

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

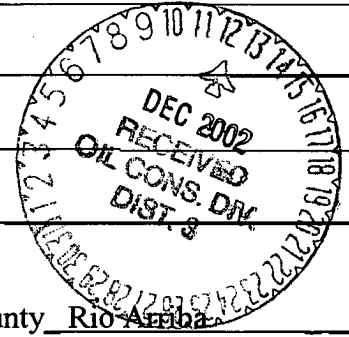
State of New Mexico
Energy Minerals and Natural Resources
Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

*RJK
Baldock
does not
define plumes*

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: Conoco Telephone: _____
Address: 30-039-07212
Facility Or: San Juan 28-7 Unit 85, Meter 72298
Well Name _____
Location: Unit or Qtr/Qtr Sec A Sec 6 T 27 R 7 County Rio Arriba
Pit Type: Separator _____ Dehydrator X Other _____
Land Type: BLM X, State _____, Fee _____ Other _____



Pit Location: Pit dimensions: length 51', width 30', depth 4'
(Attach diagram)
Reference: wellhead X, other _____
Footage from reference: 79'
Direction from reference: 1 Degrees X East North _____
of _____ West South _____

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

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

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

RANKING SCORE (TOTAL POINTS): 20

Date Remediation Started: 08/19/94 Date completed: 08/19/94

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: EPNG lines marked. Soil gray, slight hydrocarbon odor. Hit sandstone 3'

Ground Water Encountered: No X Yes _____ Depth _____

Final Pit: Sample location Four walls and center of pit composite

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

Sample depth 3'

Sample Date 08/19/94 Sample time 10:50

Sample Results

Benzene(ppm) Not reported

Total BTEX(ppm) Not reported

Field headspace(ppm) 84

TPH 3310

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

San Juan 28-7 Unit 85
Meter/Line ID 72298

SITE DETAILS

Legals - Twn: 27N
NMOCD Hazard Ranking: 20
Operator: Conoco

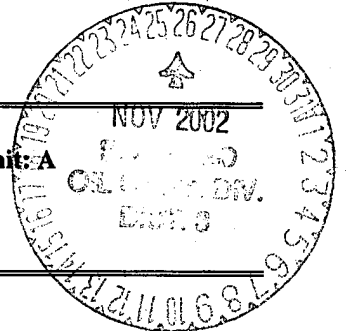
Rng: 7W

Sec: 6

Land Type: BLM

Pit Closure Date: 8/19/94

Unit: A



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 3 feet (ft) below ground surface (bgs) where sandstone was encountered 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 84 ppm; laboratory analysis indicated a TPH concentration of 3,310 mg/kg. The headspace analysis and TPH measurement exceeded recommended remediation levels for the Hazard Ranking Score of 20.

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 refusal at 7 ft bgs. No groundwater was encountered in the soil boring. One laboratory sample was collected at 5-6 ft bgs. Headspace analysis indicated an organic vapor content of 374 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 595 mg/kg. The benzene and BTEX concentrations were below recommended remediation levels for the Hazard Ranking Score.

does not meet standards

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.
- 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 test excavation or boring to a depth of 7 ft bgs.
- There are no water supply wells or other sources of fresh water extraction within 1,000 feet of the site.
- Benzene and BTEX were non-detect at the base of the Phase II soil boring.

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PIT CLOSURE REQUEST

- The TPH concentrations at the bottom of the Phase II boring are approximately 18 percent of the concentration at 3 ft bgs indicating that residual hydrocarbons are degrading by natural attenuation with minimal risk to the environment.
- Bedrock was encountered at 3 ft bgs making further excavation impractical.

