NEW MEXICO ENERGY, MINERALS and NATURAL RESOURCES DEPARTMENT

GARY E. JOHNSON
Governor
Betty Rivera
Cabinet Secretary

Lori Wrotenbery
Director
Oil Conservation Division

VIA Sent EMAIL 7/5/02 @ 3:45 PM

June 13, 2002

Mr. Frank Hernandez
EOTT Energy Pipeline, LP
PO Box 1660
Midland, TX 79703

Re: Closure Approval, Chevron Mark 4" Gathering Line Leak Remediation
Site Reference UL-J, Sec-3 T-22S R-37E
Initial C-141 Notification Dated: December 6, 2001
Dated: June 12, 2002

Dear Mr. Hernandez,

The Work Plan **Final Closure Proposal** is **hereby approved**. According to the information provided, no further action is required at this time.

Please be advised that OCD approval of this plan does not relieve EOTT Energy Pipeline, LP liability should their operations fail to adequately investigate and remediate contaminants that threaten ground water, surface water, human health or the environment. Additionally, OCD approval does not relieve EOTT Energy Pipeline, LP of responsibility for compliance with any other federal, state, or local laws and/or regulations.

If you have any questions or need assistance please feel free to call or e-mail me at (505) 393-6161, x111 or email lwjohnson@state.nm.us

Sincerely,

Larry Johnson - Environmental Engineer

Cc: Roger Anderson - Environmental Bureau Chief
Chris Williams - District I Supervisor
Bill Olson - Hydrologist
Paul Sheeley-Environmental Engineer

ENVIRONMENTAL PLUS, INC. Micro-Blaze Micro-Blaze Gel™
STATE APPROVED LAND FARM AND ENVIRONMENTAL SERVICES

ENVIRONMENTAL PLUS, INC.

June 12, 2002

Mr. Paul Sheeley
Energy, Minerals, and Natural Resources Department
New Mexico Oil Conservation Division
1625 North French Dr.
Hobbs, New Mexico 88240

Subject: EOTT "Chevron Mark 4-Inch Gathering" Final C-141 and Closure Documentation
EOTT Site Reference: #2001-11204

Dear Mr. Sheeley:

Environmental Plus, Inc. (EPI), on behalf of EOTT Energy Pipeline, LP (EOTT) submits for your consideration and approval the "Final C-141 and Closure Documentation for the "Chevron Mark 4-Inch Gathering"; EOTT Reference: #2001-11204. This report documents the vertical and horizontal extents of hydrocarbon contamination at the site, removal of contaminated soils above acceptable CoC levels, and the disposal of said contaminated soils at EPI's approved land farm consistent with the NMOCD approved Site Specific Remediation Plan submitted in December-2001, and the "E.O.T.T. General Work Plan for Remediation of E.O.T.T. Pipeline Spills, Leaks and Releases in New Mexico, July 2000." EPI, on behalf of EOTT, therefore requests that the NMOCD consider the information provided within this documentation and require "no further action" at this site.

If there are any questions please call Mr. Ben Miller or myself at EPI's offices, or at 505.390.0288 or 505.390.7864 respectively. Mr. Frank Hernandez of EOTT Energy Pipeline, LP can be contacted at 915.638.3799.

All official correspondence should be addressed to:

Mr. Frank Hernandez
EOTT Energy Pipeline, LP
P.O. Box 1660
Midland, Texas 79703

Sincerely,

Pat McCasland
EPI Technical Services Manager

cc: Frank Hernandez, EOTT Energy Pipeline, LP (w/enclosure)
Cutty Cunningham, Enron Transportation Services (w/enclosure)
Sherry Miller, EPI President
Ben Miller, EPI Vice President and General Manager
File

P.O. BOX 1558 ••• 2100 AVENUE O ••• EUNICE, NEW MEXICO 88231
TELEPHONE 505•394•3481 ••• FAX 505•394•2601

EOTT ENERGY PIPELINE, LP

SITE INVESTIGATION, REMEDIATION, AND FINAL C-141 CLOSURE DOCUMENTATION

IRP-75
10-5-05

CHEVRON MARK 4" GATHERING SITE
EOTT REF: #2001-11204
UL-J NW¼ OF THE SE¼ OF SECTION 3 T22S R37E
~1 MILE SOUTH OF EUNICE
LEA COUNTY, NEW MEXICO
LATITUDE: 32°25'14"N LONGITUDE: 103°08'51"W

JUNE 12, 2002

PREPARED BY:

Environmental Plus, Inc.
2100 Avenue O
P.O. Box 1558
Eunice, NM 88231
Phone: (505)394-3481
FAX: (505)394-2601

Table of Contents

Executive Summary

Environmental Plus, Inc. (EPI) was notified by EOTT Energy Corporation (EOTT) on 6-Dec-01 regarding a remediation project at EOTT's "Chevron Mark 4-inch" gathering site. EOTT's initial C141 (6-Dec-01) indicates a spill of approximately 20 bbl with approximately 5 bbl recovered. The leak was a result of internal pipeline corrosion. Interim repairs were made on the 4-inch line by clamping, with eventual replacement of a section of the line.

Characterization and remedial work at the site was done by EPI during the period 6-Dec-01 through 13-Feb-02. The "Chevron Mark 4-inch Gathering" site is located 1-mile south of Eunice (approximately 3/8 mile south of the Dynegy Plant) in UL-J, Section 3 T22S R37E. The surface extent of the spill was approximately 540 ft^2 (30'NS X 20'EW). The vertical extent of contamination ranged from 4-ft at the lateral extents down to ~10-ft in the centralized pooling area of the spill area. The spill occurred on property owned by Priscilla Brunson Moody and leased to Greg Holt.

EPI excavated visibly contaminated soils from the site commencing on 6-Dec-01. Composite bottom-hole and sidewall samples were analyzed by Environmental Lab of Texas on 10-Dec-01. Results of these analyses indicated that BTEX and Benzene were below threshold levels throughout the site; however, TPH was above the 1000 ppm threshold level at bottom-hole and some of the sidewall areas. The site was further excavated and re-sampled on 31-Dec-01. Analysis indicated that one area along the north wall of the deeply excavated central area of the spill remained above the TPH threshold limit. This section was further excavated and confirmed to have a TPH level of 58 ppm on 7-Feb-02.

All contaminated spoils materials were removed from the site and disposed of at EPI's land farm. The excavation was backfilled with clean, on-site soil (190 yd^3) purchased from the land owner. After backfilling and contouring was completed in February-02, the area was reseeded in May-02.

1.0 Introduction

This report addresses the site investigation and remediation of the EOTT Energy Pipeline "Chevron Mark 4-Inch" gathering remediation site. Environmental Plus, Inc. (EPI), Eunice, New Mexico was notified on December 6, 2001 by EOTT regarding a 20-bbl crude oil release at this site. EPI responded the same day and commenced excavation of the visibly contaminated spill area. Soils were excavated and sampled to confirm CoC removal during the period 12-Dec-01 to 7-Feb-02. All contaminated soils (190 ft^3) were removed from the site and disposed of at EPI's approved land farm. The excavation was backfilled with clean soil obtained on-site from the land owner. Backfill and contouring of the site was completed in February-02 and reseeding was completed in May-02.

2.0 Background

The site is associated with the EOTT Energy Pipeline – Chevron Mark 4" crude oil gathering pipeline servicing the Chevron Mark #2 tank battery north of the release site. This site is located in Unit Letter J, in the NW¼ of the SE¼ of Section 3 T22S R37E (32°41'12"N and 103°28'12"W), approximately 1 mile south of Eunice, NM and 3/8 of a mile south of the Dynegy Gas Processing Plant located immediately north of the site. The property is owned by Priscilla Brunson Moody and leased to Greg Holt. A topographical map of the site and a detailed site map are included in Attachment I.

The crude oil release occurred on December 6, 2001 with 20 barrels released, and ~5 barrels recovered. The leak was the result of internal pipe corrosion. The pipe was clamped and repaired by EOTT.

3.0 Site Description

3.1 Geological Description

The United States Geological Survey (USGS) Ground-Water Report 6, "Geology and Ground-Water Conditions in Southern Lea County, New Mexico," A. Nicholson and A. Clebsch, 1961, describes the near surface geology of southern Lea County as an intergrade of the Quaternary Alluvium (QA)

sediments, i.e., fine to medium sand, with the mostly eroded Cenozoic Ogallala (CO) formation. Typically, the QA and CO formations in the area are capped by a thick interbed of caliche and generally overlain by sandy soil. The release site is located in the Eunice Plain physiographic subdivision, described by Nicholson & Clebsch as an area "underlain by a hard caliche surface and is almost entirely covered by reddish-brown dune sand." The thickness of the sand cover ranges from 2-5 feet in most areas and as much as 20-30 feet in drift areas.

