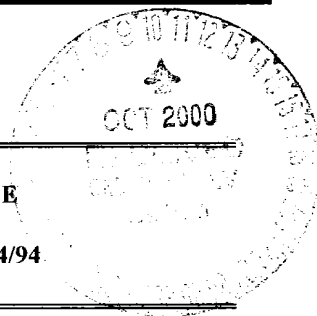


EL PASO FIELD SERVICES PRODUCTION PIT CLOSURE

Inside RISK
BTEX-TPH

San Juan 28-7 Unit 134E
Meter/Line ID – 94221



SITE DETAILS

Legals - Twn: 28N	Rng: 7W	Sec: 21	Unit: E
NMOCD Hazard Ranking: 40		Land Type: BLM	
Operator: Amoco		Pit Closure Date: 06/14/94	

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 Phase I excavation was conducted on June 14, 1994, to 12 feet below ground surface and a soil sample was collected for field headspace analysis and laboratory analysis for benzene, total BTEX, and TPH. Groundwater was not encountered in the test pit. Approximately 140 cubic yards of excavated material was removed for landfarming and sent to an OCD approved centralized site. The pit was backfilled and graded in a manner to direct surface runoff away from the pit area. Headspace analysis indicated an organic vapor content of 327 ppm; laboratory analysis indicated a benzene concentration of 1.9 mg/kg, a total BTEX concentration of 542 mg/kg, and a TPH concentration of 4740 mg/kg. TPH and total BTEX were above required remediation levels for the Hazard Ranking Score.

On September 7, 1995, a Phase II borehole was conducted to 35 feet below ground surface where bedrock was encountered with auger refusal. Groundwater was not encountered in the borehole. The borehole was grouted to the surface in a manner to direct surface runoff away from the pit area.

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

- The primary source, discharge to the pit, has been removed for six years.
- The pit was backfilled and the former pit area graded to direct surface runoff away from the former pit.
- Groundwater was not encountered in the excavations or borehole.
- Bedrock was encountered at 35 feet below ground surface; consequently, impact to groundwater is unlikely.
- Residual hydrocarbons in the soil will degrade naturally with minimal risk to the environment.
- Excavated material has been removed from the pit eliminating potential direct contact with livestock and the public.
- There are no water supply wells or other sources of fresh water extraction within 1,000 feet of the site.
- The pit was excavated to the practical extent of the equipment, according to EPNG's pit closure plan.

FIELD PIT SITE ASSESSMENT FORM

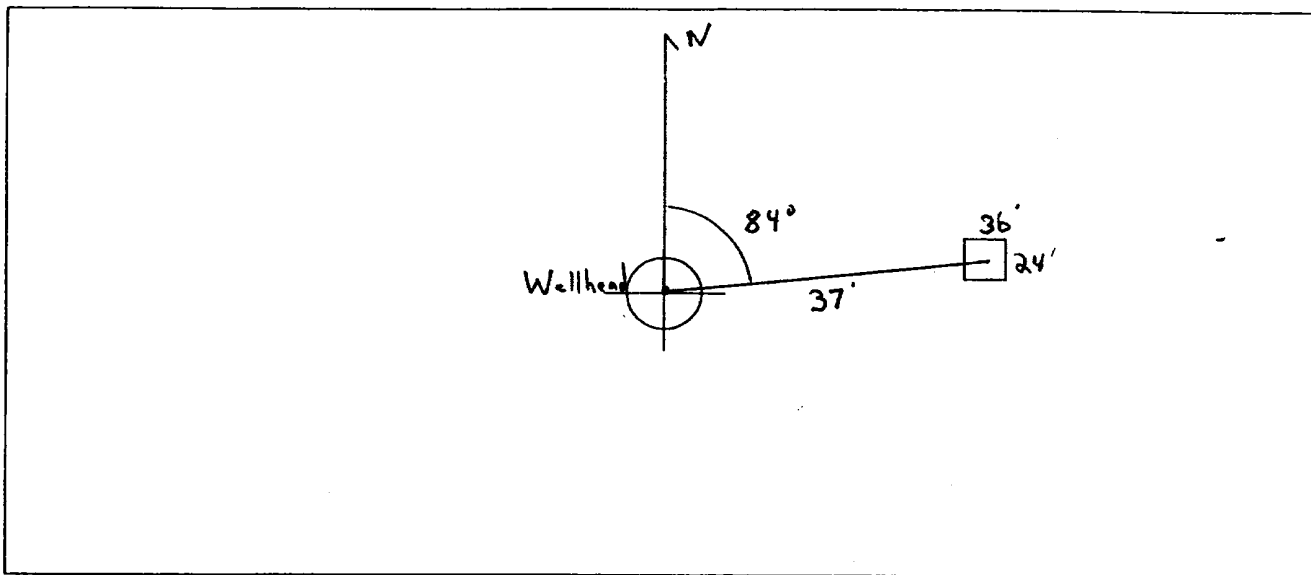
GENERAL	<p>Meter: <u>94221</u> Location: <u>San Juan 28-7 Unit 134E</u></p> <p>Operator #: <u>0203</u> Operator Name: <u>Amoco</u> P/L District: <u>Blanco</u></p> <p>Coordinates: Letter: <u>E</u> Section <u>21</u> Township: <u>28</u> Range: <u>7</u></p> <p>Or Latitude _____ Longitude _____</p> <p>Pit Type: Dehydrator <input checked="" type="checkbox"/> Location Drip: _____ Line Drip: _____ Other: _____</p> <p>Site Assessment Date: <u>6/2/94</u> Area: <u>03</u> Run: <u>41</u></p>
SITE ASSESSMENT	<p>NMOCD Zone: (From NMOCD Maps)</p> <p>Inside <input checked="" type="checkbox"/> (1) Outside <input type="checkbox"/> (2)</p> <p>Land Type: BLM <input checked="" type="checkbox"/> (1) State <input type="checkbox"/> (2) Fee <input type="checkbox"/> (3) Indian _____</p> <p>Depth to Groundwater</p> <p>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</p> <p>Less Than 200 Ft (20 points) <input checked="" type="checkbox"/> (1) 200 Ft to 1000 Ft (10 points) <input type="checkbox"/> (2) Greater Than 1000 Ft (0 points) <input type="checkbox"/> (3)</p> <p>Name of Surface Water Body <u>Delgadita Canyon (off Carrizo)</u> (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) <input type="checkbox"/> (2) > 100'</p> <p>TOTAL HAZARD RANKING SCORE: <u>40</u> POINTS</p>
REMARKS	<p>Remarks : <u>Redline + Vuln = Inside</u> <u>Spills Will close Pit Dry</u></p>