ATTACHMENTS

Field Pit Assessment Form

Revised Field Pit Assessment Form

Field Pit Remediation/Closure Form

Phase II Soil Boring Log

Laboratory Analytical Results

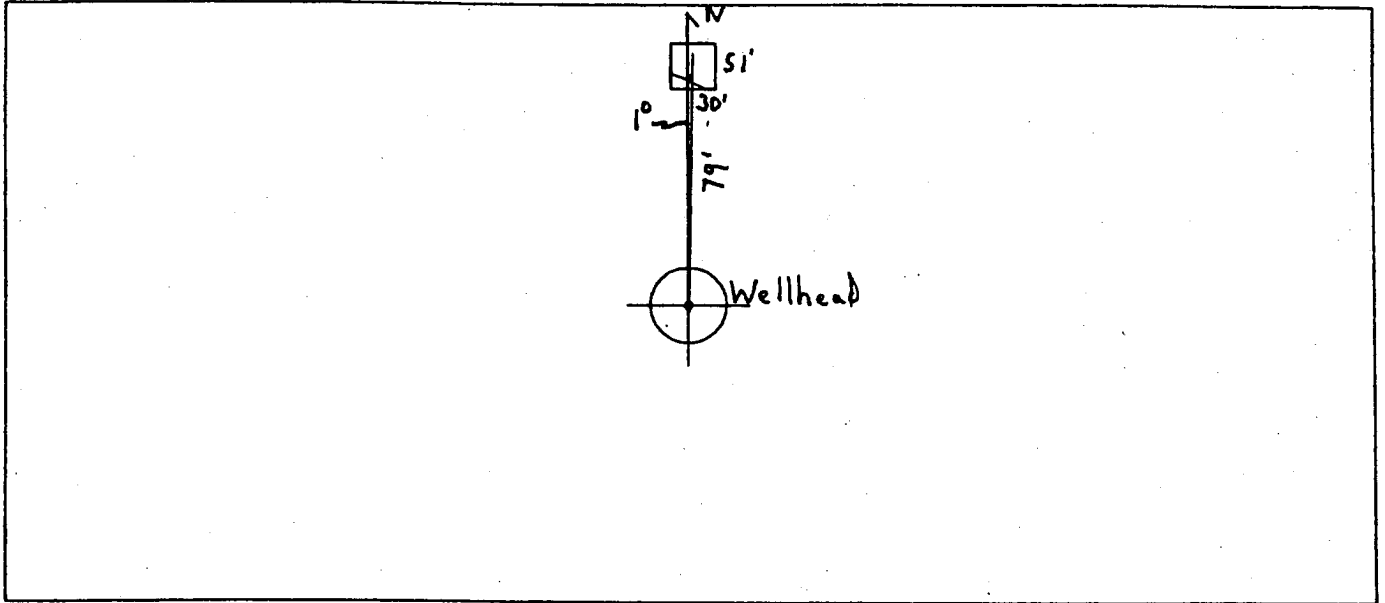
FIELD PIT SITE ASSESSMENT FORM

GENERAL	<p>Meter: <u>12298</u> Location: <u>San Juan 28-7 Unit 85</u></p> <p>Operator #: <u>0203</u> Operator Name: <u>Amoco</u> P/L District: <u>Blanco</u></p> <p>Coordinates: Letter: <u>A</u> Section <u>6</u> Township: <u>27</u> Range: <u>7</u></p> <p>Or Latitude <input checked="" type="checkbox"/> Longitude _____</p> <p>Pit Type: Dehydrator <input checked="" type="checkbox"/> Location Drip: _____ Line Drip: _____ Other: _____</p> <p>Site Assessment Date: <u>5/27/94</u> Area: <u>13</u> Run: <u>61</u></p>
SITE ASSESSMENT	<p>NMOCD Zone: (From NMOCD Maps)</p> <p style="margin-left: 100px;">Inside <input type="checkbox"/> (1)</p> <p style="margin-left: 100px;">Outside <input checked="" type="checkbox"/> (2)</p> <p>Land Type:</p> <p style="margin-left: 100px;">BLM <input checked="" type="checkbox"/> (1)</p> <p style="margin-left: 100px;">State <input type="checkbox"/> (2)</p> <p style="margin-left: 100px;">Fee <input type="checkbox"/> (3)</p> <p style="margin-left: 100px;">Indian _____</p> <p>Depth to Groundwater</p> <p>Less Than 50 Feet (20 points) <input checked="" type="checkbox"/> (1)</p> <p>50 Ft to 99 Ft (10 points) <input type="checkbox"/> (2)</p> <p>Greater Than 100 Ft (0 points) <input type="checkbox"/> (3)</p> <p>Wellhead Protection Area :</p> <p>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? <input type="checkbox"/> (1) YES (20 points) <input checked="" type="checkbox"/> (2) NO (0 points)</p> <p>Horizontal Distance to Surface Water Body</p> <p>Less Than 200 Ft (20 points) <input checked="" type="checkbox"/> (1)</p> <p>200 Ft to 1000 Ft (10 points) <input type="checkbox"/> (2)</p> <p>Greater Than 1000 Ft (0 points) <input type="checkbox"/> (3)</p> <p>Name of Surface Water Body <u>Stove Canyon</u></p> <p>(Surface Water Body : Perennial Rivers, Major Wash, Streams, Creeks, Irrigation Canals, Ditches, Lakes, Ponds)</p> <p>Distance to Nearest Ephemeral Stream <input type="checkbox"/> (1) < 100' (Navajo Pits Only)</p> <p style="margin-left: 100px;"><input type="checkbox"/> (2) > 100'</p> <p>TOTAL HAZARD RANKING SCORE: <u>40</u> POINTS</p>
REMARKS	<p>Remarks : <u>Redline-Inside, Voln - Outside</u></p> <p><u>4 pits. Close. Pit Day Pithas liquid (10'x5'x4-6"). Called Blanco office.</u></p>