3.2 Ecological Description

The area is typical of the Upper Chihuahuan Desert Biome consisting primarily of hummocky sand hills covered with Harvard Shin Oak (Querqus harvardi) interspersed with Honey Mesquite (Prosopis glandulosa) along with typical desert grasses and weeds. Mammals represented, include Orrd's and Merriam's Kangaroo Rat, Deer Mouse, White Throated Wood Rat, Cottontail Rabbit, Black Tailed Jackrabbit, and the Mule Deer. Reptiles, Amphibians, and Birds are numerous and typical of area. A survey of Listed, Threatened, or Endangered species was not conducted.

3.3 Area Ground Water

The unconfined ground water aquifer at this site is conservatively estimated to be ~85'bgs. The site is located in the Eunice Plain physiographic area approximately 1-mile south of Eunice, NM. Water Column Reports obtained from the NM State Engineers Office (below) indicate water depths in the range 75'-138'bgs in the southern half of T21S (Average – 72') and in the range 65'-180'bgs in the northern half of T22S (Average – 100'). Ground water gradient in this area is generally to the southeast.

Water Column Report 06/07/02 - NM State Engineers Website

	Southern 1/2 of:				Depth	Depth		Northern 1/2 of:				Depth	Depth
Well No.	Tws	Rng	Sec	qqq*	Well	Water	Well No.	Tws	Rng	Sec	qqq*	Well	Water
CP881	21S	37E	22	443	95	53	CP666	22S	37E	5	2	120	79
CP700	21S	37E	23	2	75	65	CP481	22S	37E	5	222	125	90
CP562	21S	37E	23	221	136	65	CP871	22S	37E	9	3	167	94
CP736	21S	37E	27	13	120	76	CP756	22S	37E	9	442	125	85
CP711	21S	37E	28	24	100	65	CP581	22S	37E	14	222	125	65
CP322	21S	37E	28	3	138	73	CP699	22S	37E	15	1	163	100
CP749	21S	37E	28	342	123	75	CP684	22S	37E	15	11	200	180
CP726	21S	37E	33	42	125	100	CP674	22S	37E	15	21	100	75
					Avg.	72	CP662	22S	37E	15	133	180	150
							CP679	22S	37E	15	33	164	98
							CP709	22S	37E	15	342	200	87
												Avg.	100

3.4 Area Water Wells

All recorded wells are greater than 1000 horizontal feet from the site.

3.5 Area Surface Water Features

No surface water bodies exist within 1000 horizontal feet of the site.

4.0 NMOCD Site Ranking

Contaminant delineation and remedial work done at this site indicate that the chemical parameters of the soil and ground water were characterized consistent with the characterization and remediation/abatement goals and objectives set forth in the New Mexico Oil Conservation Division (NMOCD) approved "***General Work Plan for Remediation of E.O.T.T. Pipeline Spills, Leaks and Releases in New Mexico, July 2000***" and the NMOCD guidelines published in the following documents:

- ***Guidelines for Remediation of Leaks, Spills and Releases (August 13, 1993)***
- ***Unlined Surface Impoundment Closure Guidelines (February 1993)***

Acceptable thresholds for **contaminants/constituents of concern** (CoCs), i.e., TPH^{8015m}, Benzene, and the mass sum of Benzene, Toluene, Ethyl Benzene, and total Xylene (BTEX), was determined based on the NMOCD Ranking Criteria as follows:

- Depth to Ground water, i.e., distance from the lower most acceptable concentration to the ground water.
- Wellhead Protection Area, i.e., distance from fresh water supply wells.
- Distance to Surface Water Body, i.e., horizontal distance to all down gradient surface water bodies.

Based on the proximity of the site to protectable area water wells, surface water bodies, and depth to ground water from the lower most contamination, the NMOCD ranking score for the site is 10 points with the soil remedial goals highlighted in the Site Ranking Matrix presented below.

1. Ground Water	2. Wellhead Protection Area	3. Distance to Surface Water
Depth to GW <50 feet: *20 points*	**If <1000' from water source, or; <200' from private domestic water source: *20 points***	**<200 horizontal feet: *20 points***
Depth to GW 50 to 99 feet: *10 points*		**200-1000 horizontal feet: *10 points***
Depth to GW >100 feet: 0 points	**If >1000' from water source, or; >200' from private domestic water source: *0 points***	**>1000 horizontal feet: *0 points***
Ground Water Score=10	**Wellhead Protection Score= 0**	**Surface Water Score= 0**
Site Rank (1+2+3) = 10 + 0 + 0 = 10 points (for soil 0-35'bgs)		

Total Site Ranking Score and Acceptable Remedial Goal Concentrations

Parameter	20+ (soil 35 – 85' bgs)	**10 (soil 0 – 35'bgs)**	0
Benzene[1]	10 ppm	**10 ppm**	10 ppm
BTEX[1]	50 ppm	**50 ppm**	50 ppm
TPH	100 ppm	**1000 ppm**	5000 ppm

[1]100 ppm field VOC headspace measurement may be substituted for lab analysis

5.0 Subsurface Soil Investigation

The initial subsurface soil analyses were accomplished on December 10, 2001 by obtaining 5-point composite soil samples of bottom-hole and sidewall locations after the area had been excavated to depths displaying lack of visible contamination. The laboratory results of this initial sampling event indicated that Benzene and BTEX were not an issue with the site remediation, and that deeper excavation of the affected area was needed to remove soils with TPH levels above the 1000 ppm acceptable level. The spill area was further excavated during

the period Dec-10 to Dec-31. Composite bottom-hole and sidewall samples were obtained on Dec-31, with analytical data indicating that additional excavation was necessary in the area of the north sidewall of the deeper, central excavation area. This area was excavated further and re-sampled on 02-07-02. Laboratory analysis of this final composite sample indicated that all soil with CoC levels above NMOCD allowable limits have been removed from the site.

Laboratory analytical reports, a summary table of all analytical results and graphical representations of the analytical data are provided in Attachment II.

6.0 Ground Water Investigation

Ground water depth is conservatively estimated to be 85'bgs at the site. The site was excavated to a maximum depth of 10-feet, and was backfilled with clean soil obtained on-site. Final CoC levels of the bottom-hole and sidewalls of the excavation were measured at the following contaminant ranges: TPH – 59 to 334 ppm; Benzene – 0 to 0.025 ppm; BTEX – 0 to 0.434 ppm. There will be no need for further ground water investigation.

7.0 Remediation

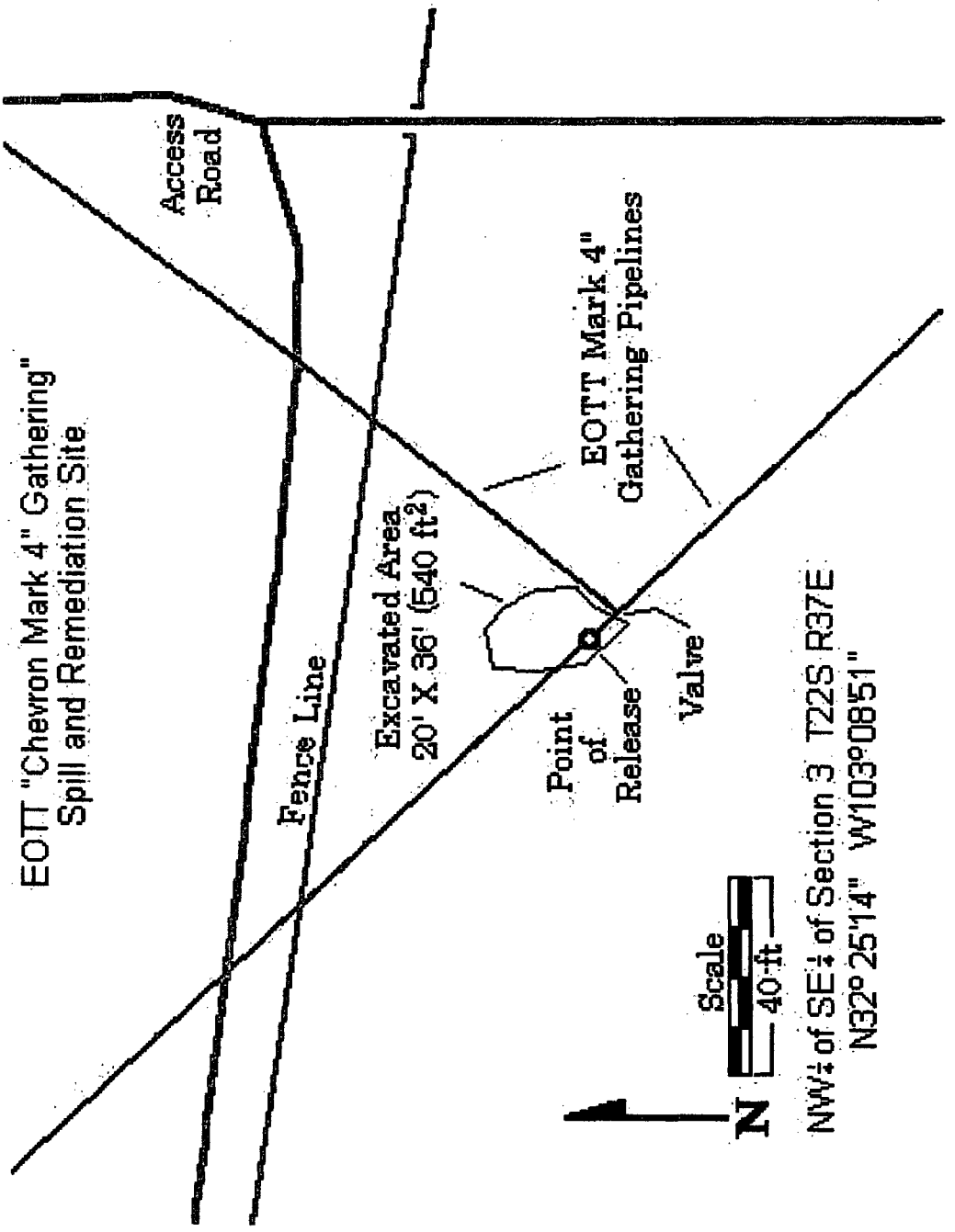
Remediation of the site consisted of excavation and backfill of the delineated extents of CoC contamination. The excavated area was sampled on three occasions to confirm adequate removal of contaminated soils. All contaminated spoils materials were removed from the site and disposed of at EPI's approved land farm. Attenuation levels consistent with NMOCD remedial goals were attained at the site. The site was backfilled, contoured and reseeded as per EOTT and land owner specifications.

