

W.O. HUGHES #1 Meter/Line ID - 87915

SITE DETAILS

Legals - Twn: 24

Rng: 03

NMOCD Hazard Ranking: 40 Operator: MERIDIAN OIL INC Sec: 08

Unit: I

Land Type: 4 - PONL CON. DIV.

Pit Closure Date: 10/11/940 STL

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 time with minimal risk environment. to the

FIELD PIT SITE ASSESSMENT FORM

Operator #: \(\frac{2999}{2999} \) Operator Name: \(\frac{MDT}{MDT} \) P/L District: \(\frac{DT}{DT} \) Coordinates: Letter: \(\frac{T}{T} \) Section \(\frac{8}{T} \) Township: \(\frac{AT}{T} \) Range: \(\frac{3}{T} \) Or \(\frac{T}{T} \) Line Drip: \(\frac{T}{T} \) Other: \(\frac{T}{T} \) Site Assessment Date: \(\frac{8}{A} \) A/94 \(\frac{A}{T} \) Area: \(\frac{08}{T} \) Run: \(\frac{83}{T} \)	
NMOCD Zone: (From NMOCD Maps) Inside Outside (2) Depth to Groundwater Less Than 50 Feet (20 points) (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 privat 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 (10 points) (2) 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 (20) > 100' TOTAL HAZARD RANKING SCORE: POINTS	nts)
	-
Remarks: Redline Book - Inside Vulnerable Zone Tope - Inside	
DIP4H4NI	

}	ORIGINAL PIT LOCATION Original Pit : a) Degrees from North <u>351°</u> Footage from Wellhead <u>145′</u> b) Length : <u>入り′</u> Width : <u>18′</u> Depth : <u>3</u> ′
ORIGINAL PIT LOCATION	18' No Wall head
	Remarks: Pictures @ 1050
REMARKS	
	Completed By:
	Signature Date

PHASE I EXCAVATION

FLLLD PIT REMEDIATION/CLOSURE FORM

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CHNERAI	Meter: 87915 Location: W.O. Hushes #1 Coordinates: Letter: <u>T</u> Section <u>B</u> Township: <u>24</u> Range: <u>3</u> Or Latitude Longitude Date Started: 10/11/94 Run: 08 83
FIELD OBSERVATIONS	Sample Number(s): KD 327 Sample Depth: 12' Feet Final PID Reading 228 Pm PID Reading Depth 12' Feet Yes No Groundwater Encountered
CLOSURE	Remediation Method: Excavation Onsite Bioremediation Backfill Pit Without Excavation Soil Disposition: Envirotech Other Facility Name: Pit Closed By: BEC
REMARKS	Remarks: Excavated pit to 12', Took pip Sample, Closed pit.
	Signature of Specialist:



FIELD SERVICES LABORATORY ANALYTICAL REPORT

PIT CLOSURE PROJECT - Soil Samples Inside the GWV Zone

SAMPLE IDENTIFICATION

	Field ID	Lab ID		
SAMPLE NUMBER:	KD 327	946401		
MTR CODE SITE NAME:	87915	N/A		
SAMPLE DATE TIME (Hrs):	10-11-94 0850			
SAMPLED BY:		N/A		
DATE OF TPH EXT. ANAL.:	16-17-94	10.17.94		
DATE OF BTEX EXT. ANAL.:	10-19-94	10-23-94		
TYPE DESCRIPTION:	V.L	Frown Jand		

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RESULTS

PARAMETER RESULT UNITS QUALIFIERS DF Q M(g)

V(ml) MG/KG **BENZENE** 40.5 20 MG/KG 20 **TOLUENE** MG/KG ETHYL BENZENE 1.1 20 MG/KG 20 TOTAL XYLENES 47 MG/KG TOTAL BTEX 13.1 2,23 28 3250 MG/KG **TPH (418.1)** PPM HEADSPACE PID 228 PERCENT SOLIDS

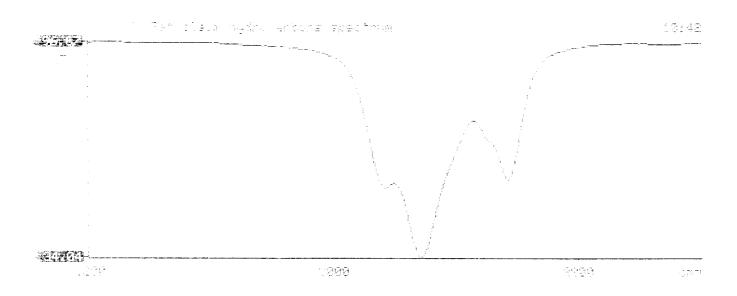
TPH is by EPA Method 418.1 and BTEX is by EPA Method 8020							
The Surrogate	Recovery was	at	% for this sample	All QA/QC was acceptable.			
Narrative:	21	stadied.					

DF = Dilution Factor Used

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DEMARKS.

Date: 11/3/94





ATI I.D. 410405

October 26, 1994

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

Project Name/Number: PIT CLOSURE 24324

Attention: John Lambdin

On 10/18/94, 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.

