

1R - 132

REPORTS

DATE:

10-19-1996



ALLSTATE SERVICES

P.O. BOX 11322
MIDLAND, TEXAS 79702
OFFICE: (915) 682-3547
FAX: (915) 682-4182



October 19, 1996

DOCUMENTATION FOR PREPARATION OF C-103

Project: TNM 96-20
Location: Jal, New Mexico

In accordance with NMOCD Guidelines for Remediation of Leaks, Spills and Releases Part III. Site Assessment, Subtitle B Soil/Waste Characteristics, the initial assessment of soil contamination was determined after soil removal.

Segment 1. First One Third of Subject Site

From 6-19-96 through 9-10-96 excavation of the release was accomplished in stages. The origin of the release was located at the pipeline on the North and West end of the site and traveled adjacent to the lease road which is located to the North of the first one third of the contaminated material. This strip measured approximately 26' wide, 750' long and 8' in depth (See Map #1). As excavation was accomplished the resulting material was staged on the South side of the aperture.

Highly saturated soil was present at the surface to approximately 1-2 feet in depth. Unsaturated soil was encountered from this level to the bottom hole area where sampling indicated lower levels of constituents present (See Map #1 and Lab Results #1).

Segment 2. Second One Third of Site

After reaching the intersecting lease road at the North East corner of Segment 1. The contaminated material migrated toward the South following the bed of a seasonally dry tributary. At approximately 150' to the South the natural depression took a Westerly turn for approximately 100' then returned to a Southerly direction for about 450'-500' where it crossed over a small lease road and continued another 300' - 400' to a lease road intersection. This entire strip was also excavated to depths of approximately 8' and 15'-18' wide with material being staged on the perimeter to the West of the cavity. At this point the material ponded, spreading in a circular pattern measuring approximately 160' long by 94' wide. The area of ponding was excavated to approximately 11'-12' vertically and 160' X 94' horizontally. Material was staged on the Western and Northern perimeter.

An Environmental Company

SOLIDIFICATION, BIOREMEDIATION, LAND FARMING, SOIL SHREDDING

Saturated material was present in varying layers from 1' along the edges of the seasonally dry tributary to a depth to 4' in the ponding area. Unsaturated material was present below this layer. Excavation continued to depths where field screening and laboratory results indicated acceptable levels of constituents. See Maps #2, #3, & #4 along with Lab Results #2, #3, #3a, #4, #4a, & #4b.

At the time of sampling, the pond area was holding rain water therefore final sampling was not possible. Samples were collected and analyzed at the time of excavation, see Lab Results ?????

Segment 3. Last One Third of Site

The release crossed the lease road on the South East corner of the subject site and followed a seasonally dry tributary in a Easterly direction for approximately 600' to 650', then turned back South under a pasture fence for approximately 150' - 200' where it appeared to dissipate.

Excavation of this segment was also accomplished to depths of approximately 8' and a width of 15'-18'. Saturated material was present at varying depths from 1' to 3'. The soil was staged adjacent to the cavity on the South side and adjacent to the lease road on the North side. Unsaturated material was encountered below this layer. Excavation continued to depths where field screening and laboratory confirmatories indicated acceptable levels of constituents. See Maps #5, #6 & #7 along with Lab Results #5, #6, #7, #7a & #7b.

Conclusions

After the sampling event from September 16, 1996 through September 25, 1996 which produced the results referred to in the above documentation, there were six areas containing elevated concentrations of hydrocarbon constituents (other than the North sidewalls in Segment 1. associated with the lease road). These "hot spots" were excavated and sampled on September 30, 1996 with favorable results as enumerated on Lab Results #8 and accompanying Maps # 8, #8a, #8b & #8c.

It is noted that the excavated soil was sampled during the 9/16-25/96 period with results and locations depicted along with the appropriate Segments as above.

A monitor well was installed on August 13, 1996. The lithological data is included under separate cover along with this overview.

PROPOSED SOIL REMEDIATION PLAN

The site has been excavated to the extent practicable and the contaminated material placed on site. In accordance with the NMOCD Guidelines for Remediation of Leaks, Spills and Releases, Section VI A.2.b.iii Alternative Methods, Texas-New Mexico Pipeline proposes in-situ remediation utilizing dozers and backhoes to push the contaminated material from the stockpiles to begin the aeration process in order to reduce BTEX and TPH levels. As material is moved and aerated it shall be blended with cleaner soil to further reduce BTEX and TPH values.

Samples shall be collected from the treated soil to determine when recommended soil remediation action levels have been reached. Laboratory confirmatory samples will follow.

When appropriate levels are established, the remediated soil will be placed back into the original excavated area and the site shall be dressed and contoured to the existing typography.

Prepared by: K.C. Offield, Allstate Services Environmental

TNN 96-20 Sampling Sketch Map #1

BH = btm Hole
SW = Side walls
NSW = North sidewall
SSW = South sidewall

Date: Sept 16, 1996
SSV KEO

BH - 3-4 Aliquots / 50' ft - composited
SW - 7-8 Aliquots / 100' ft. Each side - composited

- = Approx 50 ft.

Pipeline

Origin of Release

LAB # 960916 - BH-1

216'

SW-1 (Comp both sides)

Lease Road



POOR 25427

POOR 25427

Lease Road

BH-2	NSW-2	SSW-2
BH-3	NSW-3	SSW-3
BH-4	NSW-4	SSW-4
BH-5	NSW-5	SSW-5
BH-6	NSW-6	SSW-6
BH-7	NSW-7	SSW-7
BH-8	NSW-8	SSW-8
BH-9	NSW-9	SSW-9
BH-10	NSW-10	SSW-10
BH-11	NSW-11	SSW-11
BH-12	NSW-12	SSW-12
BH-13	NSW-13	SSW-13
BH-14	NSW-14	SSW-14
BH-15	NSW-15	SSW-15

2

ENVIRONMENTAL LAB OF , INC.

Lab Results #1

"Don't Treat Your Soil Like Dirt!"

TEXAS NEW MEXICO PIPE LINE COMPANY

MR. TONY SAVOIE

P.O. BOX 1030

JAL., NM 88252

FAX: 505-395-2636

Receiving Date: 09/16/96

Sample Type: SOIL

Project: TNM 96-20

Project Location: JAL., NM

Analysis Date: 09/17/96

Sampling Date: 09/16/96

Sample Condition: Intact/Iced

ELTW	FIELD CODE	BENZENE (mg/Kg)	TOLUENE (mg/Kg)	ETHYLBENZENE (mg/Kg)	m,p-XYLENE (mg/Kg)	o-XYLENE (mg/Kg)	TPH (mg/kg)
8768	960916-BH1	<0.100	0.283	0.288	0.628	0.232	1,450
8769	960916-BH3	<0.100	1.407	0.928	8.009	4.232	4,600
8770	960916-BH2	<0.100	0.149	0.265	0.545	0.216	1,270
8771	960916-BH4	<0.100	<0.100	<0.100	0.631	0.154	1,510
8772	960916-BH5	<0.100	0.342	0.103	0.392	0.373	580
8773	960916-BH6	<0.100	0.235	<0.100	0.198	0.178	220
8774	960916-BH7	<0.100	0.243	<0.100	0.266	0.223	360
8775	960916-BH8	<0.100	0.228	<0.100	0.242	0.128	210
8776	960916-BH9	<0.100	0.362	<0.100	0.299	0.101	540
8777	960916-BH10	<0.100	0.192	<0.100	0.234	<0.100	360
8778	960916-BH11	<0.100	0.170	<0.100	0.291	0.124	70
8779	960916-SW1	<0.100	1.085	0.641	2.791	1.399	7,000
8780	960916-NSW2	<0.100	1.526	1.598	7.009	3.137	3,410
8781	960916-NSW3	<0.100	2.897	3.421	10.058	4.538	7,190
8782	960916-NSW4	<0.100	0.311	0.582	0.598	0.182	130
8783	960916-SSW2	<0.100	0.131	<0.100	0.500	0.344	110
8784	960916-SSW3	<0.100	0.210	<0.100	0.228	<0.100	<10
8785	960916-SSW4	<0.100	<0.100	<0.100	0.217	<0.100	<10
8786	960916-SSW5	<0.100	<0.100	<0.100	0.212	<0.100	<10
8787	960916-SSW6	<0.100	0.108	<0.100	0.204	<0.100	<10
8788	960916-SSW7	<0.100	<0.100	<0.100	0.198	<0.100	60
8789	960916-NSW8	<0.100	<0.100	<0.100	0.198	<0.100	250
8790	960916-12	<0.100	<0.100	<0.100	0.197	<0.100	10
8791	960916-13	<0.100	0.104	<0.100	0.236	<0.100	290
8792	960916-14	<0.100	<0.100	<0.100	0.161	<0.100	640
8793	960916-15	<0.100	<0.100	<0.100	0.205	<0.100	130
8794	960916-NSW5	<0.100	0.107	<0.100	0.241	0.212	4,800
8795	960916-NSW6	<0.100	0.268	0.228	1.024	0.558	7,620
8796	960916-NSW7	<0.100	0.106	0.288	0.658	0.353	4,150
8797	960916-SSW8	<0.100	<0.100	0.125	0.351	0.113	390

% IA	113	97	96	91	90	100
% EA	111	95	88	85	87	88
BLANK	<0.001	<0.001	<0.001	<0.001	<0.001	<10

METHODS: SW 846-6020, 5030, EPA 418.1


Michael R. Fowler

9-17-96
Date

Environmental Lab of Texas, Inc. 12600 West 1-20 East Odessa, Texas 79763

CHAIN-OF-CUSTODY RECORD AND ANALYSIS REQUEST

Phone #: 915/682-3546
FAX #: 915/682-4182

Project Manager: *Handy*

Company Name & Address: ALLSTATE SERVICES ENVIRONMENTAL, MIDLAND, TEXAS

Project Name: *TMM 96-20*

Project #: *96-20*

Project Location: *Ad, NH*

Sampling Signature: *[Signature]*

LAB # (LAB USE ONLY)	FIELD CODE	# CONTAINERS	Volume/Amount	MATRIX					PRESERVATIVE METHOD	DATE	TIME	SAMPLING
				WATER	SOIL	AIR	SLUDGE	OTHER				
8768	960916-BH1			✓						9/16	10:40	✓
8769	960916-BH23			✓						9/16	10:49	✓
8770	960916-BH22			✓						9/16	10:42	✓
8771	960916-BH4			✓						9/16	10:52	✓
8772	960916-BH5			✓						9/16	10:54	✓
8773	960916-BH6			✓						9/16	11:03	✓
8774	960916-BH7			✓						9/16	11:06	✓
8775	960916-BH8			✓						9/16	11:14	✓
8776	960916-BH9			✓						9/16	11:15	✓
8777	960916-BH10			✓						9/16	11:46	✓
8778	960916-BH11			✓						9/16	11:47	✓

REMARKS

ANALYSIS REQUEST

Relinquished by: <i>[Signature]</i>	Date: 9-16-96	Time: 2:41 PM	Received by: <i>Mike Funder</i>
Relinquished by: <i>[Signature]</i>	Date:	Time:	Received by:
Relinquished by: <i>[Signature]</i>	Date:	Time:	Received by:

Environmental Lab of Texas, Inc. 12600 West I-20 East Odessa, Texas 79763

(915) 563-1800 FAX (915) 563-1713

CHAIN-OF-CUSTODY RECORD AND ANALYSIS REQUEST

Project Manager:

Phone #: 915/682-3546

FAX #: 915/682-4182

ANALYSIS REQUEST

Company Name & Address:

ALLSTATE SERVICES ENVIRONMENTAL, MIDLAND, TEXAS

Project #:

Project Name:

916-20

Project Location:

JAI NM

Sample Signature:

[Signature]

LAB # (LAB USE ONLY)	FIELD CODE	# CONTAINERS	Volume/Amount	MATRIX						PRESERVATIVE METHOD					SAMPLING		
				WATER	SOIL	AIR	SLUDGE	OTHER	HCL	HNO3	ICE	NONE	OTHER	DATE	TIME		
8181	9160916 - SW1			X												9-16-96 10:40	
8182	9160916 - NSW2			X												9-16-96 10:45	
8183	9160916 - NSW3			X												9-16-96 11:00	
8184	9160916 - NSW4			X												9-16-96 11:10	
8185	9160916 - SSW2			X												9-16-96 10:50	
8186	9160916 - SSW3			X												9-16-96 11:05	
8187	9160916 - SSW4			X												9-16-96 11:12	
8188	9160916 - SSW5			X												9-16-96 11:20	
8189	9160916 - SSW6			X												9-16-96 11:55	
8190	9160916 - SSW7			X												9-16-96 12:05	
8191	9160916 - SSW8			X												9-16-96 12:08	

BTEX 8020/5030																	
TPH 418.1																	
TCLP Metals Ag As Ba Cd Cr Pb Hg Se																	
Total Metals Ag As Ba Cd Cr Pb Hg Se																	
TCLP Volatiles																	
TCLP Semi Volatiles																	
TDS																	
RCI																	

Relinquished by:

Date:

Times:

Received by:

REMARKS

Relinquished by:

Date:

Times:

Received by:

Relinquished by:

Date:

Times:

Received by Laboratory:

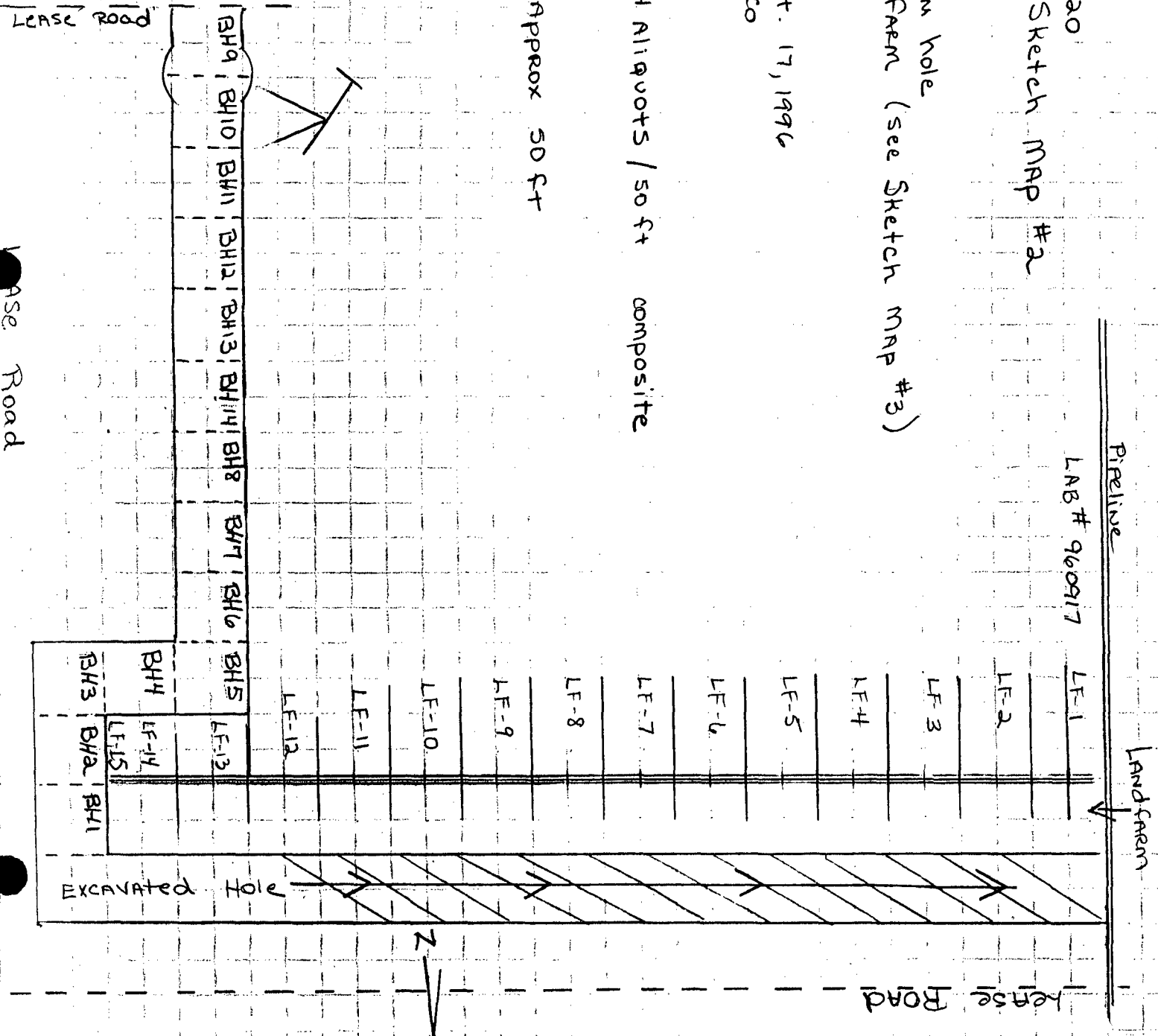
TNM-96-20 Sampling Sketch Map #2

BH = bottom hole
LF = landfill (see Sketch Map #3)

Date: Sept. 17, 1996
SSV KCO

BH - 3-4 Aliquots / 50 ft composite

 = Approx 50 ft



LAB RESULTS #2

ENVIRONMENTAL LAB OF , INC.