8.0 Closure Justification

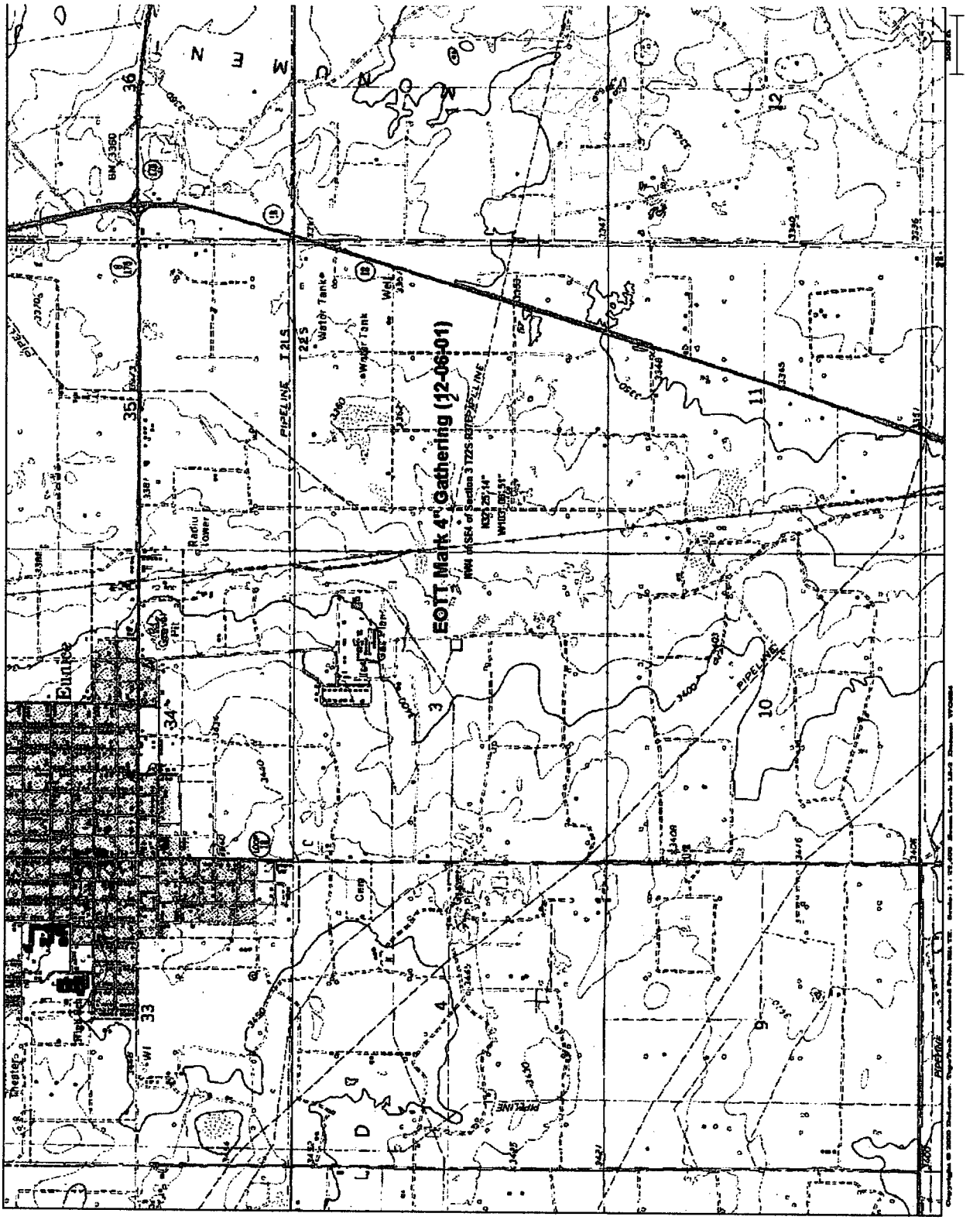
This report documents successful implementation of the Remediation Plan approved by NMOCD and is consistent with the NMOCD approved "***EOTT General Work Plan for Remediation of EOTT Pipeline Spills, Leaks and Releases in New Mexico, July – 2000***". Soil contaminated above acceptable CoC remedial concentrations was excavated and removed from the location. Disposal of contaminated soils was at EPI's approved land farm. The excavation was backfilled with clean soil obtained on-site, properly contoured and reseeded with natural grasses. Based on the data presented in this report, Environmental Plus, Inc., on behalf of EOTT Energy Pipeline, requests that the NMOCD require "no further action" at this site.

Attachment I: Site and Topographic Maps

Site Map: with site features (GPS Demarcation)



Topographic Site Map



Attachment II: Laboratory Analytical Reports and Summaries

Tabular Summary of Analytical Data (12-10-01, 12-31-01, 02-07-02)

E.O.T.T. Energy Pipeline Mark 4" Gathering Ref.# (2001-11204)											
Sample Location	SAMPLE ID#	Sample Date	GRO[1,5] mg/Kg	DRO[2] mg/Kg	TPH[3,4] 8015 mg/Kg	BTEX mg/Kg	Benzene[5] mg/Kg	Toluene mg/Kg	Ehtyl Benzene[5] mg/Kg	m,p-Xylene[5] mg/Kg	o-Xylene[5] mg/Kg
North Sidewall	SEM121001NSWC	12/10/2001				0.132	*0.025*	0.032	*0.025*	*0.025*	*0.025*
East Sidewall	SEM121001ESWC	12/10/2001	259	3270	**3529**	6.218	*0.1*	0.438	1.22	2.95	1.51
Bottom Hole Composite	SEM121001BHC	12/10/2001	50	1540	**1590**	1.557	*0.1*	0.181	0.331	0.714	0.231
West Side Wall	SEM121001WSWC	12/10/2001	198	2380	**2578**	8.603	*0.1*	0.733	1.86	4.44	1.67
South Sidewall	SEM121001SSWC	12/10/2001				0.252	*0.025*	0.039	0.043	0.101	0.044
North Sidewall	SEMG123101NSW	12/31/2001	50	1770	**1820**	0.186	*0.025*	0.052	*0.025*	0.059	*0.025*
South Sidewall	SEMG123101SSW	12/31/2001	*10*	37	47	0.167	*0.025*	0.053	*0.025*	0.039	*0.025*
East Sidewall	SEMG123101ESW	12/31/2001	*10*	97	107	0.434	*0.025*	0.192	0.036	0.154	0.027
West Side Wall	SEMG123101WSW	12/31/2001	*10*	14	24	0.148	*0.025*	0.042	*0.025*	0.031	*0.025*
Bottom Hole Composite	SEMG123101BHC	12/31/2001	*10*	84	94	0.157	*0.025*	0.051	*0.025*	0.031	*0.025*
Bottom Hole Probe	SEMG123101BHG	12/31/2001	*10*	324	334	0.15	*0.025*	0.032	*0.025*	0.043	*0.025*
North Sidewall	SEMG2702NSW	2/7/2002	*10*	49	59	0.125	*0.025*	*0.025*	*0.025*	*0.025*	*0.025*

[1]GRO-Gasoline Range Organics

[2]DRO-Diesel Range Organics

[3]TPH-Total Petroleum Hydrocarbon = GRO+DRO.

