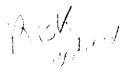
## EL PASO FIELD SERVICES PRODUCTION PIT CLOSURE



#### Ludwick Well No. A-1 Meter/Line ID - 75388

#### SITE DETAILS

Legals - Twn: 30N

Operator: Amoco

Rng: 10W

Sec: 19

Unit: M

NMOCD Hazard Ranking: 40

Land Type: BLM

Pit Closure Date: 09/13/94

#### 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 September 13, 1994, to 3 feet below ground surface where bedrock was encountered 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 pit. Approximately 10 cubic yards of 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 650 ppm; laboratory analysis indicated a benzene concentration of 9.6 mg/kg, a total BTEX concentration of 683 mg/kg, and a TPH concentration of 6750 mg/kg. TPH and BTEX were above required remediation levels for the Hazard Ranking Score.

On July 31, 1995, a Phase II borehole was conducted to 16.5 feet below ground surface where bedrock was encountered. 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 almost 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 excavation or the borehole.
- Residual hydrocarbons in the soil will degrade naturally with minimal risk to the environment.
- Bedrock was encountered at 16.5 feet below ground surface; consequently, impact to groundwater is unlikely.
- 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 site.

## <u>ATTACHMENT</u>

Field Pit Assessment Form

Phase II Geologic Log

## FIELD PIT SITE ASSESSMENT FORM

GENERAL	Meter: 75-388 Location: Ladwick Well No. 19-1 Operator #: 0203 Operator Name: Production P/L District: 12tec Coordinates: Letter: 19 Section 19 Township: 30 Range: 10 Or Latitude Longitude Pit Type: Dehydrator Location Drip: X Line Drip: Other: Site Assessment Date: 8/15/94 Area: 04 Run: 21
SITE ASSESSMENT	NMOCD Zone:  (From NMOCD  Maps)  Inside  Outside  (2)  Indian  Depth to Groundwater  Less Than 50 Feet (20 points)  Greater Than 100 Ft (0 points)  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?  Horizontal Distance to Surface Water Body  Less Than 200 Ft (20 points)  Horizontal Distance to Surface Water Body  Less Than 200 Ft (10 points)  (1)  200 Ft to 1000 Ft (10 points)  (2)  Greater Than 1000 Ft (0 points)  (3)  Name of Surface Water Body  Careter 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
REMARA	Remarks: Realine Book-Inside Vulnerable Zone Topo-Inside Six pits, location drip pit is dry, will close one pit.  DIG-9 HAUL

## FIELD PIT REMEDIATION/CLOSURE FORM

GENERAL	Meter: 75388 Location: Ludwick well # A-1  Coordinates: Letter: M Section 19 Township: 30 Range: 10  Or Latitude Longitude  Date Started: 9/13/94 Run: 04 21
FIELD OBSERVATIONS	Sample Number(s): KD 254  Sample Depth: 3' Feet  Final PID Reading 650 ppm PID Reading Depth 3' Feet  Yes No  Groundwater Encountered Approximate Depth Feet
CLOSURE	Other Facility Name:
REMARKS	Remarks: Excavation pit to 3', Hit Sandstone Layer, Took  piD Sample, Closed pit  Signature of Specialist: Angles  (SP3191) 03/16/9



# FIELD SERVICES LABORATORY ANALYTICAL REPORT

## PIT CLOSURE PROJECT - Soil Samples Inside the GWV Zone

## SAMPLE IDENTIFICATION

						-
	Field I	D		Lab ID	<del></del>	
SAMPLE NUMBER:	KD 25.	J	946	113		
MTR CODE   SITE NAME:	75 3 <b>8 9</b>	3				
SAMPLE DATE   TIME (Hrs):	9-13-94		10-	4/5		
SAMPLED BY:		N.	/A			
DATE OF TPH EXT.   ANAL.:	3-15-9	ý	9-15			
DATE OF BTEX EXT.   ANAL.:	9-19-9		9-19-			
TYPE   DESCRIPTION:	V Ç		Frown /Gre	ly Sand (	1 Ckry	
REMARKS:	F	RESULTS				
		LIMITO		QUALIFI	ERS	
PARAMETER	RESULT	UNITS	DF	Q	M(g)	V(ml)
BENZENE	6.4	MG/KG_	200			
TOLUENE	230	MG/KG_	Digeriy	D(50)		
ETHYL BENZENE	35	MG/KG	20	[/ 		
TOTAL XYLENES	4,0	MG/KG	20			
TOTAL BTEX	ψ83.	MG/KG				
TPH (418.1)	6750	MG/KG			1.55	28
HEADSPACE PID	650	PPM				
PERCENT SOLIDS	90.2	%				
The Surrogate Recovery was at		_% for this same	ole All QA/QC	was accep		ł
Narrative: ATI Results attach	10: DISO	= Dilule	à scx a	naly-red	9/21)9	1 1
DF - Dilution Factor Used				/ /		
Approved By:			Date:	(4)3/	44	



