



ENVIRONMENTAL PLUS, INC. *Micro-Blaze Micro-Blaze Out™*

STATE APPROVED LAND FARM AND ENVIRONMENTAL SERVICES

ENVIRONMENTAL PLUS, INC.

July 16, 2002

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

Subject: EOTT "4-Inch Monument Sour" Final C-141 and Closure Documentation
EOTT Site Reference: 2002-10064

Dear Mr. Johnson:

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 "4-Inch Monument Sour" remediation site (EOTT Reference: 2002-10064). 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 "EOTT General Work Plan for Remediation of EOTT 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.

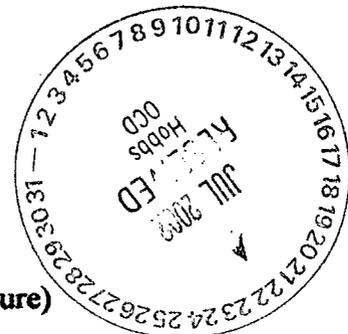
All official correspondence should be addressed to:

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





NEW MEXICO ENERGY, MINERALS and NATURAL RESOURCES DEPARTMENT

GARY E. JOHNSON
Governor
Betty Rivera
Cabinet Secretary

Lori Wrotenbery
Director
Oil Conservation Division

August 27, 2002

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

Frank.Hernandez@eott.com

Re: Closure Approval, 4" Monument Sour Site
Site Reference UL-G, Sec.9 T-21S R-36E
C-141 Final Report Date: July 16, 2002
Closure Request Dated: July 16, 2002

Dear Mr. Hernandez,

The **Final Closure Document 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

District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Avenue, Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy Minerals and Natural Resources

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-141
Revised 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 of Company: EOTT Energy Pipeline, LP	Contact: Frank Hernandez
Address: 5805 E. Hwy 80, Midland, TX 79702	Telephone No.: 915-638-3799
Facility Name: 4" Monument Sour Pipeline	Facility Type: 4" Pipeline

Surface Owner: Millard Deck Estate	Mineral Owner: Millard Deck Estate	Lease No.
------------------------------------	------------------------------------	-----------

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
G	9	21S	36E	3155	South	3000	West	LEA

NATURE OF RELEASE

Type of Release: Crude Oil	Volume of Release: 20 bbl	Volume Recovered: 10 bbl
Source of Release: 4" steel pipeline	Date and Hour of Occurrence: 2/27/02	Date and Hour of Discovery: 1015 2/27/02
Was Immediate Notice Given? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom?	
By Whom?	Date and Hour:	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.	

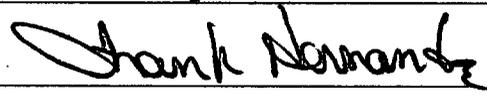
If a Watercourse was Impacted, Describe Fully.*

Describe Cause of Problem and Remedial Action Taken.*

External Corrosion. Line clamp replaced to repair pipeline and pooled oil was recovered. Environmental Plus, Inc., Eunice, NM contracted to remediate site.

Describe Area Affected and Cleanup Action Taken.* Approximate 12' X 78' (521-ft²) affected by spill. Spill affected area excavated down to 4-ft bgs average (14-ft bgs at POR) to remove contaminated soils. Contaminated soils disposed of in EPI's approved land farm. Bottom-hole and sidewall composite sampling of in-situ soil confirms that contaminated soils have been removed from the site. Excavation was backfilled by EPI with clean soil obtained off-site.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

Signature: 	OIL CONSERVATION DIVISION	
Printed Name: Frank Hernandez	Approved by District Supervisor:	
Title: District Environmental Supervisor	Approval Date:	Expiration Date:
Date: July 16, 2002 Phone: 915-638-3799	Conditions of Approval:	Attached <input type="checkbox"/>

* Attach Additional Sheets If Necessary

EOTT ENERGY PIPELINE, LP

IRP-77
10-6-05

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

4" MONUMENT SOUR
EOTT REF: #2002-10064

UL-G SW¼ OF THE NE¼ OF SECTION 9 T21S R36E
~7.5 MILES NORTHWEST OF EUNICE @ BEARING 302°
LEA COUNTY, NEW MEXICO

LATITUDE: 32°29'42"N

LONGITUDE: 103°16'09"W

JULY 16, 2002

PREPARED BY:

Environmental Plus, Inc.

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

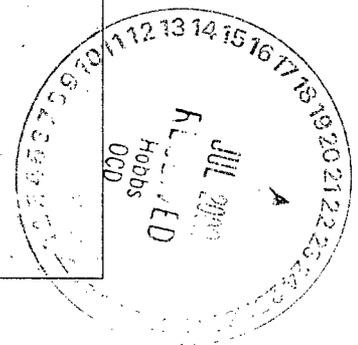
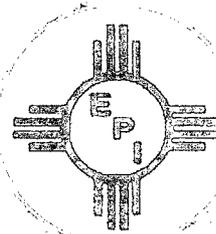


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Executive Summary

Environmental Plus, Inc. (EPI) was notified by EOTT Energy Corporation (EOTT) on February 27, 2002 regarding the crude oil spill at EOTT's "4-Inch Monument Sour" pipeline facility. EOTT's Initial Release Report indicates that the spill was discovered at 10:15 AM on 02-27-02 by routine air patrol. The release was estimated at 20 bbl of crude oil, with approximately 10 bbl recovered. The leak was due to external corrosion of an existing clamp. Repairs were made on the 4-inch pipeline by replacing the clamp.

EOTT's "4-Inch Monument Sour" site is located 7.5 miles NW of Eunice, NM (SW¼ of NE¼ of Section 09 T21S R36E). Geographically the site is located at Latitude 32°29'42"N and Longitude 103°16'09"W. The spill-affected area was within the pipeline right-of-way and encompassed an area approximately 591-ft² (78-ft EW X 12-ft NS). The water table was measured to be 158.3-ft bgs at the water well located 432-ft west of the Point of Release. The property is owned by the Millard Deck Estate.

EPI assumed this project on 2-27-02 and commenced with the site survey, spill containment, soil sampling protocol and excavation of the site. EPI excavated and disposed of 620-yd³ of contaminated soil from the spill affected area (maximum excavation depth was 14-ft at a pooling area near the Point of Release). The contaminated soil was disposed of in EPI's approved land farm. Bottom-hole composite soil samples were collected from the east and west pooling areas on 3-08-02 and 4-10-02, and submitted for TPH and BTEX analysis to Environmental Lab of Texas. Composite sidewall samples were taken from the perimeter of the excavation (5-ft intervals) on 4-10-02 and analyzed for VOC levels utilizing Portable Ionization Detection (PID) technology. All sidewall VOC levels were <30 ppm. The sidewall VOC levels combined with the results of the TPH and BTEX analyses of the final bottom-hole composite samples indicated that the vertical and horizontal extents of contaminated soil had been adequately removed from the site to achieve NMOCD remedial goals. The site was backfilled with clean soil obtained off-site, contoured and re-seeded in May-02.

1.0 Introduction

This report addresses the site investigation and remediation of the EOTT Energy Pipeline "4-Inch Monument Sour" (EOTT Reference #2002-10064) crude oil spill site. Environmental Plus, Inc. (EPI), Eunice, New Mexico was notified immediately after EOTT became aware of the release on 2-27-02 and commenced remedial activity at the site. The net 10-barrel release (20 bbl released - 10 bbl recovered) affected an approximate 78' X 12' (591-ft², linear East to West) area. 620-yd³ of contaminated soil (maximum depth 14-ft bgs) was excavated from the site to achieve residual contamination levels below NMOCD remedial goals. The contaminated soil was analyzed for RCRA hazardous characteristics and was approved for disposal in EPI's permitted land farm. The excavation was backfilled with clean soil obtained off-site, contoured and re-seeded in May-02.

2.0 Background

The site is associated with the EOTT Energy Pipeline - 4" Monument Sour crude oil pipeline facility. This site is located in UL-G, the SW¼ of the NE¼ of Section 09 T21S R36E. The site is approximately 7.5 miles west-northwest (@ bearing 302°) of Eunice, Lea County, New Mexico at Latitude 32°29'42"N and Longitude 103°16'09"W. The property is owned by the Millard Deck Estate. A site location map and a detailed topographical map of the site are included in Attachment I as Plate 1 and Plate 2. Detailed site drawings with key features are provided in Attachment I as Plates 3 and 4.

The crude oil release occurred on February 27, 2002. The release was estimated to be 20 barrels of crude oil with an estimated 10 barrels recovered. The leak was the result of external corrosion of an existing clamp. The pipe was repaired by replacement of the corroded clamp.

3.0 Site Descriptions

3.1 Geohydrology

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 northeastern area of the Eunice Plain physiographic subdivision. Nicholson & Clebsch describe the Eunice Plain as being "underlain by a hard caliche surface and is almost entirely covered by reddish-brown dune sand. In some places the underlying surface consists of alluvial sediments – most commonly calcareous silt in buried valleys or Quaternary lake basins."

The subsurface at the site is composed of sand, sandstone and caliche layers that overlie a horizon of red clay that corresponds to the Triassic Dockum Formation locally called the "red bed" formation. The Triassic "red bed" formation serves as the lower confining strata for the locally present Ogallala Aquifer present in the alluvial sands above the "red bed" clay formation.

The depth to ground water of 158.3-ft bgs was measured at a water well located 432-ft west of the Point of Release. This well is unsealed and used solely to supply water to a stock watering tank located ~60-ft north of the water well. Proximal water well data obtained from the NM State Engineer's Office (see page 11, Attachment I) indicates that this depth to water is expected in this area of the Eunice Plain. Ground water gradient is to the southeast.

3.2 Ecology

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

3.3 Area Water Wells and/or Surface Water Features

There are no public or domestic use water wells within 200-ft of the release site. There are no water wells of any type within 1000-ft side-gradient or down-gradient of the release site. A stock watering well exists 432-ft west-northwest (up-gradient) of the release site and has measured depth to water of 158.3-ft bgs. There are no surface water bodies within 1000 horizontal feet of the site.

4.0 NMOCD Site Ranking

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), were 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 public or domestic use water wells, surface water bodies, and depth to ground water from the lower most contamination, the NMOCD ranking score for the site is 0 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=0		Wellhead Protection Area Score= 0		Surface Water Score= 0	
Site Rank (1+2+3) = 0 + 0 + 0 = 0 points (for soil 0-25'bgs)					
Total Site Ranking Score and Acceptable Remedial Goal Concentrations					
Parameter	20+ (soil 26 – 75' bgs)	10 (soil 0 – 25'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 laboratory analysis					

5.0 Subsurface Soil Investigation

Because of EPI's same-day response to this spill incident, it was deemed expedient to forego a borehole and soil analysis investigation to determine horizontal and vertical extents of hydrocarbon contamination at this site. The horizontal extents of the spill were clearly visible from the surface and vertical extent was visually determined while the excavation was in progress. The spill area was excavated to an overall depth of 4-ft, with two pooling areas (east and west) requiring deeper excavation to achieve contaminant removal. Residual bottom-hole contamination levels for the east and west pooling areas were determined by composite analysis for BTEX and TPH constituents. Lateral contamination extent of the spill was confirmed with VOC analysis utilizing portable Photo Ionization Detection (PID) technology. VOC levels of <30 ppm were achieved at 5-ft perimeter intervals at a depth of 4-ft.

The BTEX levels for the bottom-hole composite samples were all below the NMOCD remedial goal of 50 mg/kg for this site.

The composite bottom-hole TPH level for the east pooling area (POR) was 481 mg/kg at a depth of 14-ft. The composite bottom-hole TPH level for the west pooling area was 1586 mg/kg at a depth of 4-ft. An additional 1-ft of soil was removed from this west pooling area to remove all visibly discolored soil.

Tabular summaries of analytical results for the bottom-hole composite samples and contaminated soil hazardous characterization (RCRA) are included in Attachment II as Tables I and II. Graphical representations of the in-situ soil TPH, BTEX and Benzene levels (composite samples) are included in Attachment II as Plate 5.

6.0 Ground Water Investigation

Ground water depth is >155-feet bgs at the site. This depth to water is based on measurement of an existing water well located 432-ft west-northwest of the release site (see Plate 3). Depth to water at this stock watering well was measured to be 158.3-ft bgs. Proximal well data obtained from the NM Office of the State Engineer database (see Page 11, Attachment I) confirms that water depths in this range would be expected in this area of Lea County. The site was excavated to a maximum depth of 14-ft (>140-ft above water level), and was backfilled with clean material obtained off-site and hauled to the location. Composite bottom-hole soil analyses of the two pooling areas within the spill affected area confirm residual BTEX and TPH levels of less than 50 mg/kg and less than 5000 mg/kg respectively. Effectively, all hydrocarbon contaminated soil above NMOCD

remedial goals was removed from the site and properly disposed of at EPI's approved land farm. There should be no need for a ground water investigation at this site.

