

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

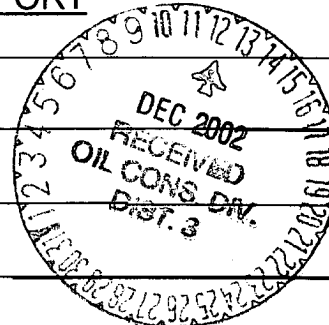
Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

*Risk
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: Conoco Telephone: _____

Address: 30-039-07209

Facility Or: San Juan 28-7 Unit 103(MV), Meter 72476
Well Name _____

Location: Unit or Qtr/Qtr Sec A Sec 3 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 44', width 31', depth 5'

(Attach diagram)

Reference: wellhead X, other _____

Footage from reference: 83'

Direction from reference: 103 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: 08/09/94 Date completed: 08/09/94

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, strong hydrocarbon odor. Pit had 6" of
water and oil in pits.

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 08/09/94 Sample time 11:25

Sample Results

Benzene(ppm) Not reported

Total BTEX(ppm) Not reported

Field headspace(ppm) 745

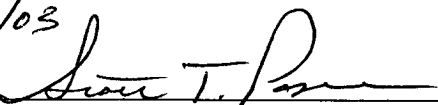
TPH 2970

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



Printed Name
and Title

Scott T. Pope
Senior Env. Scientist



PIT CLOSURE REQUEST

San Juan 28-7 Unit 103 (MV)
Meter/Line ID 72476

SITE DETAILS

Legals - Twn: 27N

Rng: 7W

Sec: 3

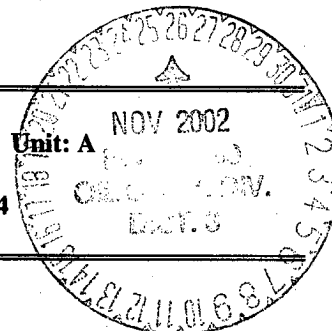
Unit: A

NMOCD Hazard Ranking: 10

Land Type: BLM

Operator: Conoco

Pit Closure Date: 8/09/94



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 at 12 ft bgs 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 745 ppm; laboratory analysis indicated a TPH concentration of 2,970 mg/kg. The headspace analysis and TPH measurement exceeded recommended remediation levels for the Hazard Ranking Score.

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 42 ft bgs. No groundwater was encountered in the soil boring. One laboratory sample was collected at 41-42 ft bgs. Headspace analysis indicated an organic vapor content of 177 ppm; laboratory analysis indicated a benzene concentration of <0.5 mg/kg, a total BTEX concentration of 2.44 mg/kg, and a TPH concentration of 78 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.
- 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 currently complete.
- Groundwater was not encountered in the soil boring at 42 ft bgs; local geologic features indicate the depth to groundwater is greater than 50 ft bgs.
- There are no water supply wells or other sources of fresh water extraction within 1,000 feet of the site.



PIT CLOSURE REQUEST

- Benzene, total BTEX and TPH concentrations in the soil sample collected at the base of the Phase II soil boring at 42 feet bgs were below recommended remediation levels for the Hazard Ranking Score.
- 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