"Don't Treat Your Soil Like Dirt!"

TEXAS NEW MEXICO PIPE LINE COMPANY
MR. TONY SAVOIE
P.O. BOX 1030
JAL, NM 88252
FAX: 505-395-2638

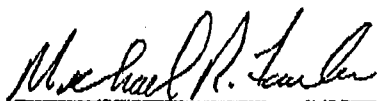
Receiving Date: 09/17/96
Sample Type: SOIL
Project: TNM 96-20
Project Location: JAL, NM

Analysis Date: 09/17/96
Sampling Date: 09/17/96
Sample Condition: Intact/Iced

ELT#	FIELD CODE	BENZENE (mg/Kg)	TOLUENE (mg/Kg)	ETHYLBENZENE (mg/Kg)	m,p-XYLENE (mg/Kg)	o-XYLENE (mg/Kg)	TPH (mg/kg)
8802	960917-BH1	<0.100	0.117	<0.100	0.204	0.240	110
8803	960917-BH2	<0.100	0.118	<0.100	0.230	<0.100	50
8804	960917-BH3	<0.100	0.102	<0.100	0.213	<0.100	140
8805	960917-BH4	<0.100	0.215	<0.100	0.212	0.111	120
8806	960917-BH5	<0.100	0.155	<0.100	0.118	<0.100	150
8807	960917-BH6	<0.100	0.117	<0.100	0.211	<0.100	730
8808	960917-BH7	<0.100	0.117	<0.100	0.200	<0.100	370
8809	960917-BH8	<0.100	0.102	<0.100	0.270	<0.100	1,410
8810	960917-BH9	<0.100	<0.100	<0.100	<0.100	<0.100	80
8811	960917-BH10	<0.100	0.115	<0.100	0.184	<0.100	540
8812	960917-BH11	<0.100	0.238	0.184	0.508	0.598	1,040
8813	960917-BH12	<0.100	<0.100	<0.100	<0.100	<0.100	880
8814	960917-BH13	<0.100	0.139	<0.100	0.285	0.155	1,180
8815	960917-BH14	<0.100	<0.100	<0.100	<0.100	<0.100	780
8816	960917-LF1	<0.100	0.123	<0.100	0.521	0.470	3,430
8817	960917-LF2	<0.100	<0.100	<0.100	0.139	0.158	1,310
8818	960917-LF3	<0.100	<0.100	<0.100	<0.100	<0.100	1,610
8819	960917-LF4	<0.100	<0.100	<0.100	<0.100	<0.100	140

% IA	102	89	86	82	82	102
% EA	107	96	90	89	88	87
BLANK	<0.001	<0.001	<0.001	<0.001	<0.001	<10

METHODS: SW 846-8020,5030 , EPA 418.1


Michael R. Fowler

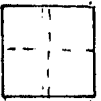
7-20-96
Date

TMM 96-20 Sampling Sketch Map #3

LF = Land farm
SW = Sidewalls

Date: Sept. 17, 1996
SSV KCO

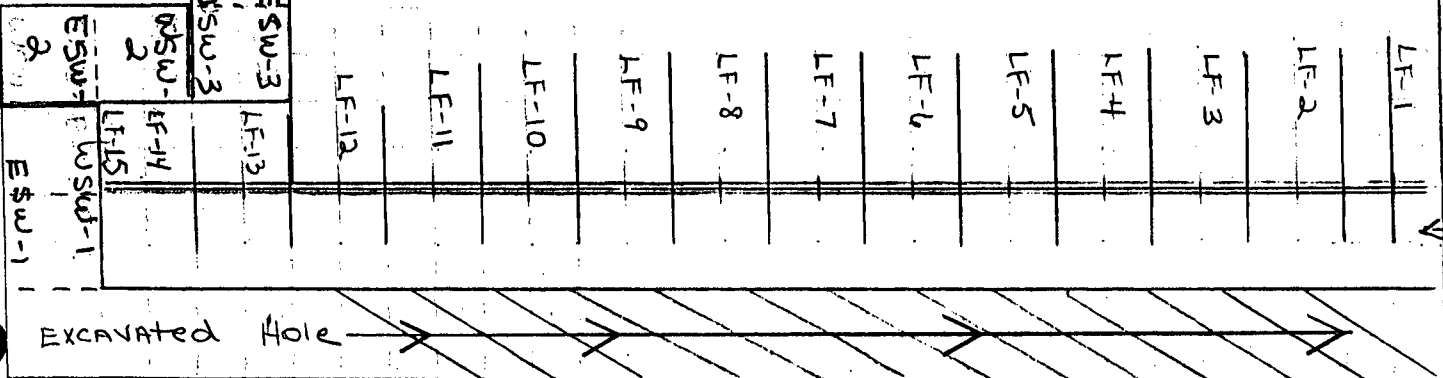
LF - 5 aliquots / 50 ft. composite
SW - 7-8 aliquots / 100 ft. composite

 = APPROX 50 ft.

LEASE ROAD

Lease Road

Pipeline
LAB # 960917



ENVIRONMENTAL LAB OF , INC.

"Don't Treat Your Soil Like Dirt!"

LAB RESULTS #3

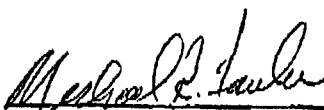
TEXAS NEW MEXICO PIPE LINE COMPANY
MR. TONY SAVOIE
P.O. BOX 1030
JAL, NM 88252
FAX: 505-395-2636

Receiving Date: 09/17/96
Sample Type: SOIL
Project: TNM 96-20
Project Location: JAL, NM

Analysis Date: 09/18/96
Sampling Date: 09/17/96
Sample Condition: Intact/Iced

ELT#	FIELD CODE	BENZENE (mg/Kg)	TOLUENE (mg/Kg)	ETHYLBENZENE (mg/Kg)	m,p-XYLENE (mg/Kg)	o-XYLENE (mg/Kg)	TPH (mg/Kg)
8820	960917-LF5	<0.100	0.183	<0.100	0.368	0.230	5,690
8821	960917-LF6	<0.100	<0.100	0.112	0.118	0.268	1,250
8822	960917-LF7	<0.100	<0.100	<0.100	<0.100	<0.100	310
8823	960917-LF8	<0.100	<0.100	<0.100	<0.100	<0.100	640
8824	960917-ESW1	<0.100	<0.100	<0.100	<0.100	<0.100	160
8825	960917-WSW1	<0.100	<0.100	<0.100	<0.100	<0.100	<10 *
8826	960917-ESW2	<0.100	<0.100	<0.100	<0.100	<0.100	130
8827	960917-WSW2	<0.100	<0.100	<0.100	<0.100	<0.100	10
8828	960917-SESW3	<0.100	<0.100	<0.100	<0.100	<0.100	200
8829	960917-NWSW3	<0.100	<0.100	<0.100	<0.100	<0.100	10
8830	960917-ESW4	<0.100	<0.100	<0.100	0.164	<0.100	<10
8831	960917-WSW4	<0.100	<0.100	<0.100	0.150	<0.100	1,610
8832	960917-ESW5	<0.100	<0.100	<0.100	0.236	0.101	40
8833	960917-WSW5	0.260	<0.100	<0.100	0.162	<0.100	<10
8834	960917-ESW6	<0.100	<0.100	<0.100	0.179	<0.100	100
8835	960917-LF9	<0.100	<0.100	0.108	0.414	0.199	1,370
8836	960917-LF10	<0.100	<0.100	<0.100	0.174	<0.100	510
8837	960917-LF11	<0.100	0.185	0.148	0.414	0.196	2,470
8838	960917-LF12	<0.100	<0.100	<0.100	<0.100	<0.100	910
8839	960917-LF13	<0.100	0.229	0.205	0.360	0.105	1,150
8840	960917-LF14	<0.100	0.626	0.372	1.614	1.061	6,270
8841	960917-LF15	<0.100	<0.100	<0.100	<0.100	<0.100	170
8842	960917-WSW6	<0.100	<0.100	<0.100	<0.100	<0.100	10
8843	960917-ESW7	<0.100	<0.100	<0.100	<0.100	<0.100	40
8844	960917-WSW7	<0.100	<0.100	<0.100	<0.100	<0.100	10
% IA		108	92	88	83	84	101
% EA		113	95	88	85	84	87
BLANK		<0.001	<0.001	<0.001	<0.001	<0.001	<10

METHODS: SW 846-8020, 5030, EPA 418.1


Michael R. Fowler

9-20-96
Date

LAB RESULTS: #3a

ENVIRONMENTAL LAB OF , INC.

"Don't Treat Your Soil Like Dirt!"

TEXAS NEW MEXICO PIPE LINE COMPANY
MR. TONY SAVOIE
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FAX: 505-395-2638

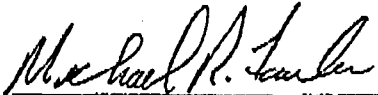
Receiving Date: 09/17/96
Sample Type: SOIL
Project: TNM 96-20
Project Location: JAL, NM

Analysis Date: 09/17/96
Sampling Date: 09/17/96
Sample Condition: Intact/Iced

ELT#	FIELD CODE	BENZENE (mg/Kg)	TOLUENE (mg/Kg)	ETHYLBENZENE (mg/Kg)	m,p-XYLENE (mg/Kg)	o-XYLENE (mg/Kg)	TPH (mg/kg)
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8808	960917-BH7	<0.100	0.117	<0.100	0.200	<0.100	370
8809	960917-BH8	<0.100	0.102	<0.100	0.270	<0.100	1,410
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8812	960917-BH11	<0.100	0.238	0.184	0.508	0.598	1,040
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8815	960917-BH14	<0.100	<0.100	<0.100	<0.100	<0.100	780
8816	960917-LF1	<0.100	0.123	<0.100	0.521	0.470	3,430
8817	960917-LF2	<0.100	<0.100	<0.100	0.139	0.158	1,310
8818	960917-LF3	<0.100	<0.100	<0.100	<0.100	<0.100	1,610
8819	960917-LF4	<0.100	<0.100	<0.100	<0.100	<0.100	140

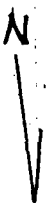
% IA	102	89	86	82	82	102
% EA	107	96	90	89	88	87
BLANK	<0.001	<0.001	<0.001	<0.001	<0.001	<10

METHODS: SW 846-8020,5030 , EPA 418.1


Michael R. Fowler

9-20-96
Date

TNM-96-20
Sampling Sketch Map #4



Date: Sept. 20, 1996

C4 LFB = Landfarm
BH = Bottom hole
SW = Sidewalls

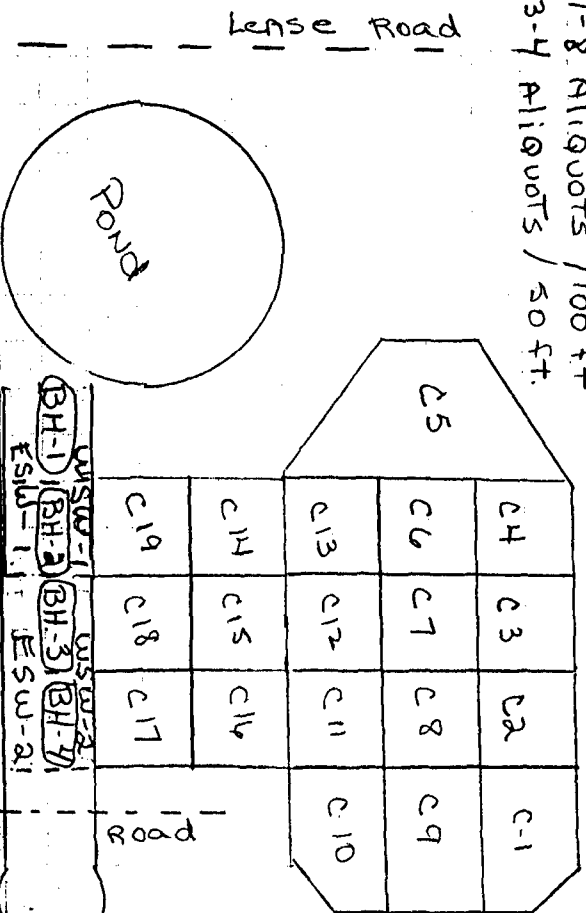
All Composites



= Approx 50 ft

Landfarm - 5 Aliquots / 50 sq ft
SW - 7-8 Aliquots / 100 ft
BH - 3-4 Aliquots / 50 ft.

LAB # 960920-



LFB	LFB	LFB	LFB
8	7	6	5

LFB	LFB	LFB
4	3	2

ENVIRONMENTAL LAB OF , INC.

LAB RESULTS #4

"Don't Treat Your Soil Like Dirt!"

