

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
220 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

*Risk
defined
extent
of plume*

Submit 1 copy to
appropriate
District Office
and 1 copy to
the Santa Fe Office

(Revised 3/9/94)

PIT REMEDIATION AND CLOSURE REPORT

Operator: Amoco Telephone: _____
Address: 30 045-21882
Facility Or: Florance Gas Com E #9A, Meter 90849
Well Name _____
Location: Unit or Qtr/Qtr Sec J Sec 13 T 30 R 9 County Santa Fe
Pit Type: Separator _____ Dehydrator _____ Other Drip
Land Type: BLM X, State _____, Fee _____ Other _____

Pit Location: Pit dimensions: length 17', width 16', depth 2'
(Attach diagram)

Reference: wellhead X, other _____

Footage from reference: 51'

Direction from reference: 342 Degrees X East North _____
of _____ West South _____

Depth To Ground Water	Less than 50 feet	(20 points)
(Vertical distance from	50 feet to 99 feet	(10 points)
contaminants to seasonal	Greater than 100 feet	(0 points) <u>10</u>
high water elevation of		
ground water.)		

Wellhead Protection Area:	Yes (20 points)
(Less than 200 feet from a private	No (0 points) <u>0</u>
domestic water source, or; less than	
1000 feet from all other water sources.)	

Distance To Surface Water:	Less than 200 feet	(20 points)
(Horizontal distance to perennial	200 feet to 1000 feet	(10 points)
lakes, ponds, rivers, streams, creeks,	Greater than 1000 feet	(0 points) <u>0</u>
irrigation canals and ditches.)		

RANKING SCORE (TOTAL POINTS): 10

Date Remediation Started: 05/19/94 Date completed: 05/19/94

Remediation Method: Excavation _____ Approx. cubic yards _____

(Check all appropriate sections.)

Landfarmed _____ Insitu Bioremediation _____

Other Backfill Pit Without Excavation

Remediation Location: Onsite N/A Offsite N/A
(i.e. landfarmed onsite,
name and location of
offsite facility)

General Description of Remedial Action: Line markers

Ground Water Encountered: No X Yes _____ Depth _____

Final Pit:

Closure Sampling:
(if multiple samples,
attach sample results
and diagram of sample
locations and depths)

Sample location Four walls and center of pit composite

Sample depth 12'

Sample Date 05/19/94 Sample time 12:50

Sample Results

Benzene(ppm) Not reported

Total BTEX(ppm) Not reported

Field headspace(ppm) 256

TPH 3080

Ground Water Sample: Yes _____ No X (If yes, attach sample results)

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

Date

1/8/03

Signature

Scott T. Pope

Printed Name

Scott T. Pope

and Title

Senior ENV. Scientist



PIT CLOSURE REQUEST

Florance Gas Com E#9A
Meter/Line ID 90849

SITE DETAILS

Legals - Twn: 30N

Rng: 9

Sec: 13

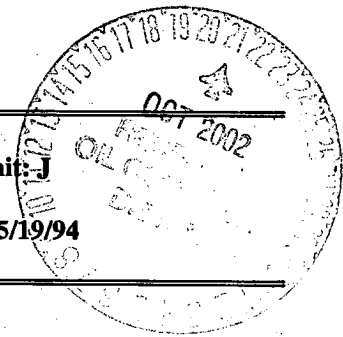
Unit: J

NMOCD Hazard Ranking: 10

Land Type: BLM

Operator: Amoco

Pit Closure Date: 05/19/94



RATIONALE FOR RISK-BASED CLOSURE

The pit noted above was assessed and ranked according to the criteria in the New Mexico Oil Conservation Division's (NMOCD) Unlined Surface Impoundment Closure Guidelines.

A test pit was excavated to 12 feet (ft) below ground surface (bgs) and a soil sample was collected for field headspace analysis and laboratory analysis for TPH. Groundwater was not encountered in the test pit. Headspace analysis indicated an organic vapor content of 256 ppm; laboratory analysis indicated a TPH concentration of 3,080 mg/kg. The field headspace analysis and TPH measurement were above required remediation levels for the Hazard Ranking Score of 10.