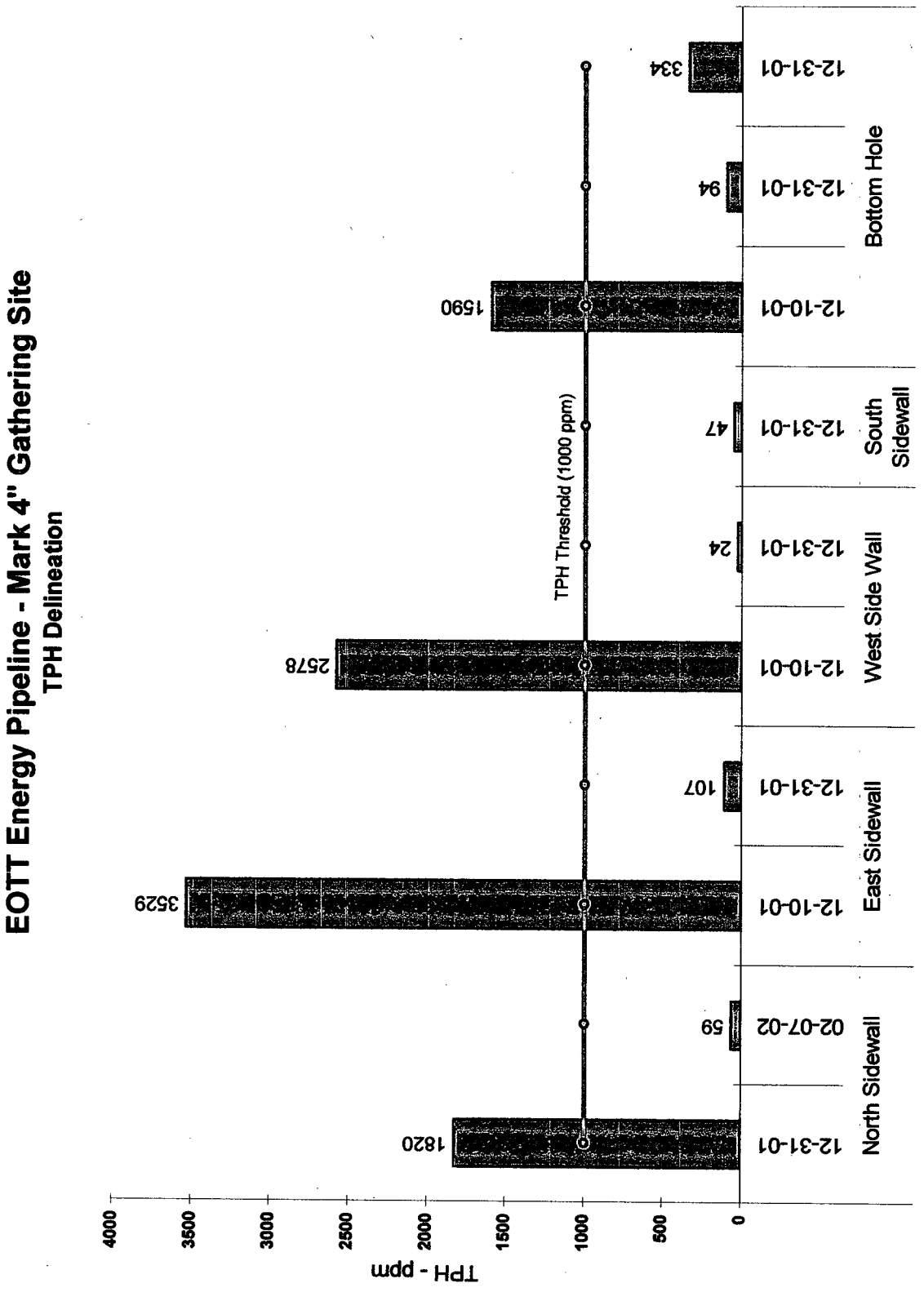
[4]**Bold** values are in excess of the New Mexico Oil Conservation Division guideline threshold for the parameter

[5]*Italicized* values are < the instrument detection limit; considered "de minimus" values and recorded in sums

TPH Method: EPA SW 846-8015M

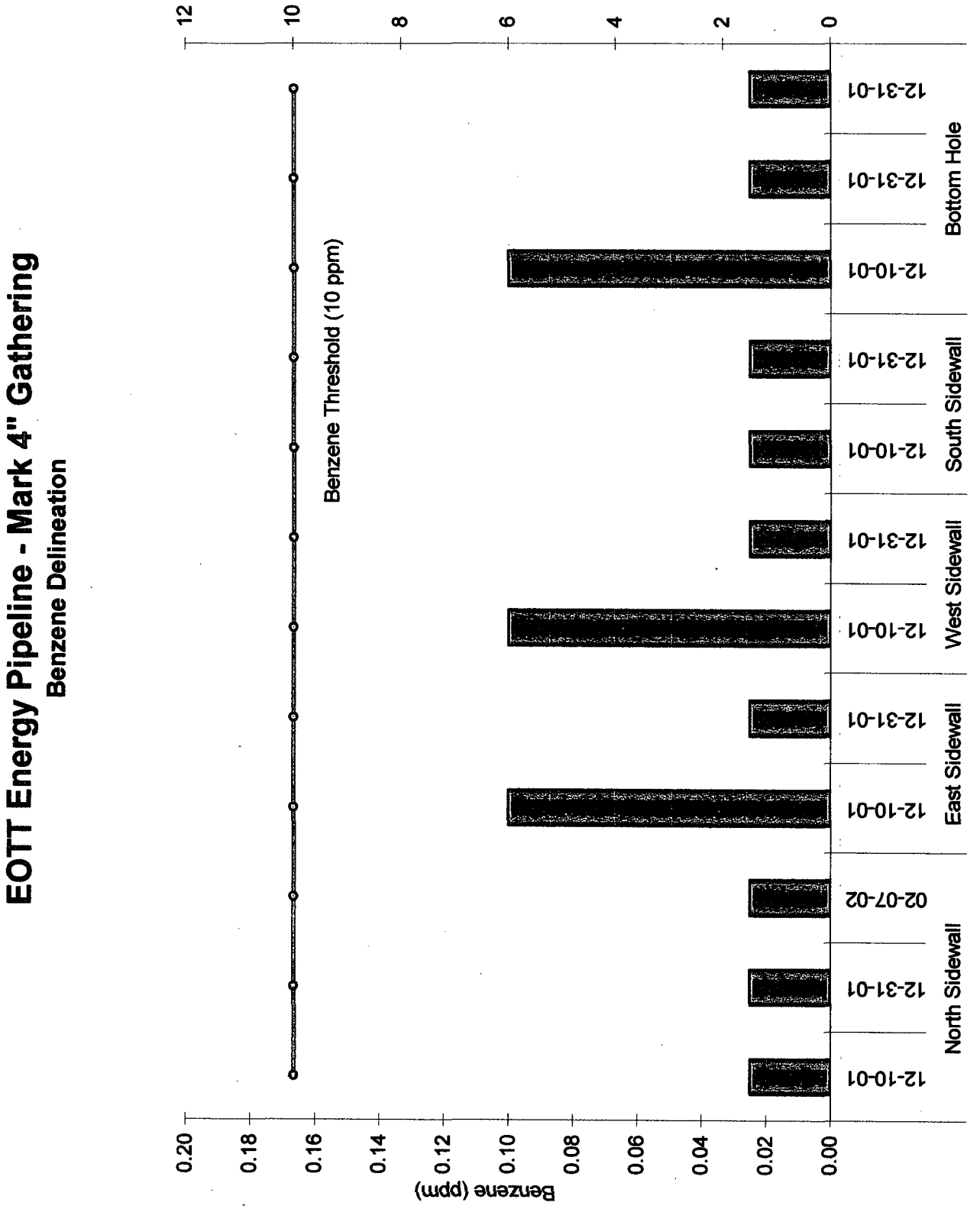
BTEX Methods: EPA SW 846-8021B, 5030, EPA 418.1