TEXAS NEW MEXICO PIPE LINE COMPANY
MR. TONY SAVOIE
P.O. BOX 1030
JAL, NM 88252
FAX: 505-395-2636

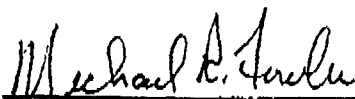
Receiving Date: 09/20/96
Sample Type: SOIL
Project: TNM 96-20
Project Location: JAL, NM

Analysis Date: 09/25/96
Sampling Date: 09/20/96
Sample Condition: Intact/Iced

ELT#	FIELD CODE	BENZENE (mg/Kg)	TOLUENE (mg/Kg)	ETHYLBENZENE (mg/Kg)	m,p-XYLENE (mg/Kg)	o-XYLENE (mg/Kg)	TPH (mg/Kg)
map #4 {	8931 960920-LFB1	<0.100	<0.100	<0.100	0.417	0.382	3,520
	8932 960920-LFB2	<0.100	<0.100	<0.100	<0.100	<0.100	500
	8933 960920-LFB3	<0.100	<0.100	<0.100	<0.100	<0.100	2,930
	8934 960920-LFB4	<0.100	<0.100	<0.100	<0.100	<0.100	240
	8935 960920-LFB5	<0.100	<0.100	<0.100	<0.100	<0.100	3,820
	8936 960920-LFB6	<0.100	<0.100	<0.100	0.285	0.281	5,210
	8937 960920-LFB7	<0.100	<0.100	<0.100	<0.100	<0.100	6,520
	8938 960920-LFB8	<0.100	<0.100	<0.100	<0.100	<0.100	30

% IA	109	97	92	88	88	101
% EA	114	101	96	94	92	81
BLANK	<0.001	<0.001	<0.001	<0.001	<0.001	<10

METHODS: SW 846-8020,5030 , EPA 418.1


Michael R. Fowler

9-26-96
Date

ENVIRONMENTAL

LAB OF , INC.

LAB RESULTS #4a

"Don't Treat Your Soil Like Dirt!"

TEXAS NEW MEXICO PIPE LINE COMPANY

MR. TONY SAVOIE

P.O. BOX 1030

JAL, NM 88252

FAX: 505-395-2636

Receiving Date: 09/20/96

Sample Type: SOIL

Project: TNM 86-20

Project Location: JAL, NM

Analysis Date: 09/23-9/25/96

Sampling Date: 09/20/96

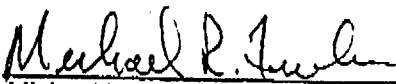
Sample Condition: Intact/Iced

map #4

ELTW	FIELD CODE	BENZENE (mg/Kg)	TOLUENE (mg/Kg)	ETHYLBENZENE (mg/Kg)	m,p-XYLENE (mg/Kg)	o-XYLENE (mg/Kg)	TPH (mg/Kg)
8912	960920-C1	<0.100	0.108	0.137	0.888	0.679	6,780
8913	960920-C2	<0.100	0.107	0.128	0.480	0.808	7,570
8914	960920-C3	<0.100	0.167	0.816	0.748	1.142	7,460
8915	960920-C4	0.109	<0.100	0.539	0.409	0.957	7,390
8916	960920-C5	0.210	0.782	0.271	2.280	2.200	11,200
8917	960920-C6	<0.100	0.248	0.153	1.340	0.982	11,800
8918	960920-C7	<0.100	<0.100	<0.100	<0.100	<0.100	5,210
8919	960920-C8	<0.100	<0.100	<0.100	<0.100	<0.100	6,110
8920	960920-C9	<0.100	<0.100	<0.100	0.142	<0.100	4,830
8921	960920-C10	<0.100	<0.100	<0.100	<0.100	0.142	3,680
8922	960920-C11	<0.100	<0.100	<0.100	<0.100	<0.100	6,220
8923	960920-C12	<0.100	<0.100	<0.100	0.131	<0.100	5,690
8924	960920-C13	<0.100	0.449	0.347	1.603	1.423	13,100
8925	960920-C14	<0.100	<0.100	<0.100	<0.100	<0.100	1,760
8926	960920-C15	<0.100	<0.100	<0.100	<0.100	<0.100	4,570
8927	960920-C16	<0.100	<0.100	<0.100	<0.100	<0.100	5,660
8928	960920-C17	<0.100	<0.100	<0.100	<0.100	<0.100	2,580
8929	960920-C18	<0.100	<0.100	<0.100	<0.100	<0.100	1,630
8930	960920-C19	<0.100	<0.100	<0.100	<0.100	<0.100	1,380

% IA	96	87	85	99	91	101
% EA	110	96	92	88	88	81
BLANK	<0.001	<0.001	<0.001	<0.001	<0.001	<10

METHODS: SW 846-8020,5030 , EPA 418.1


Michael R. Fowler

9-26-96
Date

ENVIRONMENTAL LAB OF , INC.

LAB RESULTS #4b

"Don't Treat Your Soil Like Dirt!"

TEXAS NEW MEXICO PIPE LINE COMPANY
MR. TONY SAVOIE
P.O. BOX 1030
JAL, NM 88252
FAX: 505-395-2636

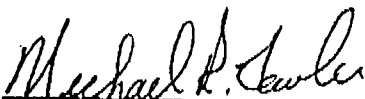
Receiving Date: 09/20/96
Sample Type: SOIL
Project: TNM 96-20
Project Location: JAL, NM

Analysis Date: 09/21/96
Sampling Date: 09/20/96
Sample Condition: Intact/Iced

ELT#	FIELD CODE	BENZENE (mg/Kg)	TOLUENE (mg/Kg)	ETHYLBENZENE (mg/Kg)	m,p-XYLENE (mg/Kg)	o-XYLENE (mg/Kg)	TPH (mg/kg)
MAP #4	8874 960920-BH1	<0.100	<0.100	<0.100	<0.100	<0.100	190
	8875 960920-BH2	<0.100	<0.100	<0.100	<0.100	<0.100	<10
	8876 960920-BH3	<0.100	<0.100	<0.100	0.122	<0.100	230
	8877 960920-BH4	<0.100	<0.100	<0.100	<0.100	<0.100	610
MAP #5	8878 960920-BH5	<0.100	<0.100	<0.100	<0.100	<0.100	260
	8879 960920-BH6	<0.100	<0.100	<0.100	<0.100	<0.100	310
	8880 960920-BH7	<0.100	<0.100	<0.100	<0.100	<0.100	2,670
	8881 960920-BH8	<0.100	<0.100	<0.100	0.158	<0.100	3,350
	8882 960920-BH9	<0.100	<0.100	<0.100	0.142	<0.100	3,680
	8883 960920-BH10	<0.100	1.742	5.350	16.060	6.675	11,000
	8884 960920-BH11	<0.100	0.130	<0.100	<0.100	<0.100	1,550
	8885 960920-BH12	<0.100	0.259	0.100	0.341	0.248	1,130
	8886 960920-BH13	0.202	0.143	0.134	0.417	0.251	1,290
	8887 960920-BH14	<0.100	<0.100	<0.100	0.369	0.361	4,230
	8888 960920-BH15	<0.100	<0.100	0.129	0.447	0.127	1,370
	8889 960920-BH16	<0.100	<0.100	<0.100	<0.100	<0.100	130
	8890 960920-BH17	2.218	58.660	42.840	104.400	36.630	32,900
	8891 960920-BH18	<0.100	<0.100	<0.100	<0.100	<0.100	110

% IA	131	113	107	102	102	103
% EA	132	117	112	109	108	83
BLANK	<0.001	<0.001	<0.001	<0.001	<0.001	<10

METHODS: SW 846-8020,5030 , EPA 418.1


Michael R. Fowler

9-26-96
Date

TNM 96-20
Sampling Sketch Map #5

Date: Sept. 20, 1996

All Composites

BH = Bottom Hole - 3-4 Aliquots / 50 ft.

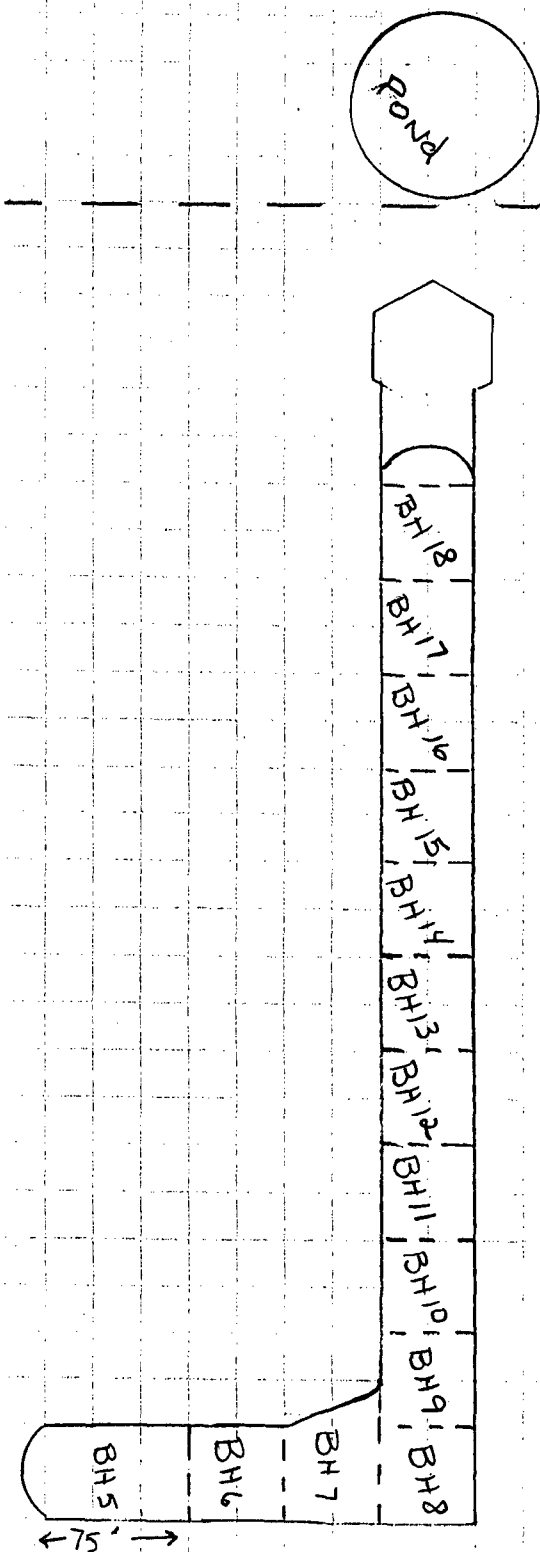
☐ = Approx 50 ft

N

Lease Road

Lease Road

LAB. # 960920 -



ENVIRONMENTAL LAB OF , INC.

LAB RESULTS #5

"Don't Treat Your Soil Like Dirt!"

TEXAS NEW MEXICO PIPE LINE COMPANY
MR. TONY SAVOIE
P.O. BOX 1030
JAL, NM 88252
FAX: 505-395-2636

Receiving Date: 09/20/96
Sample Type: SOIL
Project: TNM 96-20
Project Location: JAL, NM

Analysis Date: 09/21/96
Sampling Date: 09/20/96
Sample Condition: Intact/Iced

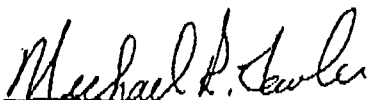
SEE MAP
#4

MAP #5

ELT#	FIELD CODE	BENZENE (mg/Kg)	TOLUENE (mg/Kg)	ETHYLBENZENE (mg/Kg)	m,p-XYLENE (mg/Kg)	o-XYLENE (mg/Kg)	TPH (mg/kg)
8874	960920-BH1	<0.100	<0.100	<0.100	<0.100	<0.100	190
8875	960920-BH2	<0.100	<0.100	<0.100	<0.100	<0.100	<10
8876	960920-BH3	<0.100	<0.100	<0.100	0.122	<0.100	230
8877	960920-BH4	<0.100	<0.100	<0.100	<0.100	<0.100	610
8878	960920-BH5	<0.100	<0.100	<0.100	<0.100	<0.100	260
8879	960920-BH6	<0.100	<0.100	<0.100	<0.100	<0.100	310
8880	960920-BH7	<0.100	<0.100	<0.100	<0.100	<0.100	2,670
8881	960920-BH8	<0.100	<0.100	<0.100	0.158	<0.100	3,350
8882	960920-BH9	<0.100	<0.100	<0.100	0.142	<0.100	3,680
8883	960920-BH10	<0.100	1.742	5.350	16.060	6.675	11,000
8884	960920-BH11	<0.100	0.130	<0.100	<0.100	<0.100	1,550
8885	960920-BH12	<0.100	0.259	0.100	0.341	0.248	1,130
8886	960920-BH13	0.202	0.143	0.134	0.417	0.251	1,290
8887	960920-BH14	<0.100	<0.100	<0.100	0.369	0.361	4,230
8888	960920-BH15	<0.100	<0.100	0.129	0.447	0.127	1,370
8889	960920-BH16	<0.100	<0.100	<0.100	<0.100	<0.100	130
8890	960920-BH17	2.218	58.660	42.840	104.400	36.630	32,900
8891	960920-BH18	<0.100	<0.100	<0.100	<0.100	<0.100	110

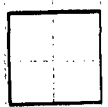
% IA	131	113	107	102	102	103
% EA	132	117	112	109	108	83
BLANK	<0.001	<0.001	<0.001	<0.001	<0.001	<10

METHODS: SW 846-8020,5030 , EPA 418.1


Michael R. Fowler

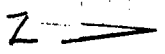
9-20-96
Date

TUM 96-20
Sampling Sketch Map #6

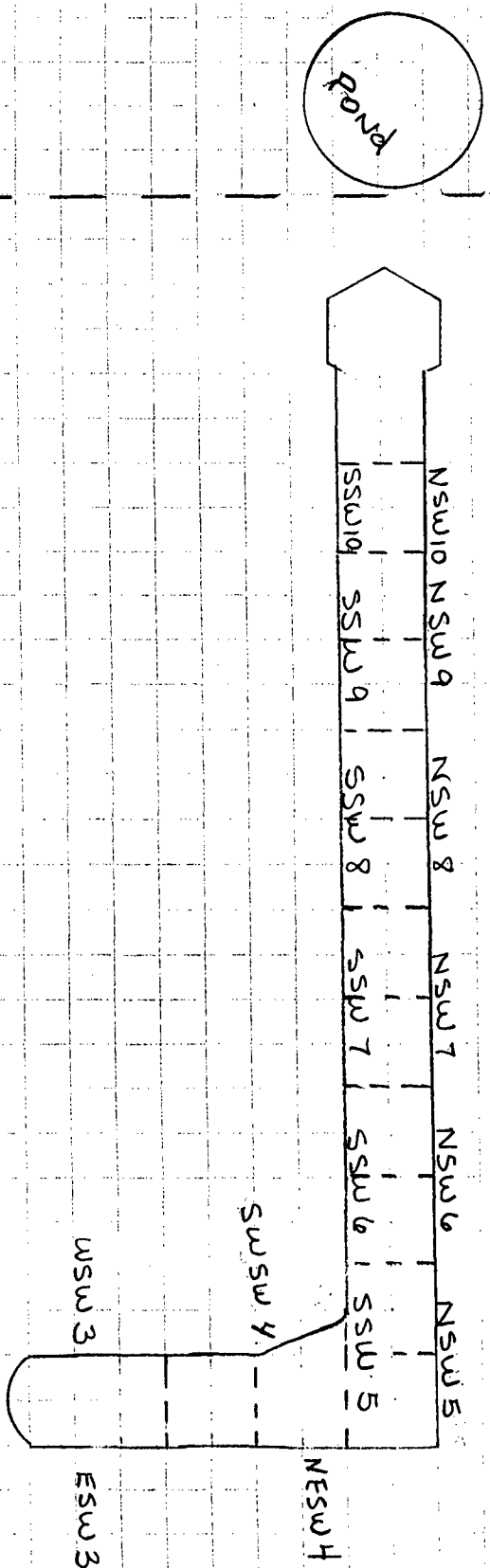
 = Approx
50 ft

Date: Sept 20, 1996

SW = Sidewalls - All composites
7-8 Aliquots / 100 ft



LAB # 960920 -



ENVIRONMENTAL LAB OF , INC.