No soil was disposed of offsite. The pit was backfilled with site soil, topped with clean soil from the surrounding berms, and graded in a manner to direct surface runoff away from the pit area.

A Phase II boring was completed to 37 ft bgs. No groundwater was encountered in the soil boring. One laboratory sample was collected at 35-37 ft bgs. Headspace analysis indicated an organic vapor content of 0 ppm; laboratory analysis indicated a benzene concentration of <0.5 mg/kg, a total BTEX concentration of <3 mg/kg, and a TPH concentration of <20 mg/kg. The benzene, BTEX, and TPH concentrations were below recommended remediation levels for the Hazard Ranking Score.

No Phase III activities were conducted.

El Paso Field Services requests closure of the above mentioned production pit location for the following reasons:

- The primary source, discharge to the pit, has been removed for over eight years.
- Residual hydrocarbons in the soil will degrade by natural attenuation with minimal risk to the environment.
- The test pit was backfilled and the former pit area graded to direct surface runoff away from the former pit.
- The clean soil from the berms placed on top of the excavation would limit the potential for direct contact with hazardous constituents by livestock or the public; i.e., current direct contact exposure pathways are unlikely to be completed.
- Groundwater was not encountered in the soil boring that reached 37 ft bgs; local geologic features indicate the depth to groundwater is at least 50 ft bgs.



PIT CLOSURE REQUEST

- There are no water supply wells or other sources of fresh water extraction within 1,000 feet of the site.
- Benzene, total BTEX, and TPH were non-detect in the soil sample collected at the base of the Phase 2 soil boring.

