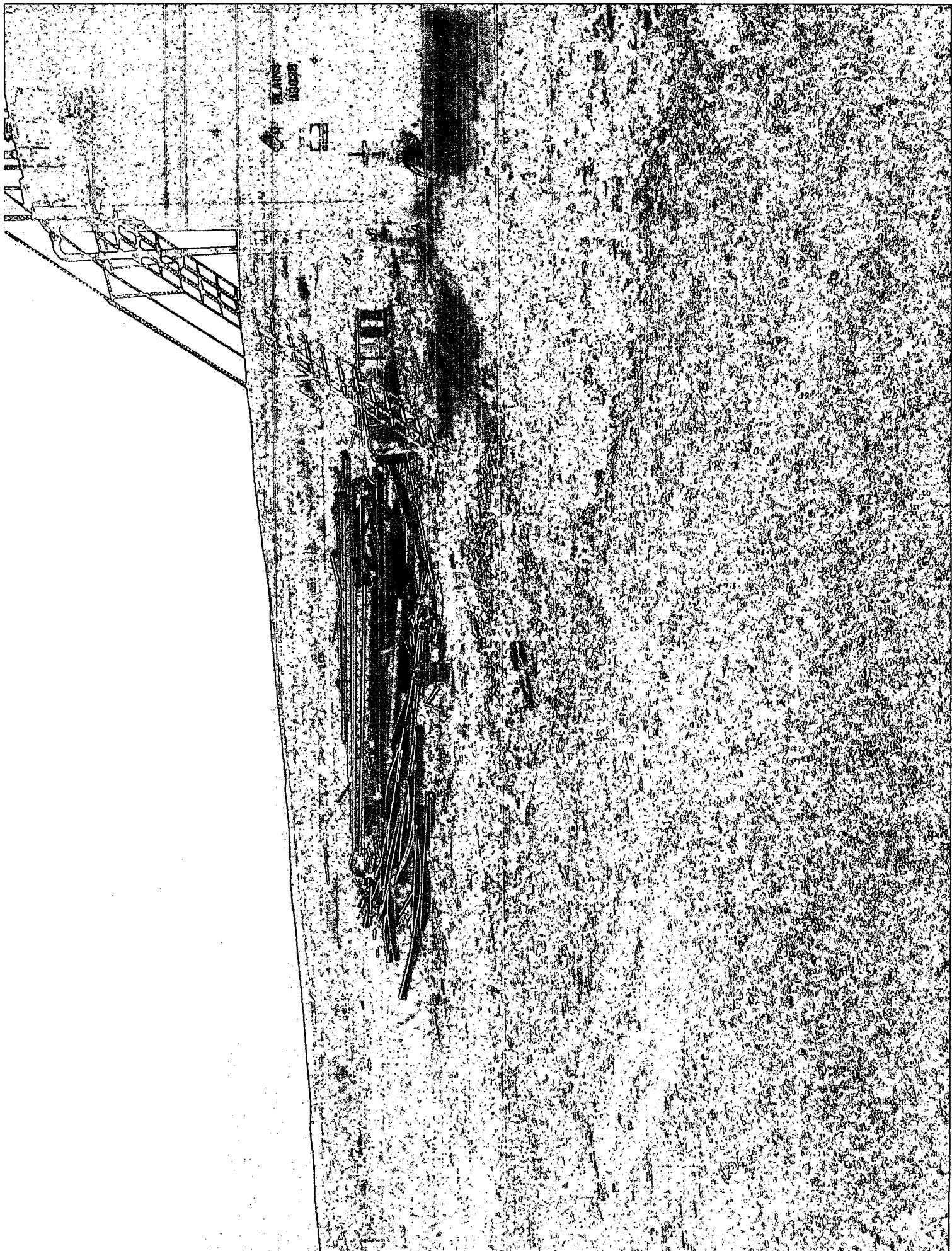
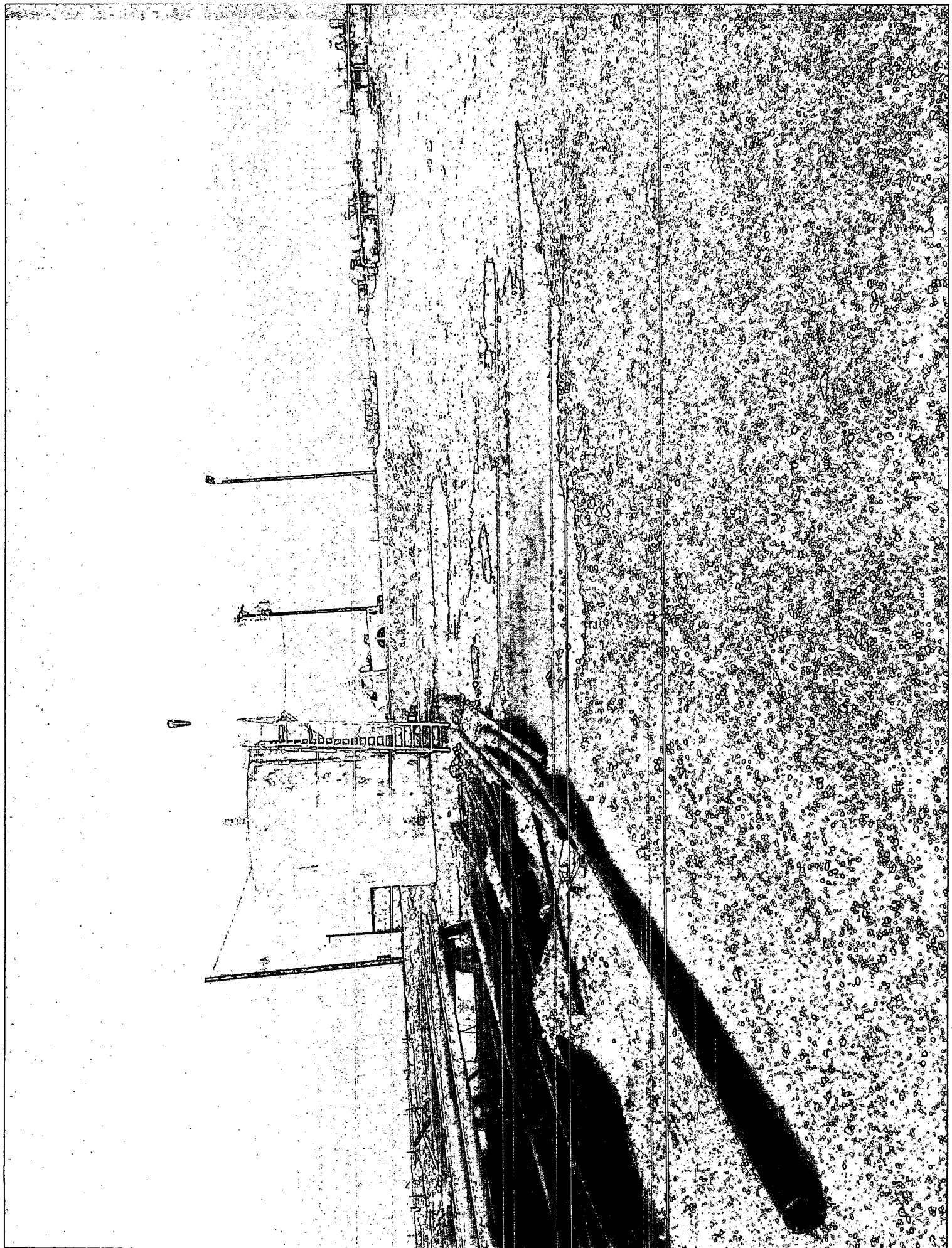