LAB RESULTS #6

"Don't Treat Your Soil Like Dirt!"

TEXAS NEW MEXICO PIPE LINE COMPANY
MR. TONY SAVOIE
P.O. BOX 1030
JAL, NM 88252
FAX: 505-395-2636

Receiving Date: 09/20/96
Sample Type: SOIL
Project: TNM 96-20
Project Location: JAL, NM

Analysis Date: 09/23/96
Sampling Date: 09/20/96
Sample Condition: Intact/Iced

ELT#	FIELD CODE	BENZENE (mg/Kg)	TOLUENE (mg/Kg)	ETHYLBENZENE (mg/Kg)	m,p-XYLENE (mg/Kg)	o-XYLENE (mg/Kg)	TPH (mg/Kg)
8892	960920-WSW1	<0.100	<0.100	<0.100	<0.100	<0.100	110
8893	960920-ESW1	<0.100	2.474	3.244	9.889	3.878	5,550
8894	960920-WSW2	<0.100	<0.100	<0.100	<0.100	<0.100	490
8895	960920-ESW2	<0.100	<0.100	<0.100	<0.100	<0.100	330
8896	960920-ESW3	<0.100	<0.100	<0.100	<0.100	<0.100	60
8897	960920-WSW3	<0.100	<0.100	<0.100	0.137	0.277	370
8898	960920-NE5W4	<0.100	<0.100	<0.100	0.109	0.105	2,330
8899	960920-SWSW4	<0.100	<0.100	<0.100	<0.100	<0.100	130
8900	960920-NSW5	<0.100	<0.100	<0.100	<0.100	<0.100	430
8901	960920-SSW5	<0.100	0.132	0.112	0.746	0.781	5,280
8902	960920-NSW6	0.117	<0.100	0.716	0.298	0.137	800
8903	960920-SSW6	<0.100	<0.100	<0.100	0.792	0.244	2,390
8904	960920-NSW7	<0.100	0.174	0.197	0.412	0.375	3,350
8905	960920-SSW7	<0.100	0.146	0.164	1.233	0.925	5,150
8906	960920-NSW8	<0.100	<0.100	<0.100	0.420	0.286	2,980
8907	960920-SSW8	0.278	0.128	0.347	0.263	0.463	2,510
8908	960920-NSW9	<0.100	<0.100	0.695	0.585	0.190	210
8909	960920-SSW9	<0.100	<0.100	0.155	0.124	0.127	360
8910	960920-NSW10	0.246	0.135	1.174	0.840	1.248	40
8911	960920-SSW10	<0.100	<0.100	<0.100	<0.100	0.139	40
% IA		113	100	95	92	89	103
% EA		113	96	92	87	87	81
BLANK		<0.001	<0.001	<0.001	<0.001	<0.001	<10

METHODS: SW 846-8020,5030 , EPA 418.1


Michael R. Fowler

9-26-96
Date

N

TNM 96-20

LANDFARM Sampling
Sketch Map #7

DATE: Sept. 23, 1996

Composites - 5 Aliquots/soil

LAB # - Landfarm.

E1	E2	E3	E4	E5	E6	E7	E8
E9	E10	E11	E12	E13	E14	E15	E16
E17	E18	E19	E20	E21	E22	E23	E24
E25	E26	E27	E28	E29	E30	E31	E32

D1	D2	D3	D4	D5	D6	D7
D8	D9	D10	D11			

Pond

F1	F2	F3
F4	F5	F6
F7	F8	F9
F10	F11	F12

ENVIRONMENTAL LAB OF , INC.

"Don't Treat Your Soil Like Dirt!"

LAB RESULTS #7

Receiving Date: 09/23/96
Sample Type: SOIL
Project: TNM 96-20
Project Location: JAL. NM

TEXAS NEW MEXICO PIPE LINE COMPANY
MR. TONY SAVOIE
P.O. BOX 1030
JAL, NM 88252
FAX: 505-395-2636

Analysis Date: TPH 09/24/96
Analysis Date: BTEX 09/25/96
Sampling Date: NONE GIVEN
Sample Condition: Intact/loose

ELT#	FIELD CODE	BENZENE (mg/Kg)	TOLUENE (mg/Kg)	ETHYLBENZENE (mg/Kg)	m,p-XYLENE (mg/Kg)	o-XYLENE (mg/Kg)	TPH (mg/kg)
8969	LANDFARM D #1	<0.100	<0.100	<0.100	<0.100	<0.100	3,130
8970	LANDFARM D #2	<0.100	<0.100	<0.100	<0.100	0.140	2,240
8971	LANDFARM D #3	<0.100	<0.100	<0.100	<0.100	<0.100	1,280
8972	LANDFARM D #4	<0.100	<0.100	<0.100	0.260	<0.100	950
8973	LANDFARM D #5	<0.100	<0.100	<0.100	0.199	<0.100	4,640
8974	LANDFARM D #6	<0.100	<0.100	<0.100	<0.100	<0.100	2,500
8975	LANDFARM D #7	<0.100	<0.100	<0.100	<0.100	<0.100	3,810
8976	LANDFARM D #8	<0.100	<0.100	<0.100	<0.100	<0.100	1,080
8977	LANDFARM D #9	<0.100	<0.100	<0.100	<0.100	<0.100	830
8978	LANDFARM D #10	<0.100	<0.100	<0.100	<0.100	<0.100	6,130
8979	LANDFARM D #11	<0.100	0.134	<0.100	0.105	<0.100	5,980
8980	LANDFARM E #1	<0.100	<0.100	<0.100	<0.100	<0.100	460
8981	LANDFARM E #2	<0.100	<0.100	<0.100	<0.100	<0.100	210
8982	LANDFARM E #3	<0.100	<0.100	<0.100	<0.100	<0.100	350
8983	LANDFARM E #4	<0.100	<0.100	<0.100	<0.100	<0.100	1,780
8984	LANDFARM E #5	<0.100	<0.100	<0.100	<0.100	<0.100	2,770
8985	LANDFARM E #6	<0.100	<0.100	<0.100	<0.100	<0.100	3,130
8986	LANDFARM E #7	<0.100	<0.100	<0.100	<0.100	<0.100	20
8987	LANDFARM E #8	<0.100	<0.100	<0.100	<0.100	<0.100	460
8988	LANDFARM E #9	<0.100	0.114	0.125	0.273	<0.100	1,970
8989	LANDFARM E #10	<0.100	<0.100	<0.100	<0.100	<0.100	740
8990	LANDFARM E #11	<0.100	<0.100	<0.100	<0.100	<0.100	650
8991	LANDFARM E #12	<0.100	<0.100	<0.100	<0.100	<0.100	640
8992	LANDFARM E #13	<0.100	<0.100	<0.100	0.118	<0.100	2980
8993	LANDFARM E #14	<0.100	<0.100	<0.100	<0.100	<0.100	6150
8994	LANDFARM E #15	<0.100	<0.100	<0.100	<0.100	<0.100	5080
8995	LANDFARM E #16	<0.100	<0.100	<0.100	<0.100	<0.100	5040
	% IA	110	97	91	89	88	101
	% EA	108	100	95	93	91	101
	BLANK	<0.001	<0.001	<0.001	<0.001	<0.001	<10

MAP #7

METHODS: SW 846-8020,5030 , EPA 418.1

Michael R. Fowler

Michael R. Fowler

7-27-96

Date

ENVIRONMENTAL LAB OF , INC.

"Don't Treat Your Soil Like Dirt!"

TEXAS NEW MEXICO PIPE LINE COMPANY

MR. TONY SAVOIE

P.O. BOX 1030

JAL, NM 88252

FAX: 505-395-2636

Receiving Date: 09/23/96

Sample Type: SOIL

Project: TNM 96-20

Project Location: JAL, NM

Analysis Date: TPH 09/25/96

Analysis Date: BTEX 09/26/96

Sampling Date: NONE GIVEN

Sample Condition: Intact/Iced

ELT#	FIELD CODE	BENZENE (mg/Kg)	TOLUENE (mg/Kg)	ETHYLBENZENE (mg/Kg)	m,p-XYLENE (mg/Kg)	o-XYLENE (mg/Kg)	TPH (mg/kg)
8996	LANDFARM E #17	<0.100	<0.100	<0.100	<0.100	<0.100	3,560
8997	LANDFARM E #18	<0.100	<0.100	<0.100	<0.100	<0.100	5,060
8998	LANDFARM E #19	<0.100	<0.100	<0.100	<0.100	<0.100	1,730
8999	LANDFARM E #20	<0.100	<0.100	<0.100	<0.100	<0.100	3,730
9000	LANDFARM E #21	<0.100	<0.100	<0.100	<0.100	<0.100	2,520
9001	LANDFARM E #22	<0.100	<0.100	<0.100	<0.100	<0.100	4,920
9002	LANDFARM E #23	<0.100	<0.100	<0.100	<0.100	<0.100	3,500
9003	LANDFARM E #24	<0.100	<0.100	<0.100	<0.100	<0.100	7,790
9004	LANDFARM E #25	<0.100	<0.100	<0.100	<0.100	<0.100	120
9005	LANDFARM E #26	<0.100	<0.100	<0.100	<0.100	<0.100	3,830
9006	LANDFARM E #27	<0.100	<0.100	<0.100	<0.100	<0.100	150
9007	LANDFARM E #28	<0.100	<0.100	<0.100	<0.100	<0.100	3,170
9008	LANDFARM E #29	<0.100	<0.100	<0.100	<0.100	<0.100	970
9009	LANDFARM E #30	<0.100	<0.100	<0.100	<0.100	<0.100	3,320
9010	LANDFARM E #31	<0.100	<0.100	<0.100	<0.100	<0.100	1,650
9011	LANDFARM E #32	<0.100	<0.100	<0.100	<0.100	<0.100	40

MAP # 7

% IA	113	101	100	95	94	103
% EA	102	94	91	87	87	101
BLANK	<0.001	<0.001	<0.001	<0.001	<0.001	<10

METHODS: SW 846-8020,5030 , EPA 418.1

Michael R. Fowler

Michael R. Fowler

9-27-96

Date

ENVIRONMENTAL LAB OF , INC.

"Don't Treat Your Soil Like Dirt!"

LAB RESULTS #7b

Receiving Date: 09/23/96
Sample Type: SOIL
Project: TNM 96-20
Project Location: JAL, NM

TEXAS NEW MEXICO PIPE LINE COMPANY
MR. TONY SAVOIE
P.O. BOX 1030
JAL, NM 88252
FAX: 505-395-2638

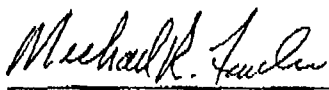
Analysis Date: TPH 09/25/96
Analysis Date: BTEX 09/27/96
Sampling Date: NONE GIVEN
Sample Condition: Intact/Iced

ELT#	FIELD CODE	BENZENE (mg/Kg)	TOLUENE (mg/Kg)	ETHYLBENZENE (mg/Kg)	m,p-XYLENE (mg/Kg)	o-XYLENE (mg/Kg)	TPH (mg/kg)
9012	LANDFARM F #1	<0.100	<0.100	<0.100	<0.100	<0.100	4,860
9013	LANDFARM F #2	<0.100	<0.100	<0.100	<0.100	<0.100	480
9014	LANDFARM F #3	<0.100	<0.100	<0.100	<0.100	<0.100	1,120
9015	LANDFARM F #4	<0.100	<0.100	<0.100	<0.100	<0.100	1,980
9016	LANDFARM F #5	<0.100	1.021	1.217	0.240	0.934	2,580
9017	LANDFARM F #6	<0.100	0.202	0.254	2.513	1.741	14,300
9018	LANDFARM F #7	<0.100	<0.100	<0.100	<0.100	<0.100	1,450
9019	LANDFARM F #8	<0.100	<0.100	<0.100	<0.100	<0.100	4,680
9020	LANDFARM F #9	<0.100	<0.100	<0.100	<0.100	<0.100	640
9021	LANDFARM F #10	<0.100	<0.100	<0.100	<0.100	<0.100	20
9022	LANDFARM F #11	<0.100	<0.100	<0.100	<0.100	<0.100	110
9023	LANDFARM F #12	<0.100	<0.100	<0.100	<0.100	<0.100	4,100

MAP #7

% IA	106	95	92	86	86	103
% EA	101	91	88	84	84	101
BLANK	<0.001	<0.001	<0.001	<0.001	<0.001	<10

METHODS: SW 846-8020,5030 . EPA 418.1


Michael R. Fowler

9-27-96
Date

ENVIRONMENTAL LAB OF , INC.

"Don't Treat Your Soil Like Dirt!"

LAB RESULTS #8

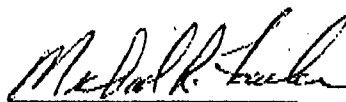
TEXAS NEW MEXICO PIPELINE CO.
MR. TONY SAVOIE
P.O. BOX 1030
JAL, NEW MEXICO 88252
FAX: 505-395-2636

RECEIVING DATE: 09/30/96
SAMPLE TYPE: SOIL
PROJECT #: ALLSTATE TNM 96-20
PROJECT NAME: TNM 96-20
PROJECT LOCATION: NONE GIVEN

ANALYSIS DATE: 09/30/96
SAMPLING DATE: 09/30/96
SAMPLE CONDITION: INTACT/ICED

ELT#	FIELD CODE	TPH (mg/kg)
9080	SW1-A 96-30	100
9081	ESW2-A 96-30	80
9082	SSW5-A 96-30	70
9083	SSW7-A 96-30	60
9084	BH10-A 96-30	70
9085	BH17-A 96-30	120
	QUALITY CONTROL	300
	TRUE VALUE	302
	% PRECISION	99

Methods: EPA 418.1


Michael R. Fowler

9-30-96
Date

TNN-96-20 Sampling Sketch Map #4



C4 LFB = Landfarm

BH = Bottom hole

SW = Sidewalls

Date: Sept. 20, 1996

All Composites

Landfarm - 5 Aliquots / 50 sq ft

SW - 7-8 Aliquots / 100 ft

BH - 3-4 Aliquots / 50 ft

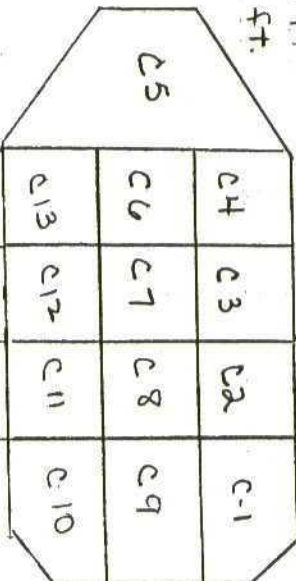
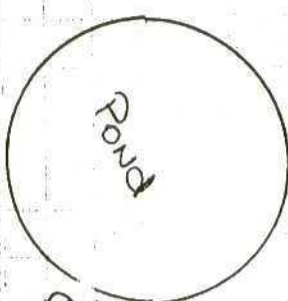