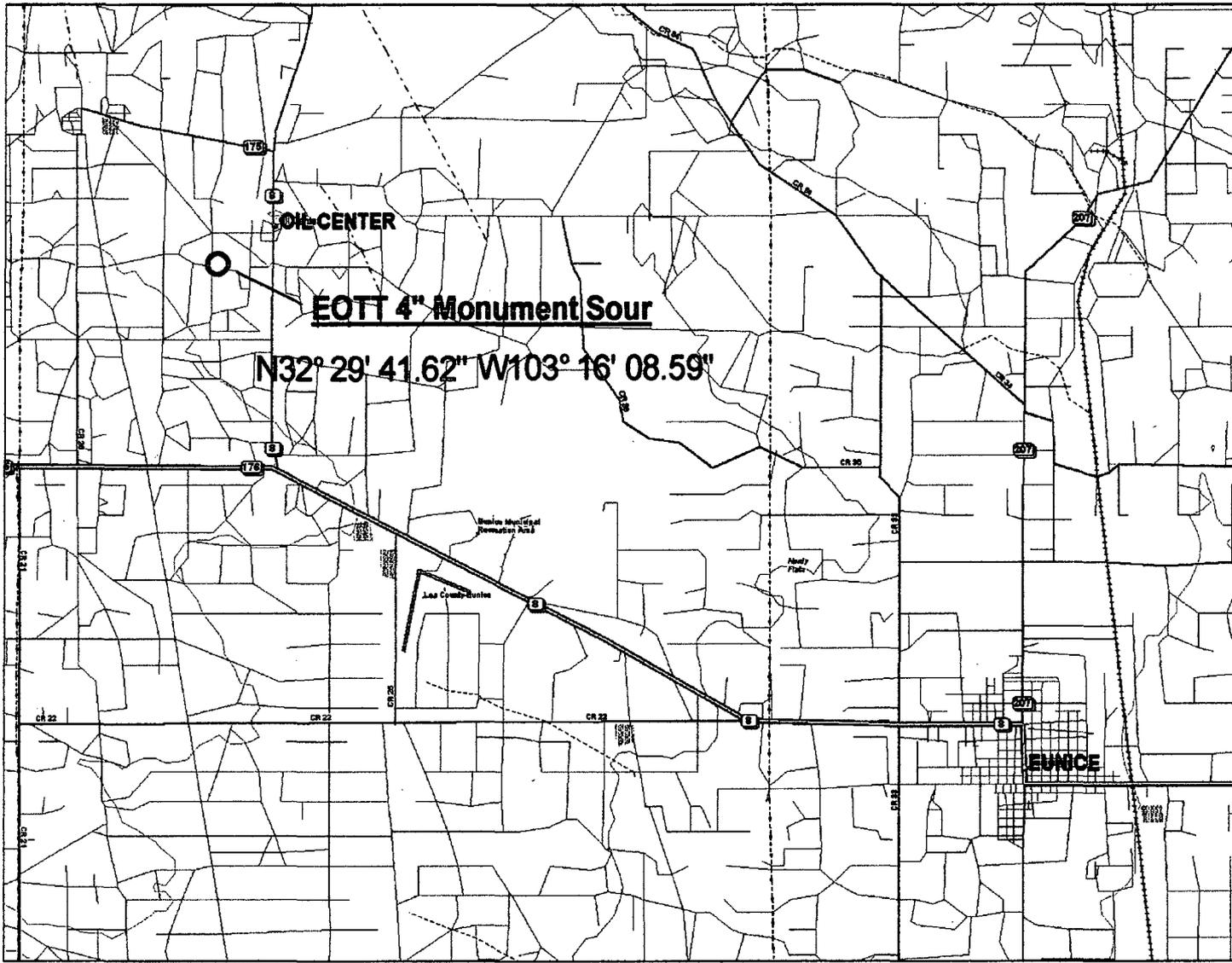
7.0 Remediation

Remediation of the site was completed in May-02 by EPI. A total of 620-yd³ of hydrocarbon contaminated soil was excavated (maximum depth 14-ft) and disposed of at EPI's permitted land farm. Bottom-hole and bottom sidewall soil analyses indicate that all soil contaminated above NMOCD remedial goals was removed from the site. The excavation was backfilled with clean material, contoured and reseeded with natural grasses.

8.0 Closure Justification

This report documents successful implementation of the Remediation Plan approved by NMOCD and is consistent with the NMOCD approved "**E.O.T.T. General Work Plan for Remediation of E.O.T.T. Pipeline Spills, Leaks and Releases in New Mexico, July - 2000**". Soil contaminated above acceptable CoC remedial concentrations was excavated and disposed of off-site at EPI's land farm. The excavation was backfilled with clean material, properly contoured and reseeded with natural grasses. Based on the data presented in this report, Environmental Plus, Inc., on behalf of E.O.T.T. Energy Pipeline LP, requests that the NMOCD require "no further action" at this site.

Attachment I: Site and Topographic Maps



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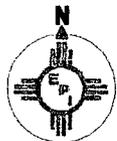
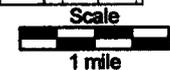


Plate 1: Site Location Map
EOTT Energy Pipeline LP - 4" Monument Sour (2002-10064)
Lea County, NM; UL-G Section 9 T21S R36E

Created By: JCG
Date: July-02
Revised:

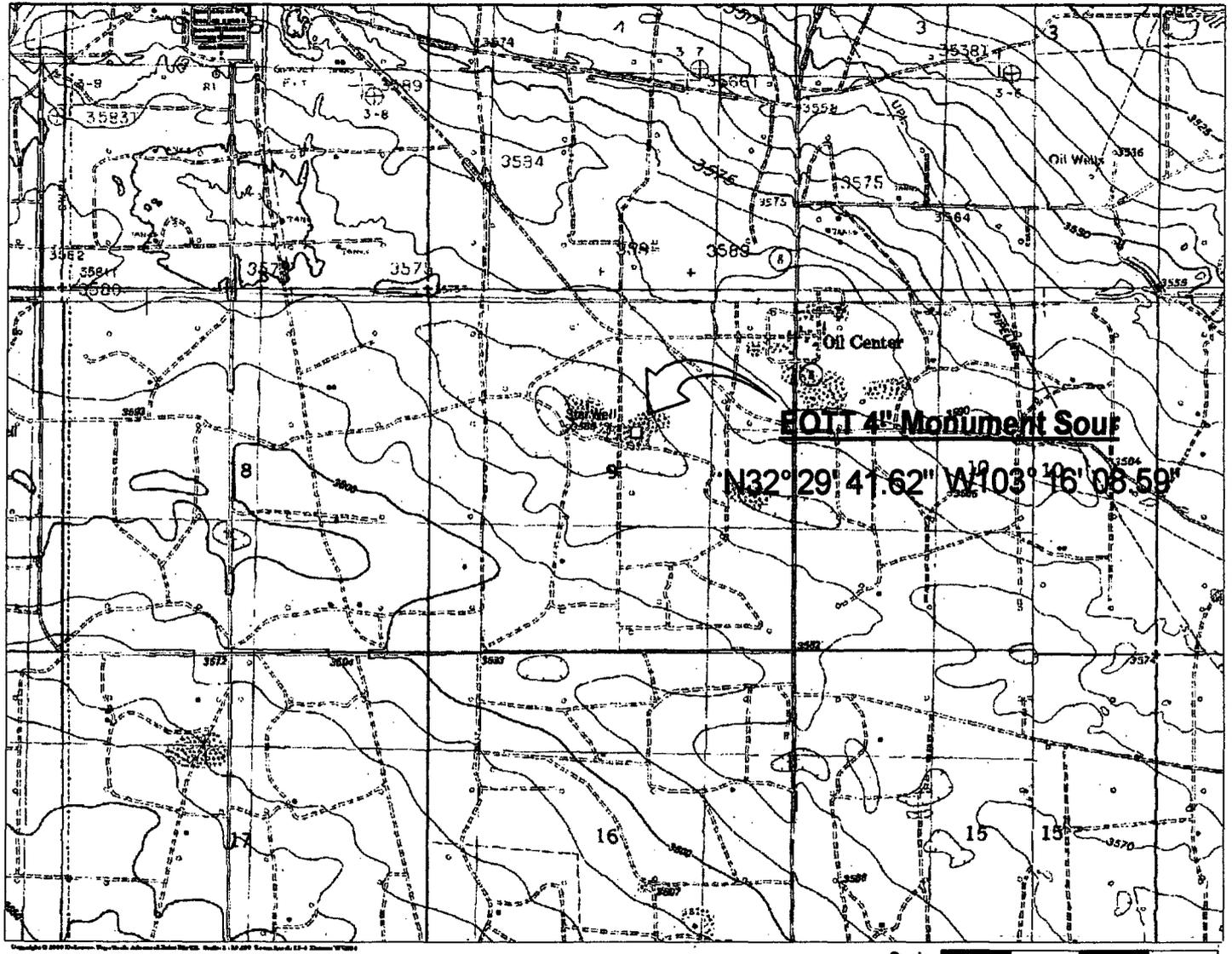


Plate 2: Site Topography Map
EOTT Energy Pipeline LP - 4" Monument Sour (2002-10064)
Lea County, NM; UL-G Section 9 T21S R36E

Created By: JCG
Date: July-02
Revised:

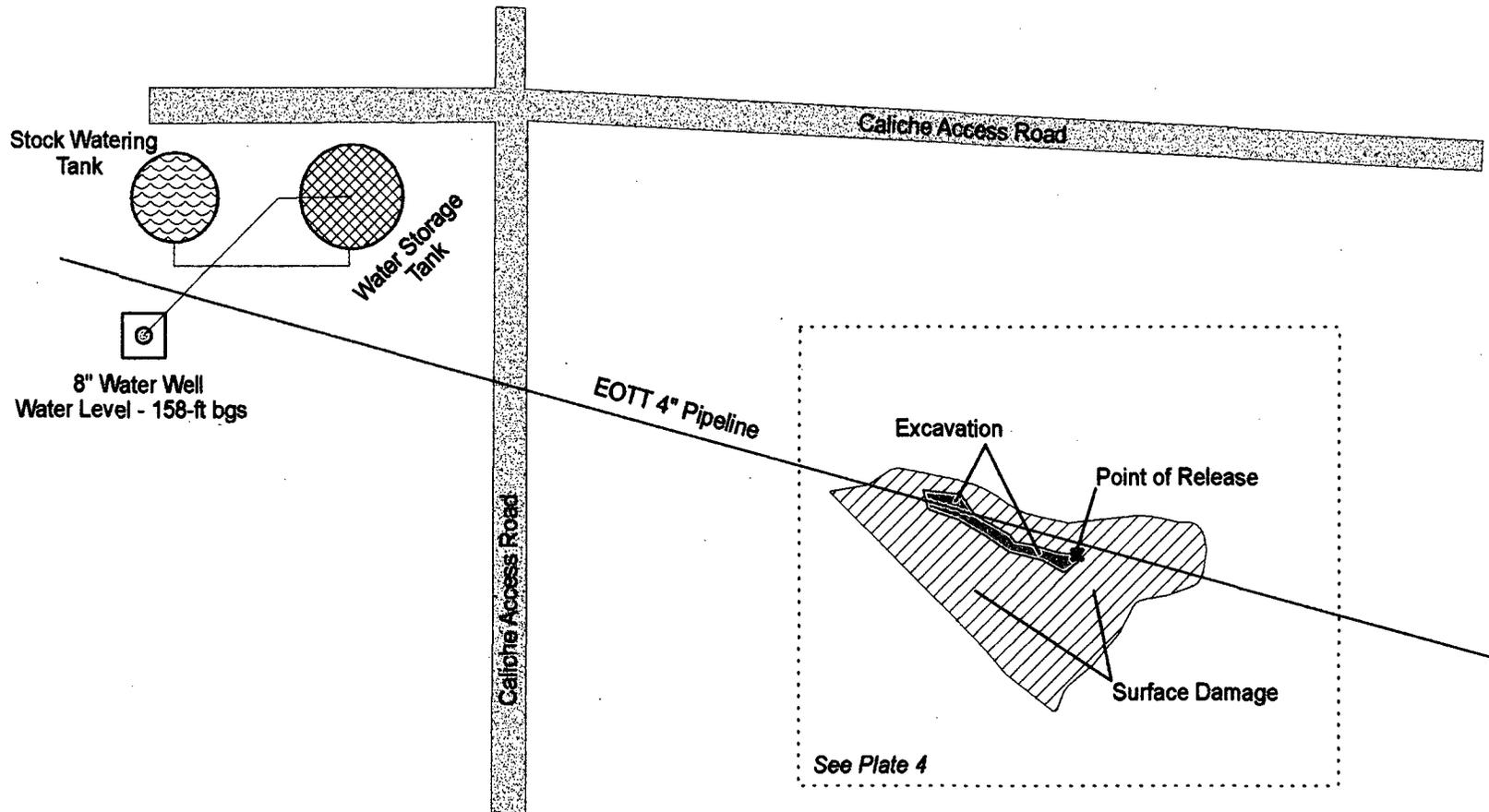
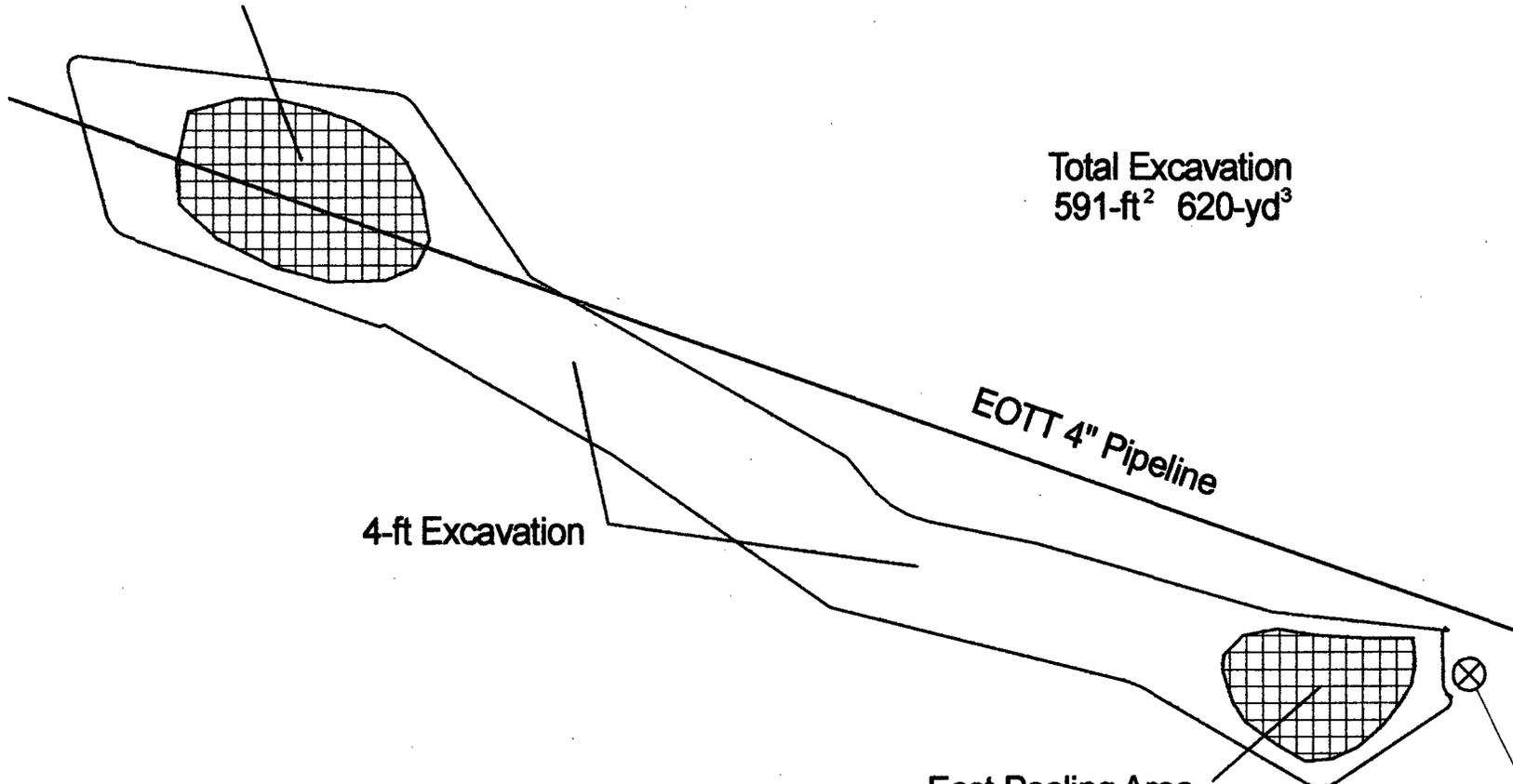


Plate 3: GPS Demarcation Site Map
 EOTT Energy Pipeline LP - 4" Monument Sour (2002-10064)
 Lea County, NM; UL-G Section 9 T21S R36E

Drawn By: JCG
 Date: July-02
 Revised:

West Pooling Area
5-ft Excavation



Total Excavation
591-ft² 620-yd³

EOTT 4" Pipeline

4-ft Excavation

East Pooling Area
14-ft Excavation

Point of Release

10

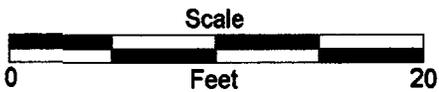


Plate 4: Detailed GPS Demarcation Site Map
EOTT Energy Pipeline LP - 4" Monument Sour (2002-10064)
Lea County, NM; UL-G Section 9 T21S R36E

Drawn By: JCG
Date: July-02
Revised:

Table I - Water Well Database Reports
T21S R36E - All Sections

WATER COLUMN REPORT 07/12/2002							
Well Number	TWS	RNG	Section	Q Q Q	Well Depth	Water Depth	Water Column
CP 00734	21S	36E	10	1	215	200	15
CP 00505	21S	36E	16	2	215	195	20
CP 00676	21S	36E	18	4 4 1	140	106	34
CP 00664	21S	36E	23	2	185	150	35
CP 00882	21S	36E	23	2	160		
CP 00484	21S	36E	25	4 2	207	148	59
(quarters are 1=NW 2=NE 3=SW 4=SE); biggest to smallest							

Attachment II:
Laboratory Analytical Reports and Summaries

EOTT Energy Pipeline - 4" Monument Sour

Excavation (Bottom Hole) Sampling Results

Bold highlighted cells indicate values in excess of the NMOC remedial action guideline thresholds: TPH = 1000 mg/Kg; Benzene = 10 mg/Kg; BTEX = 50 mg/Kg

Sample Date	Sample Location	Depth (ft-bgs)	SAMPLE ID#	Sample Type ¹	GRO ² (mg/kg)	DRO ³ (mg/kg)	TPH ⁴ (mg/kg)	BTEX ⁵ (mg/kg)	Benzene (mg/kg)	Toluene (mg/kg)	Ethyl Benzene (mg/kg)	m,p-Xylene (mg/kg)	o-Xylene (mg/kg)
3/5/2002	Point of Release	2.5-ft	SE4MS3502POR-2.5	Comp	961	2850.0	3811	37.661	0.341	7.260	10.200	14.400	5.460
3/8/2002	West Bottom-Hole	4-ft	SE4MS3502WBH	Comp	156	1430	1586	0.125	0.025	0.025	0.025	0.025	0.025
3/8/2002	East Bottom-Hole	4-ft	SE4MS3502EBH	Comp	1660	5040	6700	37.537	0.077	3.040	9.840	17.800	6.780
4/10/2002	East Bottom-Hole	14-ft	SE4MS41002EBH	Comp	105	376.0	481	24.300	0.200	3.010	6.120	11.600	3.370

¹ Composite, Grab or Calculated Value ² GRO - Gasoline Range Organics (Detection Limit = 10 mg/Kg) ³ DRO - Diesel Range Organics (Detection Limit = 10 mg/Kg)

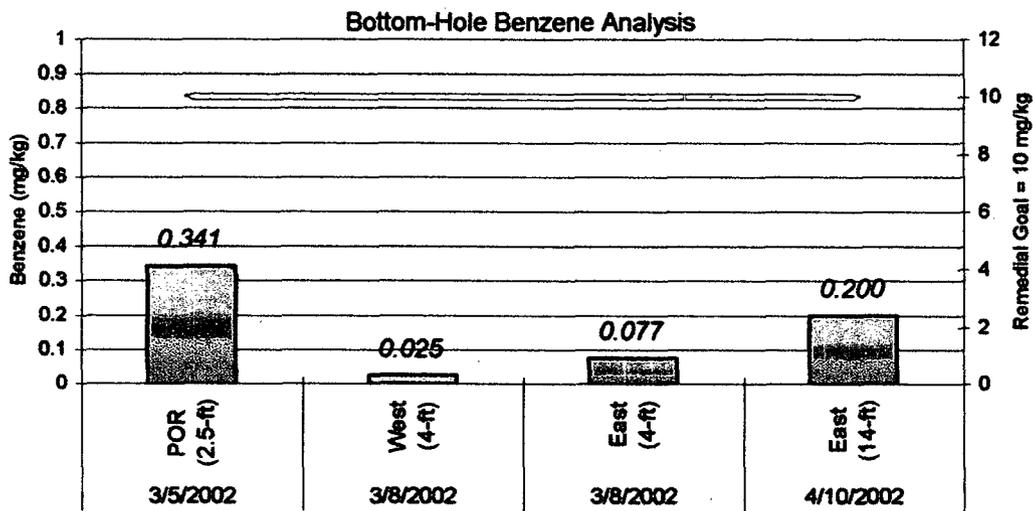
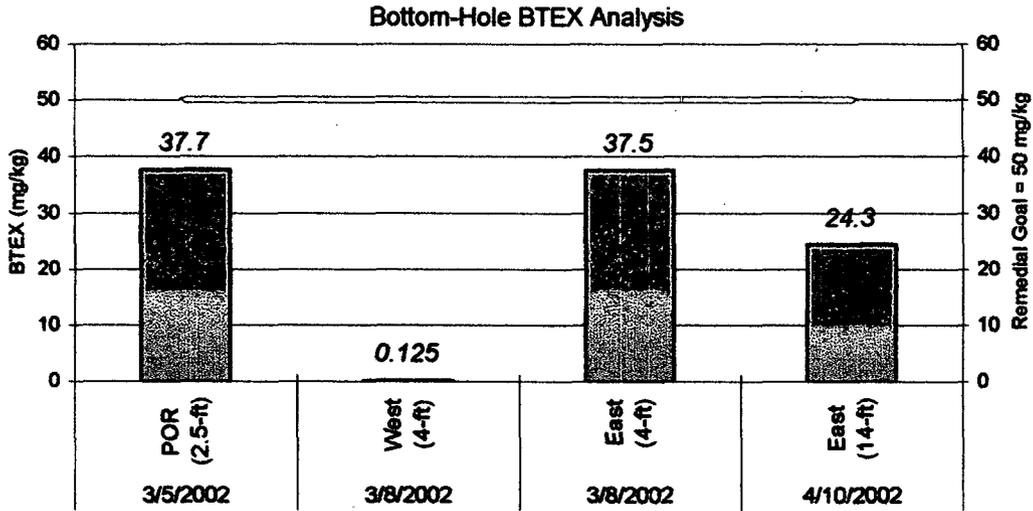
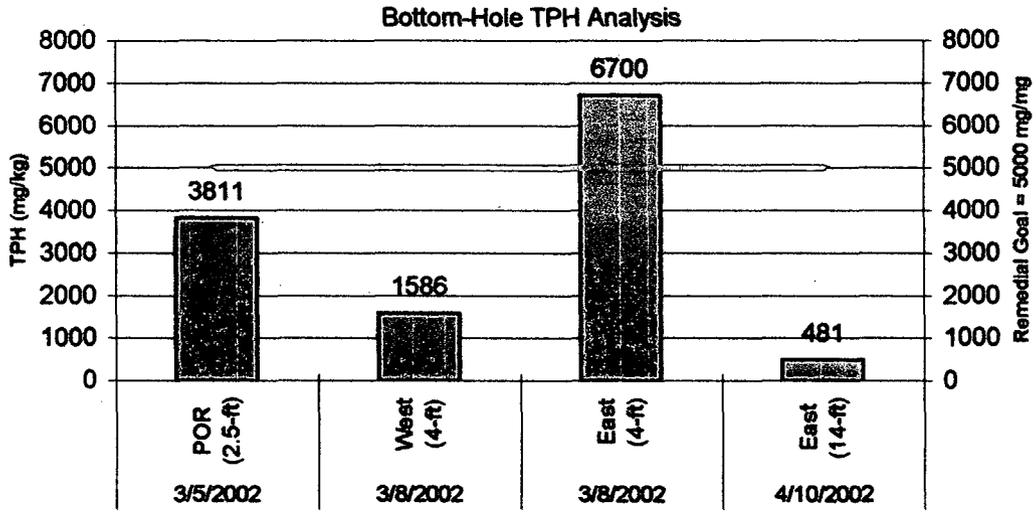
⁴ TPH = (GRO+DRO) ⁵ BTEX = Sum of CoC's (Detection Limit = 0.025 mg/Kg) Note: < detection limit is considered "de minimus" value and is included in TPH or BTEX summation.