Figure 4:

Digital Photos



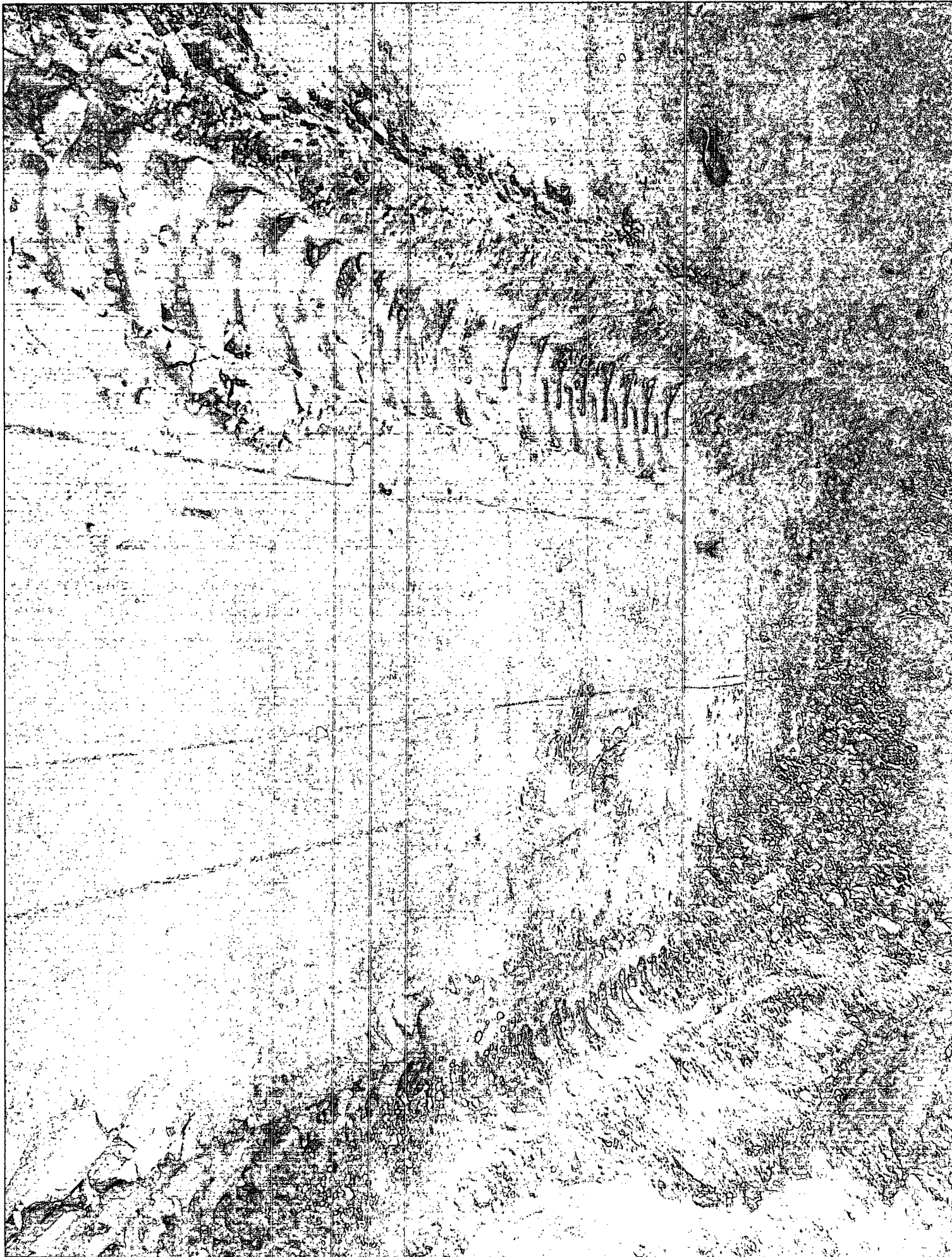




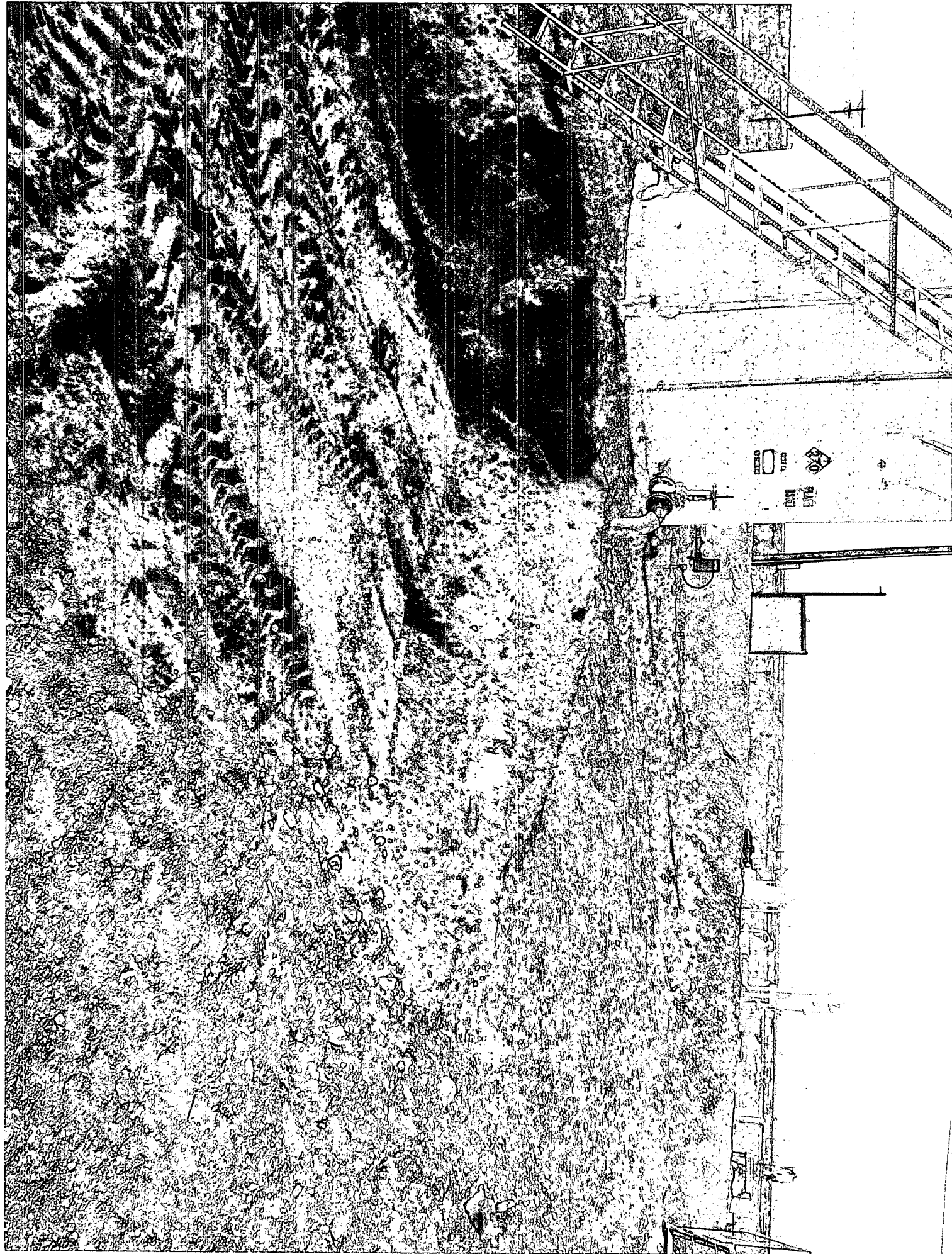


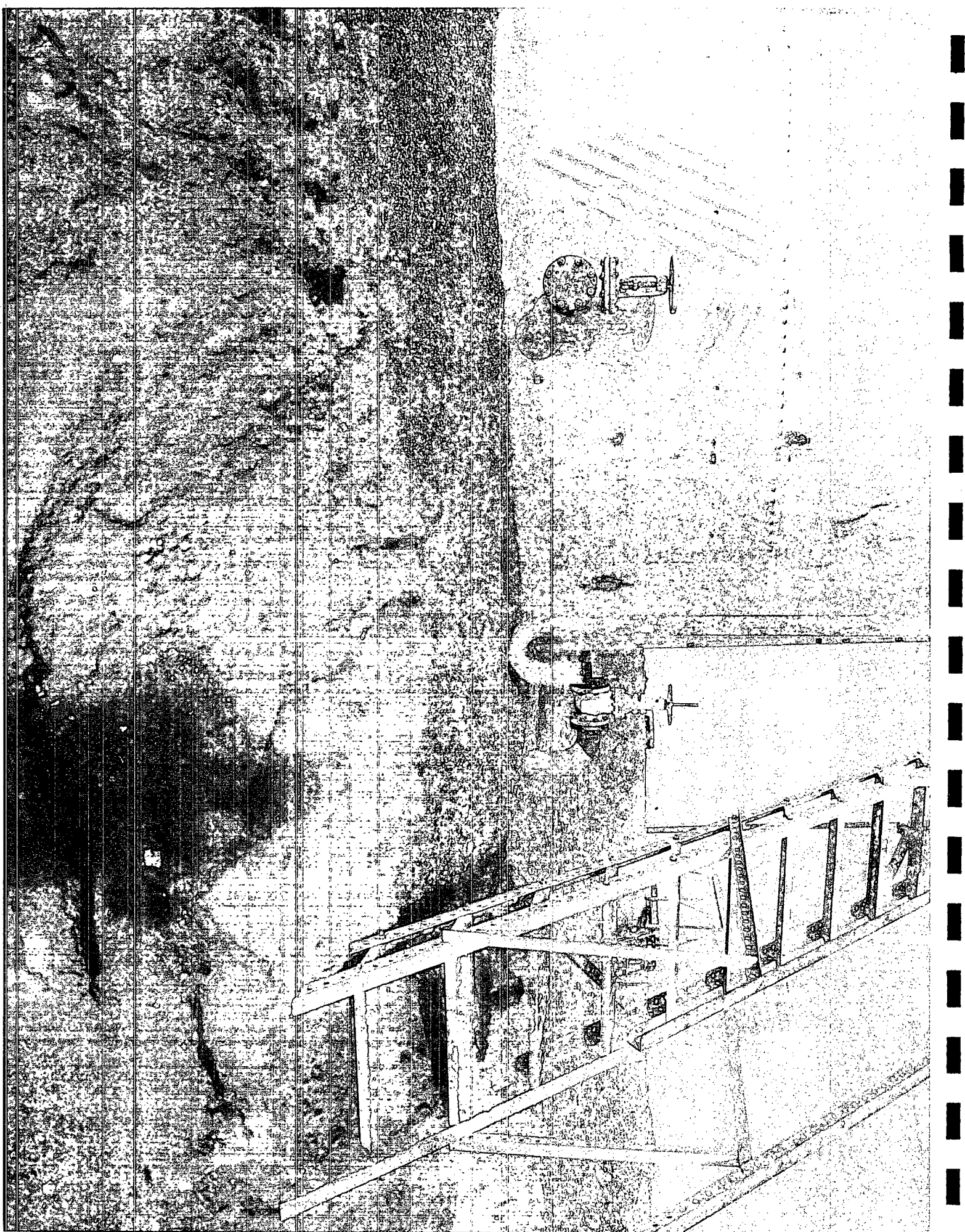












Appendix A:

New Mexico Office of the State Engineer Water Well Database Report

New Mexico Office of the State Engineer
POD Reports and Downloads

Township: 21S Range: 32E Sections: 6

NAD27 X: Y: Zone: Search Radius:

County: LE Basin: Number: Suffix:

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

POD / Surface Data Report

Avg Depth to Water Report

Water Column Report

Clear Form

iWATERS Menu

Help

POD / SURFACE DATA REPORT 04/13/2006

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

POD Number

(quarters
(quarters
Source

No Records found, try again

New Mexico Office of the State Engineer