= Approx 50 ft

LAB # 960920-

= HOT SPOTS
Resampled

Lease Road



ESW-1 (BH-1) ESW-2 (BH-2) ESW-3 (BH-3) ESW-4 (BH-4) ESW-5 (BH-5) ESW-6 (BH-6) ESW-7 (BH-7) ESW-8 (BH-8) ESW-9 (BH-9) ESW-10 (BH-10) ESW-11 (BH-11) ESW-12 (BH-12) ESW-13 (BH-13) ESW-14 (BH-14) ESW-15 (BH-15) ESW-16 (BH-16) ESW-17 (BH-17) ESW-18 (BH-18) ESW-19 (BH-19) ESW-20 (BH-20)

ESW-2-A 96-30-lease Road

Excavated Hole

LFB	LFB	LFB	LFB
8	7	6	5

Tum 96-20
Sampling Sketch map #6

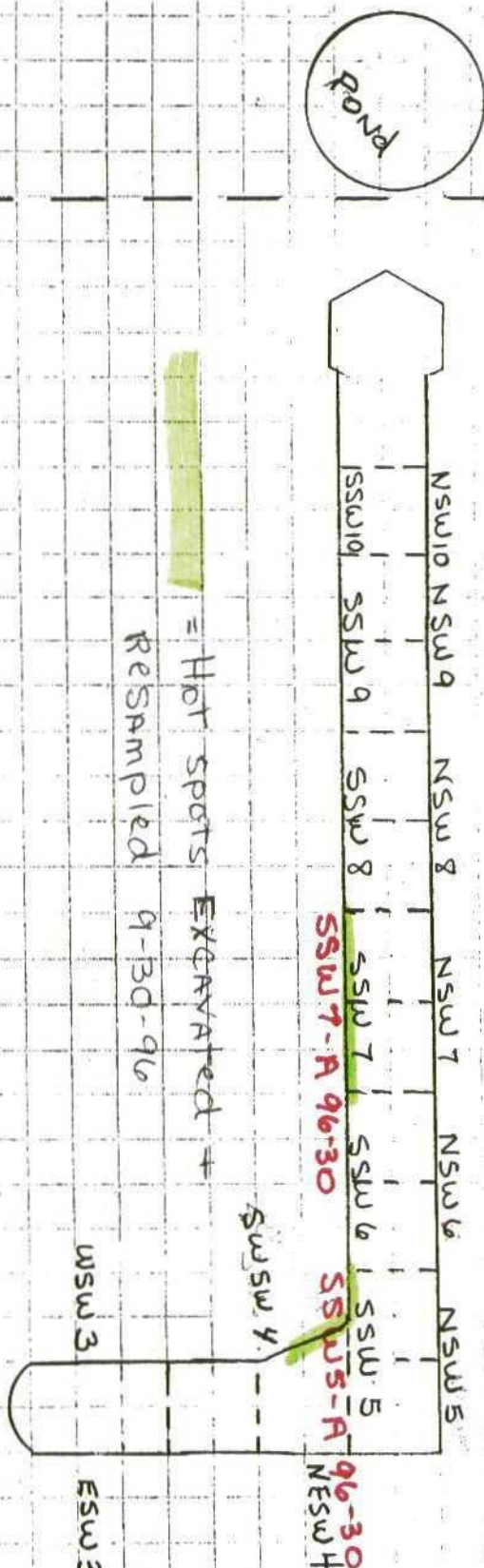
= Approx 50 ft

N

Date: Sept 20, 1996

SW = Sidewalls - All Composites 7-8 Aliquots / 100 ft

LAB # 960920-



TNM 96-20
Sampling Sketch MAP #5

Date: Sept. 20, 1996

All Composites

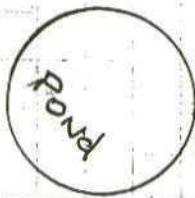
BH = Bottom Hole - 3-4 Aliquots / 50 ft.

 = Approx 50 ft

N ↑

Lease Road

Lease Road

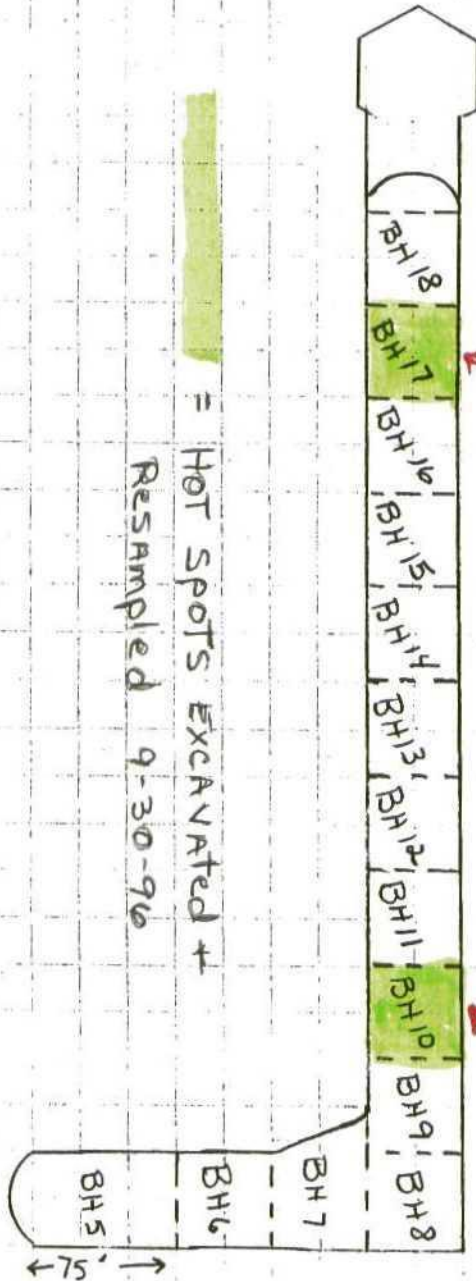


BH17-A 96-30

BH10-A 96-30

LAB. # 960920 -

= HOT SPOTS EXCAVATED +
Resampled 9-30-96



TNN qv-20 Sampling Sketch Map #1

BH = btm Hole

SW = Side walls

NSW = North sidewall

SSW = South sidewall

Date: Sept 16, 1996

SSV KCO

BH - 3-4 Aliquots / 50 ft - composited

SW - 7-8 Aliquots / 100 ft. Each side - composited

= Approx 50 ft.

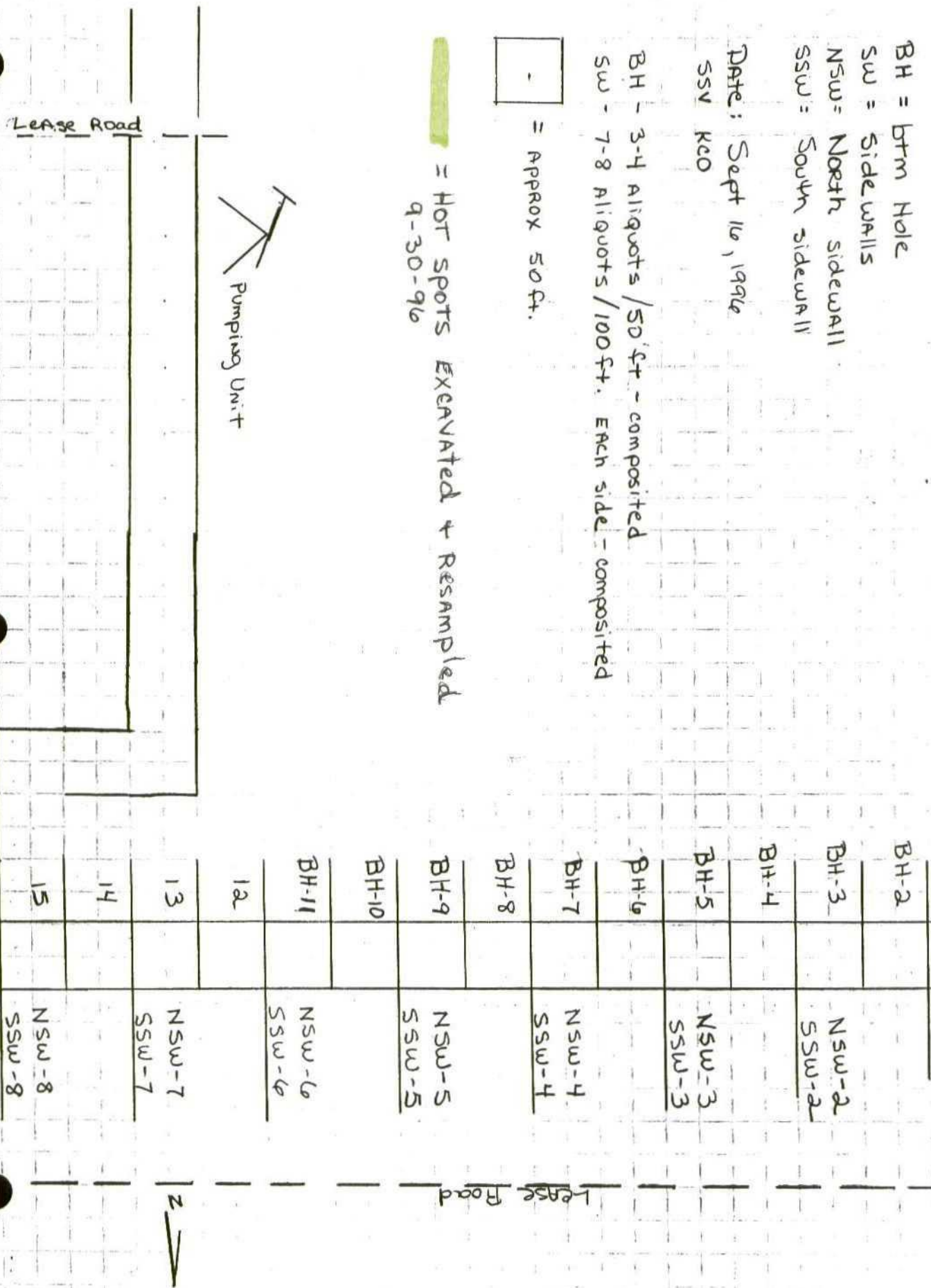
= HOT SPOTS EXCAVATED + Resampled
q-30-96

Pipeline

ORIGIN OF Release

LAB # q60916 - BH-1

SW-1 (Comp both sides)
SW-1-A q6-30



Environmental Lab of Texas, Inc. 12600 West I-20 East Odessa, Texas 79763

(915) 563-1800 FAX (915) 563-1713

CHAIN-OF-CUSTODY RECORD AND ANALYSIS REQUEST

Project Manager:

Andy Alford

Phone #: 915/682-3546
FAX #: 915/682-4182

Company Name & Address:

ALLSTATE SERVICES ENVIRONMENTAL, MIDLAND, TEXAS

Project #:

Project Name:

7114 916-20

Project Location:

Lat, 411

Sampler Signature:

Andy Alford

LAB # (LAB USE ONLY)	FIELD CODE	# CONTAINERS	Volume/Amount	MATRIX					PRESERVATIVE METHOD					DATE	TIME	ANALYSIS REQUEST									
				WATER	SOIL	AIR	SLUDGE	OTHER	HCL	HNO3	ICE	NONE	OTHER												
8874	9160920-BH1			✓										9/20	10:25	✓	BTX 8020/5030								
8875	9160920-BH3			✓										9/20	10:28	✓	TPH 418.1								
8876	9160920-BH3			✓										9/20	10:38	✓	TCLP Metals Ag As Ba Cd Cr Pb Hg Se								
8877	9160920-BH4			✓										9/20	10:40	✓	Total Metals Ag As Ba Cd Cr Pb Hg Se								
8878	9160920-BH5			✓										9/20	1:25	✓	TCLP Volatiles								
8879	9160920-BH6			✓										9/20	1:35	✓	TCLP Semi Volatiles								
8880	9160920-BH7			✓										9/20	1:37	✓	TDS								
8881	9160920-BH8			✓										9/20	1:40	✓	RCI								
8882	9160920-BH9			✓										9/20	1:44	✓									
8883	9160920-BH10			✓										9/20	1:46	✓									
8884	9160920-BH11			✓										9/20	1:50	✓									

Relinquished by:

Andy Alford

Date:

9/20/93

Times:

1600

Received by:

Ralack Jones

REMARKS

Relinquished by:

Date:

Times:

Received by:

Relinquished by:

Date:

Times:

Received by Laboratory:

Environmental Lab of Texas, Inc. 12600 West I-20 East Odessa, Texas 79763

(915) 563-1800 FAX (915) 563-1713

CHAIN-OF-CUSTODY RECORD AND ANALYSIS REQUEST

Project Manager:

Phone #: 915/682-3546

FAX #: 915/682-4182

Company Name & Address:

ALLSTATE SERVICES ENVIRONMENTAL, MIDLAND, TEXAS

Project #:

Project Name:

Project Location:

Sampler Signature:

LAB # (LAB USE ONLY)	FIELD CODE	# CONTAINERS	Volume/Amount	MATRIX					PRESERVATIVE METHOD					DATE	TIME
				WATER	SOIL	AIR	SLUDGE	OTHER	HCL	HNO3	ICE	NONE	OTHER		
8885	960920-BH12			✓										9/20 1:55	✓
8886	960930-BH13			✓										9/20 2:00	✓
8887	960930-BH14			✓										9/20 2:02	✓
8888	960930-BH15			✓										9/20 2:05	✓
8889	960930-BH16			✓										9/20 2:10	✓
8890	960930-BH17			✓										9/20 2:15	✓
8891	960930-BH18			✓										9/20 2:20	✓

BTX 8020/5030															
TPH 418.1															
TCLP Metals Ag As Ba Cd Cr Pb Hg Se															
Total Metals Ag As Ba Cd Cr Pb Hg Se															
TCLP Volatiles															
TCLP Semi Volatiles															
TDS															
RCI															

ANALYSIS REQUEST

Relinquished by:

Date:

Time:

Received by:

REMARKS

Relinquished by:

Date:

Time:

Received by:

Relinquished by:

Date:

Time:

Received by Laboratory:

Environmental Lab of Texas, Inc. 12600 West I-20 East Odessa, Texas 79763

(915) 563-1800 FAX (915) 563-1713

CHAIN-OF-CUSTODY RECORD AND ANALYSIS REQUEST

Project Manager:

Phone #: 915/682-3546
FAX #: 915/682-4182

ANALYSIS REQUEST

Company Name & Address:

ALLSTATE SERVICES ENVIRONMENTAL, MIDLAND, TEXAS

Project #:

Project Name:

TNH96-20

Project Location:

Sampler Signature:

Ind, AM

[Signature]

LAB # (LAB USE ONLY)	FIELD CODE	# CONTAINERS	Volume/Amount	MATRIX					PRESERVATIVE METHOD					SAMPLING		BTEX 8020/503	TPH 418.1	TCLP Metals Ag A	Total Metals Ag As	TCLP Volatiles	TCLP Semi Volatiles	TDS	RCI		
				WATER	SOIL	AIR	SLUDGE	OTHER	HCL	HNO3	ICE	NONE	OTHER	DATE	TIME										
8892	910920-WSW1			✓								✓		9/20	10:22	✓	✓								
8893	910920-ESW1			✓								✓		9/20	10:35	✓	✓								
8894	910920-WSW3			✓								✓		9/20	10:44	✓	✓								
8895	910920-SSW3			✓								✓		9/20	10:46	✓	✓								
8896	910920-ESW3			✓								✓		9/20	11:25	✓	✓								
8897	910920-WSW3			✓								✓		9/20	11:30	✓	✓								
8898	910920-NE SW4			✓								✓		9/20	11:35	✓	✓								
8899	910920-SW SW4			✓								✓		9/20	11:35	✓	✓								
8900	910920-NSW5			✓								✓		9/20	11:40	✓	✓								
8901	910920-SSW5			✓								✓		9/20	11:45	✓	✓								