BarChart – TPH Delineation



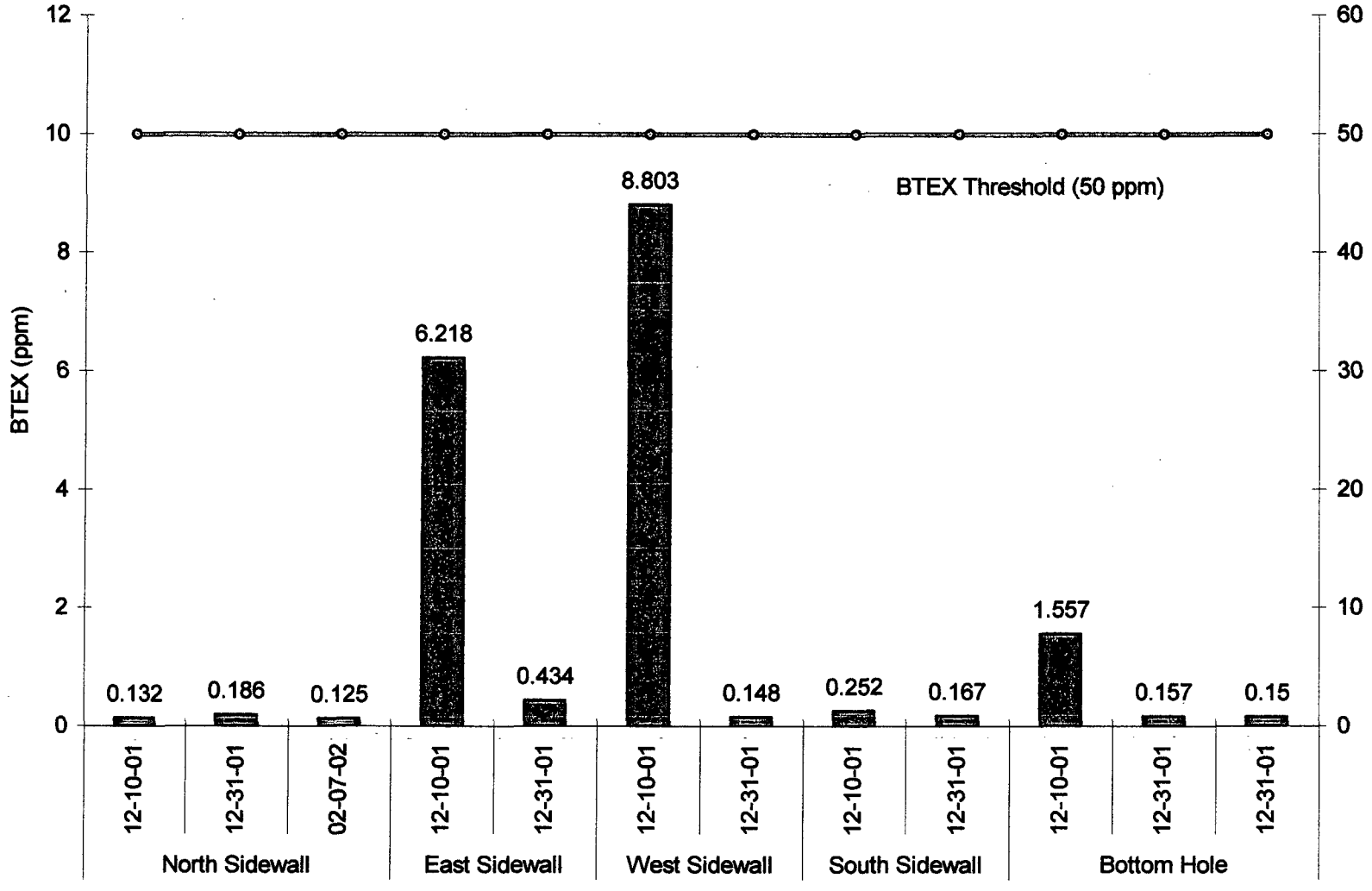
EOTT Mark 4 Gathering Soil Analysis

BarChart – Benzene Delineation



EOTT Energy Pipeline - Mark 4" Gathering

BTEX Delineation



EOTT Mark 4 Gathering Soil Analysis

Lab Analyses and Chain-of-Custody Forms
(6-Dec-01, 31-Dec-01, 7-Feb-02)

ENVIRONMENTAL LAB OF , INC.

"Don't Treat Your Soil Like Dirt!"

EOTT
ATTN: FRANK HERNANDEZ
5805 E. HIGHWAY 80
MIDLAND, TEXAS 79701
FAX: 684-3456
FAX: 505-394-2601 (Pat McCasland)

Sample Type: Soil
Sample Condition: Intact/Iced/ 0.0 deg C,
Project Name: Mark 4"
Project #: None Given
Project Location: None Given

Sampling Date: 12/10/01
Receiving Date: 12/11/01
Analysis Date: 12/13/01

ELT#	FIELD CODE	GRO C6-C10 mg/kg	DRO >C10-C28 mg/kg
0102191-02	SEM121001ESWC	259	3270
0102191-03	SEM121001BHC	<50	1540
0102191-04	SEM121001WSWC	198	2380

QUALITY CONTROL	423	426
TRUE VALUE	500	500
% INSTRUMENT ACCURACY	85	85
SPIKED AMOUNT	476	476
ORIGINAL SAMPLE	<10	64
SPIKE	471	488
SPIKE DUP	453	473
% EXTRACTION ACCURACY	99	89
BLANK	<10	<10
RPD	3.90	3.12

Methods: EPA SW 846-8015M GRO/DRO

Celey D. Keene 12/14/01
Celey D. Keene
Raland K. Tuttle
Date

ENVIRONMENTAL LAB OF , INC.

"Don't Treat Your Soil Like Dirt!"

EOTT
ATTN: FRANK HERNANDEZ
5805 E. HIGHWAY 80
MIDLAND, TEXAS 79701
FAX: 684-3456
FAX: 505-394-2601 (Pat McCasland)

Sample Type: Soil
Sample Condition: Intact/ Iced/ 0.0 deg C
Project Name: Mark 4"
Project #: None Given
Project Location: None Given

Sampling Date: 12/10/01
Receiving Date: 12/11/01
Analysis Date: 12/12/01

ELT#	FIELD CODE	BENZENE mg/kg	TOLUENE mg/kg	ETHYLBENZENE mg/kg	m,p-XYLENE mg/kg	o-XYLENE mg/kg	TPH mg/kg
0102191-01	SEM121001 NSWC	<0.025	0.032	<0.025	<0.025	<0.025	70
0102191-02	SEM121001 ESWC	<0.100	0.438	1.22	2.95	1.51	7010
0102191-03	SEM121001 BHC	<0.100	0.181	0.331	0.714	0.231	5690
0102191-04	SEM121001 WSWC	<0.100	0.733	1.86	4.44	1.67	6140
0102191-05	SEM121001 SSWC	<0.025	0.039	0.043	0.101	0.044	310
	QUALITY CONTROL	0.096	0.099	0.102	0.214	0.104	493
	TRUE VALUE	0.100	0.100	0.100	0.200	0.100	509
	% IA	98	100	101	106	104	97
	SPIKED AMOUNT	0.100	0.100	0.100	0.200	0.100	255
	ORIGINAL SAMPLE	<0.025	0.032	<0.025	<0.025	<0.025	7
	SPIKE	0.100	0.108	0.112	0.226	0.113	269
	SPIKE DUP	0.099	0.106	0.110	0.223	0.112	265
	%EA	100	107	112	113	113	101
	BLANK	<0.025	<0.025	<0.025	<0.025	<0.025	<10
	RPD	1.00	1.87	1.80	1.34	0.89	1.50

METHODS: EPA SW 846-8021B ,5030, EPA 418.1

Celey D. Keene
Raland K. Tuttle

12-13-01
Date

Environmental Lab of Texas, Inc.

12600 West I-20 East
Odessa, Texas 79763
Phone: 915-563-1800
Fax: 915-563-1713

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

Project Manager: FRANK HERNANDEZ
Company Name: EOTT
Company Address:
City/State/Zip:
Telephone No:
Fax No:
Sampler Signature: Rogan Boone

Project Name: MARK 4"
Project #:
Project Loc:
PO #: 2001 -

LAB # (lab use only)	FIELD CODE	Date Sampled	Time Sampled	No of Containers	Preservative	Matrix	Analyze For	RUSH TAT (Pre-Schedule)	Standard TAT
0102191-01	SEM121001 NSWC	12-10	8:35	1		S	BTEX 8021B/5030		
02	SEM121001 ESWC	12-10	8:40	1		S	BTEX 8021B/5030		
03	SEM121001 BHC	12-10	8:45	1		S	BTEX 8021B/5030		
04	SEM121001 WSWC	12-10	8:45	1		S	BTEX 8021B/5030		
05	SEM121001 SSWC	12-10	8:50	1		S	BTEX 8021B/5030		

Special Instructions:
Fax to P. McCasland 505-394-2601

Relinquished by	Date	Time	Received by	Date	Time
Rogan Boone				12/10	
			Received by ELOT	Date	Time
				12-11-01	1635

Sample Containers Intact? (Y) N
Temperature Upon Receipt:
Laboratory Comments:
Rec 0.0°C.
*Add 8015 as per Pat 12-13-01@ 1100
Needs by 12/14 AM

ENVIRONMENTAL LAB OF , INC.