POD Reports and Downloads

Township: 21S Range: 32E Sections: 6

NAD27 X: Y: Zone: Search Radius:

County: LE Basin: Number: Suffix:

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

POD / Surface Data Report

Avg Depth to Water Report

Water Column Report

Clear Form

iWATERS Menu

Help

AVERAGE DEPTH OF WATER REPORT 04/13/2006

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

No Records found, try again

**New Mexico Office of the State Engineer
POD Reports and Downloads**

Township: 21S Range: 32E Sections: 6

NAD27 X: Y: Zone: Search Radius:

County: LE Basin: Number: Suffix:

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

POD / Surface Data Report

Avg Depth to Water Report

Water Column Report

Clear Form

iWATERS Menu

Help

WATER COLUMN REPORT 04/13/2006

(quarters are 1=NW 2=NE 3=SW 4=SE)

(quarters are biggest to smallest)

POD Number	Tws	Rng	Sec	q	q	q	Zone	X	Y	Depth Well	Depth Water	Water (in Column
------------	-----	-----	-----	---	---	---	------	---	---	---------------	----------------	---------------------

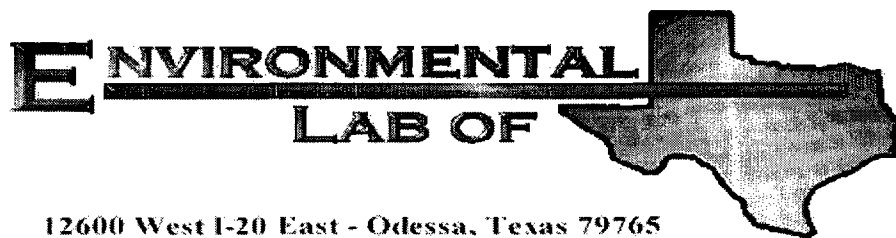
No Records found, try again

Appendix A:

New Mexico Office of the State Engineer Water Well Database Report

Appendix B:

Environmental Laboratory of Texas Analytical Results



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: Livingston Ridge

Project Number: 2006-086

Location: Lea County

Lab Order Number: 6C10007

Report Date: 03/17/06

Plains All American EH & S
1301 S. County Road 1150
Midland TX, 79706-4476

Project: Livingston Ridge
Project Number: 2006-086
Project Manager: Camille Reynolds