## GAS CHROMATOGRAPHY RESULTS

TEST : BTEX (EPA 8020)

CLIENT : EL PASO NATURAL GAS CO. ATI I.D.: 409367

PROJECT # : 24324

PROJECT NAME : PIT CLOSURE

PROJE	CI NWIT . I I I	CDODOILE				
SAMPL ID. #		MATRIX	DATE SAMPLED	DATE EXTRACTED	DATE ANALYZED	DIL. FACTOR
04	946111	NON-AQ	09/13/94	09/19/94	09/19/94	10
05	946112	NON-AQ	09/13/94	09/19/94	09/19/94	20
06	946113	QA-NON	09/13/94	09/19/94	09/19/94	20
PARAM			UNITS	04	05	06
BENZE			MG/KG	<0.25	<0.5	9.6
JLUE			MG/KG	1.3	5.0	230 D(50)
	BENZENE		MG/KG	2.7	15	33
	XYLENES		, MG/KG	55	280	410
	GATE:	(%)		91	. 168*	113
DICONO	I Looked Live Live	` '				

\*OUTSIDE ATI QUALITY CONTROL LIMITS DUE TO MATRIX INTERFERENCE D(50) = DILUTED 50X, ANALYZED 09/21/94



ATI I.D. 409367

September 22, 1994

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

Project Name/Number: PIT CLOSURE 24324

Attention: John Lambdin

On **09/16/94**, 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

MR:jt

Enclosure



CHAIN OF CUSTODY RECORD

9

Page

PROJECT NUMBER	PROJECT NAME				-	-		REQUESTE	REQUESTED ANALYSIS	S	CONTRACT	CONTRACT LABORATORY P. O. NUMBER	
# 24324	Pit Closure Project	e Proje	ct	,	883 883					t			
SAMPLERS: (Signature)	4	1	DATE: 9	1/3/2/	MUN J.	AMPLE TYPE H				ENCE			
LABID	DATE TIME	<u>₹</u>		FIELD ID	ATOT 00 40		4T 443 1T8 8 A43	E A 4 3		# RECON	#	REMARKS	
41.112	3/3/4/0913	3 50:1		5 253	_	VC	×			229	6.		
	1/3/gy 1045 Soi 1	8.	1	450	1	( )	×			2	082		
94(.11	1/3/03/1350 50,1	50 56,		55		2	×	×		2	182		
01، را د	9/13/94 1515	5/50:1	1 KD 256	56		Ş	×			2	222		
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RELINGUERIED BY: (.	(Signatura)		DATE/TIME	RECEIVED BY: (Signature)	gnature)		æ	LINQUISHE	RELINOUISHED BY: (Signature)	re)		DATECTIME RECEIVED OF LABORATORY BY: (Signature)	Bitrie)
							$\dashv$						
REQUESTED TURNAROUND TIME:	INAROUND TIME:			SAMPLE RECEIPT REMARKS	REMARKS	_				RESULT	RESULTS & INVOICES TO:	FIELD SERVICES LABORATORY EL PASO NATURAL GAS COMPAN	<u>&gt;</u>
CAMPIEN CO.											<b>0.</b> 0	P. O. BOX 4990 EABMINGTON NEW MEXICO 87499	o.
BILL NO.:				CHARGE CODE						505-599-2144		FAX: 505-599-2261	

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

FM-08-0565 A (Rev 05-9

## RECORD OF SUBSURFACE EXPLORATION

Philip Environmental Services Corp.

4000 Monroe Road

Farmington, New Mexico 87401 (606) 326-2262 FAX (606) 326-2388

Elevation
Borehole Location 730, R10, 5.19, M

GWL Depth
Logged By
Drilled By
Date/Time Started
Date/Time Completed
7/31/95, 0650

Borehole # BH-1
Well # of of

Project Name EPNG Pits

Project Number 14509 Phase 501 6000

Project Location Landwick Well Mo. H-1, 75-388

Well Logged By
Personnel On-Site
Contractors On-Site
Client Personnel On-Site

Drilling Method 4/4/1 Th HSVA

Air Monitoring Method CG1, PID

Depth (Feet)	Sample Number	Sample	Sample Type & Recovery	Sample Description Classification System: USCS	USCS Symbol	Depth Lithology Change	Air Moni Units:	toring NDUS/H	Drilling Conditions  & Blow Counts
(reet)	HORNOGE	III CI VAL	(inches)			(feet)	ви вн	االاِنه	
				Backfill 3!					
5									slowdrilling, like rock.
10	1	10-	W/00	SAND, olive brown, fine to med. sand, dense, demp.				53 107	0930
15	Z	15- 16.5	6/5					53 6AZ	0945
20				BOH-16.5'					
25				·					
30				·					·
				·,					

Comments:

No sample taken due to high headspace readings at refusal. Refusal at 16.5 of split spoon, 15.0 of augers.
BH grouted to surface.

Geologist Signature