"Don't Treat Your Soil Like Dirt!"

EOTT ENERGY PIPELINE
ATTN: FRANK HERNANDEZ
5805 E. HIGHWAY 80
MIDLAND, TEXAS 79701
FAX: 684-3456
FAX: 505-394-2601 (Pat McCasland)

Sample Type: Soil
Sample Condition: Intact/ Iced/ -0.5 deg C
Project Name: Mark 4" Gathering
Project #: None Given
Project Location: None Given
PO#: 2001-11204

Sampling Date: 12/31/01
Receiving Date: 01/03/02
Analysis Date: 01/03/02

ELT#	FIELD CODE	GRO C6-C10 mg/kg	DRO >C10-C28 mg/kg
0202324-01	SEMG123101NSW	<50	1770
0202324-02	SEMG123101SSW	<10	37
0202324-03	SEMG123101ESW	<10	97
0202324-04	SEMG123101WSW	<10	14
0202324-05	SEMG123101BHC	<10	84
0202324-06	SEMG123101BHG	<10	324
	QUALITY CONTROL	503	456
	TRUE VALUE	500	500
	% INSTRUMENT ACCURACY	101	91
	SPIKED AMOUNT	476	476
	ORIGINAL SAMPLE	<10	37
	SPIKE	435	465
	SPIKE DUP	519	398
	% EXTRACTION ACCURACY	91	90
	BLANK	<10	<10
	RPD	17.6	15.5

Methods: SW 846-8015M

Celey D. Keene
Raland K. Tuttle

1-07-02
Date

ENVIRONMENTAL LAB OF , INC.

"Don't Treat Your Soil Like Dirt!"

EOTT ENERGY PIPELINE
ATTN: FRANK HERNANDEZ
5805 E. HIGHWAY 80
MIDLAND, TEXAS 79701
FAX: 684-3456
FAX: 505-394-2601 (Pat McCasland)

Sample Type: Soil
Sample Condition: Intact/ Iced/ -0.5 deg C
Project Name: Mark 4" Gathering
Project #: None Given
Project Location: None Given
PO#: 2001-11204

Sampling Date: 12/31/01
Receiving Date: 01/03/02
Analysis Date: 01/03/02

ELT#	FIELD CODE	BENZENE mg/kg	TOLUENE mg/kg	ETHYLBENZENE mg/kg	m,p-XYLENE mg/kg	o-XYLENE mg/kg
0202324-01	SEMG123101NSW	<0.025	0.052	<0.025	0.059	<0.025
0202324-02	SEMG123101SSW	<0.025	0.053	<0.025	0.039	<0.025
0202324-03	SEMG123101ESW	<0.025	0.192	0.036	0.154	0.027
0202324-04	SEMG123101WSW	<0.025	0.042	<0.025	0.031	<0.025
0202324-05	SEMG123101BHC	<0.025	0.051	<0.025	0.031	<0.025
0202324-06	SEMG123101BHG	<0.025	0.032	<0.025	0.043	<0.025
	QUALITY CONTROL	0.114	0.114	0.109	0.224	0.111
	TRUE VALUE	0.100	0.100	0.100	0.200	0.100
	% IA	114	114	109	112	111
	SPIKED AMOUNT	0.100	0.100	0.100	0.200	0.100
	ORIGINAL SAMPLE	<0.025	0.028	<0.025	<0.025	<0.025
	SPIKE	0.087	0.087	0.089	0.183	0.093
	SPIKE DUP	0.094	0.094	0.100	0.206	0.103
	%EA	94	93	100	103	103
	BLANK	<0.025	<0.025	<0.025	<0.025	<0.025
	RPD	7.73	7.82	11.6	11.8	10.2

METHODS: EPA SW 846-8021B ,5030

Ral. dk Tuttle
Celey D. Keene
Raland K. Tuttle

1-07-02
Date

Environmental Lab of Texas, Inc
12600 West I-20 East
Odessa Texas 79763
Phone: 915-563-1800
Fax: 915-563-1713

Project Manager: FRANK HERNANDEZ
Company Name: EOTT ENERGY PIPELINE
Company Address: 5805 E. HIGHWAY 80
City/State/Zip: MIDLAND TX 79701
Telephone No: 915-556-0190
Sampler Signature: Bradley Blevins

Project Name: MARK 4" Gathering
Project #:
Project Loc:
PO#: 2001-11204

		Date Sampled	Time Sampled	No. of Containers	ICE	HNO	HCl	NaOH	HSO	None	Other (Specify)	Water	Sludge	Soil	Other (Specify)	Analyze For: TDS/CL/SAR/EC	TCLP/TOTAL: TPH 418.1	TPH TX 1005/1006	TPH 8015M GRO/DRO	Metals	Volatiles	Semivolatiles	btex 8021B/5030	RUSH TAT	Standard TAT
2324-01	SEMG 123101 NSW	12-31	11:45	1	X									X					X				X		
02	SEMG 123101 SSW	12-31	11:47	1	X									X					X				X		
03	SEMG 123101 ESW	12-31	11:50	1	X									X					X				X		
04	SEMG 123101 WSW	12-31	11:55	1	X									X					X				X		
05	SEMG 123101 BHC	12-31	11:57	1	X									X					X				X		
06	SEMG 123101 BHG	12-31	12:00	1	X									X					X				X		

Special Instructions
FAX RESULTS TO PAT MCCASLAND ASAP

Sample Containers Int: Y N
Temperature Upon Request
Laboratory Comments:
-0.5°C

Relinquished:	Date	Time	Received by:	Date	Time
Bradley Blevins	12-31	1:00		1-03-02	10:06
	Date	Time	Received by:	Date	Time
	1-3-02	12:33		1-3-02	12:32

ENVIRONMENTAL LAB OF I, LTD.

"Don't Treat Your Soil Like Dirt!"

EOTT ENERGY PIPELINE
ATTN: FRANK HERNANDEZ
5805 E. HIGHWAY 80
MIDLAND, TEXAS 79701
FAX: 684-3456
FAX: 505-394-2601 (Pat McCasland)

Sample Type: Soil
Sample Condition: Intact/ Iced/ 0.0 deg C
Project Name: Mark 4" Gathering
Project #: 2001-11204
Project Location: None Given

Sampling Date: 02/07/02
Receiving Date: 02/07/02
Analysis Date: 02/07/02

ELT#	FIELD CODE	BENZENE mg/kg	TOLUENE mg/kg	ETHYLBENZENE mg/kg	m,p-XYLENE mg/kg	o-XYLENE mg/kg
0202552-01	SEMG2702NSW	<0.025	<0.025	<0.025	<0.025	<0.025

QUALITY CONTROL	0.113	0.111	0.109	0.225	0.106
TRUE VALUE	0.100	0.100	0.100	0.200	0.100
% IA	113	111	109	112	106
SPIKED AMOUNT	0.100	0.100	0.100	0.200	0.100
ORIGINAL SAMPLE	<0.025	<0.025	<0.025	<0.025	<0.025
SPIKE	0.111	0.111	0.105	0.223	0.100
SPIKE DUP	0.108	0.108	0.103	0.219	0.099
%EA	108	108	103	110	99
BLANK	<0.025	<0.025	<0.025	<0.025	<0.025
RPD	2.74	2.74	1.92	1.81	1.00

METHODS: EPA SW 846-8021B ,5030

Celey D. Keene
Raland K. Tuttle

02/08/02
Date

Environmental Lab of Texas, Inc.