ATTACHMENTS

Field Pit Assessment Form

Revised Field Pit Assessment Form

Field Pit Remediation/Closure Form

Phase 2 Soil Boring Log

Laboratory Analytical Results

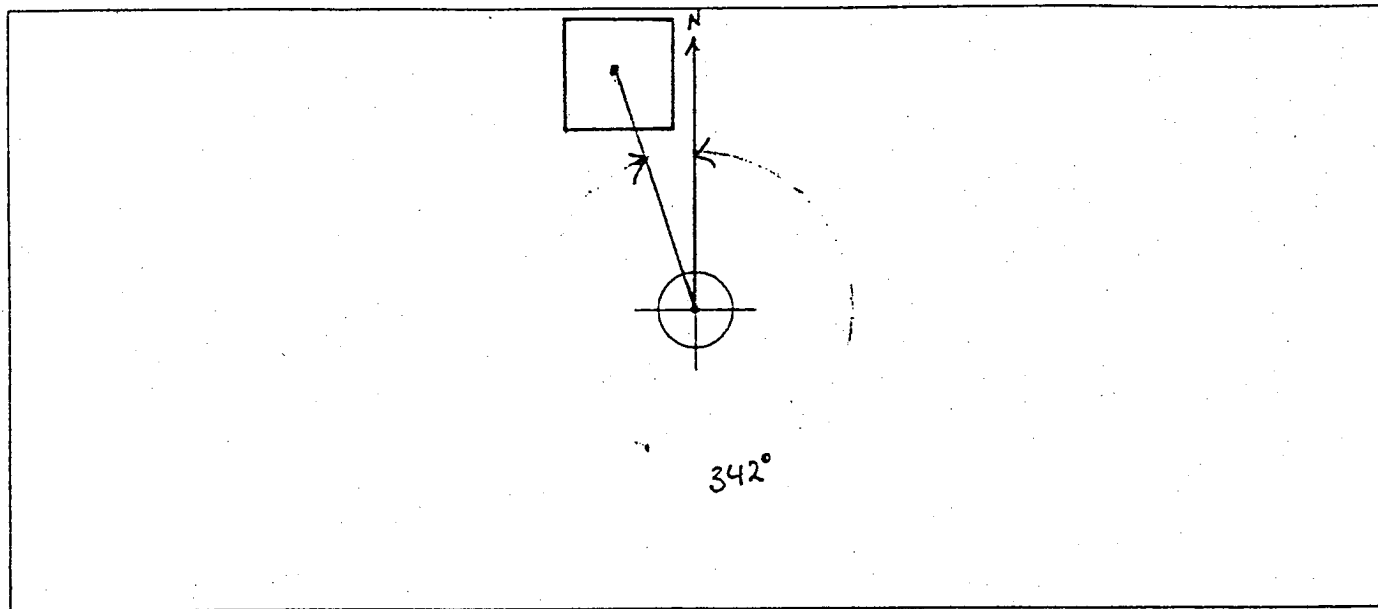
FIELD PIT SITE ASSESSMENT FORM

GENERAL	Meter: <u>90849</u> Location: <u>FLORANCE GAS COM E #9A</u> Operator #: <u>0203</u> Operator Name: <u>AMOCO</u> P/L District: <u>BLOOMFIELD</u> Coordinates: Letter: <u>J</u> Section <u>13</u> Township: <u>30</u> Range: <u>9</u> Or Latitude _____ Longitude _____ Pit Type: Dehydrator _____ Location Drip: <u>X</u> Line Drip: _____ Other: _____ Site Assessment Date: <u>4.27.94</u> Area: <u>10</u> Run: <u>22</u>
SITE ASSESSMENT	NMOCD Zone: (From NMOCD Maps) Inside ☐ (1) Outside ☒ (2) Land Type: BLM ☒ (1) State ☐ (2) Fee ☐ (3) Indian _____ Depth to Groundwater Less Than 50 Feet (20 points) ☐ (1) 50 Ft to 99 Ft (10 points) ☒ (2) Greater Than 100 Ft (0 points) ☐ (3) Wellhead Protection Area : Is it less than 1000 ft from wells, springs, or other sources of fresh water extraction? , or ; Is it less than 200 ft from a private domestic water source? ☐ (1) YES (20 points) ☒ (2) NO (0 points) Horizontal Distance to Surface Water Body Less Than 200 Ft (20 points) ☐ (1) 200 Ft to 1000 Ft (10 points) ☐ (2) Greater Than 1000 Ft (0 points) ☒ (3) Name of Surface Water Body _____ (Surface Water Body : Perennial Rivers, Major Wash, Streams, Creeks, Irrigation Canals, Ditches, Lakes, Ponds) Distance to Nearest Ephemeral Stream ☐ (1) < 100' (Navajo Pits Only) ☐ (2) > 100' TOTAL HAZARD RANKING SCORE: <u>10</u> POINTS
REMARKS	Remarks : <u>THREE PITS ON LOCATION. WILL CLOSE ONLY ONE. PIT IS DRY</u> <u>LOCATION IS UP ON SIDE OF HILL. REDLINE SHOWED LOCATION JUST INSIDE</u> <u>THE ZONE BUT TOPO SHOWS IT OUTSIDE THE U.Z.</u> DISH IN

ORIGINAL PIT LOCATION

ORIGINAL PIT LOCATION

Original Pit : a) Degrees from North 342° Footage from Wellhead 51'
b) Length : 17' Width : 16' Depth : 2'



REMARKS

Remarks :

TOOK PICTURES AT 8:51 A.M.

END DUMP

Completed By:

Signature

4.27.94

Date

REVISED FIELD PIT SITE ASSESSMENT FORM

GENERAL

Meter: 90849 Location: Florance Gas Com E #9A
 Operator #: _____ Operator Name: _____ P/L District: _____
 Coordinates: Letter: J Section 13 Township: 30 Range: 9
 Or Latitude _____ Longitude _____
 Pit Type: Dehydrator _____ Location Drip: _____ Line Drip: _____ Other: _____
 Site Assessment Date: 4/9/98 Area: _____ Run: _____

SITE ASSESSMENT

NMOCD Zone: (From NMOCD Maps) Inside ☐ (1) Outside ☒ (2)