Relinquished by:

Date:

Times:

Received by:

REMARKS

Relinquished by:

Date:

Times:

Received by:

Relinquished by:

Date:

Times:

Received by Laboratory:

Environmental Lab of Texas, Inc. 12600 West I-20 East Odessa, Texas 79763

(915) 563-1800 FAX (915) 563-1713

CHAIN-OF-CUSTODY RECORD AND ANALYSIS REQUEST

Project Manager:

Phone #: 915/682-3546
FAX #: 915/682-4182

ANALYSIS REQUEST

Company Name & Address:

ALLSTATE SERVICES ENVIRONMENTAL, MIDLAND, TEXAS

Project #:

Project Name:

Project Location:

Sampler Signature:

Val. NM

Handwritten Signature

LAB # (LAB USE ONLY)	FIELD CODE	# CONTAINERS	Volume/Amount	MATRIX					PRESERVATIVE METHOD					DATE	TIME	BTX 8020/5030	TPH 418.1	TCLP Metals Ag As Ba Cd Cr Pb Hg Se	Total Metals Ag As Ba Cd Cr Pb Hg Se	TCLP Volatiles	TCLP Semi Volatiles	TDS	RCI
				WATER	SOIL	AIR	SLUDGE	OTHER	HCL	HNO3	ICE	NONE	OTHER										

8902	960930-NSW6			✓										9/30	1:47	✓	✓						
8903	960930-SSW6			✓										9/30	1:51	✓	✓						
8904	960930-NSW7			✓										9/30	1:55	✓	✓						
8905	960930-SSW7			✓										9/30	2:00	✓	✓						
8906	960930-NSW8			✓										9/30	2:03	✓	✓						
8907	960930-SSW8			✓										9/30	2:10	✓	✓						
8908	960930-NSW9			✓										9/30	2:15	✓	✓						
8909	960930-SSW9			✓										9/30	2:20	✓	✓						
8910	960930-NSW10			✓										9/30	2:25	✓	✓						
8911	960930-SSW10			✓										9/30	2:25	✓	✓						

Relinquished by:

Date:

Time:

Received by:

REMARKS

Relinquished by:

Date:

Time:

Received by:

Relinquished by:

Date:

Time:

Received by Laboratory:

Environmental Lab of Texas, Inc. 12600 West I-20 East Odessa, Texas 79763

(915) 563-1800 FAX (915) 563-1713

CHAIN-OF-CUSTODY RECORD AND ANALYSIS REQUEST

Project Manager:

Handley Atchelle

Phone #: 915/682-3546
FAX #: 915/682-4182

ANALYSIS REQUEST

Company Name & Address:

ALLSTATE SERVICES ENVIRONMENTAL, MIDLAND, TEXAS

Project #:

Project Name:

7N196-20

Project Location:

Ad. NM

Sampler Signature:

Andria Chavira

LAB # (LAB USE ONLY)	FIELD CODE	# CONTAINERS	Volume/Amount	MATRIX					PRESERVATIVE METHOD					DATE	TIME	REMARKS
				WATER	SOIL	AIR	SLUDGE	OTHER	HCL	HNO3	ICE	NONE	OTHER			

8917	960920-01			✓										9/20	11:00	✓
8913	960920-02			✓										9/20	11:07	✓
8914	960920-03			✓										9/20	11:12	✓
8915	960920-04			✓										9/20	11:14	✓
8916	960920-05			✓										9/20	11:16	✓
8917	960920-06			✓										9/20	11:22	✓
8918	960920-07			✓										9/20	11:27	✓
8919	960920-08			✓										9/20	11:32	✓
8920	960920-09			✓										9/20	11:37	✓
8921	960920-010			✓										9/20	11:41	✓
8922	960920-011			✓										9/20	11:45	✓

Relinquished by:

Andria Chavira

Date:

9/20/96

Time:

1600

Received by:

Robert J. Reed

REMARKS

Relinquished by:

Date:

Time:

Received by:

Relinquished by:

Date:

Time:

Received by Laboratory:

CHAIN-OF-CUSTODY RECORD AND ANALYSIS REQUEST

Phone #: 915/682-3546
FAX #: 915/682-4182

ANALYSIS REQUEST

ALLSTATE SERVICES ENVIRONMENTAL, MIDLAND, TEXAS

Project Name :

Sampler Signature:

Vol. 114

MATRIK	PRESERVATIVE	SAMPEL
1	1	1

[illegible]

REMARKS

Received by:

Received in Laboratory:

Environmental Lab of Texas, Inc. 12600 West I-20 East Odessa, Texas 79763

(915) 563-1800 FAX (915) 563-1713

CHAIN-OF-CUSTODY RECORD AND ANALYSIS REQUEST

Project Manager:

Handy Alford

Phone #: 915/682-3546
FAX #: 915/682-4182

ANALYSIS REQUEST

Company Name & Address:

ALLSTATE SERVICES ENVIRONMENTAL, MIDLAND, TEXAS

Project #:

Project Name:

7/11/96-30

Project Location:

Sampler Signature:

Handy Alford

LAB # (LAB USE ONLY)	FIELD CODE	# CONTAINERS	Volume/Amount	MATRIX					PRESERVATIVE METHOD					SAMPLING		BTX 8020/5030	TPH 418.1	TCLP Metals Ag As	Total Metals Ag As	TCLP Volatiles	TCLP Semi Volatiles	TDS	RCI																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			
				WATER	SOIL	AIR	SLUDGE	OTHER	HCL	HNO3	ICE	NONE	OTHER	DATE	TIME																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																											
8931	960920-LEB 1			✓								✓			9/20	10:36	✓																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																									

Relinquished by:

Handy Alford

Date:

9/20/96

Time:

1600

Received by:

Edna Clark

REMARKS

Relinquished by:

Date:

Time:

Received by:

Relinquished by:

Date:

Time:

Received by Laboratory:

(915) 563-1800 FAX (915) 563-1713

CHAIN-OF-CUSTODY RECORD AND ANALYSIS REQUEST

Phone #:**FAX #:**

Tony Savoie

Company Name & Address:

Texas New Mexico Pipe Line

Project #:

Project Name :

Ally + Kt. TBM Q16-20

TUM 96-20

Project Location:

Sampler Signature:

[illegible]

Environmental Lab of Texas, Inc. 12600 West L-20 East Odessa, Texas 79763

(915) 563-1800 FAX (915) 563-1713

CHAIN-OF-CUSTODY RECORD AND ANALYSIS REQUEST

Project Manager:

Phone #:

FAX #:

ANALYSIS REQUEST

Company Name & Address:

TUMD

Project #:

TUMD 96-20

Project Name:

Project Location:

DR New Mex

Sampler Signature:

[Signature]

LAB #
(LAB USE ONLY)

FIELD CODE

CONTAINERS

Volume/Amount

WATER

SOIL

AIR

SLUDGE

OTHER

HCL

HNO3

ICE

NONE

OTHER

DATE

TIME

MATRIX

PRESERVATIVE METHOD

SAMPLING

BTEX 8020/5030

TPH 418.1

TCLP Metals Ag As Ba Cd Cr Pb Hg Se

Total Metals Ag As Ba Cd Cr Pb Hg Se

TCLP Volatiles

TCLP Semi Volatiles

TDS

RCI

Relinquished by:

Date:

Time:

Received by:

REMARKS

Relinquished by:

Date:

Time:

Received by:

Relinquished by:

Date:

Time:

Received by Laboratory:

9-23-96

1600

[Signature]

[Remarks]

(915) 563-1800 FAX (915) 563-1713

Project Manager:

Phone #:

ALL STATE SERVICES END. FAX#:

形式:

Company Name & Address:

720000

Project #:

Project Name:

Item 96-20

Project Location:

Sampler Signature:

Lea County N. Mexico

LAB # (LAB USE ONLY)	FIELD CODE	# CONTAINERS	Volume/Amount		
			WATER		
			MATRIX	PRESERVATIVE METHOD	SAMPLING
			SOIL		
			AIR		
			SLUDGE		
			OTHER		
			HCL		
			HNO3		
			ICE		
			NONE		
			OTHER		
			DATE		
			TIME		

BTEX 8020/5030
TPH 418.1
TCLP Metals Ag As Ba Cd Cr Pb Hg Se
Total Metals Ag As Ba Cd Cr Pb Hg Se
TCLP Volatiles
TCLP Semi Volatiles
TDS
RCI

[illegible]

Relinquished by:

Date:

8-20-96

Time: 0900

Received by:

RECEIVED BY: 270

REMARKS

EAST- Road crossing

Reviewed by:

Date:**Times**

Received by:

Relinquish

Date:

Times:

Rec'd by Laboratory:

Environmental Lab of Texas, Inc. 12600 West I-20 East Odessa, Texas 79763
(915) 563-1800 FAX (915) 563-1713

CHAIN-OF-CUSTODY RECORD AND ANALYSIS REQUEST

Project Manager:

Phone #:
FAX #:

ANALYSIS REQUEST

Company Name & Address:

Albetta Services Environmental

Project #:

Project Name:

TNM 96-20

Project Location:

Lat NM

Sampler Signature:

Andrea Hernandez

LAB #
(LAB USE ONLY)

FIELD CODE

CONTAINERS

Volume/Amount

WATER
SOIL
AIR
SLUDGE
OTHER

HCL
HNO3
ICE
NONE
OTHER

DATE

TIME

BTEX 8020/5030

TPH 418.1

TCLP Metals Ag As Ba Cd Cr Pb Hg Se

Total Metals Ag As Ba Cd Cr Pb Hg Se

TCLP Volatiles

TCLP Semi Volatiles

TDS

RCI

LAB #

960816-BH

CONTAINERS

Volume/Amount

WATER
SOIL
AIR
SLUDGE
OTHER

HCL
HNO3
ICE
NONE
OTHER

DATE

TIME

BTEX 8020/5030

TPH 418.1

TCLP Metals Ag As Ba Cd Cr Pb Hg Se

Total Metals Ag As Ba Cd Cr Pb Hg Se

TCLP Volatiles

TCLP Semi Volatiles

TDS

RCI

LAB #

8500 960816-SW

CONTAINERS

Volume/Amount

WATER
SOIL
AIR
SLUDGE
OTHER

HCL
HNO3
ICE
NONE
OTHER

DATE

TIME

BTEX 8020/5030

TPH 418.1

TCLP Metals Ag As Ba Cd Cr Pb Hg Se

Total Metals Ag As Ba Cd Cr Pb Hg Se

TCLP Volatiles

TCLP Semi Volatiles

TDS

RCI

Requisitioned by:

Date:

Time:

Received by:

REMARKS

Requisitioned by:

Date:

Time:

Received by:

Requisitioned by:

Date:

Time:

Received by Laboratory:

Environmental Lab of Texas, Inc. 12600 West I-20 East Odessa, Texas 79763

(915) 563-1800 FAX (915) 563-1713

CHAIN-OF-CUSTODY RECORD AND ANALYSIS REQUEST

Phone #:

Project Manager:

FAX #:

ALL STATE SECU ENVIRONMENTAL

Company Name & Address:

Project Name:

Project #:

7/11/96-20

Sampler Signature:

Project Location:

JAL New Mex

MATRIX

PRESERVATIVE METHOD

SAMPLING

LAB #
(LAB USE ONLY)

FIELD CODE

CONTAINERS

Volume/Amount

WATER

SOIL

AIR

SLUDGE

OTHER

HCL

HNO3

ICE

NONE

OTHER

DATE

TIME

BTEX 8020/5030

TPH 418.1

TCLP Metals Ag As Ba Cd Cr Pb Hg Se

Total Metals Ag As Ba Cd Cr Pb Hg Se

TCLP Volatiles

TCLP Semi Volatiles

TDS

RCI

ANALYSIS REQUEST

Relinquished by:

Date:

Time:

Received by:

REMARKS

Relinquished by:

Date:

Time:

Received by:

Relinquished by:

Date:

Time:

Received by Laboratory:

8-5-96

1340

Paula Dickson

CHAIN-OF-CUSTODY RECORD AND ANALYSIS REQUEST

Phone #: 915/682-3546
FAX #: 915/682-4182

ANALYSIS REQUEST

ALLSTATE SERVICES ENVIRONMENTAL, MIDLAND, TEXAS

Project Name:

Sampler Signature:

MATRIX	PRESERVATIVE	SAMPLING

LAB # (LAB USE ONLY)	FIELD CODE	# CONTAINERS	Volume/Amount		MATRIX		PRESERVATIVE METHOD					SAMPLING		BTEX 8020/503	TPH 418.1	TCLP Metals Ag A	Total Metals Ag A	TCLP Volatiles	TCLP Semi Volatiles	TDS	RCI
			WATER	SOIL	AIR	SLUDGE	OTHER	HCL	HNO3	ICE	NONE	OTHER	DATE								
8560	960823-B												8/23/10								
8561	960823-NIN												8/23/10								
8562	960823-S												8/23/10								

REMARKS

Received by:

Received by Laboratory:

Environmental Lab of Texas, Inc. 12600 West I-20 East Odessa, Texas 79763

(915) 563-1800 FAX (915) 563-1713

CHAIN-OF-CUSTODY RECORD AND ANALYSIS REQUEST

Project Manager: *Handel* *Stella*
 Phone #: 915/682-3546
 FAX #: 915/682-4182

Company Name & Address: *Handel*
 ALLSTATE SERVICES ENVIRONMENTAL, MIDLAND, TEXAS

Project #: *96-20*
 Project Name: *TNM 96-20*

Project Location: *Ad. NH*
 Sampler Signature: *Handel*

LAB # (LAB USE ONLY)	FIELD CODE	# CONTAINERS	Volume/Amount	MATRIX					PRESERVATIVE METHOD	SAMPLING	DATE	TIME	BTX 8020/5030	TPH 418.1	TCLP Metals Ag As	Total Metals Ag As	TCLP Volatiles	TCLP Semi Volatiles	TDS	RCI																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																														
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Relinquished by: <i>Handel</i>	Date: 9-16-96	Time: 2:40pm	Received by: <i>Handel</i>	REMARKS:
Relinquished by:	Date:	Time:	Received by:	
Relinquished by:	Date:	Time:	Received by:	

Environmental Lab of Texas, Inc. 12600 West I-20 East Odessa, Texas 79763

(915) 563-1800 FAX (915) 563-1713

CHAIN-OF-CUSTODY RECORD AND ANALYSIS REQUEST

Project Manager:

Randy Offield

Phone #: 915/682-3546
FAX #: 915/682-4182

ANALYSIS REQUEST

Company Name & Address:

ALLSTATE SERVICES ENVIRONMENTAL, MIDLAND, TEXAS

Project #:

TRM 96-20

Project Name:

TRM 96-20

Project Location:

JAL NM

Sampler Signature:

[Signature]

