

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

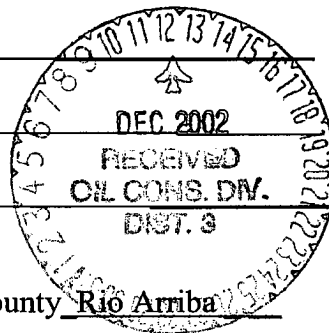
*Risk  
bedrock  
defined extent  
of plume*

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: Meridian Oil Inc. Telephone \_\_\_\_\_  
Address: 30-039-20108  
Facility Or: San Juan 28-5 Unit #75, Meter 75901  
Well Name \_\_\_\_\_  
Location: Unit or Qtr/Qtr Sec G Sec 17 T 28 R 5 County Rio Arriba  
Pit Type: Separator \_\_\_\_\_ Dehydrator X Other \_\_\_\_\_  
Land Type: BLM X, State \_\_\_\_\_, Fee \_\_\_\_\_ Other \_\_\_\_\_



Pit Location: Pit dimensions: length 28', width 24', depth 4'  
(Attach diagram)  
Reference: wellhead X, other \_\_\_\_\_  
Footage from reference: 69'  
Direction from reference: 150 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 50 feet to 99 feet Greater than 100 feet	(20 points) (10 points) ( 0 points) <u>10</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 200 feet to 1000 feet Greater than 1000 feet	(20 points) (10 points) ( 0 points) <u>0</u>

RANKING SCORE (TOTAL POINTS): 10

Date Remediation Started: 07/05/94 Date completed: 07/05/94

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 black, slight odor. Hit sandstone 5'.

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 5'

Sample Date 07/05/94 Sample time 16:38

## Sample Results

Benzene(ppm) Not reported.

Total BTEX(ppm) Not reported.

Field headspace(ppm) 203

TPH 6610

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.

ate

Signature

Printed Name

and Title

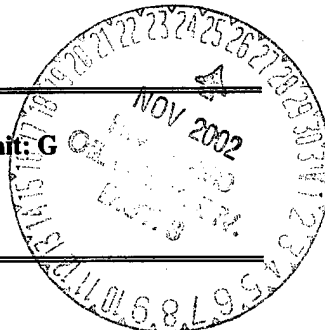
Scott T. Pope

Senior Env. Scientist



## SITE DETAILS

Unit: G



H:\Marc Greeley\Dry Pit Cover Sheets\Second Dry Pit Submittal\Federal Sites\Dry Pit Closure Form 2002 75901 Final.doc



## **PIT CLOSURE REQUEST**

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- TPH concentrations in the soil at 20 ft bgs were about 3% of the concentration at 5 ft bgs, and were below the recommended remediation levels for this site. This strong attenuation with depth indicates that residual hydrocarbons will degrade by natural attenuation with minimal risk to the environment.
- Residual hydrocarbons in the soil will likely degrade by natural attenuation with minimal risk to human health and the environment.