Fax: (432) 687-4914

Reported:
03/17/06 10:29

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
BH 1	6C10007-01	Soil	03/10/06 08:40	03/10/06 12:15
BH 2	6C10007-02	Soil	03/10/06 08:42	03/10/06 12:15
BH 3	6C10007-03	Soil	03/10/06 08:45	03/10/06 12:15
BH 4	6C10007-04	Soil	03/10/06 08:47	03/10/06 12:15
SW 1	6C10007-05	Soil	03/10/06 08:30	03/10/06 12:15
SW 2	6C10007-06	Soil	03/10/06 08:32	03/10/06 12:15
SW 3	6C10007-07	Soil	03/10/06 08:36	03/10/06 12:15
SP 1	6C10007-08	Soil	03/10/06 08:50	03/10/06 12:15

Plains All American EH & S
1301 S. County Road 1150
Midland TX, 79706-4476

Project: Livingston Ridge
Project Number: 2006-086
Project Manager: Camille Reynolds

Fax: (432) 687-4914

Reported:
03/17/06 10:29

Organics by GC
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BH 1 (6C10007-01) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EC61304	03/13/06	03/14/06	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		88.2 %	80-120		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		82.5 %	80-120		"	"	"	"	
Carbon Ranges C6-C12	J [7.89]	10.0	mg/kg dry	1	EC61510	03/15/06	03/15/06	EPA 8015M	J
Carbon Ranges C12-C28	112	10.0	"	"	"	"	"	"	
Carbon Ranges C28-C35	17.7	10.0	"	"	"	"	"	"	
Total Hydrocarbon C6-C35	130	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		112 %	70-130		"	"	"	"	
Surrogate: 1-Chlorooctadecane		111 %	70-130		"	"	"	"	
BH 2 (6C10007-02) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EC61304	03/13/06	03/14/06	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		92.8 %	80-120		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		90.8 %	80-120		"	"	"	"	
Carbon Ranges C6-C12	ND	10.0	mg/kg dry	1	EC61510	03/15/06	03/15/06	EPA 8015M	
Carbon Ranges C12-C28	23.4	10.0	"	"	"	"	"	"	
Carbon Ranges C28-C35	ND	10.0	"	"	"	"	"	"	
Total Hydrocarbon C6-C35	23.4	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		111 %	70-130		"	"	"	"	
Surrogate: 1-Chlorooctadecane		110 %	70-130		"	"	"	"	
BH 3 (6C10007-03) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EC61304	03/13/06	03/14/06	EPA 8021B	
Toluene	0.263	0.0250	"	"	"	"	"	"	
Ethylbenzene	0.393	0.0250	"	"	"	"	"	"	
Xylene (p/m)	1.37	0.0250	"	"	"	"	"	"	
Xylene (o)	0.612	0.0250	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		95.2 %	80-120		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		99.5 %	80-120		"	"	"	"	
Carbon Ranges C6-C12	100	10.0	mg/kg dry	1	EC61510	03/15/06	03/15/06	EPA 8015M	

Environmental Lab of Texas

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Environmental Lab of Texas.

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Plains All American EH & S
1301 S. County Road 1150
Midland TX, 79706-4476

Project: Livingston Ridge
Project Number: 2006-086
Project Manager: Camille Reynolds

Fax: (432) 687-4914

Reported:
03/17/06 10:29

Organics by GC
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BH 3 (6C10007-03) Soil									
Carbon Ranges C12-C28	445	10.0	mg/kg dry	1	EC61510	03/15/06	03/15/06	EPA 8015M	
Carbon Ranges C28-C35	56.3	10.0	"	"	"	"	"	"	
Total Hydrocarbon C6-C35	601	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		117 %	70-130		"	"	"	"	
Surrogate: 1-Chlorooctadecane		116 %	70-130		"	"	"	"	
BH 4 (6C10007-04) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EC61304	03/13/06	03/14/06	EPA 8021B	
Toluene	0.136	0.0250	"	"	"	"	"	"	
Ethylbenzene	0.153	0.0250	"	"	"	"	"	"	
Xylene (p/m)	0.413	0.0250	"	"	"	"	"	"	
Xylene (o)	0.215	0.0250	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		87.2 %	80-120		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		86.8 %	80-120		"	"	"	"	
Carbon Ranges C6-C12	17.8	10.0	mg/kg dry	1	EC61510	03/15/06	03/15/06	EPA 8015M	
Carbon Ranges C12-C28	181	10.0	"	"	"	"	"	"	
Carbon Ranges C28-C35	30.0	10.0	"	"	"	"	"	"	
Total Hydrocarbon C6-C35	229	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		110 %	70-130		"	"	"	"	
Surrogate: 1-Chlorooctadecane		111 %	70-130		"	"	"	"	
SW 1 (6C10007-05) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EC61304	03/13/06	03/14/06	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		85.5 %	80-120		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		83.5 %	80-120		"	"	"	"	
Carbon Ranges C6-C12	ND	10.0	mg/kg dry	1	EC61510	03/15/06	03/15/06	EPA 8015M	
Carbon Ranges C12-C28	ND	10.0	"	"	"	"	"	"	
Carbon Ranges C28-C35	ND	10.0	"	"	"	"	"	"	
Total Hydrocarbon C6-C35	ND	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		111 %	70-130		"	"	"	"	
Surrogate: 1-Chlorooctadecane		111 %	70-130		"	"	"	"	