ORIGINAL PIT LOCATION

ORIGINAL PIT LOCATION

Original Pit : a) Degrees from North 1° Footage from Wellhead 79'
b) Length : 51' Width : 30' Depth : 4'



REMARKS

Remarks :

Pictures @ 1429(6-10)

Dump Truck

Partially buried pipe in pit.

Completed By:

Cory Chase
Signature

5/27/94
Date

REVISED
FIELD PIT SITE ASSESSMENT FORM

GENERAL

Meter: 72298 Location: San Juan 28-7 Unit 85
Operator #: _____ Operator Name: _____ P/L District: _____
Coordinates: Letter: A Section 6 Township: 27 Range: 7
Or Latitude _____ Longitude _____
Pit Type: Dehydrator _____ Location Drip: _____ Line Drip: _____ Other: _____
Site Assessment Date: 4/14/98 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: 20 POINTS

REMARKS

Remarks : Site has been re-assessed, due to initial assessment including washes as a Surface Water Body. Site is <50' vertical from center of Stone Canyon



FIELD SERVICES LABORATORY
ANALYTICAL REPORT

PIT CLOSURE PROJECT - Soil Samples Outside the GWV Zone

SAMPLE IDENTIFICATION

	Field ID	Lab ID
SAMPLE NUMBER:	mk 278	945983
MTR CODE SITE NAME:	72298	N/A
SAMPLE DATE TIME (Hrs):	8-19-94	1050
SAMPLED BY:	N/A	
DATE OF TPH EXT. ANAL.:	8-24-94	8-24-94
DATE OF BTEX EXT. ANAL.:	N/A	N/A
TYPE DESCRIPTION:	VG	fin sand & clay

REMARKS:

RESULTS

PARAMETER	RESULT	UNITS	QUALIFIERS			
			DF	Q	M(g)	V(ml)
TPH (418.1)	3310	MG/KG			2.14	28
HEADSPACE PID	84	PPM				
PERCENT SOLIDS	93.7	%				

-- TPH is by EPA Method 418.1 --

Narrative:

DF = Dilution Factor Used

Approved By: JL

Date: 9/2/94

FIELD PIT REMEDIATION/CLOSURE FORM

GENERAL

Meter: 72298 Location: SAN JUAN 28-7 #85
 Coordinates: Letter: A Section 6 Township: 27 Range: 7
 Or Latitude _____ Longitude _____
 Date Started : 8-19-94 Run: 13 61

FIELD OBSERVATIONS

Sample Number(s): MK 278
 Sample Depth: 3' Feet
 Final PID Reading 84 PID Reading Depth 3' Feet
 Yes No
 Groundwater Encountered Approximate Depth _____ Feet

CLOSURE

Remediation Method :
 Excavation Approx. Cubic Yards _____
 Onsite Bioremediation
 Backfill Pit Without Excavation
 Soil Disposition:
 Envirotech Tierra
 Other Facility Name: _____
 Pit Closure Date: 8-19-94 Pit Closed By: BEI

REMARKS

Remarks : ENGINEER'S MARK SOIL GREY SLIGHT HYDROCARBON
ODOR HIT SANDSTONE 3'