016-244011

ORIGINAL PIT LOCATION

ORIGINAL PIT LOCATION

Original Pit : a) Degrees from North 84° Footage from Wellhead 37'
b) Length : 36' Width : 24' Depth : 5'



REMARKS

Remarks :

Pictures @ 1506 (22-25)
Dump Truck

Completed By:

Cory Chene

Signature

6/2/94

Date

FIELD PIT REMEDIATION/CLOSURE FORM

GENERAL	<p>Meter: <u>94221</u> Location: <u>SAN JUAN 28-7 UNIT 134E</u></p> <p>Coordinates: Letter: <u>E</u> Section <u>21</u> Township: <u>28</u> Range: <u>7</u></p> <p>Or Latitude _____ Longitude _____</p> <p>Date Started : <u>6-14-94</u> Area: <u>03</u> Run: <u>41</u></p>
FIELD OBSERVATIONS	<p>Sample Number(s): <u>KP#102</u></p> <p>Sample Depth: <u>12'</u> Feet</p> <p>Final PID Reading <u>327</u> PID Reading Depth <u>12'</u> Feet</p> <p style="text-align: center;">Yes No</p> <p>Groundwater Encountered <input type="checkbox"/> (1) <input checked="" type="checkbox"/> (2) Approximate Depth _____ Feet</p>
CLOSURE	<p>Remediation Method :</p> <p>Excavation <input checked="" type="checkbox"/> (1) Approx. Cubic Yards <u>140</u></p> <p>Onsite Bioremediation <input type="checkbox"/> (2)</p> <p>Backfill Pit Without Excavation <input type="checkbox"/> (3)</p> <p>Soil Disposition:</p> <p>Envirotech <input type="checkbox"/> (1) <input checked="" type="checkbox"/> (3) Tierra</p> <p>Other Facility <input type="checkbox"/> (2) Name: _____</p> <p>Pit Closure Date: <u>6-14-94</u> Pit Closed By: <u>B.E.I</u></p>
REMARKS	<p>Remarks : <u>Some Line markers Started Remediating to 12'</u></p> <p><u>Soil Turned Black smells Bad. it is A Real Big Pit, Soil</u></p> <p><u>Still Real BLACK. At 12' Soil Still Same.</u></p>
	<p>Signature of Specialist: <u>Kelly Padilla</u></p>



FIELD SERVICES LABORATORY

ANALYTICAL REPORT

PIT CLOSURE PROJECT - Soil

SAMPLE IDENTIFICATION

	Field ID	Lab ID
SAMPLE NUMBER:	KP102	945446
MTR CODE SITE NAME:	94221	N/A
SAMPLE DATE TIME (Hrs):	6-14-94	1521
SAMPLED BY:	N/A	
DATE OF TPH EXT. ANAL.:	6/16/94	6/16/94
DATE OF BTEX EXT. ANAL.:	6/17/94	6/20/94
TYPE DESCRIPTION:	VC	Black Coarse sand

REMARKS:

RESULTS

PARAMETER	RESULT	UNITS	QUALIFIERS			
			DF	Q	M(g)	V(ml)
BENZENE	1.9	MG/KG	20			
TOLUENE	130	MG/KG	20			
ETHYL BENZENE	20	MG/KG	20			
TOTAL XYLENES	390	MG/KG	20			
TOTAL BTEX	542	MG/KG				
TPH (418.1)	4740	MG/KG			1.04	28
HEADSPACE PID	327	PPM				
PERCENT SOLIDS	88.5	%				

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

The Surrogate Recovery was at 145 % for this sample All QA/QC was acceptable.