Environmental Lab of Texas

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1301 S. County Road 1150
Midland TX, 79706-4476

Project: Livingston Ridge
Project Number: 2006-086
Project Manager: Camille Reynolds

Fax: (432) 687-4914

Reported:
03/17/06 10:29

Organics by GC
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SW 2 (6C10007-06) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EC61304	03/13/06	03/14/06	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		92.0 %	80-120		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		80.0 %	80-120		"	"	"	"	
Carbon Ranges C6-C12	J [7.31]	10.0	mg/kg dry	1	EC61510	03/15/06	03/15/06	EPA 8015M	J
Carbon Ranges C12-C28	227	10.0	"	"	"	"	"	"	
Carbon Ranges C28-C35	39.2	10.0	"	"	"	"	"	"	
Total Hydrocarbon C6-C35	266	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		111 %	70-130		"	"	"	"	
Surrogate: 1-Chlorooctadecane		118 %	70-130		"	"	"	"	
SW 3 (6C10007-07) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EC61304	03/13/06	03/14/06	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		90.2 %	80-120		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		89.0 %	80-120		"	"	"	"	
Carbon Ranges C6-C12	ND	10.0	mg/kg dry	1	EC61510	03/15/06	03/15/06	EPA 8015M	
Carbon Ranges C12-C28	ND	10.0	"	"	"	"	"	"	
Carbon Ranges C28-C35	ND	10.0	"	"	"	"	"	"	
Total Hydrocarbon C6-C35	ND	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		110 %	70-130		"	"	"	"	
Surrogate: 1-Chlorooctadecane		109 %	70-130		"	"	"	"	
SP 1 (6C10007-08) Soil									
Benzene	0.342	0.0250	mg/kg dry	25	EC61304	03/13/06	03/14/06	EPA 8021B	
Toluene	3.01	0.0250	"	"	"	"	"	"	
Ethylbenzene	2.13	0.0250	"	"	"	"	"	"	
Xylene (p/m)	6.47	0.0250	"	"	"	"	"	"	
Xylene (o)	3.26	0.0250	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		140 %	80-120		"	"	"	"	S-04
Surrogate: 4-Bromofluorobenzene		93.5 %	80-120		"	"	"	"	
Carbon Ranges C6-C12	960	10.0	mg/kg dry	1	EC61510	03/15/06	03/15/06	EPA 8015M	

Environmental Lab of Texas

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Plains All American EH & S
1301 S. County Road 1150
Midland TX, 79706-4476

Project: Livingston Ridge
Project Number: 2006-086
Project Manager: Camille Reynolds

Fax: (432) 687-4914

Reported:
03/17/06 10:29

Organics by GC
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SP 1 (6C10007-08) Soil									
Carbon Ranges C12-C28	8560	10.0	mg/kg dry	1	EC61510	03/15/06	03/15/06	EPA 8015M	
Carbon Ranges C28-C35	683	10.0	"	"	"	"	"	"	
Total Hydrocarbon C6-C35	10200	10.0	"	"	"	"	"	"	
<i>Surrogate: 1-Chlorooctane</i>		110 %	70-130		"	"	"	"	
<i>Surrogate: 1-Chlorooctadecane</i>		107 %	70-130		"	"	"	"	

Plains All American EH & S
1301 S. County Road 1150
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Project: Livingston Ridge
Project Number: 2006-086
Project Manager: Camille Reynolds

Fax: (432) 687-4914

Reported:
03/17/06 10:29

General Chemistry Parameters by EPA / Standard Methods
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BH 1 (6C10007-01) Soil									
% Moisture	12.1	0.1	%	1	EC61307	03/10/06	03/13/06	% calculation	
BH 2 (6C10007-02) Soil									
% Moisture	15.0	0.1	%	1	EC61307	03/10/06	03/13/06	% calculation	
BH 3 (6C10007-03) Soil									
% Moisture	23.3	0.1	%	1	EC61307	03/10/06	03/13/06	% calculation	
BH 4 (6C10007-04) Soil									
% Moisture	9.4	0.1	%	1	EC61307	03/10/06	03/13/06	% calculation	
SW 1 (6C10007-05) Soil									
% Moisture	6.3	0.1	%	1	EC61307	03/10/06	03/13/06	% calculation	
SW 2 (6C10007-06) Soil									
% Moisture	3.5	0.1	%	1	EC61307	03/10/06	03/13/06	% calculation	
SW 3 (6C10007-07) Soil									
% Moisture	12.3	0.1	%	1	EC61307	03/10/06	03/13/06	% calculation	
SP 1 (6C10007-08) Soil									
% Moisture	0.9	0.1	%	1	EC61307	03/10/06	03/13/06	% calculation	

Environmental Lab of Texas

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Plains All American EH & S
1301 S. County Road 1150
Midland TX, 79706-4476

Project: Livingston Ridge
Project Number: 2006-086
Project Manager: Camille Reynolds

Fax: (432) 687-4914

Reported:
03/17/06 10:29

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
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Batch EC61304 - EPA 5030C (GC)

Blank (EC61304-BLK1)

Prepared: 03/13/06 Analyzed: 03/14/06

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	42.1		ug/kg	40.0		105	80-120			
Surrogate: 4-Bromofluorobenzene	38.1		"	40.0		95.2	80-120			

LCS (EC61304-BS1)