**Table II: Bottom Hole Soil Analyses
EOTT Energy Pipeline - 4" Monument Sour (2002-10064)
Lea County, NM; UL-G Section 9 T21S R36E**

Analysis Category	Sample Date	SAMPLE ID#	Test Method	Parameter	Units	Result	RL
TPH	3/1/2002	SEEB43102SP*	8015M	GRO; C ⁶ -C ¹²	mg/l	5920	100
	3/1/2002	SEEB43102SP	8015M	DRO; C ¹² -C ²⁹	mg/l	11700	100
BTEX	3/1/2002	SEEB43102SP	8021B/5030	Benzene	µg/l	26.8	1.0
	3/1/2002	SEEB43102SP	8021B/5030	Ethylbenzene	µg/l	908	1.0
	3/1/2002	SEEB43102SP	8021B/5030	Toluene	µg/l	723	1.0
	3/1/2002	SEEB43102SP	8021B/5030	m/p-Xylene	µg/l	1020	1.0
	3/1/2002	SEEB43102SP	8021B/5030	o-Xylene	µg/l	480	1.0
CATIONS	3/1/2002	SEEB43102SP	6010B	Calcium	mg/l	88200	50000
	3/1/2002	SEEB43102SP	6010B	Magnesium	mg/l	969	1000
	3/1/2002	SEEB43102SP	6010B	Potassium	mg/l	251	100
	3/1/2002	SEEB43102SP	6010B	Sodium	mg/l	494	100
ANIONS	3/1/2002	SEEB43102SP	300	Bicarbonate Alk.	mg/l	148	5.0
	3/1/2002	SEEB43102SP	300	Carbonate Alk.	mg/l	0.10	5.0
	3/1/2002	SEEB43102SP	9253	Chloride	mg/l	9	10.0
	3/1/2002	SEEB43102SP	310.1	Hydroxide Alk.	mg/l	2	2.0
	3/1/2002	SEEB43102SP	300	Sulfate	mg/l	0.5	25.0
METALS - RCRA & TCLP	3/1/2002	SEEB43102SP	6010B	Arsenic	mg/l	0.090	0.008
	3/1/2002	SEEB43102SP	6010B	Barium	mg/l	1.290	0.001
	3/1/2002	SEEB43102SP	6010B	Cadmium	mg/l	0.001	0.001
	3/1/2002	SEEB43102SP	6010B	Chromium	mg/l	0.023	0.002
	3/1/2002	SEEB43102SP	6010B	Lead	mg/l	0.009	0.011
	3/1/2002	SEEB43102SP	245.1, 7470	Mercury	mg/l	0.002	0.002
	3/1/2002	SEEB43102SP	6010B	Selenium	mg/l	0.047	0.004
	3/1/2002	SEEB43102SP	6010B	Silver	mg/l	0.002	0.002
TCLP VOLATILES	3/1/2002	SEEB43102SP	8260B TCLP	Carbon tetrachloride	µg/l	ND	2.0
	3/1/2002	SEEB43102SP	8260B TCLP	Benzene	µg/l	25.2	0.025
	3/1/2002	SEEB43102SP	8260B TCLP	1,2-Dichloroethane	µg/l	ND	2.0
	3/1/2002	SEEB43102SP	8260B TCLP	Chlorobenzene	µg/l	ND	2.0
	3/1/2002	SEEB43102SP	8260B TCLP	1,1-Dichloroethane	µg/l	ND	2.0
	3/1/2002	SEEB43102SP	8260B TCLP	2-Butanone (MEK)	µg/l	ND	20.0
	3/1/2002	SEEB43102SP	8260B TCLP	Chloroform	µg/l	ND	2.0
	3/1/2002	SEEB43102SP	8260B TCLP	Tetrachloroethane	µg/l	ND	2.0
	3/1/2002	SEEB43102SP	8260B TCLP	Trichloroethene	µg/l	ND	2.0
	3/1/2002	SEEB43102SP	8260B TCLP	Vinyl Chloride	µg/l	ND	2.0
TCLP SEMI-VOLATILES	3/1/2002	SEEB43102SP	8270C TCLP	Pyridine	µg/l	ND	5.0
	3/1/2002	SEEB43102SP	8270C TCLP	1-4-Dichlorobenzene	µg/l	ND	5.0
	3/1/2002	SEEB43102SP	8270C TCLP	2-Methylphenol	µg/l	ND	5.0
	3/1/2002	SEEB43102SP	8270C TCLP	Hexachloroethane	µg/l	ND	5.0
	3/1/2002	SEEB43102SP	8270C TCLP	Nitrobenzene	µg/l	ND	5.0
	3/1/2002	SEEB43102SP	8270C TCLP	Hexachlorobutadiene	µg/l	ND	5.0
	3/1/2002	SEEB43102SP	8270C TCLP	2,4,6-Trichlorophenol	µg/l	ND	5.0
	3/1/2002	SEEB43102SP	8270C TCLP	2,4,5-Trichlorophenol	µg/l	ND	5.0
	3/1/2002	SEEB43102SP	8270C TCLP	2,4-Dinitrotoluene	µg/l	ND	5.0
	3/1/2002	SEEB43102SP	8270C TCLP	Hexachlorobenzene	µg/l	ND	5.0
	3/1/2002	SEEB43102SP	8270C TCLP	Pentachlorophenol	µg/l	ND	5.0
	3/1/2002	SEEB43102SP	8270C TCLP	4-Methylphenol	µg/l	ND	5.0
RCI	6/4/2002	SEMS60402	1010	Ignitability	C	>100	N/A
	6/4/2002	SEMS60402	9045C	pH	pH Units	7.45	N/A
	6/4/2002	SEMS60402	SW846 CH 7	Reactive Cyanide	mg/kg	ND	0.090
	6/4/2002	SEMS60402	SW846 CH 7	Reactive Sulfide	mg/kg	36.0	5.0

Table III: Contaminated Soil Hazardous (RCRA) Analyses
 EOTT Energy Pipeline - 4" Monument Sour (2002-10064)
 Lea County, NM; UL-G Section 9 T21S R36E

Plate 5: Bottom-Hole Composite Analyses



**Lab Analyses and Chain-of-Custody Forms
Bottom-Hole Excavation Composite Samples and
Hazardous Analysis of Contaminated Soil for Disposal Approval**

ANALYTICAL REPORT

Prepared for:

Frank Hernandez
EOTT ENERGY
5805 E. Highway 80
Midland, TX 79701

Project: 4" Monument Sour
Order#: G0202735
Report Date: 03/06/2002

Certificates

US EPA Laboratory Code TX00158

ENVIRONMENTAL LAB OF TEXAS

SAMPLE WORK LIST

EOTT ENERGY
 5805 E. Highway 80
 Midland, TX 79701
 915-558-2044

Order#: G0202735
 Project: 2002-10064
 Project Name: 4" Monument Sour
 Location: None Given

The samples listed below were submitted to Environmental Lab of Texas and were received under chain of custody. Environmental Lab of Texas makes no representation or certification as to the method of sample collection, sample identification, or transportation/handling procedures used prior to the receipt of samples by Environmental Lab of Texas.

<u>Lab ID:</u>	<u>Sample :</u>	<u>Matrix:</u>	<u>Date / Time</u> <u>Collected</u>	<u>Date / Time</u> <u>Received</u>	<u>Container</u>	<u>Preservative</u>
0202735-01	SE4MS3502POR-25	SOIL	3/5/02 10:00	3/5/02 15:35	4 oz Glass	Iced
<u>Lab Testing:</u>		Rejected: No	Temp: 1C			
8015M TPH GRO/DRO						
8021B/5030 BTEX						

ENVIRONMENTAL LAB OF TEXAS

ANALYTICAL REPORT

Frank Hernandez
 EOTT ENERGY
 5805 E. Highway 80
 Midland, TX 79701

Order#: G0202735
 Project: 2002-10064
 Project Name: 4" Monument Sour
 Location: None Given

Lab ID: 0202735-01
 Sample ID: SE4MS3502POR-25

8015M TPH GRO/DRO

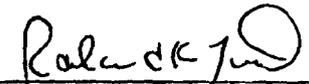
<u>Method</u>	<u>Date</u>	<u>Date</u>	<u>Sample</u>	<u>Dilution</u>	<u>Analyst</u>	<u>Method</u>
<u>Blank</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>Amount</u>	<u>Factor</u>	<u>Analyst</u>	<u>Method</u>
0000776-02		3/5/02 22:27	1	1	CK	8015

Parameter	Result mg/kg	RL
GRO, C6-C12	961	10.0
DRO, >C12-C28	2850	10.0

8021B/5030 BTEX

<u>Method</u>	<u>Date</u>	<u>Date</u>	<u>Sample</u>	<u>Dilution</u>	<u>Analyst</u>	<u>Method</u>
<u>Blank</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>Amount</u>	<u>Factor</u>	<u>Analyst</u>	<u>Method</u>
0000783-02		3/5/02 22:17	1	1	CK	8021B

Parameter	Result µg/kg	RL
Benzene	341	25.0
Ethylbenzene	10200	25.0
Toluene	7260	25.0
p/m-Xylene	14400	25.0
o-Xylene	5460	25.0

Approval:  3-07-02
 Ralanda K. Tuttle, Lab Director, QA Officer
 Celey D. Keene, Org. Tech. Director
 Jeanne McMurrey, Inorg. Tech. Director
 Irene Perry, QA Assistant
 Sandra Biezugbe, Lab Tech.
 Curt Cowdrey, Lab Tech.
 Sara Molina, Lab Tech.

ENVIRONMENTAL LAB OF TEXAS

QUALITY CONTROL REPORT

8015M TPH.GRO/DRO

Order#: G0202735

BLANK	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
GRO, C6-C12-mg/kg	0000776-02			<10		
DRO, >C12-C28-mg/kg	0000776-02			<10		
MS	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
GRO, C6-C12-mg/kg	0202728-02	0	476	489	102.7%	
DRO, >C12-C28-mg/kg	0202728-02	22.7	476	564	113.7%	
MSD	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
GRO, C6-C12-mg/kg	0202728-02	0	476	480	100.8%	1.9%
DRO, >C12-C28-mg/kg	0202728-02	22.7	476	553	111.4%	2.0%
SRM	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
GRO, C6-C12-mg/kg	0000776-05		500	452	90.4%	0.0%
DRO, >C12-C28-mg/kg	0000776-05		500	527	105.4%	0.0%

ENVIRONMENTAL LAB OF TEXAS

QUALITY CONTROL REPORT

8021B/5030 BTEX

Order#: G0202735

BLANK	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Benzene-µg/kg	0000783-02			<25		
Ethylbenzene-µg/kg	0000783-02			<25		
Toluene-µg/kg	0000783-02			<25		
p/m-Xylene-µg/kg	0000783-02			<25		
o-Xylene-µg/kg	0000783-02			<25		
MS	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Benzene-µg/kg	0202728-02	0	100	112	112.0%	
Ethylbenzene-µg/kg	0202728-02	0	100	111	111.0%	
Toluene-µg/kg	0202728-02	0	100	113	113.0%	
p/m-Xylene-µg/kg	0202728-02	0	200	230	115.0%	
o-Xylene-µg/kg	0202728-02	0	100	112	112.0%	
MSD	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Benzene-µg/kg	0202728-02	0	100	113	113.0%	0.9%
Ethylbenzene-µg/kg	0202728-02	0	100	112	112.0%	0.9%
Toluene-µg/kg	0202728-02	0	100	113	113.0%	0.0%
p/m-Xylene-µg/kg	0202728-02	0	200	228	114.0%	0.9%
o-Xylene-µg/kg	0202728-02	0	100	114	114.0%	1.8%
SRM	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Benzene-µg/kg	0000783-05		100	112	112.0%	0.0%
Ethylbenzene-µg/kg	0000783-05		100	111	111.0%	0.0%
Toluene-µg/kg	0000783-05		100	114	114.0%	0.0%
p/m-Xylene-µg/kg	0000783-05		200	229	114.5%	0.0%
o-Xylene-µg/kg	0000783-05		100	112	112.0%	0.0%

ANALYTICAL REPORT

Prepared for:

Frank Hernandez
EOTT ENERGY
5805 E. Highway 80
Midland, TX 79701

Project: 4" Monument Sour

Order#: G0202777

Report Date: 03/13/2002

Certificates

US EPA Laboratory Code TX00158

ENVIRONMENTAL LAB OF TEXAS

SAMPLE WORK LIST

EOTT ENERGY
5805 E. Highway 80
Midland, TX 79701
915-558-2044

Order#: G0202777
Project:
Project Name: 4" Monument Sour
Location: None Given

The samples listed below were submitted to Environmental Lab of Texas and were received under chain of custody. Environmental Lab of Texas makes no representation or certification as to the method of sample collection, sample identification, or transportation/handling procedures used prior to the receipt of samples by Environmental Lab of Texas.

