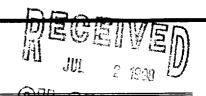
EL PASO FIELD SERVICES PERODUCTION PIT CLOSURE

DEPUTY OIL & GAS INSPECTOR

DEC 2 I 1998.

FIELDS A #4A Meter/Line ID - 90081



SITE DETAILS

Legals - Twn: 32 Rng: NMOCD Hazard Ranking: 40

Rng: 11 Sec:

Sec: 28

Unit: O

Land Type: 2 - Federal

Operator: AMOCO PRODUCTION COMPANY

Pit Closure Date: 09/20/94

RATIONALE FOR RISK-BASED CLOSURE:

The above mentioned production pit was assessed and ranked according to the criteria in the New Mexico Conservation Division's Unlined Surface Impoundment Closure Guidelines.

The primary source, discharge to the pit, has been removed. There has been no discharge to the production pit for at least five years and the pit has been closed for at least three years.

The production pit has been remediated to the practical extent of the trackhoe or to the top of bedrock. Initial laboratory analysis has indicated that the soil remaining at the bottom of the excavation is above standards based on the hazard ranking score. Contaminated soil was removed and transported to an approved landfarm for disposal. The initial excavation was backfilled with clean soil and graded in a manner to divert precipitation away from the excavated area. Any rainfall that does infiltrate the ground surface must migrate through clean backfill before reaching any residual hydrocarbons remaining in the soil. Therefore, further mobility of residual hydrocarbons is unlikely.

Since the soil samples from the initial excavation were above standards, a test boring was drilled and a sample was collected to evaluate the vertical extent of impact to soils. Test boring sample results indicated soils below standards beneath the original excavation.

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

- Discharge to the pit has not occurred in over five years and the pit has been closed for over three years.
- The bulk of the impacted soil was removed during the initial excavation.
- The excavation was backfilled with clean soil and graded to divert precipitation away from the excavation area.
- All source material has been removed from the ground surface, eliminating potential direct contact with livestock and the general public.
- Groundwater was not encountered in the initial excavation or test boring; therefore, impact to groundwater is unlikely.
- Soil samples collected beneath the initial excavation were below standards.
- No potential receptors are within 1,000 feet of the site.
- Residual hydrocarbons remaining in the soil at the bottom of the initial excavation will
 naturally degrade in time with minimal risk to the environment.



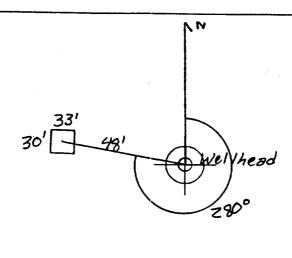
FIELD PIT SITE ASSESSMENT FORM

GENERAL	Meter: 90-081 Location: Fields A No. 4H Operator #: 0203 Operator Name: Production P/L District: Hztec Coordinates: Letter: O Section Z8 Township: 32 Range: 1 Or Latitude Longitude Pit Type: Dehydrator Location Drip: X Line Drip: Other: Site Assessment Date: 8/3/94 Area: 04 Run: 42									
KS SITE ASSESSMENT	NMOCD Zone: (From NMOCD Maps) Inside Outside (2) Depth to Groundwater Less Than 50 Feet (20 points) Greater Than 100 Ft (0 points) Is it less than 1000 ft from wells, springs, or other sources of fresh water extraction? or; ls it less than 200 ft from a private domestic water source? Horizontal Distance to Surface Water Body Less Than 200 Ft (20 points) (3) 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 (5urface 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: HO POINTS									
REMARKS	Remarks: Redline Book-Inside Vulnerable Zone Topo-Inside Three pits on site, location drip pit is dry. Will close one pit:									
<u> </u>	DIGGHAUL									

REMARKS

ORIGINAL PIT LOCATION

Original Pit : a) Degrees from North 20° Footage from Wellhead 48^\prime b) Length : 30° Width : 33^\prime Depth : 4^\prime



Remarks:	·
Pictures @ 1143 (12-15, Roll 1-8/2194)	•
Dump Truck Dual completion site.	
Dual completion site.	

Completed By:

Sank Relly Signature

Date

PHASE I EXCAVATION

FILLO PIT REMEDIATION/CLOSURE FORM

GENERAL	Meter: 90081 Location: FIEIDS A # 4A Coordinates: Letter: O Section28 Township: 32 Range: 11 Or Latitude Longitude Date Started: 9/20/94 Run: 04 42
FIELD OBSERVATIONS	Sample Number(s):
CLOSURE	Remediation Method: Excavation Onsite Bioremediation Backfill Pit Without Excavation Soil Disposition: Envirotech Other Facility Pit Closure Date: 9/20/94 Pit Closed By: BET
REMARKS	Remarks: Excavated pit to 8', Hit Sandstone, Took pio Sample, Closed pit. Signature of Specialist: My Jam.