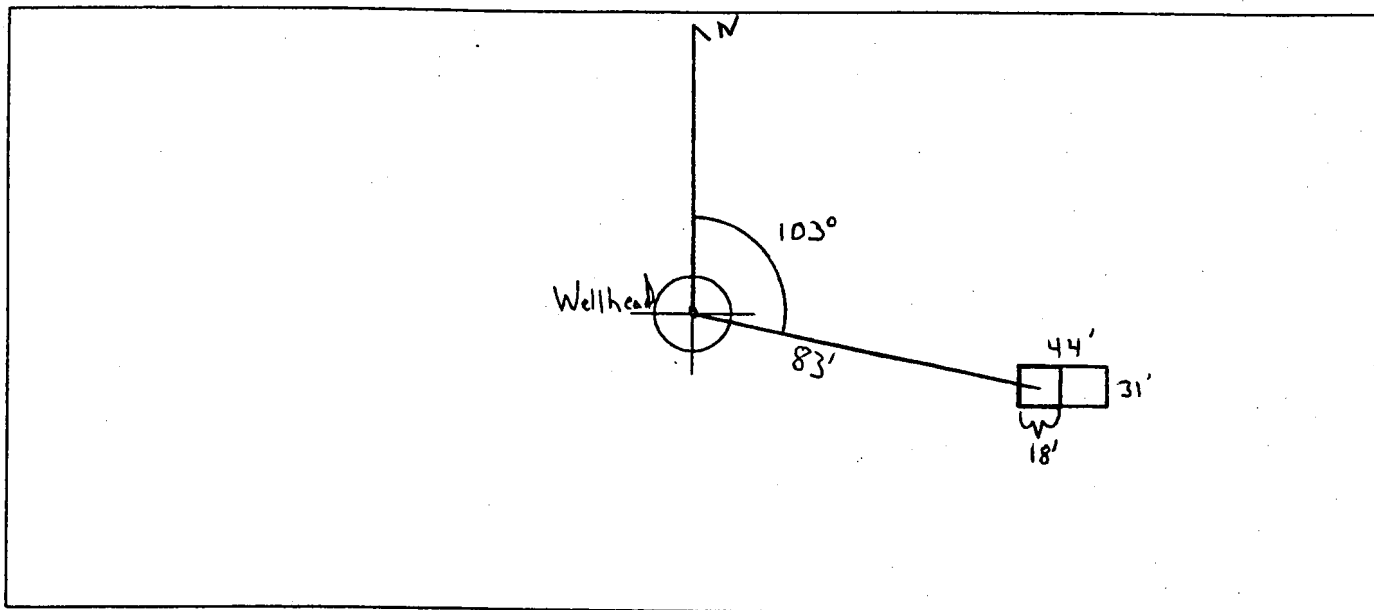
FIELD PIT SITE ASSESSMENT FORM

GENERAL	<p>Meter: <u>72476</u> Location: <u>San Juan 28-7 Unit 103 (MV)</u> Operator #: <u>0203</u> Operator Name: <u>Amoco</u> P/L District: <u>Blanco</u> Coordinates: Letter: <u>A</u> Section <u>3</u> Township: <u>27</u> Range: <u>7</u> Or Latitude <u> </u> Longitude <u> </u> Pit Type: Dehydrator <input checked="" type="checkbox"/> Location Drip: <u> </u> Line Drip: <u> </u> Other: <u> </u> Site Assessment Date: <u>6/3/94</u> Area: <u>03</u> Run: <u>21</u></p>
SITE ASSESSMENT	<p>NMOCD Zone: (From NMOCD Maps) Inside <input type="checkbox"/> (1) Outside <input checked="" type="checkbox"/> (2)</p> <p>Land Type: BLM <input checked="" type="checkbox"/> (1) State <input type="checkbox"/> (2) Fee <input type="checkbox"/> (3) Indian <u> </u></p> <p>Depth to Groundwater Less Than 50 Feet (20 points) <input checked="" type="checkbox"/> (1) 50 Ft to 99 Ft (10 points) <input type="checkbox"/> (2) Greater Than 100 Ft (0 points) <input type="checkbox"/> (3)</p> <p>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? <input type="checkbox"/> (1) YES (20 points) <input checked="" type="checkbox"/> (2) NO (0 points)</p> <p>Horizontal Distance to Surface Water Body Less Than 200 Ft (20 points) <input type="checkbox"/> (1) 200 Ft to 1000 Ft (10 points) <input checked="" type="checkbox"/> (2) Greater Than 1000 Ft (0 points) <input type="checkbox"/> (3)</p> <p>Name of Surface Water Body <u>Adolfo Carrizo Canyon Confluence</u> (Surface Water Body : Perennial Rivers, Major Wash, Streams, Creeks, Irrigation Canals, Ditches, Lakes, Ponds) Distance to Nearest Ephemeral Stream <input type="checkbox"/> (1) < 100' (Navajo Pits Only) <input type="checkbox"/> (2) > 100'</p> <p>TOTAL HAZARD RANKING SCORE: <u>30</u> POINTS</p>
REMARKS	<p>Remarks : <u>Redline Inside Vln. - Outside</u> <u>Spits will close 2 (1PC + 1MV). Pit has prod (5' x 10' x 2')</u></p> <p style="text-align: right;"><u>PUSH-IN</u></p>

ORIGINAL PIT LOCATION

ORIGINAL PIT LOCATION

Original Pit : a) Degrees from North 103° Footage from Wellhead 83'
b) Length : 44' Width : 31' Depth : 5'



REMARKS

Remarks :

Pictures @ 1221 (10-14)

Dump Truck

Bermed & Fenced area of pit is 44' x 31'. Actual pit is 31' x 18' x 5'

Completed By:

Cory Chase
Signature

6/3/94

Date

REVISED FIELD PIT SITE ASSESSMENT FORM

GENERAL

Meter: 72476 Location: San Juan 28-7 Unit 103 MV
 Operator #: _____ Operator Name: _____ P/L District: _____
 Coordinates: Letter: A Section 3 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
 Outside