<u>Lab ID:</u>	<u>Sample :</u>	<u>Matrix:</u>	<u>Date / Time Collected</u>	<u>Date / Time Received</u>	<u>Container</u>	<u>Preservative</u>
0202777-01	SE4MS3502WBH	SOIL	3/8/02 10:00	3/8/02 14:42	4 oz Glass	ice
	<u>Lab Testing:</u>	Rejected: No		Temp: 4C		
	8015M TPH GRO/DRO					
	8021B/5030 BTEX					
0202777-02	SE4MS3502EBH	SOIL	3/8/02 10:30	3/8/02 14:42	4 oz Glass	ice
	<u>Lab Testing:</u>	Rejected: No		Temp: 4C		
	8015M TPH GRO/DRO					
	8021B/5030 BTEX					

ENVIRONMENTAL LAB OF TEXAS

ANALYTICAL REPORT

Frank Hernandez
 EOTT ENERGY
 5805 E. Highway 80
 Midland, TX 79701

Order#: G0202777
 Project:
 Project Name: 4th Monument Sour
 Location: None Given

Lab ID: 0202777-01
 Sample ID: SE4MS3502WBII

8015M TPH GRO/DRO

<u>Method</u>	<u>Date</u>	<u>Date</u>	<u>Sample</u>	<u>Dilution</u>	<u>Analyst</u>	<u>Method</u>
Blank	Prepared	Analyzed	Amount	Factor		
		3/11/02	1	1	CK	8015M

Parameter	Result mg/kg	RL
GRO, C6-C12	156	10.0
DRO, >C12-C28	1430	10.0
Total C6-C28	1590	10.0

8021B/5030 BTEX

<u>Method</u>	<u>Date</u>	<u>Date</u>	<u>Sample</u>	<u>Dilution</u>	<u>Analyst</u>	<u>Method</u>
Blank	Prepared	Analyzed	Amount	Factor		
0000830-02		3/13/02 22:36	1	1	CK	8021B

Parameter	Result µg/kg	RL
Benzene	<25.0	25.0
Ethylbenzene	<25.0	25.0
Toluene	<25.0	25.0
p/m-Xylene	<25.0	25.0
o-Xylene	<25.0	25.0

Lab ID: 0202777-02
 Sample ID: SE4MS3502EBH

8015M TPH GRO/DRO

<u>Method</u>	<u>Date</u>	<u>Date</u>	<u>Sample</u>	<u>Dilution</u>	<u>Analyst</u>	<u>Method</u>
Blank	Prepared	Analyzed	Amount	Factor		
		3/11/02	1	1	CK	8015M

Parameter	Result mg/kg	RL
GRO, C6-C12	1660	10.0
DRO, >C12-C28	5040	10.0
Total C6-C28	6700	10.0

ENVIRONMENTAL LAB OF TEXAS

ANALYTICAL REPORT

Frank Hernandez
EOTT ENERGY
5805 E. Highway 80
Midland, TX 79701

Order#: G0202777
Project:
Project Name: 4th Monument Sour
Location: None Given

Lab ID: 0202777-02
Sample ID: SE4MS3502EBH

8021B/5030 BTEX

Method	Date	Date	Sample	Dilution	Analyst	Method
<u>Blank</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>Amount</u>	<u>Factor</u>		
0000830-02		3/13/02 22:57	1	50	CK	8021B

Parameter	Result µg/kg	RL
Benzene	77.1	50.0
Ethylbenzene	9840	50.0
Toluene	3040	50.0
p/m-Xylene	17800	50.0
o-Xylene	6780	50.0

Approval: Roland K Tuttle 3-14-02
 Roland K. Tuttle, Lab Director, QA Officer Date
 Celey D. Keene, Org. Tech. Director
 Jeanne McMurrey, Inorg. Tech. Director
 Irene Perry, QA Assistant
 Sandra Biezugbo, Lab Tech.
 Curt Cowdrey, Lab Tech.
 Sara Molina, Lab Tech.

ENVIRONMENTAL LAB OF TEXAS

QUALITY CONTROL REPORT

8015M TPH GRO/DRO

Order#: G0202777

<i>BLANK</i>	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Total C6-C28-mg/kg	0000838-02			<10.0		
<i>MS</i>	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Total C6-C28-mg/kg	0202763-04	17.7	952	857	88.2%	
<i>MSD</i>	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Total C6-C28-mg/kg	0202763-04	17.7	952	1150	118.9%	29.2%
<i>SRM</i>	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Total C6-C28-mg/kg	0000838-05		1000	1023	102.3%	0%

ENVIRONMENTAL LAB OF TEXAS

QUALITY CONTROL REPORT

8021B/5030 BTEX

Order#: G0202777

BLANK	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Benzene- $\mu\text{g}/\text{kg}$	0000830-02			<25.0		
Ethylbenzene- $\mu\text{g}/\text{kg}$	0000830-02			<25.0		
Toluene- $\mu\text{g}/\text{kg}$	0000830-02			<25.0		
p/m-Xylene- $\mu\text{g}/\text{kg}$	0000830-02			<25.0		
o-Xylene- $\mu\text{g}/\text{kg}$	0000830-02			<25.0		
MS	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Benzene- $\mu\text{g}/\text{kg}$	0202753-01	0	100	111	111.0%	
Ethylbenzene- $\mu\text{g}/\text{kg}$	0202753-01	0	100	114	114.0%	
Toluene- $\mu\text{g}/\text{kg}$	0202753-01	0	100	113	113.0%	
p/m-Xylene- $\mu\text{g}/\text{kg}$	0202753-01	0	200	230	115.0%	
o-Xylene- $\mu\text{g}/\text{kg}$	0202753-01	0	100	113	113.0%	
MSD	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Benzene- $\mu\text{g}/\text{kg}$	0202753-01	0	100	108	108.0%	2.7%
Ethylbenzene- $\mu\text{g}/\text{kg}$	0202753-01	0	100	110	110.0%	3.6%
Toluene- $\mu\text{g}/\text{kg}$	0202753-01	0	100	110	110.0%	2.7%
p/m-Xylene- $\mu\text{g}/\text{kg}$	0202753-01	0	200	225	112.5%	2.2%
o-Xylene- $\mu\text{g}/\text{kg}$	0202753-01	0	100	109	109.0%	3.6%
SRM	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Benzene- $\mu\text{g}/\text{kg}$	0000830-05		100	111	111.0%	0.0%
Ethylbenzene- $\mu\text{g}/\text{kg}$	0000830-05		100	113	113.0%	0.0%
Toluene- $\mu\text{g}/\text{kg}$	0000830-05		100	113	113.0%	0.0%
p/m-Xylene- $\mu\text{g}/\text{kg}$	0000830-05		200	228	114.0%	0.0%
o-Xylene- $\mu\text{g}/\text{kg}$	0000830-05		100	113	113.0%	0.0%

ANALYTICAL REPORT

Prepared for:

FRANK HERNANDEZ
ENRON TRANSPORTATION SYSTEMS
5805 EAST HIGHWAY 80
MIDLAND, TX 79701

Project: 4 " Monument Sour

Order#: G0203048

Report Date: 04/13/2002

Certificates

US EPA Laboratory Code TX00158

ENVIRONMENTAL LAB OF TEXAS

SAMPLE WORK LIST

ENRON TRANSPORTATION SYSTEMS
5805 EAST HIGHWAY 80
MIDLAND, TX 79701
392-2946

Order#: G0203048
Project: 2002-10064
Project Name: 4 " Monument Sour
Location: None Given

The samples listed below were submitted to Environmental Lab of Texas and were received under chain of custody. Environmental Lab of Texas makes no representation or certification as to the method of sample collection, sample identification, or transportation/handling procedures used prior to the receipt of samples by Environmental Lab of Texas.

Lab ID:	Sample :	Matrix:	Date / Time Collected	Date / Time Received	Container	Preservative
0203048-01	SE4MS41002EBH	SOIL	4/10/02 10:00	4/10/02 15:37	4 oz glass	Ice
	<u>Lab Testing:</u>	Rejected: No		Temp: 1.0 C		
	8015M					
	8021B/5030 BTEX					

ENVIRONMENTAL LAB OF TEXAS

ANALYTICAL REPORT

FRANK HERNANDEZ
ENRON TRANSPORTATION SYSTEMS
5805 EAST HIGHWAY 80
MIDLAND, TX 79701

Order#: G0203048
Project: 2002-10064
Project Name: 4 " Monument Sour
Location: None Given

Lab ID: 0203048-01
Sample ID: SE4MS41002EBH

8015M

Method Blank	Date Prepared	Date Analyzed	Sample Amount	Dilution Factor	Analyst	Method
		4/11/02	1	5	CK	8015M

Parameter	Result mg/kg	RL
DRO, >C12-C35	105	50.0
GRO, C6-C12	376	50.0
TOTAL, C6-C35	481	50.0

8021B/5030 BTEX

Method Blank	Date Prepared	Date Analyzed	Sample Amount	Dilution Factor	Analyst	Method
0001183-02		4/10/02 23:04	1	200	CK	8021B

Parameter	Result µg/kg	RL
Benzene	<200	200
Ethylbenzene	6120	200
Toluene	3010	200
p/m-Xylene	11600	200
o-Xylene	3370	200

Approval: Raland K Tuttle 4-15-02
 Raland K. Tuttle, Lab Director, QA Officer Date
 Celey D. Keene, Org. Tech. Director
 Jeanne McMurrey, Inorg. Tech. Director
 Sandra Biezugbe, Lab Tech.
 Sara Molina, Lab Tech.

ENVIRONMENTAL LAB OF TEXAS**QUALITY CONTROL REPORT****8015M****Order#: G0203048**

BLANK	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
TOTAL, C6-C35-mg/kg		0001182-02			<10.0		
CONTROL	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
TOTAL, C6-C35-mg/kg		0001182-03		1000	780	78.%	
CONTROL DUP	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
TOTAL, C6-C35-mg/kg		0001182-04		1000	790	79.%	1.3%
SRM	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
TOTAL, C6-C35-mg/kg		0001182-05		1000	940	94.%	

ENVIRONMENTAL LAB OF TEXAS

QUALITY CONTROL REPORT

8021B/5030 BTEX

Order#: G0203048

BLANK		LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
SOIL							
Benzene-µg/kg		0001183-02			<25.0		
Ethylbenzene-µg/kg		0001183-02			<25.0		
Toluene-µg/kg		0001183-02			<25.0		
p/m-Xylene-µg/kg		0001183-02			<25.0		
o-Xylene-µg/kg		0001183-02			<25.0		
CONTROL		LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
SOIL							
Benzene-µg/kg		0001183-03		100	113	113.0%	
Ethylbenzene-µg/kg		0001183-03		100	102	102.0%	
Toluene-µg/kg		0001183-03		100	100	100.0%	
p/m-Xylene-µg/kg		0001183-03		200	220	110.0%	
o-Xylene-µg/kg		0001183-03		100	102	102.0%	
CONTROL DUP		LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
SOIL							
Benzene-µg/kg		0001183-04		100	111	111.0%	1.8%
Ethylbenzene-µg/kg		0001183-04		100	96	96.0%	6.1%
Toluene-µg/kg		0001183-04		100	110	110.0%	9.5%
p/m-Xylene-µg/kg		0001183-04		200	200	100.0%	9.5%
o-Xylene-µg/kg		0001183-04		100	101	101.0%	1.0%
SRM		LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
SOIL							
Benzene-µg/kg		0001183-05		100	115	115.0%	
Ethylbenzene-µg/kg		0001183-05		100	109	109.0%	
Toluene-µg/kg		0001183-05		100	114	114.0%	
p/m-Xylene-µg/kg		0001183-05		200	230	115.0%	
o-Xylene-µg/kg		0001183-05		100	107	107.0%	

ANALYTICAL REPORT

Prepared for:

Frank Hernandez
EOTT ENERGY
5805 E. Highway 80
Midland, TX 79701

Project: 4" Monument Sour
Order#: G0202713
Report Date: 06/04/2002

Certificates

US EPA Laboratory Code TX00158

ENVIRONMENTAL LAB OF TEXAS

SAMPLE WORK LIST

EOTT ENERGY
 5805 E. Highway 80
 Midland, TX 79701
 915-558-2044

Order#: G0202713
 Project:
 Project Name: 4" Monument Sour
 Location: ULG Sec 9 T215 R36E

The samples listed below were submitted to Environmental Lab of Texas and were received under chain of custody. Environmental Lab of Texas makes no representation or certification as to the method of sample collection, sample identification, or transportation/handling procedures used prior to the receipt of samples by Environmental Lab of Texas.

