EL PASO FIELD SERVICES PRODUCTION PIT CLOSURE



Stewart LS 4 Meter/Line ID – 71375

SITE DETAILS

Legals - Twn: 30N

Rng: 10W

Sec: 28

Unit: K

NMOCD Hazard Ranking: 10

Land Type: BLM

Operator: Amoco

Pit Closure Date: 05/12/94

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 May 12, 1994, to 4 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 30 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 663 ppm; laboratory analysis indicated a benzene concentration of 2.6 mg/kg, a total BTEX concentration of 149 mg/kg, and a TPH concentration of 298 mg/kg.

On June 22, 1995, a Phase II borehole was conducted to 15.5 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 over 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 15.5 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.
- Based on the Hazard Ranking Score, benzene and TPH were below required remediation levels.

FIELD PIT SITE ASSESSMENT FORM

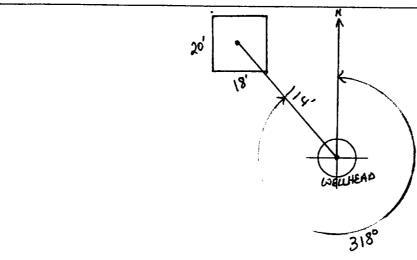
GENERAL	Meter: 71375 Location:STEWART LS #4 Operator #: 0203							
	NMOCD Zone: Land Type: Div M (1)							
İ	(From NMOCD							
	State (2)							
	Maps) Inside \boxtimes (1) Fee \square (3)							
	Outside (2) Indian							
Ì	Depth to Groundwater							
Í	Less Than 50 Feet (20 points) (1)							
	50 Ft to 99 Ft (10 points) \square (2)							
1	Greater Than 100 Ft (0 points) (3)							
	Wellhead Protection Area:							
Z	ls it less than 1000 ft from wells, springs, or other sources of							
ME	fresh water extraction?, or; Is it less than 200 ft from a private							
ASSESSMENT	domestic water source? (1) YES (20 points) (2) NO (0 points)							
SS	1							
	Horizontal Distance to Surface Water Body							
SITE	Less Than 200 Ft (20 points) (1) 200 Ft to 1000 Ft (10 points) (2)							
\mathbf{S}	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)							
	$\square (2) > 100'$							
	TOTAL HAZADD DANIZDIG GGODD							
	TOTAL HAZARD RANKING SCORE: POINTS							
تہ	Remarks: THREE PITS ON LOCATION. WILL CLOSE ONLY ONE. PIT IS DRY. REDLINE							
(A)	AND TOPO CONFIRMED LOCATION IS INSIDE THE V.Z.							
REMAR								
"	DIG 4 HAUL							

ORIGINAL PIT LOCATION	Or
REMARKS	Re ΣΔ.

ORIGINAL PIT LOCATION

Original Pit : a) Degrees from North 318° Footage from Wellhead 119'

b) Length : <u>20'</u> Width : <u>18'</u> Depth : <u>2'</u>



Remar	ks	:
remar	NO.	•

TOOK PICTURES AT 11:14 A.M.

ENO DUMP

Completed By:

Signature

5.3.94

Date-

FIELD PIT REMEDIATION/CLOSURE FORM

GENERAL	Meter: 71375 Location: Stewart LS #4 Coordinates: Letter: K Section 28 Township: 30 Range: 10 Or Latitude Longitude Date Started: 5-12-94 Area: 10 Run: 73
L OBSERVATIONS	Sample Number(s): KD54 Sample Depth: 4 Feet Final PID Reading 663 ppm PID Reading Depth 4 Feet Yes No Groundwater Encountered (1) (2) Approximate Depth Feet
URE	Remediation Method: Excavation Onsite Bioremediation Backfill Pit Without Excavation Soil Disposition: Envirotech [2] (1) Approx. Cubic Yards [3] (2) (3) Tierra
20 (Other Facility (2) Name: Pit Closure Date: 5-12-94 Pit Closed By: BET Remarks: Hit Syndsone At 4' At this Depth PiD Sample WAS taken, Closed Pit
-	M. A.