Land Type: BLM ☒ (1) State ☐ (2) Fee ☐ (3) Indian _____

Depth to Groundwater
 Less Than 50 Feet (20 points) ☐ (1)
 50 Ft to 99 Ft (10 points) ☒ (2)
 Greater Than 100 Ft (0 points) ☐ (3)

Wellhead Protection Area
 Is it less than 1000 ft from wells, springs or other sources of fresh water extraction?, or; Is it less than 200 ft from a private domestic water source?
☐ (1) YES (20 points) ☒ (2) NO (0 points)

Horizontal Distance to Surface Water Body
 Less Than 200 Ft (20 points) ☐ (1)
 200 Ft to 1000 Ft (10 points) ☐ (2)
 Greater Than 1000 Ft (0 points) ☒ (3)

Name of Surface Water Body _____
 (Surface Water Body: Perennial Rivers, Streams, Creeks, Irrigation Canals, Ditches, Lakes, Ponds)

Distance to Nearest Ephemeral Stream ☐ (1) < 100' (Navajo Pits Only)
☐ (2) > 100'

TOTAL HAZARD RANKING SCORE: 10 POINTS

REMARKS

Remarks : Site has been re-assessed, due to initial assessment including washes as a Surface Water Body. Site is <100' vertical from center of Pump Canyon.



FIELD SERVICES LABORATORY
ANALYTICAL REPORT
PIT CLOSURE PROJECT - Soil

SAMPLE IDENTIFICATION

	Field ID	Lab ID
SAMPLE NUMBER:	VW118	945245
MTR CODE SITE NAME:	90849	N/A
SAMPLE DATE TIME (Hrs):	5-19-94	1250
SAMPLED BY:	N/A	
DATE OF TPH EXT. ANAL.:	5/20/94	5-20-94
DATE OF BTEX EXT. ANAL.:	N/A	N/A
TYPE DESCRIPTION:	VG	grey sand & clay

REMARKS:

RESULTS

PARAMETER	RESULT	UNITS	QUALIFIERS			
			DF	Q	M(g)	V(ml)
BENZENE		MG/KG				
TOLUENE		MG/KG				
ETHYL BENZENE		MG/KG				
TOTAL XYLENES		MG/KG				
TOTAL BTEX		MG/KG				
TPH (418.1)	3080	MG/KG			2.09	28
HEADSPACE PID	256	PPM				
PERCENT SOLIDS	89.4	%				

-- TPH is by EPA Method 418.1 and BTEX is by EPA Method 8020 --

Surrogate Recovery was at N/A % for this sample All QA/QC was acceptable.
tive:

DF = Dilution Factor Used

Approved By:

John L. Ladd

Date:

6/15/94

Meter: 90844 Location: Fluence Gas Com E #9A

Coordinates: Letter: J Section 13 Township: 30 Range: 9

Or Latitude _____ Longitude _____

Date Started : 5-19-94 Area: 10 Run: 22

FIELD OBSERVATIONS

Sample Number(s): VW118

Sample Depth: 12' Feet

Final PID Reading 256 PID Reading Depth 12' Feet

Yes No

Groundwater Encountered ☐ (1) ☒ (2) Approximate Depth _____ Feet

CLOSURE

Remediation Method :

Excavation ☐ (1) Approx. Cubic Yards _____

Onsite Bioremediation ☐ (2)

Backfill Pit Without Excavation ☒ (3)

Soil Disposition:

Envirotech ☐ (1) ☐ (3) Tierra

Other Facility ☐ (2) Name: _____

Pit Closure Date: 5-19-94 Pit Closed By: BEZ

REMARKS

Remarks : Line Markers

Signature of Specialist: Vale Wilson



CHAIN OF CUSTODY RECORD

Page _____ of _____

PROJECT NUMBER		PROJECT NAME		PROJECT ANALYSIS		REQUESTED ANALYSIS		CONTINUED LABORATORY P. O. NUMBER	
LABORATORY P. O. NUMBER		PROJECT NAME		PROJECT ANALYSIS		REQUESTED ANALYSIS		CONTINUED LABORATORY P. O. NUMBER	
LABORATORY P. O. NUMBER		PROJECT NAME		PROJECT ANALYSIS		REQUESTED ANALYSIS		CONTINUED LABORATORY P. O. NUMBER	
LABORATORY P. O. NUMBER		PROJECT NAME		PROJECT ANALYSIS		REQUESTED ANALYSIS		CONTINUED LABORATORY P. O. NUMBER	
LABID	DATE	TIME	MATRIX	SAMPLE NUMBER	TOTAL NUMBERS OF CONTAINERS	SAMPLE TYPE	TPH EPA 418.1	BTEX EPA 8020	REMARKS
5237	5-19-94	830	Soil	VW110	1	VG	X		See #
5238	5-19-94	915	Soil	VW111	1	VG	X		96
5239	5-19-94	945	Soil	VW112	1	VG	X		97
5240	5-19-94	1035	Soil	VW113	1	VG	X		98
5241	5-19-94	1110	Soil	VW114	1	VG	X		99
5242	5-19-94	1215	Soil	VW115	1	VG	X		100
5243	5-19-94	1215	Soil	VW116	1	D	X		101
5244	5-19-94	1220	Soil	VW117	1	B	X		102
5245	5-19-94	1250	Soil	VW118	1	VG	X		103
5246	5-19-94	1315	Soil	VW119	1	VG	X		104
5247	5-19-94	1400	Soil	VW120	1	VG	X		105
5248	5-19-94	1505	Soil	VW121	1	VG	X		
RELINQUISHED BY: (Signature)		RECEIVED BY: (Signature)		DATE/TIME	DATE/TIME	RELINQUISHED BY: (Signature)		DATE/TIME	RECEIVED BY: (Signature)
Vale Wilson		Brenda Linares		5/19/94 1730	5/20/94 0930	Brenda Linares		5/20/94 0930	Brenda Linares
RELINQUISHED BY: (Signature)		RECEIVED BY: (Signature)		DATE/TIME	DATE/TIME	RELINQUISHED BY: (Signature)		DATE/TIME	RECEIVED BY: (Signature)
Vale Wilson		Brenda Linares		5/19/94 1730	5/20/94 0930	Brenda Linares		5/20/94 0930	Brenda Linares
REQUESTED TURNAROUND TIME:		SAMPLE RECEIPT REMARKS		RESULTS & INVOICES TO:		FIELD SERVICES LABORATORY		EL PASO NATURAL GAS COMPANY	
☐ ROUTINE ☐ RUSH									
CARRIER CO.									
BILL NO.:									

RECORD OF SUBSURFACE EXPLORATION

PHILIP SERVICES CORP.

4000 Monroe Road
Farmington, New Mexico 87401
(505) 225-2262 FAX (505) 326-2388

Borehole # BH-1
Well # NA
Page 1 of 1

Project Number 19643 Phase 1001.77
Project Name EPFS PITS >10
Project Location FLORENCE GAS COM E47A 90849

Elevation _____
Borehole Location LTR: J S: 13 T: 30 R: 9
GWL Depth NA
Drilled By K. PADILLA
Well Logged By H. BRADBURY
Date Started 9/14/98
Date Completed 9/14/98

Drilling Method 4 1/4 ID HSA
Air Monitoring Method PID

Depth (Feet)	Sample Number	Sample Interval	Sample Type & Recovery (inches)	Sample Description Classification System: USCS	USCS Symbol	Depth Lithology Change (feet)	Air Monitoring Units: PPM			Drilling Conditions & Blow Counts
							BZ	BH	S/HS	
0										BZ=Breathing Zone BH=Borehole S/HS=Sample/Headspace
5										
10				EXCAVATION SAMPLE collected at 12'						
15	1	15-17	12	LT BR SANDY CLAY FINE SAND, v. soft, low plasticity, dry			0	148	138 179	1332 hrs
20	2	20-22	24	LT BR SANDY CLAY, FINE SAND, soft, low plasticity, dry			0	95	3 304	1338 hrs
25	3	25-27	16	DK BR SANDY CLAY, FINE SAND, stiff, high plastic, dry			0	127	4 190	1347 hrs
30	4	30-31	24	LT BR SAND, FINE-MED SAND, loose, dry	SW		0		1 69	1357 hrs
35	5	35-37	24	LT BR SAND, FINE SAND loose, dry			0	18	0 0	1414 hrs
40				TOB 37						