LAB # (LAB USE ONLY)	FIELD CODE	# CONTAINERS	Volume/Amount	MATRIX						PRESERVATIVE METHOD	SAMPLING	DATE	TIME	BTX 8020/5030	TPH 418.1	TCLP Metals Ag As Ba Cd Cr Pb Hg Se	Total Metals Ag As Ba Cd Cr Pb Hg Se	TCLP Volatiles	TCLP Semi Volatiles	TDS	RCI
				WATER	SOIL	AIR	SLUDGE	OTHER	HCL	HNO3	ICE	NONE	OTHER								
8802	960917-BH1			✓										9/17 10:30	✓						
8803	960917-BH2			✓										9/17 10:32	✓						
8804	960917-BH3			✓										9/17 10:44	✓						
8805	960917-BH4			✓										9/17 10:45	✓						
8806	960917-BH5			✓										9/17 10:51	✓						
8807	960917-BH6			✓										9/17 10:54	✓						
8808	960917-BH7			✓										9/17 11:02	✓						
8809	960917-BH8			✓										9/17 11:05	✓						
8810	960917-BH9			✓										9/17 11:44	✓						
8811	960917-BH10			✓										9/17 11:51	✓						
8812	960917-BH11			✓										9/17 11:53	✓						

Relinquished by:

[Signature]

Date:

9-17-96

Time:

16:00

Received by:

Rala-ay Sank

REMARKS

Relinquished by:

Date:

Time:

Received by:

Relinquished by:

Date:

Time:

Received by Laboratory:

Environmental Lab of Texas, Inc. 12600 West I-20 East Odessa, Texas 79763

(915) 563-1800 FAX (915) 563-1713

CHAIN-OF-CUSTODY RECORD AND ANALYSIS REQUEST

Project Manager:

Randy Atfield

Phone #: 915/682-3546
FAX #: 915/682-4182

ANALYSIS REQUEST

Company Name & Address:

ALLSTATE SERVICES ENVIRONMENTAL, MIDLAND, TEXAS

Project #:

TNM 96-20

Project Name:

TNM PPL

Project Location:

JAL, NM

Sampler Signature:

[Signature]

LAB # (LAB USE ONLY)	FIELD CODE	# CONTAINERS	Volume/Amount	MATRIX							PRESERVATIVE METHOD				SAMPLING		BTX 8020/5030	TPH 418.1	TCLP Metals Ag A	Total Metals Ag As	TCLP Volatiles	TCLP Semi Volatile	TDS	RCI																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																							
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REMARKS

Relinquished by:

[Signature]

Date:

9-17-96

Time:

16:02

Received by:

Roland K. [Signature]

Relinquished by:

Date:

Time:

Received by:

Relinquished by:

Date:

Time:

Received by Laboratory:

Environmental Lab of Texas, Inc. 12600 West I-20 East Odessa, Texas 79763

(915) 563-1800 FAX (915) 563-1713

CHAIN-OF-CUSTODY RECORD AND ANALYSIS REQUEST

Project Manager:

David Offield

Phone #: 915/682-3546
FAX #: 915/682-4182

ANALYSIS REQUEST

Company Name & Address:

ALLSTATE SERVICES ENVIRONMENTAL, MIDLAND, TEXAS

Project #: TMM

Project Name:

916-20

Tex N.Mex PPL

Project Location:

JAI, NM

Supplier Signature:

[Signature]

LAB # (LAB USE ONLY)	FIELD CODE	# CONTAINERS	Volume/Amount	MATRIX					PRESERVATIVE METHOD					SAMPLING		BTEx 8020/503	TPH 418.1	TCLP Metals Ag A	Total Metals Ag As	TCLP Volatiles	TCLP Semi Volatile	TDS	RCI																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																		</
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Relinquished by:

[Signature]

Date:

9-17-96

Times:

16:03

Received by:

Robert J. [Signature]

REMARKS

Relinquished by:

Date:

Times:

Received by:

Relinquished by:

Date:

Times:

Received by laboratory:

Environmental Lab of Texas, Inc. 12600 West I-20 East Odessa, Texas 79763

(915) 563-1800 FAX (915) 563-1713

CHAIN-OF-CUSTODY RECORD AND ANALYSIS REQUEST

Project Manager:

Handy

Phone #: 915/682-3546
FAX #: 915/682-4182

ANALYSIS REQUEST

Company Name & Address:

ALLSTATE SERVICES ENVIRONMENTAL, MIDLAND, TEXAS

Project #:

96-80

Project Name:

TMM 96-80

Project Location:

Jal. NM

Sampler Signature:

[Signature]

LAB # (LAB USE ONLY)	FIELD CODE	# CONTAINERS	Volume/Amount	MATRIX						PRESERVATIVE METHOD	SAMPLING	DATE	TIME	BTX 8020/5030	TPH 418.1	TCLP Metals Ag As Ba Cd Cr Pb Hg Se	Total Metals Ag As Ba Cd Cr Pb Hg Se	TCLP Volatiles	TCLP Semi Volatiles	TDS	RCI
				WATER	SOIL	AIR	SLUDGE	OTHER	HCL	HNO3	ICE	NONE	OTHER								
8835	960917-LF9			✓										9/17 12:09	✓	✓					
8836	960917-LF10			✓										9/17 12:10	✓	✓					
8837	960917-LF11			✓										9/17 12:11	✓	✓					
8838	960917-LF12			✓										9/17 12:14	✓	✓					
8839	960917-LF13			✓										9/17 12:15	✓	✓					
8840	960917-LF14			✓										9/17 12:16	✓	✓					
8841	960917-LF15			✓										9/17 12:16	✓	✓					
8842	960917-WSN6			✓										9/17 1:57	✓	✓					
8843	960917-ESW7			✓										9/17 3:08	✓	✓					
8844	960917-WSW7			✓										9/17 3:08	✓	✓					

Relinquished by:

[Signature]

Date:

9-17-96

Times:

16:01

Received by:

Palack

REMARKS

Relinquished by:

[Signature]

Date:

Times:

Received by:

Relinquished by:

[Signature]

Date:

Times:

Received by Laboratory:

GROUND WATER ASSESMENT

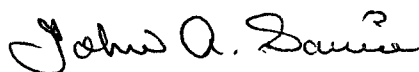
A copy of the State Engineers office estimated the depth to Ground water at 51.69 ft. Wayne Price with the N.M.O.C.D. office was contacted prior to 8/13/96 and advised that Texas New Mexcio Pipe Line co. intended to install 1 monitor well to confirm the depth to ground water and document the lithology.

The monitor well was located within 20 ft and down gradient of the deepest part of the excavation.

The Monitor well was completed, developed and sampled on 8/13/96.

Ground water depth at the time of sampling was 63.35 ft. The monitor well has been checked one time since installation on 10/14/96 depth to water was 63.28 ft.

See attachment dated August 16, 1996 for more detail



JOHN A. SAVOIE

TEXAS NEW MEXICO PIPE LINE CO.

November 2, 1996

August 16, 1996

Allstate Services Environmental
Attention: K. C. Offield
P. O. Box 11322
Midland, Texas 79702

Re: TNM 96-20
Monitor Well No. 1
Section 18, T25S, R36E
Lea County, New Mexico

Dear Ms. Offield:

Attached is material associated with the rock boring descriptions on the subject Monitor Well. This includes the following:

1. Wellbore rock description with well name, location, total depth, elevation, and color code.
2. Topographic map with wellbore location, Scale 1" = 2000'.
3. Insert from Bureau of Economic Geology, Austin, Texas publication "Geologic Atlas of Texas", Hobbs Sheet, Scale 1" = 250,000' - published 1976 to aid in identifying surface rock units and their age.

The attached Geologic Atlas Map (Hobbs Sheet) indicates Monitor Well (96-20) to be located on Quaternary colluvial deposits of Holocene (Recent) age. Its coordinate location is unknown at present. The estimated surface location is 1980 feet from the south line and 660 feet from the west line of Section 18, T25S, R36E, one mile northwest of Jal, Lea County, New Mexico. Elevation is approximately 3125 feet.

Examination of well bore cuttings from the subject well indicates probable Quaternary deposits from surface to 27 feet, at which point a maroon (or red) shale is encountered. The shale is approximately seven (7) feet thick and is immediately underlain by a pink siltstone. An impervious red and green shale, five feet thick, underlays the siltstone and overlays a clean, angular, well sorted, friable watersand, topped at 50 feet. The sandstone showed no visible traces of contamination by hydrocarbons. Continued sandstone and siltstone deposition was found to total depth of 75 feet.

Samples on the 96-20 are returned to your office with this report.

Yours truly,



Dwayne Hamilton

DH/lis

1DATE: 12/04/95

PROVISIONAL GROUNDWATER DATA LEA COUNTY.

PAGE1207

SITE ID: 320745103113401
 LOCATION: 25S.37E.18.242221
 OTHER ID: 11655
 ELEVATION: 3099.80
 USE: H
 DEPTH:
 GEO. UNIT: 110AVMB

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM

DATE	WATER LEVEL MS	DATE	WATER LEVEL MS
NOV 02, 1965	54.06 R	DEC 16, 1970	52.62 R
HIGHEST --			
LOWEST --			

SITE ID: 320726103115001
 LOCATION: 25S.37E.18.412423
 OTHER ID: 11656
 ELEVATION: 3096.40
 USE: R
 DEPTH: 70
 GEO. UNIT: 110AVMB

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM

DATE	WATER LEVEL MS	DATE	WATER LEVEL MS
OCT 29, 1965	53.39	JAN 06, 1976	49.48 S
HIGHEST 53.39 OCT 29, 1965			
LOWEST 53.39 OCT 29, 1965			

SITE ID: 320730103114801
 LOCATION: 25S.37E.18.421110
 OTHER ID: 11657
 ELEVATION: 3107.20
 USE: R
 DEPTH: 100
 GEO. UNIT: 110AVMB

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM

DATE	WATER LEVEL MS	DATE	WATER LEVEL MS	DATE	WATER LEVEL MS	DATE	WATER LEVEL MS
OCT 29, 1965	63.82	DEC 16, 1970	61.42 S	MAR 30, 1981	58.25	JUN 11, 1991	52.94
FEB 29, 1968	62.85	JAN 06, 1976	60.31 S	MAR 13, 1986	54.41	Feb 14, 1996	51.69
HIGHEST 52.94 JUN 11, 1991							
LOWEST 63.82 OCT 29, 1965							

1DATE: 12/04/95

PROVISIONAL GROUNDWATER DATA LEA COUNTY.

PAGE1208

SITE ID: 320722103114601
 LOCATION: 25S.37E.18.423123

Lithology Symbols:

SS
 Silt
 Sh
 black green
 brown
 Dolo
 Congl
 Clay
 Meta
 Chert
 Ign

County: Lea
 Elevation: 3125' (EST)
 Location: 1980' FSL 660' FWL T25S R36E
 Coordinates:
 Monitor ☒ Water ☐ or Test Well ☐
 Other ☐
 Station ☒ M
 Operator: TNM 96-20
 Total Depth 75'
 Rotary ☒ Mud ☐ Air ☐
 Cable Tool ☐

DRILL RATE
 MPF
 n/a

DEPTH

LITHOLOGY

DESCRIPTION

	0	LS (Caliche) SS-(50/50 each) abundant chalcedony Inlus. SS - clear - fn-med - rounded (aeolian)
		SS - brn-red, lots of clay, fn-med very loose & friable
	5	Conglomerate - caliche pebbles in red sand & shale matrix
		SS yellow, friable, fn-med - sub angular SS - gray - quartzitic - hard - well cemented w quartz
	10	Siltstone wh-gray calcareous
	15	Siltstone as above
	20	Siltstone as above more pink some ss. med. gr. - some sh. pink
	25	Siltstone as above more sh red-maroon
	30	Sh, red-maroon - fissile mixed with siltstone as above
	35	Siltstone buff -pinkish - some ss fn pink
	40	Siltstone - as above - calc w/some ls pebble inclusions
	45	Sh. maroon - green - waxy w/clay ductile w/cinnabar looking rust colored inclusions - appears impervious
	50	

DESCRIPTION

Lithology Symbols:

SS 
Sh 
gray black green
maroon brown
Ls 
Dolo 
Congl 
Clay 
Meta 
Chert 
Ign 

County: Lea
Elevation: 3125' (EST)
Location: 1980' FSL 660' FWL T25S R36E

Monitor ☒ Water ☐ or Test Well ☐
Other ☐

Operator: ~~TNM~~ *nm*
Total Depth 75'