### **ATTACHMENTS**

Field Pit Assessment Form

Revised Field Pit Assessment Form

Field Pit Remediation/Closure Form

Phase II Soil Boring Log

Laboratory Analytical Results

**REVISED**  
**FIELD PIT SITE ASSESSMENT FORM**

<b>GENERAL</b>	<p>Meter: <u>75901</u> Location: <u>SAN JUAN 28-S UNIT #75</u></p> <p>Operator #: _____ Operator Name: <u>BURLINGTON RES.</u> P/L District: _____</p> <p>Coordinates: Letter: <u>G</u> Section <u>17</u> Township: <u>28</u> Range: <u>S</u></p> <p>Or Latitude _____ Longitude _____</p> <p>Pit Type: Dehydrator <input checked="" type="checkbox"/> Location Drip: _____ Line Drip: _____ Other: _____</p> <p>Site Assessment Date: <u>4.29.98</u> Area: <u>10</u> Run: <u>71</u></p>
<b>SITE ASSESSMENT</b>	<p><b>NMOCD Zone:</b> (From NMOCD Maps)</p> <p style="margin-left: 100px;">Inside <input type="checkbox"/> (1) Outside <input checked="" type="checkbox"/> (2)</p> <p><b>Land Type:</b></p> <p style="margin-left: 100px;">BLM <input checked="" type="checkbox"/> (1) State <input type="checkbox"/> (2) Fee <input type="checkbox"/> (3) Indian _____</p> <p><b>Depth to Groundwater</b></p> <p>Less Than 50 Feet (20 points) <input type="checkbox"/> (1) 50 Ft to 99 Ft (10 points) <input checked="" type="checkbox"/> (2) Greater Than 100 Ft (0 points) <input type="checkbox"/> (3)</p> <p><b>Wellhead Protection Area</b></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?</p> <p style="text-align: center;"><input type="checkbox"/> (1) YES (20 points) <input checked="" type="checkbox"/> (2) NO (0 points)</p> <p><b>Horizontal Distance to Surface Water Body</b></p> <p>Less Than 200 Ft (20 points) <input type="checkbox"/> (1) 200 Ft to 1000 Ft (10 points) <input type="checkbox"/> (2) Greater Than 1000 Ft (0 points) <input checked="" type="checkbox"/> (3)</p> <p>Name of Surface Water Body _____</p> <p>(Surface Water Body: Perennial Rivers, Streams, Creeks, Irrigation Canals, Ditches, Lakes, Ponds)</p> <p>Distance to Nearest Ephemeral Stream <input type="checkbox"/> (1) &lt; 100' (Navajo Pits Only) <input type="checkbox"/> (2) &gt; 100'</p> <p><b>TOTAL HAZARD RANKING SCORE:</b> <u>10</u> POINTS</p>
<b>REMARKS</b>	<p>Remarks : <u>Site has been re-assessed, due to initial assessment including washes as a Surface Water Body. LOCATION IS IN A REMOTE AREA SOUTH OF GOBERNADOR UP ON A HILL.</u></p>

# REVISED FIELD PIT SITE ASSESSMENT FORM

<b>GENERAL</b>	Meter: <u>75901</u> Location: <u>San Juan 28-5 #75</u> Operator #: _____ Operator Name: _____ P/L District: _____ Coordinates: Letter: <u>G</u> Section <u>17</u> Township: <u>28</u> Range: <u>5</u> Or Latitude _____ Longitude _____ Pit Type: Dehydrator _____ Location Drip: _____ Line Drip: _____ Other: _____ Site Assessment Date: <u>4/8/98</u> Area: _____ Run: _____
<b>SITE ASSESSMENT</b>	<div style="display: flex; justify-content: space-between;"> <div style="width: 45%;"> <b>NMOCD Zone:</b>            (From NMOCD Maps)         </div> <div style="width: 45%;"> <b>Land Type:</b> <div style="display: flex; justify-content: space-between;"> <div style="width: 45%;"> <input type="checkbox"/> (1) Inside  <input checked="" type="checkbox"/> (2) Outside           </div> <div style="width: 45%;">             BLM <input checked="" type="checkbox"/> (1)              State <input type="checkbox"/> (2)              Fee <input type="checkbox"/> (3)              Indian _____           </div> </div> </div> </div> <div style="margin-top: 10px;"> <b>Depth to Groundwater</b>            Less Than 50 Feet (20 points) <input type="checkbox"/> (1)            50 Ft to 99 Ft (10 points) <input checked="" type="checkbox"/> (2) <i>corr 4/8/98</i>            Greater Than 100 Ft (0 points) <input type="checkbox"/> (3)         </div> <div style="margin-top: 10px;"> <b>Wellhead Protection Area</b>            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?  <div style="display: flex; justify-content: space-around;"> <input type="checkbox"/> (1) YES (20 points)           <input checked="" type="checkbox"/> (2) NO (0 points)         </div> </div> <div style="margin-top: 10px;"> <b>Horizontal Distance to Surface Water Body</b>            Less Than 200 Ft (20 points) <input type="checkbox"/> (1)            200 Ft to 1000 Ft (10 points) <input type="checkbox"/> (2)            Greater Than 1000 Ft (0 points) <input checked="" type="checkbox"/> (3)         </div> <div style="margin-top: 10px;">           Name of Surface Water Body _____            (Surface Water Body: Perennial Rivers, Streams, Creeks, Irrigation Canals, Ditches, Lakes, Ponds)         </div> <div style="margin-top: 10px;">           Distance to Nearest Ephemeral Stream           <div style="display: flex; justify-content: space-around;"> <input type="checkbox"/> (1) &lt; 100' (Navajo Pits Only)  <input type="checkbox"/> (2) &gt; 100'           </div> </div> <div style="margin-top: 10px;"> <b>TOTAL HAZARD RANKING SCORE:</b> _____ <b>POINTS</b> </div>
<b>REMARKS</b>	Remarks : <u>Site has been re-assessed, due to initial assessment including washes as a Surface Water Body. No well site is shown on map in Ltr G.</u> <u>Need site visit to determine depth to Groundwater</u>