<u>Lab ID:</u>	<u>Sample :</u>	<u>Matrix:</u>	<u>Date / Time Collected</u>	<u>Date / Time Received</u>	<u>Container</u>	<u>Preservative</u>
0202713-01	SEEB43102SP	SOIL	3/1/02 10:00	3/1/02 15:30	4 oz Glass	Ice
<u>Lab Testing:</u>		Rejected: No	Temp: -9C			
8015M TPH GRO/DRO						
8021B/5030 BTEX						
8260B TCLP						
8270C Semivolatile Organics - TCLP						
Anions						
Cations						
METALS RCRA 8 TCLP						
TCLP Metals Extraction						
TCLP Organic Extraction						

ENVIRONMENTAL LAB OF TEXAS

ANALYTICAL REPORT

Frank Hernandez
 EOTT ENERGY
 5805 E. Highway 80
 Midland, TX 79701

Order#: G0202713
 Project:
 Project Name: 4" Monument Sour
 Location: ULG Sec 9 T215 R36E

Lab ID: 0202713-01
 Sample ID: SEEB43102SP

8260B TCLP

<u>Method</u>	<u>Date</u>	<u>Date</u>	<u>Sample</u>	<u>Dilution</u>	<u>Analyst</u>	<u>Method</u>
Blank	Prepared	Analyzed	Amount	Factor		
0000799-02		3/7/02 20:07	5	1	CK	8260B

Parameter	Result ug/L	RL
Carbon tetrachloride	<2	2.0
Benzene	25.2	0.025
1,2-Dichloroethane	<2.0	2.0
Chlorobenzene	<2.0	2.0
1,1-Dichloroethene	<2.0	2.0
2-Butanone (MEK)	<20.0	20.0
Chloroform	<2	2.0
Tetrachloroethene	<2.0	2.0
Trichloroethene	<2.0	2.0
Vinyl chloride	<2.0	2.0

8270C Semivolatile Organics - TCLP

<u>Method</u>	<u>Date</u>	<u>Date</u>	<u>Sample</u>	<u>Dilution</u>	<u>Analyst</u>	<u>Method</u>
Blank	Prepared	Analyzed	Amount	Factor		
0000893-02		3/7/02 22:35	1	1	RKT	8270C

Parameter	Result ug/L	RL
Pyridine	<5	5.00
1,4-Dichlorobenzene	<5	5.00
2-Methylphenol	<5	5.00
Hexachloroethane	<5	5.00
Nitrobenzene	<5	5.00
Hexachlorobutadiene	<5	5.00
2,4,6-Trichlorophenol	<5	5.00
2,4,5-Trichlorophenol	<5	5.00
2,4-Dinitrotoluene	<5	5.00
Hexachlorobenzene	<5	5.00
Pentachlorophenol	<5	5.00
4-Methylphenol	<5	5.00

ENVIRONMENTAL LAB OF TEXAS

ANALYTICAL REPORT

Frank Hernandez
EOTT ENERGY
5805 E. Highway 80
Midland, TX 79701

Order#: G0202713
Project:
Project Name: 4" Monument Sour
Location: ULG Sec 9 T215 R36E

Approval: Raland K Tuttle 6-04-02
Raland K. Tuttle, Lab Director, QA Officer Date
Celey D. Keene, Org. Tech. Director
Jeanne McMurrey, Inorg. Tech. Director
Sandra Biezugbe, Lab Tech.
Sara Molina, Lab Tech.

ENVIRONMENTAL LAB OF TEXAS

ANALYTICAL REPORT

Frank Hernandez
EOTT ENERGY
5805 E. Highway 80
Midland, TX 79701

Order#: G0202713
Project:
Project Name: 4th Monument Sour
Location: ULG Sec 9 T215 R36E

Lab ID: 0202713-01
Sample ID: SEEB43102SP

Cations

Parameter	Result	Units	Dilution Factor	RL	Method	Date Prepared	Date Analyzed	Analyst
Calcium	88200	mg/kg	50000	50000	6010B	03/03/2002	3/4/02	SM
Magnesium	969	mg/kg	1000	1000	6010B	03/03/2002	3/4/02	SM
Potassium	251	mg/kg	100	100	6010B	03/03/2002	3/4/02	SM
Sodium	494	mg/kg	100	100	6010B	03/03/2002	3/4/02	SM

METALS RCRA 8 TCLP

Parameter	Result	Units	Dilution Factor	RL	Method	Date Prepared	Date Analyzed	Analyst
Arsenic	0.09	mg/L	1	0.008	6010B	03/02/2001	3/3/02	SM
Barium	1.29	mg/L	1	0.001	6010B	03/02/2001	3/3/02	SM
Cadmium	<0.001	mg/L	1	0.001	6010B	03/02/2001	3/3/02	SM
Chromium	0.023	mg/L	1	0.002	6010B	03/02/2001	3/3/02	SM
Lead	0.009	mg/L	1	0.011	6010B	03/02/2001	3/3/02	SM
Mercury	<0.002	mg/L	1	0.002	245.1, 7470	03/02/2001	3/3/02	SM
Selenium	0.047	mg/L	1	0.004	6010B	03/02/2001	3/3/02	SM
Silver	0.002	mg/L	1	0.002	6010B	03/02/2001	3/3/02	SM

Approval: Raland K Tuttle 6-04-02
 Raland K. Tuttle, Lab Director, QA Officer Date
 Celey D. Keene, Org. Tech. Director
 Jeanne McMurrey, Inorg. Tech. Director
 Sandra Biezugbc, Lab Tech.
 Sara Molina, Lab Tech.

N/A = Not Applicable RL = Reporting Limit

ENVIRONMENTAL LAB OF TEXAS

ANALYTICAL REPORT

Frank Hernandez
 EOTT ENERGY
 5805 E. Highway 80
 Midland, TX 79701

Order#: G0202713
 Project:
 Project Name: 4" Monument Sour
 Location: ULG Sec 9 T215 R36E

Lab ID: 0202713-01
 Sample ID: SEEB43102SP

Anions

<u>Parameter</u>	<u>Result</u>	<u>Units</u>	<u>Dilution Factor</u>	<u>RL</u>	<u>Method</u>	<u>Date Analyzed</u>	<u>Analyst</u>
Bicarbonate Alkalinity	148	mg/kg	1	5.0	300	3/10/02	SB
Carbonate Alkalinity	<.10	mg/kg	1	5.0	300	3/10/02	SB
Chloride	9.0	mg/kg	1	10	9253	3/10/02	SB
Hydroxide Alkalinity	<2.0	mg/kg	1	2	310.1	3/10/02	SB
SULFATE, 375.4	<0.5	mg/kg	1	25	300	3/10/02	SB

Test Parameters

<u>Parameter</u>	<u>Result</u>	<u>Units</u>	<u>Dilution Factor</u>	<u>RL</u>	<u>Method</u>	<u>Date Analyzed</u>	<u>Analyst</u>
TCLP Metals Extraction	0	None	1	na	1311	3/18/02	CK
TCLP Organic Extraction	0	None	1	na	1311	3/18/02	CC

Approval: Raland K Tuttle 6-04-02
 Raland K. Tuttle, Lab Director, QA Officer Date
 Caley D. Keene, Org. Tech. Director
 Jeanne McMurrey, Inorg. Tech. Director
 Sandra Biezugbe, Lab Tech.
 Sara Molina, Lab Tech.

ENVIRONMENTAL LAB OF TEXAS

QUALITY CONTROL REPORT

8021B/5030 BTEX

Order#: G0202713

BLANK		LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
SOIL							
Benzene-ug/L		0000782-02			<1		
Ethylbenzene-ug/L		0000782-02			<1		
Toluene-ug/L		0000782-02			<1		
p/m-Xylene-ug/L		0000782-02			<1		
o-Xylene-ug/L		0000782-02			<1		
CONTROL		LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
SOIL							
Benzene-ug/L		0000782-03		100	114	114.0%	
Ethylbenzene-ug/L		0000782-03		100	112	112.0%	
Toluene-ug/L		0000782-03		100	115	115.0%	
p/m-Xylene-ug/L		0000782-03		200	233	116.5%	
o-Xylene-ug/L		0000782-03		100	111	111.0%	
CONTROL DUP		LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
SOIL							
Benzene-ug/L		0000782-04		100	115	115.0%	0.9%
Ethylbenzene-ug/L		0000782-04		100	110	110.0%	1.8%
Toluene-ug/L		0000782-04		100	114	114.0%	0.9%
p/m-Xylene-ug/L		0000782-04		200	226	113.0%	3.1%
o-Xylene-ug/L		0000782-04		100	111	111.0%	0.0%
SRM		LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
SOIL							
Benzene-ug/L		0000782-05		100	112	112.0%	
Ethylbenzene-ug/L		0000782-05		100	111	111.0%	
Toluene-ug/L		0000782-05		100	114	114.0%	
p/m-Xylene-ug/L		0000782-05		200	229	114.5%	
o-Xylene-ug/L		0000782-05		100	112	112.0%	

ENVIRONMENTAL LAB OF TEXAS

QUALITY CONTROL REPORT

Anions

Order#: G0202713

BLANK	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Bicarbonate Alkalinity-mg/kg		0000809-01			<2.0		
Carbonate Alkalinity-mg/kg		0000809-01			<.10		
Chloride-mg/kg		0000809-01			<5.0		
SULFATE, 375.4-mg/kg		0000809-01			<0.5		
CONTROL	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Chloride-mg/kg		0000809-02		518	523	101.0%	
CONTROL DUP	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Chloride-mg/kg		0000809-03		518	523	101.0%	0.0%
DUPLICATE	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Bicarbonate Alkalinity-mg/kg		0202713-01	148		148		0.0%
Carbonate Alkalinity-mg/kg		0202713-01	0		<.10		0.0%
SULFATE, 375.4-mg/kg		0202713-01	0		<0.5		0.0%
SRM	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Bicarbonate Alkalinity-mg/kg		0000809-04		0.05	0.049	98.0%	
Carbonate Alkalinity-mg/kg		0000809-04		0.05	.049	98.0%	
Chloride-mg/kg		0000809-04		5000	5050	101.0%	
SULFATE, 375.4-mg/kg		0000809-04		50	49.3	98.6%	

ENVIRONMENTAL LAB OF TEXAS

QUALITY CONTROL REPORT

Cations

Order#: G0202713

BLANK		LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
SOIL							
Calcium-mg/kg		0000749-02			< 100		
Magnesium-mg/kg		0000749-02			< 100		
Potassium-mg/kg		0000749-02			< 100		
Sodium-mg/kg		0000749-02			< 100		
DUPLICATE		LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
SOIL							
Calcium-mg/kg		0202713-01	88200		88300		0.1%
Magnesium-mg/kg		0202713-01	969		941		0.0%
Potassium-mg/kg		0202713-01	251		270		7.3%
Sodium-mg/kg		0202713-01	494		441		11.3%
SRM		LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
SOIL							
Calcium-mg/kg		0000749-05		2	1.92	96.0%	
Magnesium-mg/kg		0000749-05		2	2.05	102.5%	
Potassium-mg/kg		0000749-05		2	1.77	88.5%	
Sodium-mg/kg		0000749-05		2	1.78	89.0%	

ENVIRONMENTAL LAB OF TEXAS

QUALITY CONTROL REPORT

METALS RCRA 8 TCLP

Order#: G0202713

BLANK		LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
SOIL							
Arsenic-mg/L		0000741-02			<0.008		
Barium-mg/L		0000741-02			<0.001		
Cadmium-mg/L		0000741-02			<0.001		
Chromium-mg/L		0000741-02			<0.002		
Lead-mg/L		0000741-02			<0.011		
Mercury-mg/L		0000741-02			<0.002		
Selenium-mg/L		0000741-02			<0.004		
Silver-mg/L		0000741-02			<0.002		
CONTROL		LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
SOIL							
Arsenic-mg/L		0000741-03		1	1.11	111.0%	
Barium-mg/L		0000741-03		1	1.12	112.0%	
Cadmium-mg/L		0000741-03		1	1.12	112.0%	
Chromium-mg/L		0000741-03		1	1.09	109.0%	
Lead-mg/L		0000741-03		1	1.15	115.0%	
Mercury-mg/L		0000741-03		0.01	0.016	160.0%	
Selenium-mg/L		0000741-03		1	1.1	110.0%	
Silver-mg/L		0000741-03		1	1.01	101.0%	
CONTROL DUP		LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
SOIL							
Arsenic-mg/L		0000741-04		1	1.11	111.0%	0.0%
Barium-mg/L		0000741-04		1	1.12	112.0%	0.0%
Cadmium-mg/L		0000741-04		1	1.11	111.0%	0.9%
Chromium-mg/L		0000741-04		1	1.09	109.0%	0.0%
Lead-mg/L		0000741-04		1	1.13	113.0%	1.8%
Mercury-mg/L		0000741-04		0.01	0.016	160.0%	0.0%
Selenium-mg/L		0000741-04		1	1.11	111.0%	0.9%
Silver-mg/L		0000741-04		1	0.99	99.0%	2.0%
SRM		LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
SOIL							
Arsenic-mg/L		0000741-05		1	1.03	103.0%	
Barium-mg/L		0000741-05		1	1.04	104.0%	
Cadmium-mg/L		0000741-05		1	1.03	103.0%	
Chromium-mg/L		0000741-05		1	1.01	101.0%	
Lead-mg/L		0000741-05		1	1.04	104.0%	
Mercury-mg/L		0000741-05		0.015	0.015	100.0%	
Selenium-mg/L		0000741-05		1	1.03	103.0%	
Silver-mg/L		0000741-05		1	0.973	97.3%	

ENVIRONMENTAL LAB OF I, LTD.