Prepared: 03/13/06 Analyzed: 03/14/06

Benzene	1.08	0.0250	mg/kg wet	1.25		86.4	80-120			
Toluene	1.18	0.0250	"	1.25		94.4	80-120			
Ethylbenzene	1.34	0.0250	"	1.25		107	80-120			
Xylene (p/m)	2.79	0.0250	"	2.50		112	80-120			
Xylene (o)	1.38	0.0250	"	1.25		110	80-120			
Surrogate: a,a,a-Trifluorotoluene	37.3		ug/kg	40.0		93.2	80-120			
Surrogate: 4-Bromofluorobenzene	36.5		"	40.0		91.2	80-120			

Calibration Check (EC61304-CCV1)

Prepared: 03/13/06 Analyzed: 03/14/06

Benzene	42.8		ug/kg	50.0		85.6	80-120			
Toluene	49.5		"	50.0		99.0	80-120			
Ethylbenzene	57.6		"	50.0		115	80-120			
Xylene (p/m)	119		"	100		119	80-120			
Xylene (o)	59.3		"	50.0		119	80-120			
Surrogate: a,a,a-Trifluorotoluene	39.7		"	40.0		99.2	80-120			
Surrogate: 4-Bromofluorobenzene	43.6		"	40.0		109	80-120			

Matrix Spike (EC61304-MS1)

Source: 6C13012-01

Prepared: 03/13/06 Analyzed: 03/14/06

Benzene	1.09	0.0250	mg/kg dry	1.25	ND	87.2	80-120			
Toluene	1.22	0.0250	"	1.25	ND	97.6	80-120			
Ethylbenzene	1.36	0.0250	"	1.25	ND	109	80-120			
Xylene (p/m)	2.82	0.0250	"	2.51	ND	112	80-120			
Xylene (o)	1.35	0.0250	"	1.25	ND	108	80-120			
Surrogate: a,a,a-Trifluorotoluene	40.5		ug/kg	40.0		101	80-120			
Surrogate: 4-Bromofluorobenzene	32.3		"	40.0		80.8	80-120			

Environmental Lab of Texas

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Plains All American EH & S
1301 S. County Road 1150
Midland TX, 79706-4476

Project: Livingston Ridge
Project Number: 2006-086
Project Manager: Camille Reynolds

Fax: (432) 687-4914

Reported:
03/17/06 10:29

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
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Batch EC61304 - EPA 5030C (GC)

Matrix Spike Dup (EC61304-MSD1)

Source: 6C13012-01

Prepared: 03/13/06 Analyzed: 03/14/06

Benzene	1.00	0.0250	mg/kg dry	1.25	ND	80.0	80-120	8.61	20	
Toluene	1.11	0.0250	"	1.25	ND	88.8	80-120	9.44	20	
Ethylbenzene	1.28	0.0250	"	1.25	ND	102	80-120	6.64	20	
Xylene (p/m)	2.66	0.0250	"	2.51	ND	106	80-120	5.50	20	
Xylene (o)	1.32	0.0250	"	1.25	ND	106	80-120	1.87	20	
Surrogate: a,a,a-Trifluorotoluene	38.0		ug/kg	40.0		95.0	80-120			
Surrogate: 4-Bromofluorobenzene	37.9		"	40.0		94.8	80-120			

Batch EC61510 - Solvent Extraction (GC)

Blank (EC61510-BLK1)

Prepared & Analyzed: 03/15/06

Carbon Ranges C6-C12	ND	10.0	mg/kg wet							
Carbon Ranges C12-C28	ND	10.0	"							
Carbon Ranges C28-C35	ND	10.0	"							
Total Hydrocarbon C6-C35	ND	10.0	"							
Surrogate: 1-Chlorooctane	53.0		mg/kg	50.0		106	70-130			
Surrogate: 1-Chlorooctadecane	52.3		"	50.0		105	70-130			

LCS (EC61510-BS1)

Prepared & Analyzed: 03/15/06

Carbon Ranges C6-C12	518	10.0	mg/kg wet	500		104	75-125			
Carbon Ranges C12-C28	482	10.0	"	500		96.4	75-125			
Total Hydrocarbon C6-C35	1000	10.0	"	1000		100	75-125			
Surrogate: 1-Chlorooctane	56.0		mg/kg	50.0		112	70-130			
Surrogate: 1-Chlorooctadecane	49.9		"	50.0		99.8	70-130			

Calibration Check (EC61510-CCV1)

Prepared: 03/15/06 Analyzed: 03/16/06

Carbon Ranges C6-C12	236		mg/kg	250		94.4	80-120			
Carbon Ranges C12-C28	278		"	250		111	80-120			
Total Hydrocarbon C6-C35	514		"	500		103	80-120			
Surrogate: 1-Chlorooctane	51.6		"	50.0		103	70-130			
Surrogate: 1-Chlorooctadecane	54.0		"	50.0		108	70-130			

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Reported:
03/17/06 10:29

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
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Batch EC61510 - Solvent Extraction (GC)

Matrix Spike (EC61510-MS1)

Source: 6C10007-01

Prepared & Analyzed: 03/15/06

Carbon Ranges C6-C12	601	10.0	mg/kg dry	569	7.89	104	75-125			
Carbon Ranges C12-C28	678	10.0	"	569	112	99.5	75-125			
Carbon Ranges C28-C35	10.9	10.0	"	0.00	17.7		75-125			
Total Hydrocarbon C6-C35	1280	10.0	"	1140	130	101	75-125			
Surrogate: 1-Chlorooctane	63.7		mg/kg	50.0		127	70-130			
Surrogate: 1-Chlorooctadecane	57.0		"	50.0		114	70-130			