# FIELD PIT SITE ASSESSMENT FORM

GENERAL

Meter: 75901 Location: San Juan 28-5-#75  
 Operator #: 2999 Operator Name: Meridian P/L District: Bloomfield  
 Coordinates: Letter: G Section 17 Township: 28 Range: 5  
 Or Latitude \_\_\_\_\_ Longitude \_\_\_\_\_  
 Pit Type: Dehydrator ☒ Location Drip: \_\_\_\_\_ Line Drip: \_\_\_\_\_ Other: \_\_\_\_\_  
 Site Assessment Date: 6-3-94 Area: 10 Run: 71

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:** \_\_\_\_\_ POINTS

REMARKS

Remarks : One pit on location. Pit is dry. Location outside VZ on Redline map & TOPO map. location just west of Gobernador Canyon near southwest terminus

# FIELD PIT REMEDIATION/CLOSURE FORM

GENERAL

Meter: 75901 Location: SAN Juan 28-5 # 75  
 Coordinates: Letter: G Section 17 Township: 28 Range: 5  
 Or Latitude \_\_\_\_\_ Longitude \_\_\_\_\_  
 Date Started : 7-5-94 Area: 10 Run: 71

FIELD OBSERVATIONS

Sample Number(s): MK 85  
 Sample Depth: 5' Feet  
 Final PID Reading 203 PID Reading Depth 5' 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: 7-5-94 Pit Closed By: BEI

REMARKS

Remarks : EPNG LINES marked Soil Black slight  
odor Hit sandstone 5'

Signature of Specialist: Morgan Killian





## FIELD SERVICES LABORATORY

## ANALYTICAL REPORT

## PIT CLOSURE PROJECT - Soil

## SAMPLE IDENTIFICATION

	Field ID	Lab ID
SAMPLE NUMBER:	mk 85	945587
MTR CODE   SITE NAME:	89601 75901	N/A
SAMPLE DATE   TIME (Hrs):	7-5-94	1638
SAMPLED BY:	N/A	
DATE OF TPH EXT.   ANAL.:	7/7/94	7/7/94
DATE OF BTEX EXT.   ANAL.:	N/A	N/A
TYPE   DESCRIPTION:	VG	Blk/DK Brown mottled 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)	6610	MG/KG			1.07	28
HEADSPACE PID	203	PPM				
PERCENT SOLIDS	83.7	%				

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

Surrogate Recovery was at  
Narrative:

N/A

% for this sample All QA/QC was acceptable.

DF = Dilution Factor Used

D.P.

7/14/94

CHAIN OF CUSTODY RECORD

Page \_\_\_\_\_ of \_\_\_\_\_

PROJECT NUMBER		PROJECT NAME		Pit Closure Project # 24324		CONTACT LABORATORY P. O. NUMBER			
SAMPLES (Signature)		DATE		7-5-84					
LAB ID	DATE	TIME	MATRIX	SAMPLE NUMBER	TOTAL NUMBER OF CONTAINERS	SAMPLE TYPE	REQUESTED ANALYSIS		
							TPH EPA 418.1		
							BTEX EPA 8020		
44	7-5-84	09:12	Soil	MK 78	1	UG	X	69	Soil Brown no Hydrocarbon odor
44	7-5-84	10:21	Soil	MK 79	1	UG	X	70	Soil Gray Slight Hydrocarbon odor
44	7-5-84	11:32	Soil	MK 80	1	UG	X	71	Soil Gray Strong Hydrocarbon odor
44	7-5-84	12:42	Soil	MK 81	1	UG	X	72	Soil Gray Strong Hydrocarbon odor
44	7-5-84	13:20	Soil	MK 82	1	UG	X	73	Soil Grayish Brown Slight Hydrocarbon odor
44	7-5-84	14:12	Soil	MK 83	1	UG	X	74	Soil Grayish Brown Slight Hydrocarbon odor
44	7-5-84	15:35	Soil	MK 84	1	UG	X	75	Soil Grayish Black Strong Hydrocarbon odor
44	7-5-84	16:38	Soil	MK 85	1	UG	X	76	Soil Black Slight Hydrocarbon odor
<div> <div>RELINQUISHED BY: (Signature)</div> <div>DATE/TIME 7-5-84 11:00</div> <div>RECEIVED BY: (Signature)</div> <div>DATE/TIME 7-5-84 09:50</div> <div>RELINQUISHED BY: (Signature)</div> <div>DATE/TIME</div> <div>RECEIVED BY: (Signature)</div> <div>DATE/TIME</div> </div>								<div> <div>REQUESTED TURNAROUND TIME:</div> <div>ROUTINE <input type="checkbox"/> RUSH <input type="checkbox"/></div> <div>CARRIER CO.</div> <div>BILL NO.:</div> </div>	
<div> <div>SAMPLE RECEIPT REMARKS</div> <div>RESULTS &amp; INVOICES TO:</div> </div>								<div> <div>FIELD SERVICES LABORATORY</div> <div>EL PASO NATURAL GAS COMPANY</div> <div>P.O. BOX 4990</div> <div>FARMINGTON, NEW MEXICO 87499</div> </div>	