FIELD SERVICES LABORATORY ANALYTICAL REPORT PIT CLOSURE PROJECT - Soil

SAMPLE IDENTIFICATION

1	Field ID	Lab ID
SAMPLE NUMBER:	KD54	945151
MTR CODE SITE NAME:	474 71375	<i>⊳</i> /A
SAMPLE DATE TIME (Hrs):	5-12-94	1200
SAMPLED BY:	r.	PIA
DATE OF TPH EXT. ANAL.:	5/16/94	5/16/94
DATE OF BTEX EXT. ANAL.:	5/19/94 HP JUX	19194 AHA 5/19/94
TYPE DESCRIPTION:	٧٧	Brown Grey Course Sand
•		711
REMARKS:		
	RESULTS	

PARAMETER	RESULT	UNITS	QUALIFIERS				
			DF	Q	M(g)	V(OI)	
BENZENE	2.6	MG/KG	50				
TOLUENE	32	MG/KG	50				
ETHYL BENZENE	4.4	MG/KG	50				
TOTAL XYLENES	110	MG/KG	50				
TOTAL BTEX	149	MG/KG					
TPH (418.1)	300 298	MG/KG			2.08	28	
HEADSPACE PID	643	PPM		W.			
PERCENT SOLIDS	93.5	%					

PERCENT SOLIDS	75,5	<u></u> %				
	TPH is by EPA Method	1 418.1 and BTEX is b	y EPA Method 802	0		
The Currogate Recovery was at	62	_% for this sam	ple All QA/0	OC was accept	able.	
ATI results	attached	Sumo	rate re	Covery	was	outside
ATI OC I'm	its due	to m	xirte	inter fe	rence	
DF = Dilution Factor Used	\bigcap					
Approved By:	Jarch		Date:	7/14/9	sy	



GAS CHROMATOGRAPHY RESULTS

TEST

: BTEX (EPA 8020)

CLIENT : EL PASO NATURAL GAS CO. ATI I.D.: 405378

PROJECT # : 24324

PROJECT NAME : PIT CLOSURE

SAMPL ID. #		MATRIX	DATE SAMPLED	DATE EXTRACTED	DATE ANALYZED	DIL. FACTOR
01	945150	NON-AQ	05/12/94	05/19/94	05/19/94	50
02	945151	NON-AQ	05/12/94	05/19/94	05/19/94	50
03	945152	NON-AQ	05/12/94	05/19/94	05/19/94	50
PARAM	ETER		UNITS	01	02	03
BENZE	NE		MG/KG	<1.2	2.6	<1.2
TOLUENE			MG/KG	1.9	32	3.8
L'HYL	BENZENE		MG/KG	2.5	4.4	2.2
TOTAL	XYLENES		MG/KG	35	110	26
SURRO	GATE:		•			
BROMO	FLUOROBENZENE	(%)		65	62*	39*

*OUTSIDE ATI QUALITY CONTROL LIMITS DUE TO MATRIX INTERFERENCE



ATI I.D. 405378

June 2, 1994

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

Project Name/Number: PIT CLOSURE 24324

Attention: John Lambdin

On 05/18/94, 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.

Client samples 945004 and 945007 were submitted to Analytical Technologies' Albuquerque laboratory past the recommended EPA holding time.