Narrative:

ATI results attached. Surrogate recovery was outside ATI QC limits due to matrix interference.

DF = Dilution Factor Used

7/17/01



GAS CHROMATOGRAPHY RESULTS

TEST : BTEX (EPA 8020)
CLIENT : EL PASO NATURAL GAS CO. ATI I.D.: 406367
PROJECT # : 24324
PROJECT NAME : PIT CLOSURE

SAMPLE ID. #	CLIENT I.D.	MATRIX	DATE SAMPLED	DATE EXTRACTED	DATE ANALYZED	DIL. FACTOR
07	945446	NON-AQ	06/14/94	06/17/94	06/20/94	20
08	945453	NON-AQ	06/15/94	06/17/94	06/20/94	1
09	945454	NON-AQ	06/15/94	06/17/94	06/20/94	1

PARAMETER	UNITS	07	08	09
BENZENE	MG/KG	1.9	<0.025	<0.025
TOLUENE	MG/KG	130	<0.025	<0.025
THYLBENZENE	MG/KG	20	<0.025	0.063
TOTAL XYLENES	MG/KG	390	0.046	1.1

SURROGATE:

BROMOFLUOROBENZENE (%) 145* 95 147*

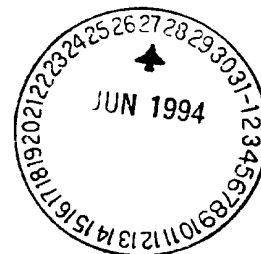
*OUTSIDE ATI QUALITY CONTROL LIMITS DUE TO MATRIX INTERFERENCE



Analytical **Technologies**, Inc.

2709-D Pan American Freeway, NE Albuquerque, NM 87107
Phone (505) 344-3777 FAX (505) 344-4413

ATI I.D. 406367



June 24, 1994

El Paso Natural Gas Company
P.O. Box 4990
Farmington, NM 87499

Project Name/Number: PIT CLOSURE 24324

Attention: John Lambdin

On 06/17/94, Analytical Technologies, Inc., (ADHS License No. AZ0015), received a request to analyze **non-aqueous** samples. The samples were analyzed with EPA methodology or equivalent methods. The results of these analyses and the quality control data, which follow each set of analyses, are enclosed.

If you have any questions or comments, please do not hesitate to contact us at (505) 344-3777.

Letitia Krakowski, Ph.D.
Project Manager

H. Mitchell Rubenstein, Ph.D.
Laboratory Manager

MR:jld

Enclosure



Page _____ of _____

94

RECORD OF SUBSURFACE EXPLORATION

Burlington Environmental Inc.
4000 Monroe Road
Farmington, New Mexico 87401
(505) 326-2262 FAX (505) 326-2388

Borehole # BH-1
Well #
Page 1 of 1

Project Name EPNG PITS
Project Number 14509 Phase 6000.77
Project Location San Juan 28-7 Unit 134E 94221

Elevation
Borehole Location QE-S21-T28-R7
GWL Depth
Logged By Phillip Moss
Drilled By K. Padilla
Date/Time Started 9-7-95 / 09:38
Date/Time Completed 9-7-95 / 10:40

Well Logged By Phillip Moss
Personnel On-Site K. Padilla, E. Rivera, D. Chalker, P. Moss
Contractors On-Site
Client Personnel On-Site

Drilling Method 4 1/4 I.D. HSA
Air Monitoring Method PID, CGI

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	
0				Backfill to 12'.						
5										
10										
15	1	15-17'	SS 11"	clayey SAND, f.g., very loose, black, strong hydrocarbon odor, moist	SC		0	8.1	$\frac{457}{194}$	09:47
20	2	20-22'	SS 6"	SAND, f.g., ve loose, grayish green, strong hydrocarbon odor, moist	SP		0	24	$\frac{374}{324}$	09:51
25	3	25-27'	SS 12"	RA			0	111	$\frac{402}{198}$	09:55
30	4	30-32'	SS 8"				302	256	$\frac{417}{343}$	10:05
35	5	35-37'	SS	Sandstone, f.g., poorly-sorted, massive, black, strong hydrocarbon odor 35' Auger and split spoon Refusal - TO		140	570	NA		10:23
40										

Comments:

NO sample submitted: sandstone discolored (black, high PID readings, and strong hydrocarbon odor). Auger refusal at 35'. BH grouted to the surface.

Geologist Signature

Phillip L. Moss