RECORD OF SUBSURFACE EXPLORATION

PHILIP SERVICES CORP.  
1000 Monroe Road  
New Mexico 87401  
262 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 SAN JUAN ZB-S #75 75901

Elevation  
Borehole Location LTR: 9 S: 17 T: 28 R: 5  
GWL Depth NA  
Drilled By K. PADILLA  
Well Logged By H. BRADBURY  
Date Started 10/21/98  
Date Completed 10/21/98

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 5'						BZ=Breathing Zone BH=Borehole S/HS=Sample/Headspace
5										
10	1	10-11	24	LT BR SANDSTONE, FINE SAND, LOW CEMENTATION, dry			0	0	223 151	1133 hrs
15	2	15-16	6	LT GR-BR SANDSTONE, FINE SAND, LOW CEMENTATION, dry			0	12	216 93	1147 hrs
20	3	20-21	6	LT BR SANDSTONE, FINE SAND, LOW CEMENTATION, dry			0	17	167 47	1201 hrs
25				TOB 21						
30										
35										
40										

Comments: HAB 47 20-21" SENT to lab for TPH BTEX. GW NOT  
ENCOUNTERED BH grouted to surface  
Geologist Signature H. Bradbury

PROJECT MANAGER: John Lambdin  
COMPANY: El Paso Field Services  
ADDRESS: 770 West Navajo  
FARMINGTON, NM 87401  
PHONE: (505) 599-2144  
FAX: (505) 599-2261  
BILL TO: Above  
COMPANY:  
ADDRESS:

[illegible]

PROJECT INFORMATION		PRIOR AUTHORIZATION IS REQUIRED FOR RUSH PROJECTS				RELINQUISHED BY:		RELINQUISHED BY:	
PROJ. NO.:		(RUSH) <input type="checkbox"/> 24hr <input type="checkbox"/> 48hr <input type="checkbox"/> 72hr <input type="checkbox"/> 1 WEEK	(NORMAL) <input checked="" type="checkbox"/>		Signature:	Time:	Signature:	Time:	
PROJ. NAME:	Phase II Drilling	CERTIFICATION REQUIRED: <input type="checkbox"/> NM <input type="checkbox"/> SDWA <input type="checkbox"/> OTHER			Printed Name:	Date:	Printed Name:	Date:	
P.O. NO.:		METHANOL PRESERVATION <input type="checkbox"/>			Company:		Company:		
SHIPPED VIA:	Fed Ex	COMMENTS: FIXED FEE <input type="checkbox"/>							
SAMPLE RECEIPT						RECEIVED BY: 1.		RECEIVED BY: (LAB) 2.	
NO. CONTAINERS	1					Signature:	Time:	Signature:	Time:
CUSTODY SEALS	DN/NA					Printed Name:	Date:	Printed Name:	Date:
RECEIVED INTACT	YES					Company:		Company:	
BLUE ICE/IDE	YES								

# BTEX SOIL SAMPLE WORKSHEET

File	:	980751	Date Printed	:	10/27/98
Soil Mass (g)	:	5.05	Multiplier (L/g)	:	0.00099
Extraction vol. (mL)	:	10	CAL FACTOR (Analytical):	:	200
Shot Volume (uL)	:	50	CAL FACTOR (Report):	:	0.19802

	DILUTION FACTOR:	1	Det. Limit
Benzene (ug/L) : <0.5	Benzene (mg/Kg):	#VALUE!	0.495
Toluene (ug/L) : <0.5	Toluene (mg/Kg):	#VALUE!	0.495
Ethylbenzene (ug/L) : <0.5	Ethylbenzene (mg/Kg):	#VALUE!	0.495
p & m-xylene (ug/L) : <1.0	p & m-xylene (mg/Kg):	#VALUE!	0.990
o-xylene (ug/L) : <0.5	o-xylene (mg/Kg):	#VALUE!	0.495
	Total xylenes (mg/Kg):	#VALUE!	1.485
	Total BTEX (mg/Kg):	#VALUE!	