Land Type:

☐ (1)
☒ (2)

BLM
 State
 Fee
 Indian

☒ (1)
☐ (2)
☐ (3)

Depth to Groundwater

Less Than 50 Feet (20 points)
 50 Ft to 99 Ft (10 points)
 Greater Than 100 Ft (0 points)

☐ (1)
☒ (2)
☐ (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)
 200 Ft to 1000 Ft (10 points)
 Greater Than 1000 Ft (0 points)

☐ (1)
☐ (2)
☒ (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 Carrizo Canyon



FIELD SERVICES LABORATORY
ANALYTICAL REPORT

PIT CLOSURE PROJECT - Soil Samples Outside the GWV Zone

SAMPLE IDENTIFICATION

	Field ID	Lab ID
SAMPLE NUMBER:	mw 240	945882
MTR CODE SITE NAME:	72476	N/A
SAMPLE DATE TIME (Hrs):	8-9-94	1125
SAMPLED BY:	N/A	
DATE OF TPH EXT. ANAL.:	8/11/94	8/11/94
DATE OF BTEX EXT. ANAL.:	N/A	N/A
TYPE DESCRIPTION:	VG	light gray sand & clay

REMARKS:

RESULTS

PARAMETER	RESULT	UNITS	QUALIFIERS			
			DF	Q	M(g)	V(ml)
TPH (418.1)	2970	MG/KG			2.03	28
HEADSPACE PID	745	PPM				
PERCENT SOLIDS	86.3	%				

-- TPH is by EPA Method 418.1 --

Narrative:

DF = Dilution Factor Used

Approved By:

Date:

9/2/94

FIELD PIT REMEDIATION/CLOSURE FORM

GENERAL

Meter: 72476 Location: SAN JUAN 28-7 Unit 103 (MU)

Coordinates: Letter: A Section 3 Township: 27 Range: 7

Or Latitude _____ Longitude _____

Date Started : 8-9-94 8/10/94 Run: 03 21

FIELD OBSERVATIONS

Sample Number(s): MK240

Sample Depth: 12' Feet

Final PID Reading 745

PID Reading Depth 12' 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: 8-9-94

Pit Closed By: BEI

REMARKS

Remarks : EPNE lines marked Soil has strong HYDROCARBON
odor pit had 6" of water & oil IN PITS

Signature of Specialist: Morgan Hillen



CHAIN OF CUSTODY RECORD

Page _____ of _____

PROJECT NUMBER		PROJECT NAME		PROJECT ANALYSIS		REQUESTED ANALYSIS		CONTACT LABORATORY P. O. NUMBER	
ANALYSTS: (Signature)		DATE		TPH EPA 418.1		BTX EPA 8020			
LAB ID	DATE	TIME	MATRIX	SAMPLE NUMBER	SAMPLE TYPE	TOTAL NUMBERS OF CONTAINERS		REMARKS	
2882	8-9-94	11:25	Soil	MK240	UG	1	X	216 Grey Soil strong Hydrocarbon odor	
2883	8-9-94	11:29	Soil	MK241	UG	1	X	217 Green Soil Slight Hydrocarbon odor	
2884	8-9-94	13:44	Soil	MK242	UG	1	X	218 Grey Soil Strong Hydrocarbon odor	
2885	8-9-94	15:43	Soil	MK243	UG	1	X	219 Grey Soil Strong Hydrocarbon odor	
[The following rows are crossed out with a large diagonal line.]									
RECEIVED BY: (Signature) DATE/TIME 3:48 RECEIVED BY: (Signature) DATE/TIME 8/10/94 09:45									
RECEIVED BY: (Signature) DATE/TIME 8-9-94 17:09 RECEIVED BY: (Signature) DATE/TIME									
REQUESTED TURNAROUND TIME: <input type="checkbox"/> ROUTINE <input type="checkbox"/> RUSH									
CARRIER CO.									
BILL NO.:									
CHARGE CODE									
SAMPLE RECEIPT REMARKS									
RESULTS & INVOICES TO:									

FIELD SERVICES LABORATORY
EL PASO NATURAL GAS COMPANY
P. O. BOX 4990
FARMINGTON, NEW MEXICO 87499

FAX: 505-599-2261

505-599-2144

RECORD OF SUBSURFACE EXPLORATION

PHILIP SERVICES CORP.