NOTED NOTED

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:jd

Enclosure

H. Mitchell Rubenstein, Ph.D. Laboratory Manager



CHAIN OF CUSTODY RECORD

PROJECT NUMBER PROJECT NAME PIL CLOSUR	PROJECT NAME PIT Closure Project # 24324	4	S83			REOUESTED ANALYSIS		CONT. ACT LABORATORY P. O. NUMBER
SAMPLERS: (Signature)	Laun DATE:	5-12-94	MUME SOUTHINE	замр е Э ч үү	1.814	8050 EX		
LABID DATE TIME MATRIX	AIX SAMPLE NUMBER	MBER	101 340			EPA		REMARKS
5150 5-12-9 0950 Soil	1 KD 53		_	Z/	X	×	<i>2h</i>	
1:05 0021 46-21-5 1515	1 KD 54		_	VC	×	×	48	
5162 5-12-94 1420 Scil				1/4	×	×	64	
1.05 0291 16-21-5 2515	KD 56		-	۲۲	×	×	50	
	/							
		/						
				/	1			
RELINQUISHED BY: (Signatura)	DATE/TIME 35 C RECEIVED BY: (Signature)	RECEINED BY: (Sign	3ture)	2-,	34° B	RELINQUISHED BY: (Signature)	(fure)	DATE/TIME 36 CF RECEIVED BY: (Signature)
Kony Dearn	2-13-1615	しませ	$\frac{1}{\sqrt{a_s}}$	4		1-1-7	1	56/94/1620
RELINQUEHED BY: (Signature)	DATE/TIME	RECEIVED BY: (Signature)	ature)			RELINQUISHED BY: (Signature)	ature)	
								4年1十十二
REQUESTED TURNAROUND TIME:		SAMPLE RECEIPT REMARKS	EMARKS				RESULTS & INVOICES TO:	FIELD SERVICES LABORATORY
CARRIER CO.								EL PASO NATURAL GAS COMPANY P. O. BOX 4990
BILL NO.:	<u>lo</u>	CHARGE CODE					505-599-2144	FARMINGTON, NEW MEXICO 87499

→

4

5

44

Philip Environmental Services Corp. 4000 Monroe Road **EPNG Pits** Farmington, New Mexico 87401 Project Name (606) 326-2262 FAX (605) 326-2388 14509 Phase Project Number Stewart **Project Location** Elevation Well Logged By **Borehole Location** Personnel On-Site **GWL** Depth Contractors On-Site S.Kelly Logged By Client Personnel On-Site Drilled By Date/Time Started **Drilling Method** Date/Time Completed Air Monitoring Method

					,		T		
			Sample			Depth			
Depth	Sample	Sample	Type &	Sample Description	USCS	Lithology	Air Morvit		Drilling Conditions
(Feet)	Number	Interval	Recovery	Classification System: USCS	Symbol	Change		IDU 3/H	5 & Blow Counts
			(inches)			(feet)	BZ BH	, 's -	
°				Backfill to 4!	l		1 1	1 1	
<u> </u>				backtill to 7.		<u>l</u>	[]		
I						1			
					Ì				
								1 1	
5				(n.m. 11 + 0			1	1 1	
 				JANV, grey black, ting to			1		
		•		CORISE Well araid down			1	1 1	
├				dry & looke in				1 1	
<u></u>	j			SAND, grey black, fine to codrse, well graded, dense dry, a looks like weathered rock.				1-54	
├			.5'	weathered rock.				15	-0955 Spoon
10	1	10-	,5					130	only beston 51
⊢ 1	ا	12						1.004	316606
<u></u>	1	1					l		-0955 Spoon only besten.51 31610WS
	į]	. 1			1	' l		
	1	_ 1	,71	SAA, with less coarse sand.			i	1113	-0910-spoon only besten .5',31 blows
15	2	15-	p. /	THE MIN SESS COURSE				704	-0710-3744
	- 1	171		sand.				107	only beaten
		1	ı	10.11				1 1	.5',31 blows
	j			BOH - 15.51		1	1	1 1	
 -	- 1	1	1				1	1 [
一 20	l		ı	Refusal at 15.5'	- 1	1			
1	- 1	- 1	ļ	Ner 40 21 27 15.5	- 1			1	
- 1	- 1	- 1			İ			1	
<u> </u>]			- 1	Ī	1	1 1	
L 1	ĺ	1				ļ	İ	1 1	
	- 1		I		l	- 1	j		
25			1			1		1 1	
					į	ł	1	1 1	
	- 1		1		ł			i I	
	1		[·	ł	1	J	1 1	
	i	l			ı				
30	ŀ	i	l		}	1	1	1 1	•
├ ─ "`	- 1	I	I		i		1]	
├	j	1	i			1	1	1 1	
⊢		l	1	ļ	1	i	1		
⊢	Ī	1	1	1	1	1	1		
⊢		- 1	i	1	į		1		
35	- 1	ı	1	1	- 1		I	1 1	
	- 1		1				1 .		
	Į		1	1	i	ļ	1		
		1		1			l		
	- 1		- 1	i		l	Ī		
40	ı	- 1	1	j	1	1	[
L	į.	- 1	1		- 1	1	l l	1 1	

Comments:

No sample at due to high headspace readings at

Geologist Signature

Sauch Helley