Rotary ☒ Mud ☐ Air ☒
Cable Tool ☐

50

55

60

65

70

75

Ss - buff - rouge, fn - fri, calc, silty

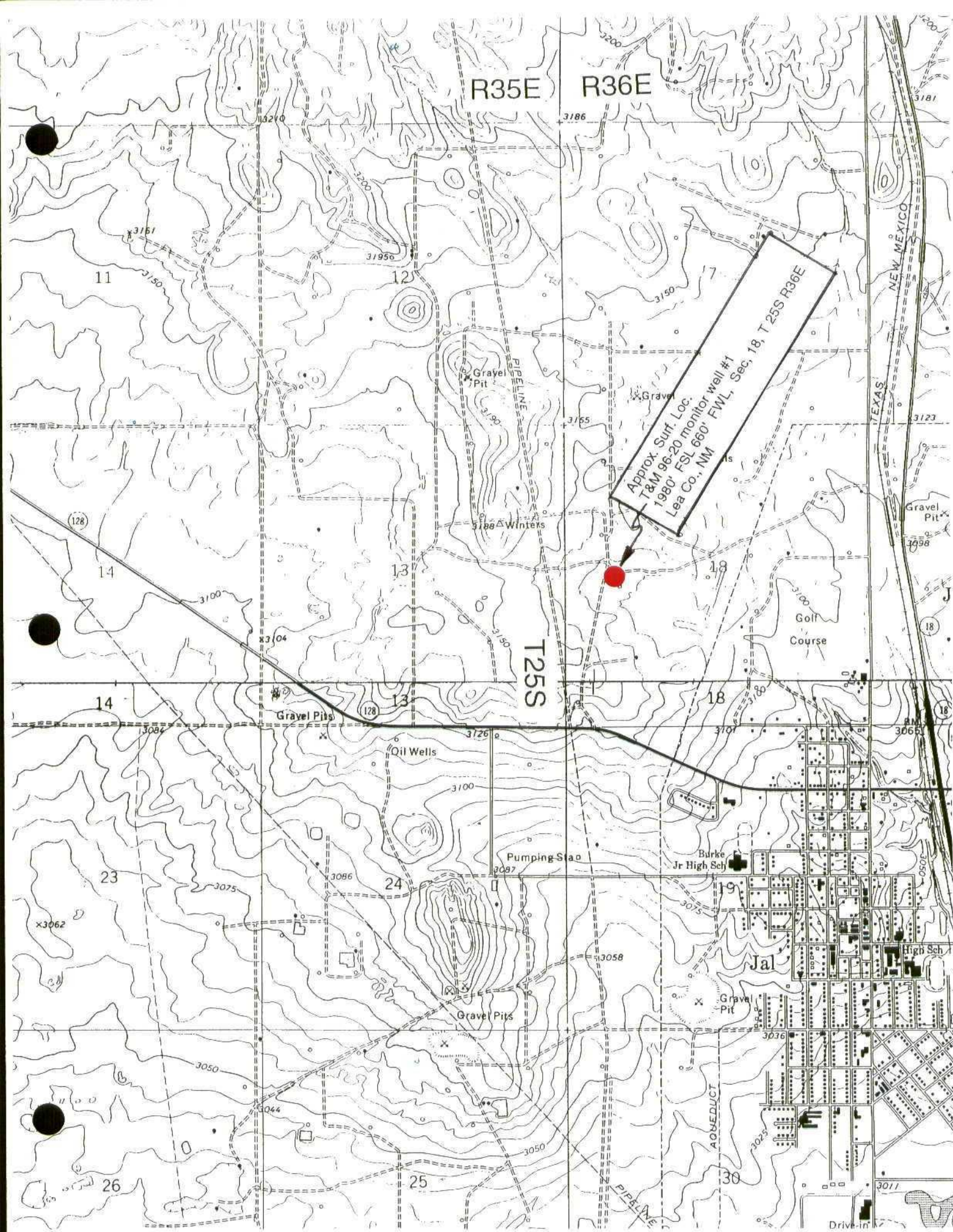
Ss as above ang

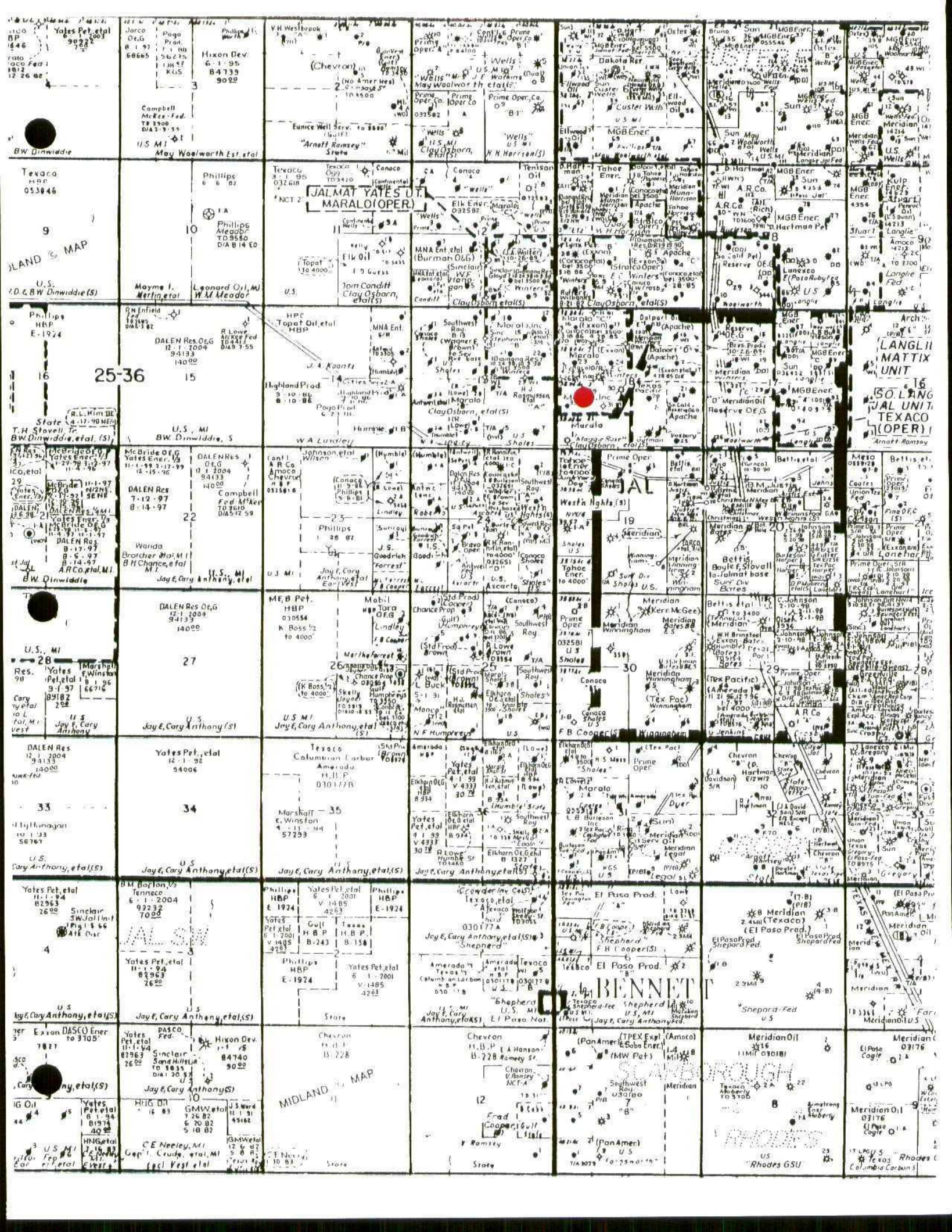
Sh - gry - gn - silty - waxy to pressure

Ss fir ang clear to pk fri - cemented - calc

siltstone - pk - grn - calc
shly - calc

TD 75'





ENVIRONMENTAL LAB OF , INC.

"Don't Treat Your Soil Like Dirt!"

TEXAS NEW MEXICO PIPE LINE COMPANY
MR. JOHN A. SAVOIE
P.O. BOX 1030
JAL, NM 88252
FAX: 505-395-2636

RECEIVING DATE: 08/14/96
SAMPLE TYPE: SOIL
PROJECT #: TNM 96-20
PROJECT NAME: TNM 96-20
PROJECT LOCATION: JAL, NM

ANALYSIS DATE: 08/14/96
SAMPLING DATE: 08/13/96
SAMPLE CONDITION: INTACT/ICED

ELT#	FIELD CODE	TPH (mg/kg)
8472	960813 MW1 5'	<10
8473	960813 MW1 10'	<10
8474	960813 MW1 15'	60
8475	930813 MW1 20'	<10
8476	960813 MW1 60'	<10
QUALITY CONTROL		302
TRUE VALUE		302
% PRECISION		100

Methods: EPA 418.1


Michael R. Fowler

8-15-96
Date

ENVIRONMENTAL LAB OF , INC.

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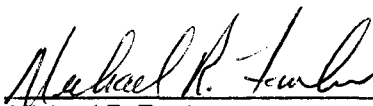
Receiving Date: 08/14/96
Sample Type: WATER
Project : TNM 96-20
Project #: TNM 96-20
Project Location: JAL, NM

Analysis Date: 08/14/96
Sampling Date: 08/13/96
Sample Condition: Intact/Iced

ELT#	FIELD CODE	BENZENE (mg/l)	TOLUENE (mg/l)	ETHYLBENZENE (mg/l)	m,p-XYLENE (mg/l)	o-XYLENE (mg/l)	TPH (mg/l)
8477	960813-MW1	<0.001	<0.001	<0.001	<0.001	<0.001	<1

% IA	109	99	104	104	103	101
% EA	98	97	104	103	102	--
BLANK	<0.001	<0.001	<0.001	<0.001	<0.001	<1

METHODS: SW 846-8020,5030, EPA 418.1


Michael R. Fowler

8-15-96
Date

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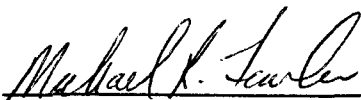
Receiving Date: 08/14/96
Sample Type: WATER
Project : TNM 96-20
Project #: TNM 96-20
Project Location: JAL, NM

Analysis Date: 08/15/96
Sampling Date: 08/13/96
Sample Condition: Intact/Iced

ELT#	FIELD CODE	TDS (mg/l)	TOTAL CHLORIDES (mg/l)
8477	960813-MW1	557	116

QUALITY CONTROL	22562
TRUE VALUE	22320
% PRECISION	101

METHODS: EPA 160.1, 325.1


Michael R. Fowler

8-15-96
Date

Environmental Lab of Texas, Inc. 12600 West I-20 East Odessa, Texas 79763

(915) 563-1800 FAX (915) 563-1713

CHAIN-OF-CUSTODY RECORD AND ANALYSIS REQUEST

Project Manager:

Phone #: 662-3547
FAX #:

ANALYSIS REQUEST

Company Name & Address:

City State Services

Project #:

Project Name:

TNM 96-20

Project Location:

Ref - N.M

Sampler Signature:

Standard Laboratory

LAB # (LAB USE ONLY)	FIELD CODE	# CONTAINERS	Volume/Amount												
				MATRX		PRESERVATIVE METHOD						SAMPLING			
				WATER	SOIL	AIR	SLUDGE	OTHER	HCL	HNO3	ICE	NONE	OTHER	DATE	TIME

BTEX 8020/5030													
TPH 418.1													
TCLP Metals Ag As Ba Cd Cr Pb Hg Se													
Total Metals Ag As Ba Cd Cr Pb Hg Se													
TCLP Volatiles													
TCLP Semi Volatiles													
TDS - chlorides													
RCI													

8472	960813-MW1 5'										8/13		
8473	960813-MW1 10'										8/13		
8474	960813-MW1 15'										8/13		
8475	960813-MW1 20'										8/13		
8476	960813-MW1 60'										8/13		
8477	960813-MW1										8/13		

Relinquished by:

Date:

Time:

Received by:

REMARKS

Relinquished by:

Date:

Time:

Received by:

Relinquished by:

Date:

Time:

Received by Laboratory:

STATE ENGINEER OFFICE
WELL RECORD

Section 1. GENERAL INFORMATION

(A) Owner of well Texas-New Mexico Pipeline Co. Owner's Well No. MW#1
Street or Post Office Address PO Box 1030
City and State Jal, New Mexico 88252

Well was drilled under Permit No. _____ and is located in the:

a. _____ $\frac{1}{4}$ _____ $\frac{1}{4}$ _____ $\frac{1}{4}$ of Section _____ Township _____ Range _____ N.M.P.M.

b. Tract No. _____ of Map No. _____ of the _____
3 mi W of Jal

c. Lot No. _____ of Block No. _____ of the _____
Subdivision, recorded in _____ Lea _____ County.

d. X= _____ feet, Y= _____ feet, N.M. Coordinate System _____ Zone in
the _____ Grant.

(B) Drilling Contractor Scarborough Drilling, Inc. License No. WD 1188

Address 122 N. 24th, Lamesa, TX 79331

Drilling Began 8-13-96 Completed 8-13-96 Type tools rotary Size of hole 5 in.

Elevation of land surface or _____ at well is _____ ft. Total depth of well 75 ft.

Completed well is ☒ shallow ☐ artesian. Depth to water upon completion of well 63.35 ft.

Section 2. PRINCIPAL WATER-BEARING STRATA

Depth in Feet		Thickness in Feet	Description of Water-Bearing Formation	Estimated Yield (gallons per minute)
From	To			

Section 3. RECORD OF CASING

Diameter (inches)	Pounds per foot	Threads per in.	Depth in Feet		Length (feet)	Type of Shoe	Perforations	
			Top	Bottom			From	To
2	Sch 40		+ 2	75	77	none	60	75

Section 4. RECORD OF MUDDING AND CEMENTING

Depth in Feet		Hole Diameter	Sacks of Mud	Cubic Feet of Cement	Method of Placement
From	To				
0	55	5		5 sx	pumped
55	58	5	bentonite chips		poured
58	75		8-16 frac sand		poured

Section 5. PLUGGING RECORD

Plugging Contractor _____

Address _____

Plugging Method _____

Date Well Plugged _____

Plugging approved by: _____

State Engineer Representative

No.	Depth in Feet		Cubic Feet of Cement
	Top	Bottom	
1			
2			
3			
4			

FOR USE OF STATE ENGINEER ONLY

Date Received _____

Quad _____ FWL _____ FSL _____

File No. _____ Use _____ Location No. _____

Section 6. LOG OF HOLE

[illegible]

Section 7. REMARKS AND ADDITIONAL INFORMATION

The undersigned hereby certifies that, to the best of his knowledge and belief, the foregoing is a true and correct record of the above described hole.

Lane Scarborough Driller

INSTRUCTIONS: This form should be executed in triplicate, preferably typewritten, and submitted to the appropriate district office of the State Engineer. All sections, except Section 5, shall be answered as completely and accurately as possible when any well is drilled, repaired or deepened. When this form is used as a plugging record, only Section 1(a) and Section 5 need be completed.

RECEIVED

DEC 02 1996

Environmental Bureau
Oil Conservation Division

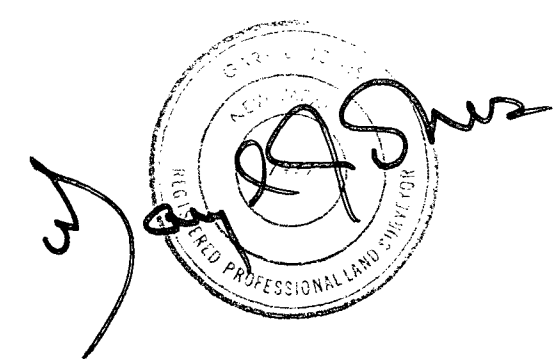
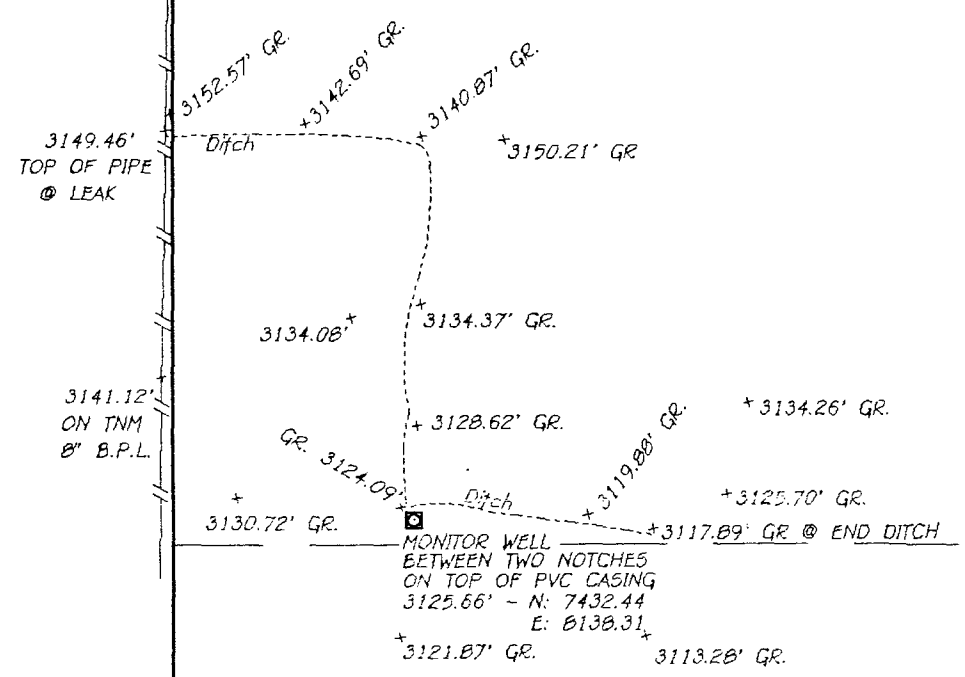


589°55'E (Basis of Bearings)

N: 10000.00
E: 10000.00
FND.
B.C.

FND. SPIKE
NAIL

N: 9996.16
E: 12630.23



TEXAS - NEW MEXICO PIPE LINE CO.

ELEVATIONS ON MONITOR WELL IN
SECTION 18, TOWNSHIP 25 SOUTH, RANGE 36 EAST,
N.M.P.M., LEA COUNTY, NEW MEXICO.

P.O. BOX 1786 **BASIN SURVEYS** HOBBS, NEW MEXICO
Survey Date: 08-20-96 W.O. Number: 6343