4000 ... Road
 Albuquerque, New Mexico 87401
 (505) ... 2262 FAX (505) 326-2388

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

Project Number 19643 Phase 1001.77
 Project Name EPFS PITS >10
 Project Location SAN JUAN 28-7 UNIT 103 72 476

Elevation _____
 Borehole Location LTR: A S: 3 T: 27 R: 7
 GWL Depth _____
 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										BZ=Breathing Zone BH=Borehole S/HS=Sample/Headspace
5										
10				EXCAVATION SAMPLE COLLECTED AT 12'						
15	1	15-17	24	LT BR SANDY CLAY. FINE SAND, low plasticity, soft, dry			0	86	$\frac{429}{597}$	1424 hrs
20	2	20-22	24	LT GR SANDY CLAY. FINE SAND, low plasticity, soft, dry			0	1	$\frac{275}{608}$	1430 hrs
25	3	25-27	24	LT GR SANDY CLAY. FINE SAND, low plastic, soft, dry			0	38	$\frac{574}{544}$	1441 hrs
30	4	30-32	16	LT GR SANDY CLAY. FINE SAND, low plasticity, soft, dry			0	5	$\frac{341}{486}$	1449 hrs
35	5	35-37	24	LT BR silty SAND. FINE SAND loose, dry			0	104	$\frac{394}{577}$	1501 hrs
40	6	40-42	24	LT GR SANDSTONE. FINE SAND, low cementation, dry			0	78	$\frac{332}{145}$	1519 hrs

Comments:

HAB70 (41-42) SENT TO LAB FOR TPH, BTEX GW NOT
 ENCOUNTERED. BH grouted to SURFACE

Geologist Signature

Holly Bradbury

RECORD OF SUBSURFACE EXPLORATION

PHILIP SERVICES CORP.

400 Monroe Road
Farmington, New Mexico 87401
(505) 226-2262 FAX (505) 326-2388

Borehole # BH-1
Well # NA
Page 2 of 2

Project Number 19643 Phase 1001.77
Project Name EPFS PITS >10
Project Location SAN JUAN 28-7 UNIT 103 72476

Elevation _____
Borehole Location LTR: A S: 3 T: 27 R: 7
GWL Depth _____
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 BZ BH S/HS			Drilling Conditions & Blow Counts
40				LT GR SANDSTONE FINE SAND low cementation dry						BZ=Breathing Zone BH=Borehole S/HS=Sample/Headspace
45	7			TOB 42'						422 1532 hrs 177
10										
15										
20										
25										
30										
35										
40										

Comments:

HAB70 41-42' SENT TO LAB FOR TPH, BTEX & W
NOT ENCOUNTERED, BH GROUTED TO SURFACE
AUGER REFUSED AT 41'

Geologist Signature

Holly Bradbury



FIELD SERVICES LABORATORY
ANALYTICAL REPORT
PIT CLOSURE PROJECT

SAMPLE IDENTIFICATION

	Field ID	Lab ID
SAMPLE NUMBER:	HAB70	980819
MTR CODE SITE NAME:	72476	San Juan 28-7 #103 MV
SAMPLE DATE TIME (Hrs):	11/16/98	1532
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: 41-42'

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	1.22	MG/KG				
TOTAL BTEX	2.44	MG/KG				
TPH (MOD.8015)	78	MG/KG				
HEADSPACE PID	177	PPM				
PERCENT SOLIDS	91.3	%				

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

The Surrogate Recovery was at 97.0 % for this sample All QA/QC was acceptable.
ative:

DF = Dilution Factor Used

Approved By:

John Loecher

Date:

12/21/98



FIELD SERVICES LABORATORY
ANALYTICAL REPORT
PIT CLOSURE PROJECT

SAMPLE IDENTIFICATION

	Field ID	Lab ID
SAMPLE NUMBER:	HAB71	980820
MTR CODE SITE NAME:	72476	San Juan 28-7 #103 MV
SAMPLE DATE TIME (Hrs):	11/16/98	1532
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: Duplicate

RESULTS

PARAMETER	RESULT	UNITS	QUALIFIERS			
			DF	Q	M(g)	V(ml)
BENZENE	0.86	MG/KG				
TOLUENE	3.10	MG/KG				
ETHYL BENZENE	5.16	MG/KG				
TOTAL XYLENES	50.0	MG/KG				
TOTAL BTEX	99.9	MG/KG				
TPH (MOD.8015)	410	MG/KG				
HEADSPACE PID	177	PPM				
PERCENT SOLIDS	87.7	%				

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

The Surrogate Recovery was at 100.0 % for this sample All QA/QC was acceptable.
ative:

DF = Dilution Factor Used

Approved By: John Larkin

Date: 12/21/98



FIELD SERVICES LABORATORY
ANALYTICAL REPORT
PIT CLOSURE PROJECT

SAMPLE IDENTIFICATION

	Field ID	Lab ID
SAMPLE NUMBER:	HAB72	980821
MTR CODE SITE NAME:	72476	San Juan 28-7 #103 MV
SAMPLE DATE TIME (Hrs):	11/16/98	1409
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: Trip Blank

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	NA	PPM				
PERCENT SOLIDS	84.5	%				

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

The Surrogate Recovery was at 98.0 % for this sample All QA/QC was acceptable.
ative:

DF = Dilution Factor Used

Approved By:

John J. [Signature]

Date:

12/24/98

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

**PINNACLE
 LABORATORIES**

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		MATRIX	DATE	DATE	DATE	DIL.
ID. #	CLIENT I.D.		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
CALCULATED 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
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		MATRIX	DATE	DATE	DATE	DIL.
ID. #	CLIENT I.D.		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 (%)
SURROGATE LIMITS (66 - 151)

87 90 84

CHEMIST NOTES:
N/A

BTEX SOIL SAMPLE WORKSHEET

File : 980819
Soil Mass (g) : 5.04
Extraction vol. (mL) : 10
Shot Volume (uL) : 50

Date Printed : 11/23/98
Multiplier (L/g) : 0.00099
CAL FACTOR (Analytical): 200
CAL FACTOR (Report): 0.19841

Benzene (ug/L) : <0.5
Toluene (ug/L) : <0.5
Ethylbenzene (ug/L) : <0.5
p & m-xylene (ug/L) : 5.62
o-xylene (ug/L) : 0.52

DILUTION FACTOR: 1		Det. Limit
Benzene (mg/Kg):	#VALUE!	0.496
Toluene (mg/Kg):	#VALUE!	0.496
Ethylbenzene (mg/Kg):	#VALUE!	0.496
p & m-xylene (mg/Kg):	1.115	0.992
o-xylene (mg/Kg):	0.104	0.496
Total xylenes (mg/Kg):	1.219	1.488
Total BTEX (mg/Kg):	2.437	

BTEX SOIL SAMPLE WORKSHEET

File	:	980820	Date Printed	:	11/23/98
Soil Mass (g)	:	5.03	Multiplier (L/g)	:	0.00099
Extraction vol. (mL)	:	10	CAL FACTOR (Analytical)	:	200
Shot Volume (uL)	:	50	CAL FACTOR (Report)	:	0.19881

		DILUTION FACTOR:	1	Det. Limit
Benzene (ug/L)	:	4.31	Benzene (mg/Kg):	0.856 0.497
Toluene (ug/L)	:	15.6	Toluene (mg/Kg):	3.102 0.497
Ethylbenzene (ug/L)	:	25.9	Ethylbenzene (mg/Kg):	5.155 0.497
p & m-xylene (ug/L)	:	171	p & m-xylene (mg/Kg):	34.085 0.994
o-xylene (ug/L)	:	79.9	o-xylene (mg/Kg):	15.880 0.497
			Total xylenes (mg/Kg):	49.965 1.491
			Total BTEX (mg/Kg):	99.930

BTEX SOIL SAMPLE WORKSHEET

File	:	980821	Date Printed	:	11/23/98
Soil Mass (g)	:	5.32	Multiplier (L/g)	:	0.00094
Extraction vol. (mL)	:	10	CAL FACTOR (Analytical)	:	200
Shot Volume (uL)	:	50	CAL FACTOR (Report)	:	0.18797

	DILUTION FACTOR:	1	Det. Limit
Benzene (ug/L) : <0.5	Benzene (mg/Kg):	#VALUE!	0.470
Toluene (ug/L) : <0.5	Toluene (mg/Kg):	#VALUE!	0.470
Ethylbenzene (ug/L) : <0.5	Ethylbenzene (mg/Kg):	#VALUE!	0.470
p & m-xylene (ug/L) : <1.0	p & m-xylene (mg/Kg):	#VALUE!	0.940
o-xylene (ug/L) : <0.5	o-xylene (mg/Kg):	#VALUE!	0.470
	Total xylenes (mg/Kg):	#VALUE!	1.410
	Total BTEX (mg/Kg):	#VALUE!	



CHAIN OF CUSTODY RECORD

Anal.
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White - Testing Laboratory **Canary - EPNG Lab** **Pink - Field Sampler**