Phase II Drilling

CHAIN OF CUSTODY RECORD

12-2-98 Anal.  
12-2-98 Chem.  
12-2-98 Appn.

Page 1 of 1

PROJECT NUMBER		PROJECT NAME		REQUESTED ANALYSIS		CONTRACT LABORATORY P. O. NUMBER	
# 24324		Pit Closure Project					
SAMPLERS: (Signature)		DATE: 10/21/98		SEQUENCE #			
LAB ID	DATE	TIME	MATRIX	FIELD ID	TPH	LAB PID	REMARKS
980751	10/21/98	1201	SOIL	HAB 47	✓	✓	SAN JUAN 28-5# 75 75901 20-21
<b>HAB 10/21/98</b>							
<b>34°F</b>							
<b>COOL &amp; INTACT</b>							
REQUESTED TURNAROUND TIME: <input checked="" type="checkbox"/> ROUTINE <input type="checkbox"/> RUSH				RECEIVED BY: (Signature) <i>John Fender</i>			
CARRIER CO.				RECEIVED OF LABORATORY BY: (Signature) <i>John Fender</i>			
BILL NO.:				RESULTS & INVOICES TO:			
				FIELD SERVICES LABORATORY EL PASO NATURAL GAS COMPANY P. O. BOX 4990 FARMINGTON, NEW MEXICO 87499			
				505-599-2144 FAX: 505-599-2261			

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

**SAMPLE IDENTIFICATION**

	Field ID	Lab ID
SAMPLE NUMBER:	HAB47	980751
MTR CODE   SITE NAME:	75901	San Juan 28-5 #75
SAMPLE DATE   TIME (Hrs):	10/21/98	1201
PROJECT:	Phase II Drilling	
DATE OF TPH EXT.   ANAL.:	10/30/98	10/30/98
DATE OF BTEX EXT.   ANAL.:	10/26/98	10/26/98
TYPE   DESCRIPTION:	VG	SOIL

Field Remarks: 20-21'

**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)	166	MG/KG				
HEADSPACE PID	47	PPM				
PERCENT SOLIDS	95.9	%				

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

The Surrogate Recovery was at 107.5 % for this sample All QA/QC was acceptable.  
Narrative:

DF = Dilution Factor Used

Approved By:

*John Landa*

Date:

11/17/98



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.: 810097

SAMPLE		MATRIX	DATE	DATE	DATE	DIL.
ID. #	CLIENT I.D.		SAMPLED	EXTRACTED	ANALYZED	FACTOR
01	980754	NON-AQ	10/22/98	10/30/98	10/30/98	1
02	980753	NON-AQ	10/22/98	10/30/98	10/30/98	1
03	980751	NON-AQ	10/21/98	10/30/98	10/30/98	1

PARAMETER	DET. LIMIT	UNITS	01	02	03
FUEL HYDROCARBONS, C6-C10	10	MG/KG	< 10	< 10	16
FUEL HYDROCARBONS, C10-C22	5.0	MG/KG	< 5.0	< 5.0	150
FUEL HYDROCARBONS, C22-C36	5.0	MG/KG	< 5.0	< 5.0	< 5.0
CALCULATED SUM:					166.0

SURROGATE:

O-TERPHENYL (%)

SURROGATE LIMITS

( 66 - 151 )

126

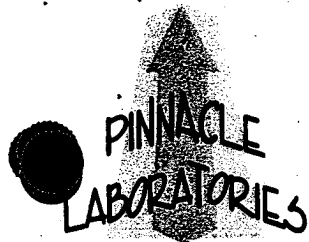
129

91

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.: 810097

SAMPLE		MATRIX	DATE	DATE	DATE	DIL.
ID. #	CLIENT I.D.		SAMPLED	EXTRACTED	ANALYZED	FACTOR
04	980752	NON-AQ	10/22/98	10/30/98	10/30/98	1
PARAMETER		DET. LIMIT	UNITS	04		
FUEL HYDROCARBONS, C6-C10		10	MG/KG	< 10		
FUEL HYDROCARBONS, C10-C22		5.0	MG/KG	< 5.0		
FUEL HYDROCARBONS, C22-C36		5.0	MG/KG	< 5.0		
CALCULATED SUM:						

#### SURROGATE:

TERPHENYL (%)  
SURROGATE LIMITS

( 66 - 151 )

114

#### CHEMIST NOTES:

N/A