Matrix Spike Dup (EC61510-MSD1)

Source: 6C10007-01

Prepared & Analyzed: 03/15/06

Carbon Ranges C6-C12	602	10.0	mg/kg dry	569	7.89	104	75-125	0.166	20	
Carbon Ranges C12-C28	680	10.0	"	569	112	99.8	75-125	0.295	20	
Carbon Ranges C28-C35	11.6	10.0	"	0.00	17.7		75-125	6.22	20	
Total Hydrocarbon C6-C35	1280	10.0	"	1140	130	101	75-125	0.00	20	
Surrogate: 1-Chlorooctane	60.1		mg/kg	50.0		120	70-130			
Surrogate: 1-Chlorooctadecane	57.3		"	50.0		115	70-130			

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03/17/06 10:29

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 EC61307 - General Preparation (Prep)

Blank (EC61307-BLK1)

Prepared: 03/10/06 Analyzed: 03/13/06

% Solids 100 %

Duplicate (EC61307-DUP1)

Source: 6C09018-01

Prepared: 03/10/06 Analyzed: 03/13/06

% Solids 86.3 % 86.1 0.232 20

Duplicate (EC61307-DUP2)

Source: 6C10007-06

Prepared: 03/10/06 Analyzed: 03/13/06

% Solids 95.8 % 96.5 0.728 20

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Reported:
03/17/06 10:29

Notes and Definitions

S-04 The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.

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

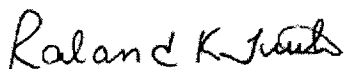
RPD Relative Percent Difference

LCS Laboratory Control Spike

MS Matrix Spike

Dup Duplicate

Report Approved By:



Date:

3/17/2006

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.

This material is intended only for the use of the individual (s) or entity to whom it is addressed, and may contain information that is privileged and confidential.

If you have received this material in error, please notify us immediately at 432-563-1800.

Environmental Lab of Texas

12600 West I-20 East
Odessa, Texas 79765

Phone: 432-563-1800
Fax: 432-563-1713

770-3825

Project Manager: MARK MEDOVS
Cecille Reynolds

Company Name Amey Plano P/L

Company Address:

City/State/Zip: midvale, UT TX

Telephone No: _____

Fax No: _____

Sampler Signature:

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

Project Name: Livingston Ridge

Project #: PLA 06-2001

Project Loc: LEA COUNTRY

PO #: 2006-086

Camille Reynolds

2-22-60
2-22-60
3-15-60

Fax No:

Telephone No:

Sampler Signature:[illegible]

Environmental Lab of Texas

Variance / Corrective Action Report – Sample Log-In

Client: HMR & V

Date/Time: 3/10/06 12:15

Order #: 6010007

Initials: CK

Sample Receipt Checklist

Temperature of container/cooler?	Yes	No	30 C
Shipping container/cooler in good condition?	<input checked="" type="checkbox"/>	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?	<input checked="" type="checkbox"/>	No	
Sample Instructions complete on Chain of Custody?	<input checked="" type="checkbox"/>	No	
Chain of Custody signed when relinquished and received?	<input checked="" type="checkbox"/>	No	
Chain of custody agrees with sample label(s)	Yes	No	Donjar
Container labels legible and intact?	Yes	No	N/A
Sample Matrix and properties same as on chain of custody?	<input checked="" type="checkbox"/>	No	
Samples in proper container/bottle?	<input checked="" type="checkbox"/>	No	
Samples properly preserved?	<input checked="" type="checkbox"/>	No	
Sample bottles intact?	<input checked="" type="checkbox"/>	No	
Preservations documented on Chain of Custody?	<input checked="" type="checkbox"/>	No	
Containers documented on Chain of Custody?	<input checked="" type="checkbox"/>	No	
Sufficient sample amount for indicated test?	Yes	No	
All samples received within sufficient hold time?	Yes	No	
VOC samples have zero headspace?	<input checked="" type="checkbox"/>	No	Not Applicable

Other observations:

Variance Documentation:

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

Corrective Action Taken:

Appendix C:

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 11, 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 3112 West US Hwy 82, Lovington, NM 88260	Telephone No. 505-441-0965
Facility Name Livingston Ridge Station Tank 113038	Facility Type Crude Oil Station
Surface Owner Plains	Mineral Owner
Lease No.	

LOCATION OF RELEASE

Unit Letter D	Section 6	Township 21S	Range 32E	Feet from the	North/South Line	Feet from the	East/West Line	County Lea
------------------	--------------	-----------------	--------------	---------------	------------------	---------------	----------------	---------------

Latitude 32° 25' 36.5" Longitude 103° 43' 21.2"

NATURE OF RELEASE

Type of Release Crude oil	Volume of Release 10 barrels	Volume Recovered 5 barrels
Source of Release Tank overflow	Date and Hour of Occurrence 03/01/2006 @ 01:50	Date and Hour of Discovery 03/01/2006 @ 16:00
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? Pat Caperton	
By Whom? Camille Reynolds	Date and Hour 03/02/2006 @ 11:00	
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.* Float malfunction in tank resulted in overflow of tank. Crude oil overflowed tank-impacting soil inside firewall of station.		
Describe Area Affected and Cleanup Action Taken.* The impacted soil was excavated and stockpiled on plastic. Aerial extent of surface impact was approximately 1,575 ft ² .		

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: <i>Camille Reynolds</i>	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 <input type="checkbox"/>
Date: 03/03/2006	Phone: 505-441-0965	

* Attach Additional Sheets If Necessary