12600 West I-20 East
Odessa Texas 79763

Phone: 915-563-1800
Fax: 915-563-1713

Project Manager: FRANK HERNANDEZ

Company Name: EOTT ENERGY PIPELINE

Company Address: 5805 E. HIGHWAY 80

City/State/Zip: MIDLAND TX 79701

Telephone No: 915-556-0190

Sampler Signature: Cody Miller

Project Name: Mark 4" Gathering

Project #: 2001-11204

Project Loc:

PO#:

Lab #	Field Code	Date Sampled	Time Sampled	No. of Containers	ICE	HNO	HCl	NaOH	HSO	None	Other (Specify)	Water	Sludge	Soil	Other (Specify)	TDS/CL/SAR/EC	TPH 418.1	TPH TX 1005/1006	TPH 8015M GRO/DRO	Metals	Volatiles	Semivolatiles	btex 8021B/5030							RUSH TAT	Standard TAT
0202SS2-01	SEMG2702NSW	2/7/2002	11:30	1	X									X					X				X								

Analyze For: TCLP / TOTAL

Special Instructions

FAX RESULTS TO PAT MCCASLAND ASAP

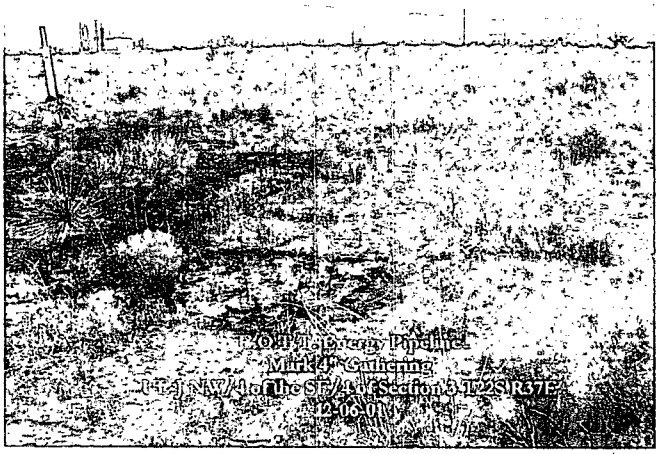
Sample Containers Intact: (Y) N

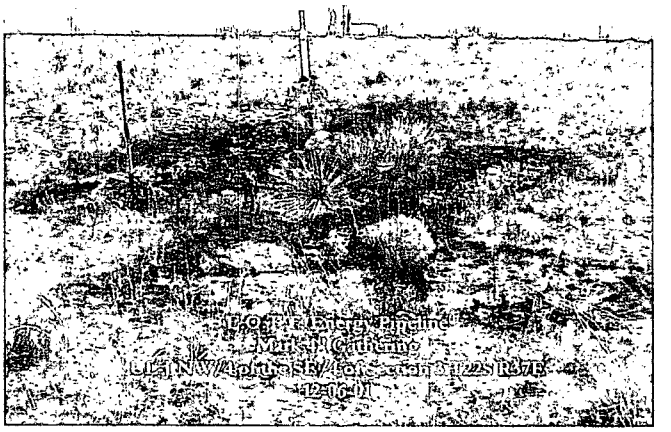
Temperature Upon Request: 0.0°C

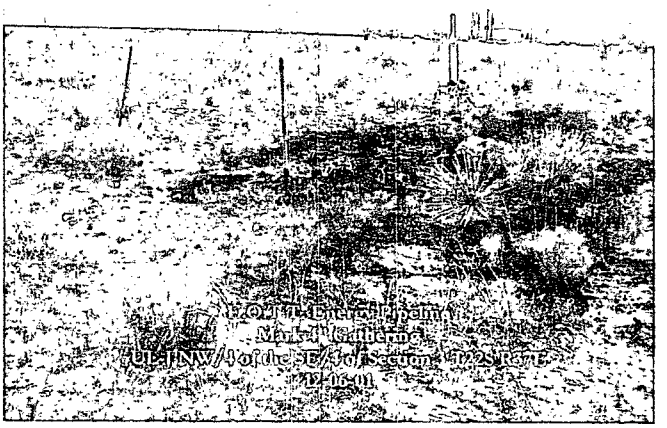
Laboratory Comments:

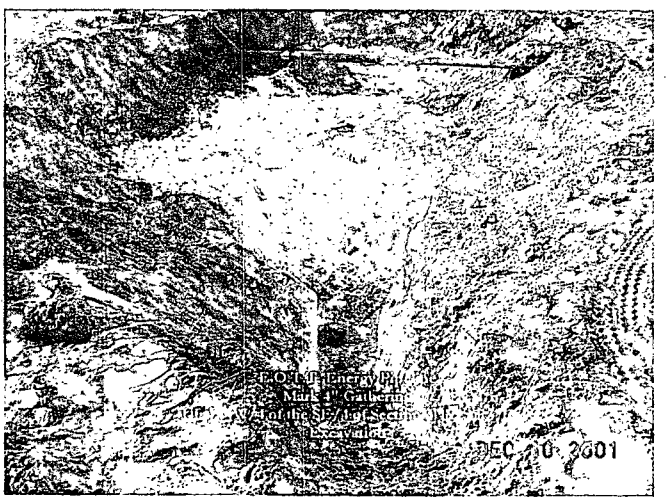
Relinquished	Date	Time	Received by	Date	Time
Cody Miller	2/7/02	12:00	Matt Cruz	2/7/02	1:10
Matt Cruz	2/7/02	2:50	Jeanne McMurray	2-7-2	1450