Comments:

HAB33 35-37 SENT TO Lab for TPH, BTEX. GW NOT
ENCOUNTERED. BH GROUTED TO SURFACE

Geologist Signature

Helen Bradbury



FIELD SERVICES LABORATORY
ANALYTICAL REPORT
PIT CLOSURE PROJECT

SAMPLE IDENTIFICATION

	Field ID	Lab ID
SAMPLE NUMBER:	HAB33	980649
MTR CODE SITE NAME:	90849	Florance Gas Com E #9A
SAMPLE DATE TIME (Hrs):	9/14/98	1414
PROJECT:	Phase II Drilling	
DATE OF TPH EXT. ANAL.:	9/23/98	9/25/98
DATE OF BTEX EXT. ANAL.:	9/17/98	9/17/98
TYPE DESCRIPTION:	VG	SOIL

Field Remarks: 35-37'

RESULTS

PARAMETER	RESULT	UNITS	QUALIFIERS			
			DF	Q	M(g)	V(ml)
BENZENE	<0.5	MG/KG				
TOLUENE	<0.5	MG/KG				
ETHYL BENZENE	<0.5	MG/KG				
TOTAL XYLENES	<1.5	MG/KG				
TOTAL BTEX	<3	MG/KG				
TPH (MOD.8015)	<20	MG/KG				
HEADSPACE PID	0	PPM				
PERCENT SOLIDS	93.7	%				

-- TPH is by EPA Method 418.1 and BTEX is by EPA Method 8020 --

The Surrogate Recovery was at 92.4 % for this sample All QA/QC was acceptable.
ative:

DF = Dilution Factor Used

Approved By: John Seubler

Date: 10/8/98



2709-D Pan American Freeway NE
Albuquerque, New Mexico 87107
Phone (505) 344-3777
Fax (505) 344-4413

GAS CHROMATOGRAPHY RESULTS

TEST : EPA 8015 MODIFIED (DIRECT INJECT)
CLIENT : EL PASO FIELD SERVICES
PROJECT # : (none)
PROJECT NAME : PHASE II DRILLING

PINNACLE I.D.: 809047

SAMPLE		MATRIX	DATE	DATE	DATE	DIL.
ID. #	CLIENT I.D.		SAMPLED	EXTRACTED	ANALYZED	FACTOR
01	980648	NON-AQ	9/14/98	9/23/98	9/25/98	1
02	980649	NON-AQ	9/14/98	9/23/98	9/25/98	1
03	980650	NON-AQ	9/14/98	9/23/98	9/25/98	1
PARAMETER		DET. LIMIT	UNITS	01	02	03
FUEL HYDROCARBONS, C6-C10		10	MG/KG	55	< 10	< 10
FUEL HYDROCARBONS, C10-C22		5.0	MG/KG	610	< 5.0	< 5.0
FUEL HYDROCARBONS, C22-C36		5.0	MG/KG	420	< 5.0	< 5.0
CALCULATED SUM:				1085		
SURROGATE:						
O-TERPHENYL (%)				114	103	99
SURROGATE LIMITS		(66 - 151)				

CHEMIST NOTES:
N/A



2709-D Pan American Freeway NE
Albuquerque, New Mexico 87107
Phone (505) 344-3777
Fax (505) 344-4413