Signature of Specialist: Morgan Killian



CHAIN OF CUSTODY RECORD

PROJECT NUMBER		PROJECT NAME		CONTINACT LABORATORY P. O. NUMBER							
24324		Pit Closure Project # 24324									
SAMPLERS: (Signature)		DATE		RECEIVED BY: (Signature)							
<i>Morgan Hillier</i>		8-18-94		<i>Bernadette Lisco</i>							
LAB ID	DATE	TIME	MATRIX	SAMPLE NUMBER	TOTAL NUMBERS OF CONTAINERS	SAMPLE TYPE	TPH EPA 418.1	BTEX EPA 8020	REQUESTED ANALYSIS	REMARKS	
SA 93	8-19-94	10:50	soil	MK 278	1	VG	X			250 Gray Soil Slight Hydrocarbon odor	
SA 94	8-19-94	11:59	soil	MK 277	1	VG	X			251 Gray soil Strong Hydrocarbon odor	
SA 95	8-19-94	13:15	soil	MK 280	1	VG	X			252 Brown soil Strong Hydrocarbon odor	
SA 96	8-19-94	14:38	soil	MK 281	1	UG	X			253 Gray Soil Strong Hydrocarbon odor	

RELINQUISHED BY: (Signature)		DATE/TIME		RECEIVED BY: (Signature)		DATE/TIME		RECEIVED BY: (Signature)			
<i>Morgan Hillier</i>		8-19-94 17:00		<i>Bernadette Lisco</i>		8/22/94 10:45		<i>[Signature]</i>			
RELINQUISHED BY: (Signature)		DATE/TIME		RECEIVED BY: (Signature)		DATE/TIME		RECEIVED BY: (Signature)			
<i>[Signature]</i>				<i>[Signature]</i>				<i>[Signature]</i>			
REQUESTED TURNAROUND TIME:		ROUTINE <input type="checkbox"/> RUSH <input type="checkbox"/>		SAMPLE RECEIPT REMARKS		RESULTS & INVOICES TO:		FIELD SERVICES LABORATORY		EL PASO NATURAL GAS COMPANY	
CARRIER CO.		CHARGE CODE		505-599-2144		505-599-2261		FARMINGTON, NEW MEXICO 87499			
BILL NO.:											

RECORD OF SUBSURFACE EXPLORATION

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

PHILIP SERVICES CORP.
 30 [Redacted] Road
 [Redacted] New Mexico 87401
 (505) 326-2388 FAX (505) 326-2388

Project Number 19643 Phase 1001.77
 Project Name EPFS PITS >10
 Project Location SAN JUAN 28-7 UNIT 85 72298

Elevation _____
 Borehole Location LTR: A S: 6 T: 27 R: 7
 Well Depth NA
 Drilled By K. PADILLA
 Well Logged By H. BRADBURY
 Date Started 11/16/98
 Date Completed 11/16/98

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				EXCAVATION SAMPLE COLLECTED AT 3'						BZ=Breathing Zone BH=Borehole S/HS=Sample/Headspace
5	1	5-6	12	LT BR SANDSTONE FINE SAND, LOW CEMENTATION, dry			0	46	149	1120 hrs
10	2			TOB 7'						hrs
15										
20										
25										
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Comments: HAB68 (5-6') SENT TO LAB FOR TPH, BTEX, GW
NOT ENCOUNTERED BH GROUTED TO SURFACE
AUGER REFUSAL AT 7'
 Geologist Signature Holly Bradbury



**FIELD SERVICES LABORATORY
ANALYTICAL REPORT
PIT CLOSURE PROJECT**

SAMPLE IDENTIFICATION

	Field ID	Lab ID
SAMPLE NUMBER:	HAB68	980817
MTR CODE SITE NAME:	72298	San Juan 28-7 Unit 85
SAMPLE DATE TIME (Hrs):	11/16/98	1120
PROJECT:	Phase II Drilling	
DATE OF TPH EXT. ANAL.:	11/23/98	11/26/98
DATE OF BTEX EXT. ANAL.:	11/19/98	11/20/98
TYPE DESCRIPTION:	VG	SOIL

Field Remarks: 5-6'

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)	595	MG/KG				
HEADSPACE PID	374	PPM				
PERCENT SOLIDS	93.2	%				

-- TPH is by EPA Method 8015 and BTEX is by EPA Method 8020 --

Surrogate Recovery was at 95.1 % for this sample All QA/QC was acceptable.
ative:

DF = Dilution Factor Used

Approved By: John J. [Signature]