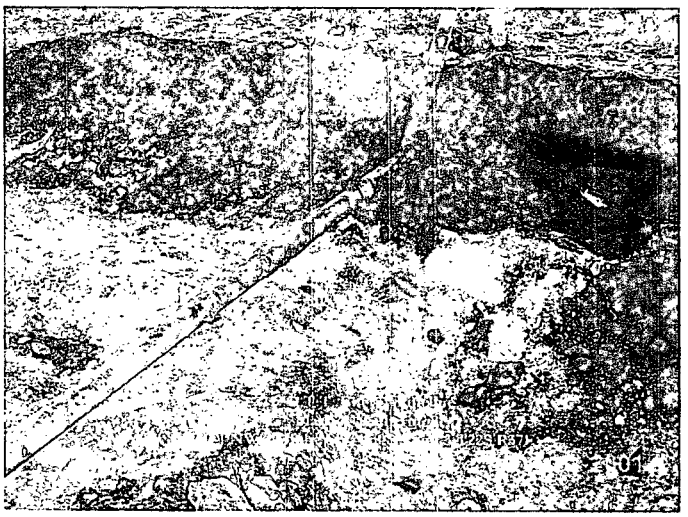
Attachment III: Photographs

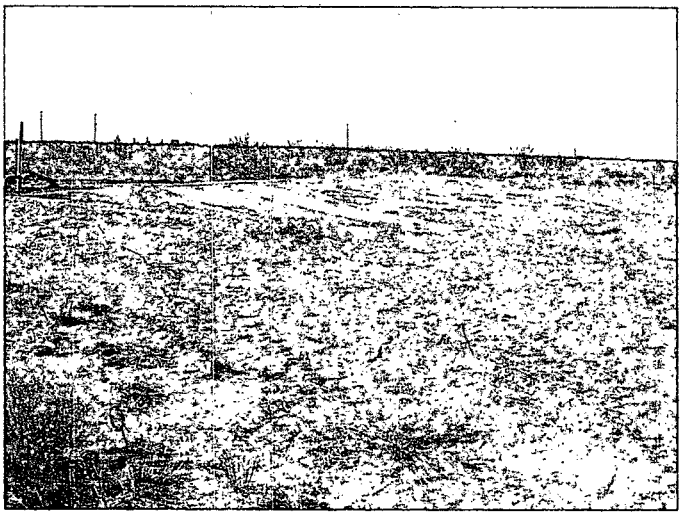


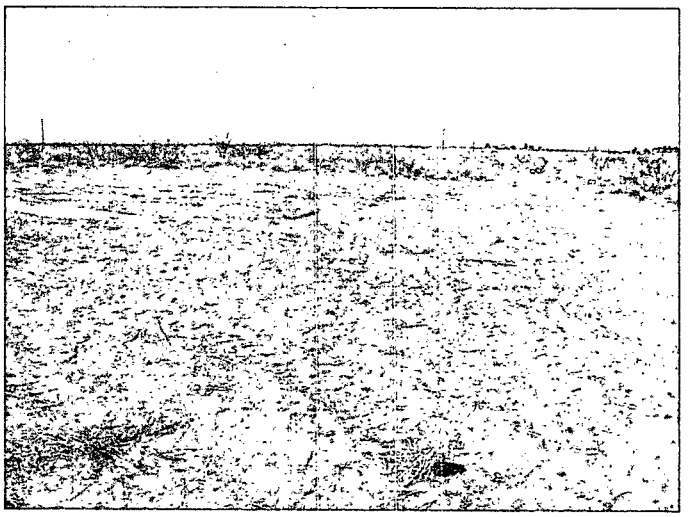


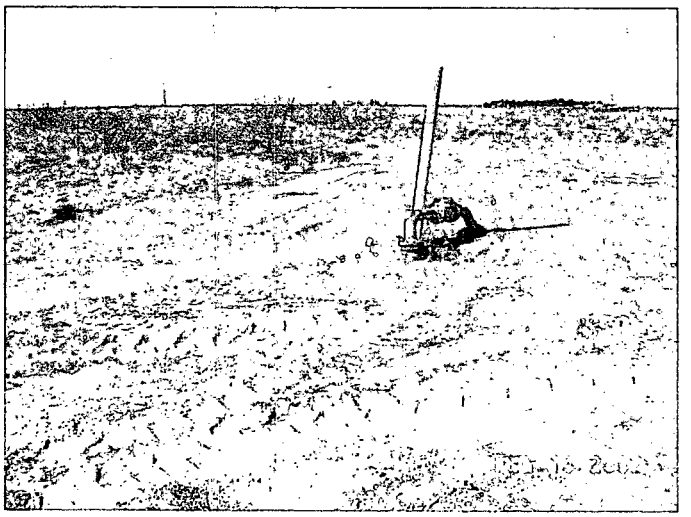


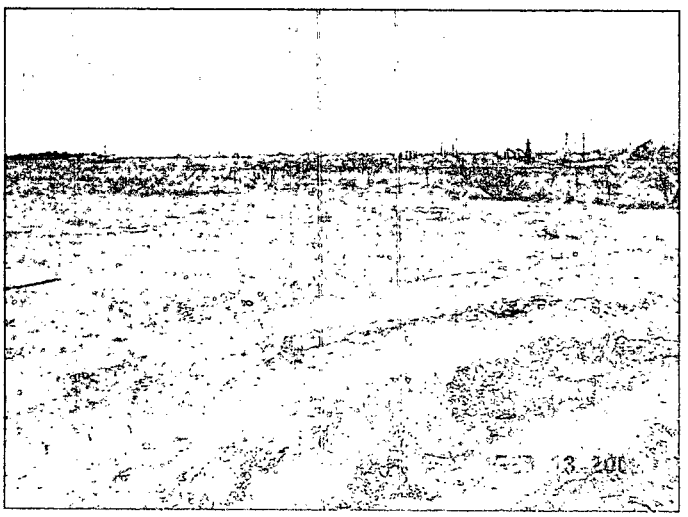


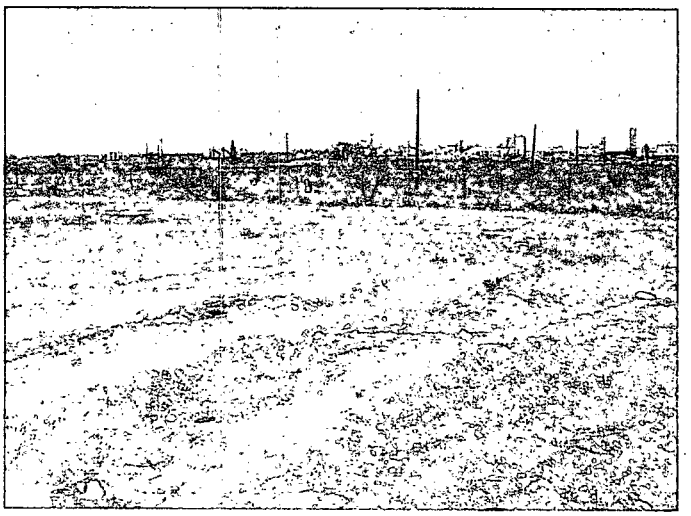












Attachment IV: Regulatory and Summary Forms

Site Information and Metrics	
SITE: Chevron Mark 4" Gathering	Assigned Site Reference #: 2001-11204
Company: EOTT	
Company Street Address:5805 E. Highway 80, Midland, Texas 79701	
Company Mailing Address: P.O. Box 1660	
Company City, State, Zip: Midland, Texas 79702	
Company Representative: Frank Hernandez	
Company Representative Telephone: 915.638.3799	
Company Telephone: 915.684.3451 Fax: 915.687.2713	
Fluid volume released (bbls) = 20 (5 recovered)	
>25 bbls : Notify NMOCD verbally within 24 hrs and submit form C-141 within 15 days. (Also applies to unauthorized releases >500 mcf Natural Gas)	
5-25 bbls: Submit form C-141 within 15 days (Also applies to unauthorized releases of 50-500 mcf Natural Gas)	
Leak, Spill, or Pit (LSP) Name: Chevron Mark 4" Gathering	
Source of contamination: Internal Pipe Corrosion	
Land Owner, i.e., BLM, ST, Fee, Other: Priscilla Brunson Moody (Owner); Greg Holt (Lessor)	
LSP Dimensions: affected area = ~36' NS x ~20' EW	
LSP Area = ~540 ft^2	
Location of Reference Point (RP):	
Location distance and direction from RP:	
Latitude: 32° 25' 14N	
Longitude: 103° 08' 51W	
Elevation above mean sea level: ~ 3327' amsl	
Feet from South Section Line	
Feet from West Section Line	
Location- Unit or ¼¼ = UL-L (or) NW¼ of SE¼	
Location- Section = 3	
Location- Township = T22S	
Location- Range = R37E	
Surface water body within 1000 ' radius of site: None	
Surface water body within 1000 ' radius of site	
Domestic water wells within 1000' radius of site: None	
Domestic water wells within 1000' radius of site	
Agricultural water wells within 1000' radius of site: None	
Agricultural water wells within 1000' radius of site	
Public water supply wells within 1000' radius of site: None	
Public water supply wells within 1000' radius of site	
Depth from land surface to ground water (DG): ~85-feet	
Depth of contamination (DC): 10-feet	
Depth to ground water (DG – DC = DtGW) 75-feet	

1. Ground Water	2. Wellhead Protection Area	3. Distance to Surface Water Body
If Depth to GW <50 feet: *20 points*	If <1000' from water source, or;<200' from private domestic water source: *20 points*	<200 horizontal feet: *20 points*
If Depth to GW 50 to 99 feet: *10 points*		200-100 horizontal feet: *10 points*
If Depth to GW >100 feet: *0 points*	If >1000' from water source, or; >200' from private domestic water source: *0 points*	>1000 horizontal feet: *0 points*
Ground water Score = 10	*Wellhead Protection Area Score= 0*	*Surface Water Score= 0*

Site Rank (1+2+3) = 10+0+0 = 10 points

Total Site Ranking Score and Acceptable Concentrations

Parameter	20 or >	**10-19**	0-9
Benzene[1]	10 ppm	**10 ppm**	10 ppm
BTEX[1]	50 ppm	**50 ppm**	50 ppm
TPH	100 ppm	**1000 ppm**	5000 ppm

[1]100 ppm field VOC headspace measurement may be substituted for lab analysis

District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 South First, Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
2040 South Pacheco, Santa Fe, NM 87505

State of New Mexico
Energy Minerals and Natural Resources

Oil Conservation Division
2040 South Pacheco
Santa Fe, NM 87505

Form C-141
Revised March 17, 1999

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

Release Notification and Corrective Action

OPERATOR

☑ Initial Report ☐ Final Report

Name: EOTT ENERGY PIPELINE	Contact: FRANK HERNANDEZ
Address: 5805 E. Hiway 80 MIDLAND TX 79701	Telephone No.: 915·638·3799
Facility Name: MACK 4" GATHERING	Facility Type: PIPELINE

Surface Owner	Mineral Owner	Lease No.
Priscilla West (c/o Greg Holt 631·3101)		

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
J	3	22S	37E	—	—	—	—	LEA

Lat 32° 25' 14.32" N
Long 103° 08' 51.27" W

NATURE OF RELEASE

Type of Release: Crude Oil	Volume of Release: 20 bbl — Volume Recovered: 5 bbl
Source of Release: 4" Pipeline	Date and Hour of Occurrence: 12·6·01 11:00 AM — Date and Hour of Discovery: 12·6·01 1:00 PM
Was Immediate Notice Given? ☑ Yes ☐ No ☐ Not Required	If YES, To Whom? PAUL SHEELEY
By Whom? FRANK HERNANDEZ	Date and Hour: 12·6·01 3:00 PM
Was a Watercourse Reached? ☐ Yes ☑ No	If YES, Volume Impacting the Watercourse.

If a Watercourse was Impacted, Describe Fully.*

Describe Cause of Problem and Remedial Action Taken.*
4" Steel line / internal corrosion; line excavated & clamped. Soil placed on plastic.

Describe Area Affected and Cleanup Action Taken.* Site Rank is 10 points.
36' X 25' (540 ft²)
Will dispose of contaminated soil in EPT Landfarm & Backfill w/ Clean Soil

Describe General Conditions Prevailing (Temperature, Precipitation, etc.)*
65° F, calm, dry

I hereby certify that the information given above is true and complete to the best of my knowledge and belief.

Signature: F. Hernandez

Printed Name: FRANK HERNANDEZ

Title: District Enviornmental Supervisor

Date: 12·6·01 Phone: 915·638·3799

OIL CONSERVATION DIVISION

Approved by District Supervisor:

Approval Date: Expiration Date:

Conditions of Approval: Attached ☐

* Attach Additional Sheets If Necessary