"Don't Treat Your Soil Like Dirt!"

EOTT ENERGY PIPELINE
ATTN: MR. FRANK HERNANDEZ
5805 E. HWY 80
MIDLAND, TEXAS 79701
FAX: 915-556-0190

Sample Type: Soil
Sample Condition: Intact/ Iced/ -9.0 deg C
Project Name: 4" Monument Sour
Project #: None Given
Project Location: ULG SEC 9 T215 R36E

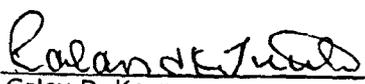
Sampling Date: 03/01/02
Receiving Date: 03/01/02
TCLP EXTR: 03/04/02
Extracted: 03/05/02
Analysis Date: 03/07/02
Field Code: **SEEB43102SP**

TCLP SEMIVOLATILE ORGANICS (mg/L)	REG. LIMIT	REPORT LIMIT	ELT# 0202713-01	%DEV	%EA	RPD
2-Methylphenol	200	0.008	ND	-11.0		
4-Methylphenol	200	0.008	ND	-10.1		
1,4-Dichlorobenzene	7.5	0.008	ND	-2.2	17	2
2, 4-Dinitrotoluene	0.13	0.008	ND	-3.5	44	4
Hexachlorobenzene	0.13	0.008	ND	-8.0		
Hexachlor-1, 3-butadien	0.5	0.008	ND	13.9		
Hexachloroethane	3	0.008	ND	-18.6		
Nitrobenzene	2	0.008	ND	-23.4		
Pentachlorophenol	100	0.008	ND	-0.4	49	10
Pyridine	5	0.008	ND	-19.5		
2,4,5-Trichlorophenol	400	0.008	ND	-0.9		
2,4,6-Trichlorophenol	2	0.008	ND	-6.8		

ND= NOT DETECTED, < REPORTING LIMIT
SYSTEM MONITORING COMPOUNDS

	% Recovery
2-Fluorophenol	28
Phenol-d5	25
Nitrobenzene-d5	55
2-Fluorobiphenyl	47
2,4,6-Tribromophenol	83
p-Terphenyl-d14	78

Method: SW 846-8270C,1311


Celey D. Keene
Rafand K. Tuttle

6-04-02
Date

ENVIRONMENTAL LAB OF I, LTD.

"Don't Treat Your Soil Like Dirt" ENERGY PIPELINE
 ATTN: MR. FRANK HERNANDEZ
 5805 E. HWY 80
 MIDLAND, TEXAS 79701
 FAX: 915-556-0190

Sample Type: Soil
 Sample Condition: Intact/ Iced/ -9.0 deg C
 Project Name: 4" Monument Sour
 Project #: NONE GIVEN
 Project Location: ULG SEC9 T215 R36E

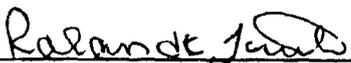
Sampling Date: 03/01/02
 Receiving Date: 03/01/02
 TCLP Extr: 03/01/02
 Analysis Date: 03/07/02
 Field Code: **SEEB4310ZSP**

TCLP EPA SW846 8260B Compounds	REPORT LIMIT	ELT# 0202713-01 mg/L	%EA	%DEV	RPD
Benzene	0.020	0.025	124	-0.9	3
Carbon tetrachloride	0.020	ND		-5.9	
Chlorobenzene	0.020	ND	140	-1.6	4
Chloroform	0.020	ND		-1.5	
1,4-Dichlorobenzene	0.020	ND		1.5	
1,2-Dichloroethane	0.020	ND		-0.9	
1,1-Dichloroethylene	0.020	ND	76	-3.1	6
Methyl ethyl ketone	0.020	ND		2.4	
Tetrachloroethylene	0.020	ND		5.7	
Trichloroethylene	0.020	ND	92	-0.6	4
Vinyl chloride	0.020	ND		-10.2	

System Monitoring Compounds	% RECOVERY
Dibromofluoromethane	119
1,2-dichloroethane-d4	112
Toluene-d8	105
4-Bromofluorobenzene	93

ND= Not Detected at report limit

Method: EPA SW 846 8260B, 1311


 Celey D. Keene
 Raland K. Tuttle

6-04-02
 Date

ANALYTICAL REPORT

Prepared for:

Frank Hernandez
EOTT Energy Pipeline
5805 E. Hwy. 80
Midland, TX 79701

Project: Monument 4" Sour 2002-10064
Order#: G0203516
Report Date: 06/10/2002

Certificates

US EPA Laboratory Code TX00158

ENVIRONMENTAL LAB OF TEXAS

SAMPLE WORK LIST

EOTT Energy Pipeline
5805 E. Hwy. 80
Midland, TX 79701
915-684-3456

Order#: G0203516
Project: 2002-10064
Project Name: Monument 4" Sour 2002-10064
Location: None Given

The samples listed below were submitted to Environmental Lab of Texas and were received under chain of custody. Environmental Lab of Texas makes no representation or certification as to the method of sample collection, sample identification, or transportation/handling procedures used prior to the receipt of samples by Environmental Lab of Texas.

<u>Lab ID:</u>	<u>Sample :</u>	<u>Matrix:</u>	<u>Date / Time Collected</u>	<u>Date / Time Received</u>	<u>Container</u>	<u>Preservative</u>
0203516-01	SEMS60402	SOIL	6/4/02 15:55	6/5/02 9:45	L amber glass	Ice
<u>Lab Testing:</u>		Rejected: No	Temp: 4.0 C			
RCI						

ENVIRONMENTAL LAB OF TEXAS

ANALYTICAL REPORT

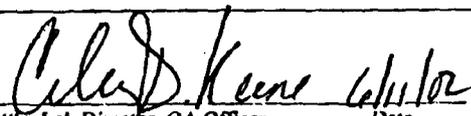
Frank Hernandez
EOTT Energy Pipeline
5805 E. Hwy. 80
Midland, TX 79701

Order#: G0203516
Project: 2002-10064
Project Name: Monument 4" Sour 2002-10064
Location: None Given

Lab ID: 0203516-01
Sample ID: SEMS60402

RCI

<u>Parameter</u>	<u>Result</u>	<u>Units</u>	<u>Dilution Factor</u>	<u>RL</u>	<u>Method</u>	<u>Date Analyzed</u>	<u>Analyst</u>
Ignitability	>100	C	1	NA	1010	6/5/02	CC
pH	7.45	pH Units	1	N/A	9045C	6/6/02	CC
Reactive Cyanide	<0.09	mg/kg	1	0.09	SW846 CH.7	6/7/02	CC
Reactive Sulfide	36	mg/kg	1	5.0	SW846 CH.7	6/7/02	CC

Approval: 
 Raland K. Tuttle, Lab Director, QA Officer
 Celey D. Keene, Org. Tech. Director
 Jeanne McMurrey, Inorg. Tech. Director
 Sandra Biezugbe, Lab Tech.
 Sara Molina, Lab Tech.

RL = Reporting Limit N/A = Not Applicable

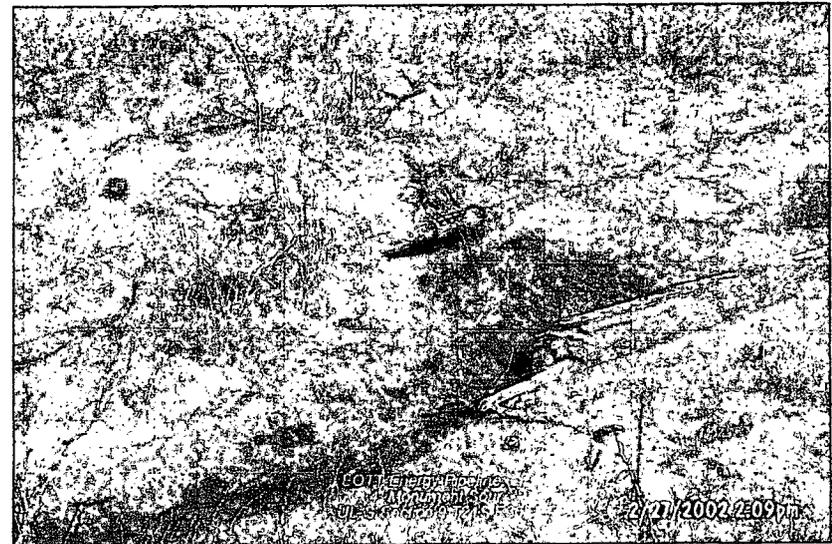
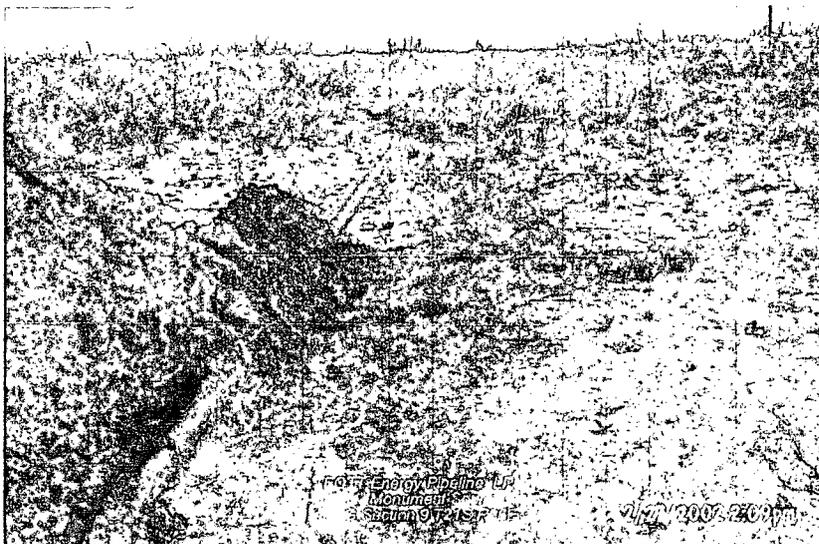
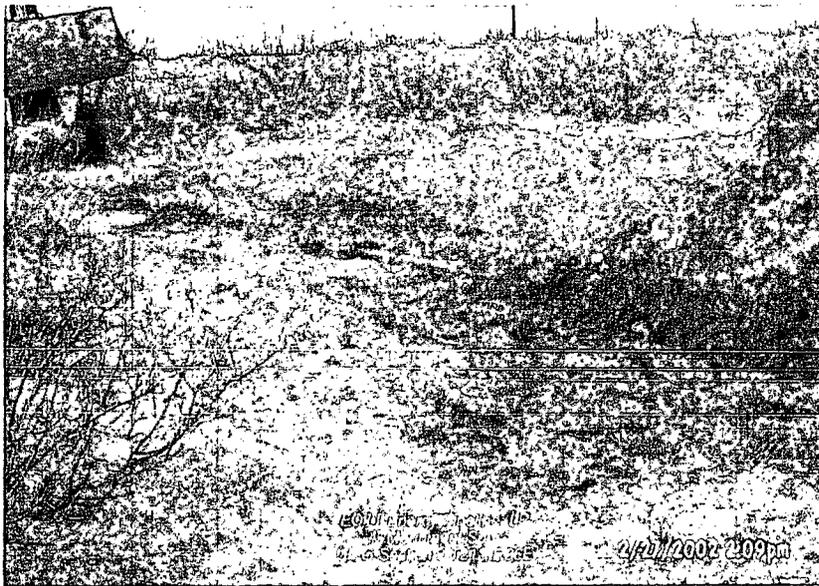
ENVIRONMENTAL LAB OF TEXAS