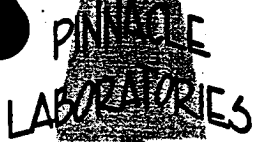
GAS CHROMATOGRAPHY RESULTS

TEST : EPA 8015 MODIFIED (DIRECT INJECT)
CLIENT : EL PASO FIELD SERVICES
PROJECT # : (none)
PROJECT NAME : PHASE II DRILLING

PINNACLE I.D.: 809047

SAMPLE		MATRIX	DATE	DATE	DATE	DIL.
ID. #	CLIENT I.D.		SAMPLED	EXTRACTED	ANALYZED	FACTOR
04	980651	NON-AQ	9/15/98	9/23/98	9/25/98	1
05	980652	NON-AQ	9/15/98	9/23/98	9/25/98	1
PARAMETER		DET. LIMIT	UNITS	04	05	
FUEL HYDROCARBONS, C6-C10		10	MG/KG	< 10	< 10	
FUEL HYDROCARBONS, C10-C22		5.0	MG/KG	< 5.0	< 5.0	
FUEL HYDROCARBONS, C22-C36		5.0	MG/KG	< 5.0	< 5.0	
CALCULATED SUM:						
SURROGATE:						
O-TERPHENYL (%)				101	101	
SURROGATE LIMITS		(66 - 151)				

CHEMIST NOTES:
N/A



2709-D Pan American Freeway NE
Albuquerque, New Mexico 87107
Phone (505) 344-3777
Fax (505) 344-4413

GAS CHROMATOGRAPHY RESULTS

REAGENT BLANK

TEST	: EPA 8015 MODIFIED (DIRECT INJECT)	PINNACLE I.D.	: 809047
BLANK I.D.	: 092398-2	DATE EXTRACTED	: 9/23/98
CLIENT	: EL PASO FIELD SERVICES	DATE ANALYZED	: 9/24/98
PROJECT #	: (none)	SAMPLE MATRIX	: NON-AQ
PROJECT NAME	: PHASE II DRILLING		

PARAMETER	UNITS	
FUEL HYDROCARBONS, C6-C10	MG/KG	< 10
FUEL HYDROCARBONS, C10-C22	MG/KG	< 5.0
FUEL HYDROCARBONS, C22-C36	MG/KG	< 5.0

SURROGATE: 101
BIPHENYL (%)
SURROGATE LIMITS (80 - 151)

CHEMIST NOTES:
N/A

1/5/98 AEN Inc.: American Environmental Network (NIM), Inc. - 2709-D Pan American Freeway, NE - Albuquerque, New Mexico 87107 - (505) 344-3777 - Fax (505) 344-4413
DISTRIBUTION: White - AEN, Canary - Originator

BTEX SOIL SAMPLE WORKSHEET

File	:	980649	Date Printed	:	9/23/98
Soil Mass (g)	:	5.07	Multiplier (L/g)	:	0.00099
Extraction vol. (mL)	:	10	CAL FACTOR (Analytical)	:	200
Shot Volume (uL)	:	50	CAL FACTOR (Report)	:	0.19724

	DILUTION FACTOR:	1	Det. Limit
Benzene (ug/L) : <0.5	Benzene (mg/Kg):	#VALUE!	0.493
Toluene (ug/L) : <0.5	Toluene (mg/Kg):	#VALUE!	0.493
Ethylbenzene (ug/L) : <0.5	Ethylbenzene (mg/Kg):	#VALUE!	0.493
p & m-xylene (ug/L) : <1.0	p & m-xylene (mg/Kg):	#VALUE!	0.986
o-xylene (ug/L) : <0.5	o-xylene (mg/Kg):	#VALUE!	0.493
	Total xylenes (mg/Kg):	#VALUE!	1.479
	Total BTEX (mg/Kg):	#VALUE!	



PHASE # DRILLING

Natural Gas Company

CHAIN OF CUSTODY RECORD

10-21-98 Kper.

Anal.

10-28-98
: 500 chm.

Page-

of -

[illegible]

White - Testing Laboratory Canary - EPNG Lab Pink - Field Sampler

FM-08-0565 A (Rev. 05-94)