Date: 12/21/98



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

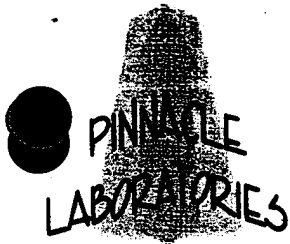
GAS CHROMATOGRAPHY RESULTS

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

PINNACLE I.D.: 811074

SAMPLE		DATE	DATE	DATE	DIL.	
ID. #	CLIENT I.D.	MATRIX	SAMPLED	EXTRACTED	ANALYZED	FACTOR
01	980817	NON-AQ	11/16/98	11/23/98	11/26/98	1
02	980818	NON-AQ	11/16/98	11/23/98	11/26/98	1
03	980819	NON-AQ	11/16/98	11/23/98	11/26/98	1
PARAMETER	DET. LIMIT	UNITS	01	02	03	
FUEL HYDROCARBONS, C6-C10	10	MG/KG	45	< 10	12	
FUEL HYDROCARBONS, C10-C22	5.0	MG/KG	400	< 5.0	52	
FUEL HYDROCARBONS, C22-C36	5.0	MG/KG	150	< 5.0	14	
UNCALCULATED SUM:			595		78	
SURROGATE:						
O-TERPHENYL (%)			118	86	84	
SURROGATE LIMITS	(66 - 151)					

CHEMIST NOTES:
N/A



2709-D Pan American Freeway NE
Albuquerque, New Mexico 87107
Phone (505) 344-3777
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GAS CHROMATOGRAPHY RESULTS

TEST : EPA 8015 MODIFIED (DIRECT INJECT)
CLIENT : EL PASO FIELD SERVICES
PROJECT # : (none)
PROJECT NAME : PHASE II DRILLING
PINNACLE I.D.: 811074

SAMPLE ID. #	CLIENT I.D.	MATRIX	DATE	DATE	DATE	DIL.
			SAMPLED	EXTRACTED	ANALYZED	FACTOR
04	980820	NON-AQ	11/16/98	11/23/98	11/26/98	1
05	980821	NON-AQ	11/16/98	11/23/98	11/26/98	1
06	980822	NON-AQ	11/17/98	11/23/98	11/27/98	1
PARAMETER	DET. LIMIT	UNITS	04	05	06	
FUEL HYDROCARBONS, C6-C10	10	MG/KG	240	15	< 10	
FUEL HYDROCARBONS, C10-C22	5.0	MG/KG	130	< 5.0	< 5.0	
FUEL HYDROCARBONS, C22-C36	5.0	MG/KG	40	< 5.0	< 5.0	
CALCULATED SUM:			410	15.0		
SURROGATE:						
O-TERPHENYL (%)			87	90	84	
SURROGATE LIMITS (66 - 151)						

CHEMIST NOTES: ✓
N/A



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GAS CHROMATOGRAPHY RESULTS

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

PINNACLE I.D.: 811074

SAMPLE ID. #	CLIENT I.D.	MATRIX	DATE SAMPLED	DATE EXTRACTED	DATE ANALYZED	DIL. FACTOR
07	980823	NON-AQ	11/17/98	11/23/98	11/27/98	5
PARAMETER	DET. LIMIT	UNITS	07			
FUEL HYDROCARBONS, C6-C10	10	MG/KG	2200			
FUEL HYDROCARBONS, C10-C22	5.0	MG/KG	170			
FUEL HYDROCARBONS, C22-C36	5.0	MG/KG	< 25			
CALCULATED SUM:			2370			
SURROGATE:			83			
O-TERPHENYL (%)						
SURROGATE LIMITS	(66 - 151)					

CHEMIST NOTES:
N/A

BTEX SOIL SAMPLE WORKSHEET

File : 980817
Soil Mass (g) : 5.00
Extraction vol. (mL) : 10
Shot Volume (uL) : 50

Date Printed : 11/23/98
Multiplier (L/g) : 0.00100
CAL FACTOR (Analytical): 200
CAL FACTOR (Report): 0.20000

		DILUTION FACTOR:	1	Det. Limit
Benzene (ug/L) :	<0.5	Benzene (mg/Kg):	#VALUE!	0.500
Toluene (ug/L) :	<0.5	Toluene (mg/Kg):	#VALUE!	0.500
Ethylbenzene (ug/L) :	0.74	Ethylbenzene (mg/Kg):	0.147	0.500
p & m-xylene (ug/L) :	<1	p & m-xylene (mg/Kg):	#VALUE!	1.000
o-xylene (ug/L) :	1.08	o-xylene (mg/Kg):	0.215	0.500
		Total xylenes (mg/Kg):	#VALUE!	1.500
		Total BTEX (mg/Kg):	#VALUE!	