QUALITY CONTROL REPORT

RCI

Order#: G0203516

BLANK		LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
pH-pH Units	SOIL	0001929-01			5.26		
Reactive Cyanide-mg/kg		0001938-01			<0.09		
Reactive Sulfide-mg/kg		0001936-01			<5.00		
CONTROL		LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
pH-pH Units	SOIL	0001929-02		7	6.92	98.9%	
Reactive Cyanide-mg/kg		0001938-02		0.1	0.108	108.0%	
Reactive Sulfide-mg/kg		0001936-02		13.6	11.18	82.2%	
CONTROL DUP		LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Reactive Cyanide-mg/kg	SOIL	0001938-03		0.1	0.108	108.0%	0.0%
Reactive Sulfide-mg/kg		0001936-03		13.6	11.23	82.6%	0.4%
DUPLICATE		LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Ignitability-C	SOIL	0203467-01	0		>100		0.0%
Ignitability-C		0203518-04	0		>100		0.0%
pH-pH Units		0203467-01	7.87		7.80		0.9%
Reactive Cyanide-mg/kg		0203516-01	0		<0.09		0.0%
Reactive Cyanide-mg/l		0203567-01	0		<0.09		0.0%
Reactive Sulfide-mg/kg		0203516-01	36		37.2		3.3%
SRM		LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Reactive Cyanide-mg/kg	SOIL	0001938-04		1	0.93	93.0%	
Reactive Sulfide-mg/kg		0001936-04		680	486	71.5%	



ATTACHMENT III - SITE PHOTOGRAPHS

E.O.T.T. Energy Pipeline LP

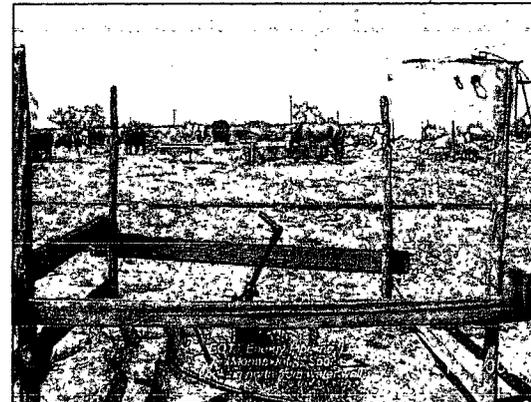
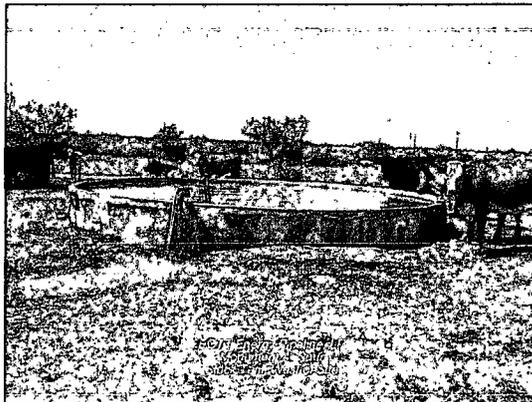
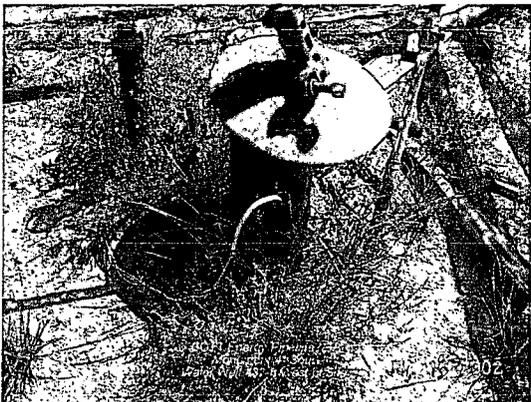
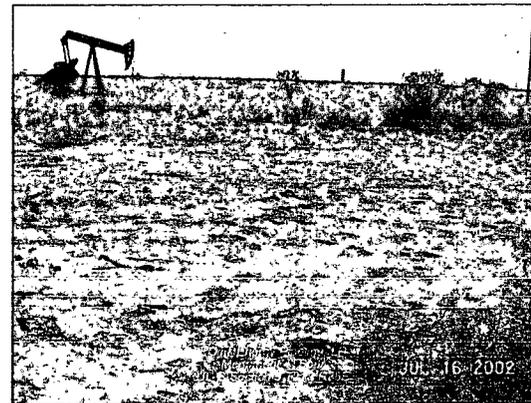
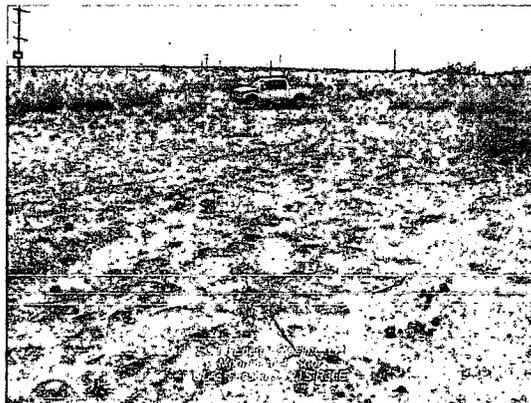
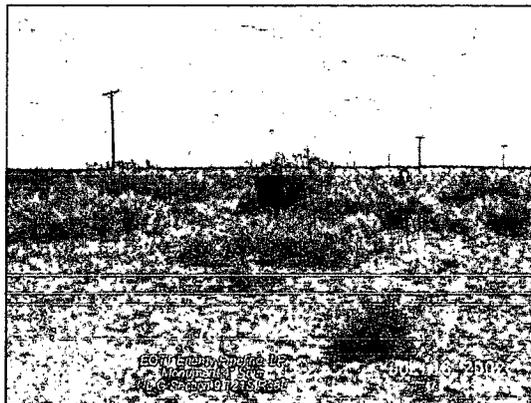
Plate 6: Site Photographs

EOTT Energy Pipeline - 4" Monument Sour (2002-10064)

Lea County, NM; UL-G Section 9 T21S R36E

17

4" Monument Sour



18

4" Monument Sour

Plate 7: Site Photographs
EOTT Energy Pipeline - 4" Monument Sour (2002-10064)
Lea County, NM; UL-G Section 9 T21S R36E

E.O.T.T. Energy Pipeline LP

Attachment IV: Regulatory and Summary Forms

Site Information and Metrics

SITE: 4-Inch Monument Sour		Assigned Site Reference #: 2002-10064	
Company: EOTT Energy Pipeline, LP			
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 (10 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: 4-Inch Monument Sour			
Source of contamination: Pipe Corrosion			
Land Owner, i.e., BLM, ST, Fee, Other: Millard Deck Estate			
LSP Dimensions: affected area = ~12' NS x 78' EW			
LSP Area = ~591 ft ²			
Location of Reference Point (RP):			
Location distance and direction from RP:			
Latitude: 32° 29' 41.6"N			
Longitude: 103° 16' 08.6"W			
Elevation above mean sea level: ~ 3575' amsl			
Feet from South Section Line: ~3155			
Feet from West Section Line: ~3000			
Location- Unit or ¼¼ = UL-G (or) SW¼ of NE¼			
Location- Section = 9			
Location- Township = T21S			
Location- Range = R36E			
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: 1			
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): >155-feet			
Depth of contamination (DC): 14-feet			
Depth to ground water (DG - DC = DtGW) >141-feet			
1. Ground Water		2. Wellhead Protection Area	
If Depth to GW <50 feet: 20 points		If <1000' from water source, or, <200' from private domestic water source: 20 points	
If Depth to GW 50 to 99 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	
Ground water Score = 0		Wellhead Protection Area Score = 0	
3. Distance to Surface Water Body			
<200 horizontal feet: 20 points			
200-100 horizontal feet: 10 points			
>1000 horizontal feet: 0 points			
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
1301 W. Grand Avenue, Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy Minerals and Natural Resources
Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-138
Revised March 17, 1999

Submit Original
Plus 1 Copy
to Appropriate
District Office

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: <input type="checkbox"/> Non-Exempt: <input checked="" type="checkbox"/>	6. Generator EOTT Energy Pipeline
Verbal Approval Received: Yes <input type="checkbox"/> No <input type="checkbox"/>	5. Originating Site 4 th Monument Sour
2. Management Facility Destination Environmental Plus, Inc. Landfarm #NM-01-0013	6. Transporter Environmental Plus, Inc.
3. Address of Facility Operator 2100 Avenue O, P.O. Box 1558, Eunice, New Mexico 88231	8. State New Mexico
7. Location of Material (Street Address or ULSTR) UL-G Section 9 T21S R36E	
9. Circle One: A. All requests for approval to accept oilfield exempt wastes will be accompanied by a certification of waste from the Generator; one certificate per job. <input checked="" type="checkbox"/> B. All requests for approval to accept non-exempt wastes must be accompanied by necessary chemical analysis to PROVE the material is not-hazardous and the Generator's certification of origin. No waste classified hazardous by listing or testing will be approved. All transporters must certify the wastes delivered are only those consigned for transport.	

BRIEF DESCRIPTION OF MATERIAL:

Crude Oil Contaminated Soil

Estimated Volume 200 cy Known Volume (to be entered by the operator at the end of the haul) 620 cy

SIGNATURE *Pat McCasland* TITLE: EPI Technical Manager DATE: June 3, 2002
Waste Management Facility Authorized Agent

TYPE OR PRINT NAME: Pat McCasland TELEPHONE NO. 505.394.3481

(This space for State Use)

APPROVED BY: _____ TITLE: _____ DATE: _____

APPROVED BY: _____ TITLE: _____ DATE: _____

ENVIRONMENTAL PLUS, INC.

Environmental Services & Land Farm

PERMIT # NM-01-0013

Certificate of Waste Status

"Non - Exempt Waste"

COMPANY: EOTT ENERGY PIPELINE

ORIGIN: UL OR ¼¼: G SECTION: 9 TOWNSHIP: 21S RANGE: 36E

SOURCE DESCRIPTION (PIPELINE, LEASE, BATTERY, FLOWLINE, ETC.) _____

4" MONUMENT SOUR PIPELINE

"AS A CONDITION OF ACCEPTANCE FOR DISPOSAL,
I HEREBY CERTIFY THAT THIS WASTE IS A NON-EXEMPT WASTE
AS DEFINED BY THE ENVIRONMENTAL PROTECTION AGENCY (EPA) JULY 1988
REGULATORY DETERMINATION AND TO MY KNOWLEDGE, THIS WASTE BEEN
CHARACTERIZED AS "NON-HAZARDOUS" PURSUANT TO THE PROVISIONS OF EPA 40 CFR
PART 261 SUBPART C AND HAS NOT BEEN COMINGLED WITH AN EPA 40 CFR PART 261
SUBPART D "LISTED WASTE."

I, FRANK HERNANDEZ, THE UNDERSIGNED AGENT
FOR E.O.T.T. ENERGY PIPELINE, HEREBY CERTIFY THAT,

BASED ON PERSONAL KNOWLEDGE, THE ABOVE STATEMENT IS TRUE AND CORRECT.

NAME FRANK HERNANDEZ
TITLE DISTRICT ENVIRONMENTAL SUPERVISOR
ADDRESS 5805 EAST HIGHWAY
MIDLAND, TEXAS 79701

SIGNATURE

DATE


MAY 31, 2002

District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Avenue, Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy Minerals and Natural Resources

Form C-141
Revised March 17, 1999

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

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 of Company: EOTT Energy Pipeline, LP	Contact: Frank Hernandez	
Address: 5805 E. Hwy 80, Midland, TX 79702	Telephone No.: 915-638-3799	
Facility Name: 4" Monument Sour Pipeline	Facility Type: 4" Pipeline	
Surface Owner: Millard Deck Estate	Mineral Owner: Millard Deck Estate	Lease No.

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
G	9	21S	36E	3155	South	3000	West	LEA

NATURE OF RELEASE

Type of Release: Crude Oil	Volume of Release: 20 bbl	Volume Recovered: 10 bbl
Source of Release: 4" steel pipeline	Date and Hour of Occurrence: 2/27/02	Date and Hour of Discovery: 1015 2/27/02
Was Immediate Notice Given? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom?	
By Whom?	Date and Hour:	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.	

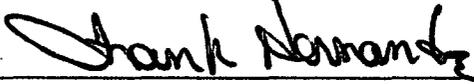
If a Watercourse was Impacted, Describe Fully.*

Describe Cause of Problem and Remedial Action Taken.*

External Corrosion. Line clamp replaced to repair pipeline and pooled oil was recovered. Environmental Plus, Inc., Eunice, NM contracted to remediate site.

Describe Area Affected and Cleanup Action Taken.* Approximate 12' X 78' (521-ft²) affected by spill. Spill affected area excavated down to 4-ft bgs average (14-ft bgs at POR) to remove contaminated soils. Contaminated soils disposed of in EPI's approved land farm. Bottom-hole and sidewall composite sampling of in-situ soil confirms that contaminated soils have been removed from the site. Excavation was backfilled by EPI with clean soil obtained off-site.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOC rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the NMOC marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOC acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

Signature: 	OIL CONSERVATION DIVISION	
Printed Name: Frank Hernandez	Approved by District Supervisor:	
Title: District Environmental Supervisor	Approval Date:	Expiration Date:
Date: July 16, 2002 Phone: 915-638-3799	Conditions of Approval:	Attached <input type="checkbox"/>

* Attach Additional Sheets If Necessary