FIELD SERVICES LABORATORY ANALYTICAL REPORT

PIT CLOSURE PROJECT - Soil Samples Inside the GWV Zone

SAMPLE IDENTIFICATION

	Field ID	Lab ID
SAMPLE NUMBER:	KD 247	946167
MTR CODE SITE NAME:	90082/90081	N/A
SAMPLE DATE TIME (Hrs):	9-20-94	1120
SAMPLED BY:		N/A
DATE OF TPH EXT. ANAL.:	9-22-94	9.22.94
DATE OF BTEX EXT. ANAL.:	9-27-91	9-29-94
TYPE DESCRIPTION:	VC	Brown-fine Sand Jelay
. ,		

REMARKS:	

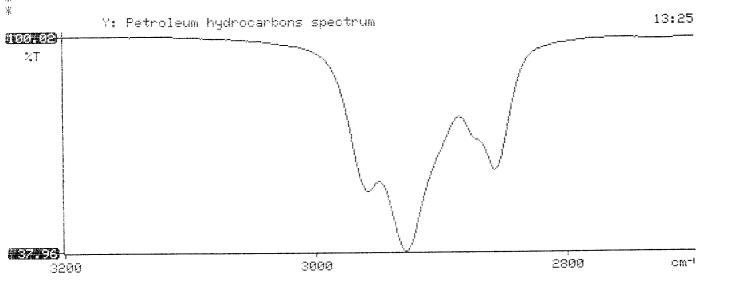
RESULTS

PARAMETER	RESULT UNIT	UNITS				
PARAMEIER		nesuli UMIS		Q	M(g)	V(ml)
BENZENE	ما8.ق	MG/KG	20			
TOLUENE	39.0	MG/KG	20			
ETHYL BENZENE	7.4.34.34	4/94 MG/KG	20			
TOTAL XYLENES	110	MG/KG	20			
TOTAL BTEX	157	MG/KG				
TPH (418.1)	3290	MG/KG			2,04	<i>28</i>
HEADSPACE PID	163	PPM				
PERCENT SOLIDS	88,1	%				

Approved By:

****************************** Test Method for * Oil and Grease and Petroleum Hydrocarbons * * in Water and Soil 菜 Perkin-Elmer Model 1600 FT-IR Analysis Report 13:25 94/09/22 Ж Sample identification 4 946167 Ž. 火 Initial mass of sample, g 2.040 Volume of sample after extraction, ml 28,000 Petroleum hydrocarbons, ppm 3286.784 Net absorbance of hydrocarbons (2930 cm-1) 0.419

*





ATI I.D. 409408

October 5, 1994

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

Project Name/Number: PIT CLOSURE 24324

Attention: John Lambdin

On 09/23/94, 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.

H. Mitchell Rubenstein, Ph.D.

Laboratory Manager

MR:jt

Enclosure





GAS CHROMATOGRAPHY RESULTS

TEST : BTEX (EPA 8020)

CLIENT : EL PASO NATURAL GAS ATI I.D.: 409408

PROJECT # : 24324

PROJECT NAME : PIT CLOSURE

SAMPL ID. #		MATRIX	DATE SAMPLED	DATE EXTRACTED	DATE ANALYZED	DIL. FACTOR
04	946167	NON-AQ	09/20/94	09/27/94	09/29/94	20
05	946177	NON-AQ	09/21/94	09/27/94	09/29/94	10
06	946178	NON-AQ	09/21/94	09/27/94	09/29/94	10
PARAM	METER		UNITS	04	05	06
BENZE	ENE		MG/KG	0.86	0.82	0.42
TOLUE	ENE		MG/KG	39	28	<0.25
ETHYLBENZENE			MG/KG		6.6	4.4
TOTAI	XYLENES		MG/KG	110	83	55
SURRO	OGATE:					
BROMO	OFLUOROBENZENE	(%)		63*	74	125*

^{*}OUTSIDE ATI QUALITY CONTROL LIMITS DUE TO MATRIX INTERFERENCE

PHASE II

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 T3Z, RII, 5.Z8, 0

GWL Depth
Logged By
Drilled By
Date/Time Started
Date/Time Completed

S.Kelly

7/78/95, 0740

Date/Time Completed

7/28/95,

Borehole # Well # Page of of |

EPNG Pits

14509 Phase 604 6000

Fields # No. 4# 900812 9008.