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



H. Mitchell Ruberstein, Ph.D.

Laboratory Manager



GAS CHROMATOGRAPHY RESULTS

: BTEX (EPA 8020)

TEST : BTEX (EPA 8020)

CLIENT : EL PASO NATURAL GAS CO. ATI I.D.: 410405

PROJECT # : 24324

PROJECT NAME : PIT CLOSURE

SAMPL ID. #	-	MATRIX	DATE SAMPLED	DATE EXTRACTED	DATE ANALYZED	DIL. FACTOR
10	946401	NON-AQ	10/11/94	10/19/94	10/23/94	20
11	946402	NON-AQ	10/11/94	10/19/94	10/23/94	20
12	946403	NON-AQ	10/11/94	10/19/94	10/20/94	1
PARAM	ETER		UNITS	10	11	12
BENZE	NE		MG/KG	<0.5	<0.5	<0.025
TOLUE	NE		MG/KG	7.4	32	0.051
ETHYL	BENZENE		MG/KG	1.1	<0.5	0.043
TOTAL	XYLENES	÷.	MG/KG	4.1	6.3	0.41
SURRO	GATE:					
BROMO	FLUOROBENZENE	(%)		66	82	99

PHASE II

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RECORD OF SUBSURFACE EXPLORATION

PHILIP ENVIRONMENTAL	
4000 Monroe Road	

Farmington, New Mexico 87401
[605] 326-2262 FAX (605) 326-2388

Date/Time Completed

Elevation

Borehole Location

GWL Depth

Logged By

Drilled By

Date/Time Started

CM CHANCE

M DONOHUE
LOGGED BY

Date/Time Started

Borehole #	BH-1
Well #	
Page	of [

 Project Name
 EPNG PITS

 Project Number
 14509
 Phase
 6000 / 77

 Project Location
 W. D. Hughes # 1 87 915

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

 Drilling Method
 4 1/4" ID HSA

 Air Monitoring Method
 PID, CGI

			Sample			Depth				
Depth	Sample	Sample	Type &	Sample Description	uscs	Lithology	Air	Monitor	ing	Drilling Conditions
(Feet)	Number	Interval	Recovery	Classification System: USCS	Symbol	Change	Units	PPM	<u>s</u>	& Blow Counts
			(inches)		ļ	(feet)	BZ	вн	HS	
10		15-17	5''	Backfill to 12' It Br silvy SAND, vf-Fsand, tr med sand, above atz, loose, sl moist TOBIT'			0	0	Y	-1321 h-

Comments:	15-19' (CMC30) sample submitted to lat (BTEX, TPH)	_
	Geologist Signature	_





FIELD SERVICES LABORATORY ANALYTICAL REPORT

PIT CLOSURE PROJECT - Soil Samples Inside the GWV Zone

SAMPLE IDENTIFICATION

	Field ID	Lab ID
SAMPLE NUMBER:	cmc 30	946861
MTR CODE SITE NAME:	87915	N/A
SAMPLE DATE TIME (Hrs):	4-1-95	1221
SAMPLED BY:		N/A
DATE OF TPH EXT. ANAL.:	4.2.95	6.2.95
ATE OF BTEX EXT. ANAL.:	6.9.95	6-7-95
TYPE DESCRIPTION:	V (7	course troop some + chang

			_
	RES	1115	Ŧ

REMARKS:

PARAMETER	RESULT	RESULT UNITS	QUALIFIERS			
			DF	Q M(g)	V(mi)	
BENZENE	40.025	MG/KG	ì			
TOLUENE	20.025	MG/KG				
ETHYL BENZENE	20.025	MG/KG	1			
TOTAL XYLENES	40.025	MG/KG	1			
TOTAL BTEX	40.10	MG/KG				
TPH (418.1)	49.7	MG/KG		2,10	18	
HEADSPACE PID	Lo	PPM				
PERCENT SOLIDS	as.6	%				

TPH is by EPA Method 418.1 and BTEX is by EPA Method 8020						
The Surrogate Recovery was at	97	_% for this sample	All QA/QC was acceptable.			
Narrative: OT Results with	a.d.					
WI CONTROL						

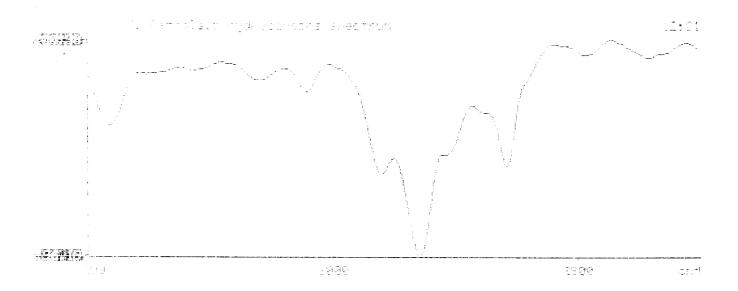
DF = Dilution Factor Used

Approved By:

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Date: Colsolo

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ATI I.D. 506317

June 9, 1995

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

Project Name/Number: PIT CLOSURE 24324

Attention: John Lambdin

On 06/03/95, 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.

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GAS CHROMATOGRAPHY RESULTS

TEST : BTEX (EPA 8020)

CLIENT : EL PASO NATURAL GAS ATI I.D.: 506317

PROJECT # : 24324

PROJECT NAME : PIT CLOSURE

SAMPL		MATRIX	DATE SAMPLED	DATE EXTRACTED	DATE ANALYZED	DIL. FACTOR
10	946860	NON-AQ	06/01/95	06/05/95	06/07/95	1
11	946861	NON-AQ	06/01/95	06/05/95	06/07/95	1.
12	946862	NON-AQ	06/01/95	06/05/95	06/07/95	1
PARAM	METER		UNITS	10	11	12
BENZE	ENE		MG/KG	<0.025	<0.025	<0.025
TOLUE	ENE		MG/KG	<0.025	<0.025	<0.025
ETHYI	LBENZENE		MG/KG	<0.025	<0.025	<0.025
TOTAI	L XYLENES		MG/KG	<0.025	<0.025	<0.025
SURRO	OGATE:					
BROMO	OFLUOROBENZENE (%)			89	97	92