S.Kelly

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

Drilling Method

Air Monitoring Method

CGI, PID

Project Name

Project Number

Project Location

	Sample Number	Sample Interval	Sample Type & Recovery (inches)	Sample Description Classification System: USCS	USCS Symbol	Depth Lithology Change (feet)	Air Monitoring Units: NDU 5/++ BZ BH S		Units: NDU 5/44		Units: NDU5/H		Units: NDU 5/H		Units: NDU 5/H		Units: NDU 5/4		Units: NDU 5/4		Units: NDU 5/4		Units: NDU5/H		Units: NDU 5/H		Units: NDU 5/H		Units: NDU 5/44		Units: NDU 5/H		Units: NDU 5/44		Units: NDU 5/44		Units: NDU 5/H		Units: NDU5/H		Units: NDU 5/H		-	Drilling Conditions & Blow Counts						
0 5 5 10 15 15 15 15 15		18-20		Backfill, to G.					01-	Unilling isslow, like rock.																																								

Comments: 18'-70'Sample (SEK43) Sent to lab (RTEX & TPH) Sample

Was bagged and iced prior to being put in jar.

BH grouted to surface.

Geologist Signature Level Ke Oly



Phase II Drilling Fields A No.4A 18-20'

FIELD SERVICES LABORATORY Fields A No.4A ANALYTICAL REPORT 18-20'

PIT CLOSURE PROJECT - Soil Samples Inside the GWV Zone

SAMPLE IDENTIFICATION

			<u> </u>			
_	Field IC)		Lab ID	 1	
SAMPLE NUMBER:	5EK 43		94	7104		
MTR CODE SITE NAME:	90081 \$ 9008	2				
SAMPLE DATE TIME (Hrs):	07-28-95		0	8:10		
SAMPLED BY:		N	/A			
DATE OF TPH EXT. ANAL.:	7-31-			31-95		
DATE OF BTEX EXT. ANAL.:	8-2-			-2-95		
TYPE DESCRIPTION:	VG		Brown fr	ey Sand t	Cay	
			/ 3	•	-	
REMARKS:					<u></u>	
	R	ESULTS				
	RESULT	UNITS		QUALIFI	FRS	
PARAMETER	HESULI W	UNITS	DF	Q	M(g)	V(ml)
BENZENE	20.025	MG/KG				
TOLUENE	40.025	MG/KG	1			
ETHYL BENZENE	20.025	MG/KG				
TOTAL XYLENES	40.025	MG/KG	1			
TOTAL BTEX	40.10	MG/KG				
TPH (418.1)	-58 57.8	MG/KG			1.99	28
HEADSPACE PID		PPM		ran		
PERCENT SOLIDS	88.4	%		aidt tu tu ta		
	TPH is by EPA Method 4					
The Surrogate Recovery was at	104	% for this samp	ole All QA/Q	C was accept	table.	
Narrative: ATI Result	sattache				· · · · · · · · · · · · · · · · · · ·	
DF = Dilution Factor Used						

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**********************
                 Test Method for
*
     Oil and Grease and Fetroleum Hydrocarbons
*
                in Water and Soil
ŧ
米
          Perkin-Elmer Model 1600 FT-IR
                 Analysis Report
************************
*
95/07/31 14:28
*
*
  Sample identification
947104
末
  Initial mass of sample, g
  Volume of sample after extraction, ml
*
  Petroleum hydrocarbons, ppm
 57.754
 Net absorbance of hydrocarbons (2930 cm-1)
0.017
*
*
         Y: Petroleum hydrocarbons spectrum
                                                              14:28
99.15
  %T
```

3000

2800

 cm^{-1}

3200



ATI I.D. 508310

August 7, 1995

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

Project Name/Number: PIT CLOSURE/PHASE I & PHASE II DRILLING

24324

John Lambdin Attention:

On 08/02/95, 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.

Kimberly D. McNeill

Project Manager

& Malell

MR:jt

Enclosure

Mitchell Rubenstein, Ph.D.

Laboratory Manager

GAS CHROMATOGRAPHY RESULTS

TEST : BTEX (EPA 8020)

CLIENT : EL PASO NATURAL GAS CO. ATI I.D.: 508310

PROJECT # : 24324

PROJECT NAME : PIT CLOSURE/PHASE I & II

SAMPI ID. #		MATRIX	DATE SAMPLED	DATE EXTRACTED	DATE ANALYZED	DIL. FACTOR
01	947101	QA-NON	07/28/95	08/02/95	08/03/95	10
02	947104	QA-NON	07/28/95	08/02/95	08/02/95	1
03	947105	NON-AQ	07/28/95	08/02/95	08/03/95	1
PARAM	METER		UNITS	01	02	03
BENZI	ENE		MG/KG	0.71	<0.025	<0.025
TOLUI	ENE		MG/KG	13	<0.025	<0.025
	LBENZENE		MG/KG	0.31	<0.025	<0.025
	L XYLENES		MG/KG	63	<0.025	0.13
	OGATE:			1024	104	98
BROM	OFLUOROBENZENE	(%)		123*	104	90

^{*}OUTSIDE ATI QUALITY CONTROL LIMITS DUE TO MATRIX INTERFERENCE