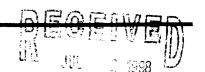
Denn EL PASO FIELD SERVICES DEPUTY OIL SPRODUCTION PIT CLOSURE

DEC 2 : 1598

JOHNSTON FEDERAL #9A Meter/Line ID - 89193





SITE DETAILS

Legals - Twn: 31

Rng: 09

Sec: 35

Unit: 1

NMOCD Hazard Ranking: 40

Land Type: 2 - Federal

Operator: MERIDIAN OIL INC - UNICON

Pit Closure Date: 09/16/94

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: 89-193 Location: Johnston Federal #94 Operator #: 0128 Operator Name: Meridian P/L District: Matec Coordinates: Letter: Section 35 Township: 31 Range: Or Latitude Longitude Pit Type: Dehydrator Location Drip: X Line Drip: Other: Site Assessment Date: N31/94							
SITE ASSESSMENT	NMOCD Zone: (From NMOCD Maps) Inside Outside Outside (2) Indian 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 (10 points) (3) Creater Than 1000 Ft (10 points) (3) Name of Surface Water Body Canyon (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:							
S.S.	Remarks: Redline Book - Inside Vulnerable Zone Topo - Inside							
REMARKS	Three pits, location drip pit is dry. Will close one pit							
REA								
·	DIGGHAUL							

PHASE I EXCAVATION

FIELD PIT REMEDIATION/CLOSURE FORM

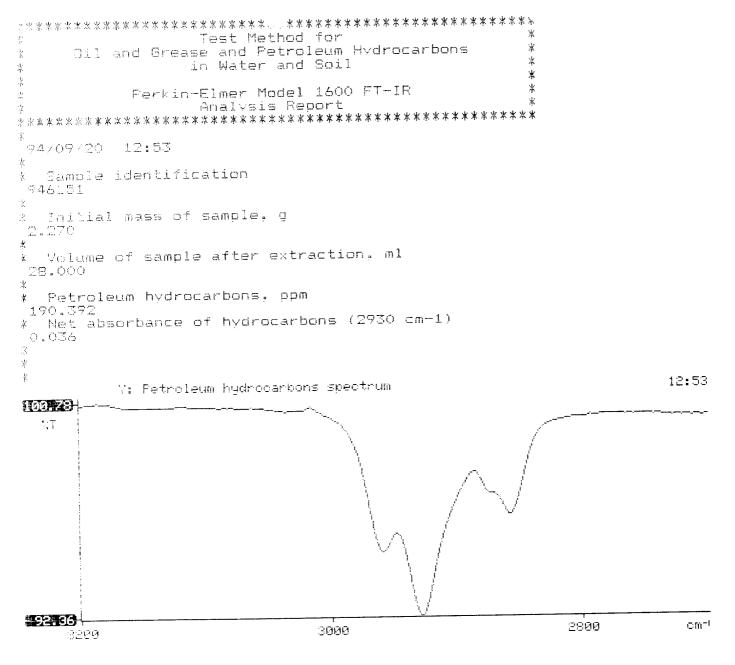
GENERAL	Meter: 89193 Location: Johnston Federal # 9A Coordinates: Letter: I Section 35 Township: 31 Range: 9 Or Latitude Longitude Date Started: 9/16/94 Run: 04 41
FIELD OBSERVATIONS	Sample Number(s): 263 Sample Depth: 12' Feet Final PID Reading 565 pm Yes No Groundwater Encountered
CLOSURE	Remediation Method: Excavation Onsite Bioremediation Backfill Pit Without Excavation Soil Disposition: Envirotech Other Facility Name: Pit Closure Date: 9/16/94 Pit Closed By: BET
REMARKS	Remarks: Exchanged pit to 12', 700k pid Sample, Closed Dit. Signature of Specialist: Www. Down (SP3181) 03/16/1



FIELD SERVICES LABORATORY ANALYTICAL REPORT

PIT CLOSURE PROJECT - Soil Samples Inside the GWV Zone

	Field II	D		Lab ID		
SAMPLE NUMBER:	KD 20		944	0 151		
MTR CODE SITE NAME:	99193			N/A		
SAMPLE DATE TIME (Hrs):	9-16-9		14	טן		
SAMPLED BY:		N/A				
DATE OF TPH EXT. ANAL.:	9-20-91	-		0-94		
DATE OF BTEX EXT. ANAL.:	9-22	-94		24-94 20 1 L	0/2	
TYPE DESCRIPTION:	V C-		highet Grey	Stud 1	Clay	
REMARKS:	F	RESULTS				
PARAMETER	RESULT	UNITS		QUALIFIE	RS	
PARAMEIEN			DF	Q	M(g)	V(ml)
BENZENE	40.25	MG/KG	10			
TOLUENE	4.8	MG/KG	10			
ETHYL BENZENE	1.4	MG/KG	10			
TOTAL XYLENES	17	MG/KG	10			
TOTAL BTEX	23.5	MG/KG				
TPH (418.1)	190	MG/KG			2,27	28
HEADSPACE PID	S\ 5	PPM		atui kali		
PERCENT SOLIDS	888	%				
ne Surrogate Recovery was at	TPH is by EPA Method	418.1 and BTEX is by E % for this sample			able.	





ATI I.D. 409389

September 29, 1994

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

Project Name/Number: PIT CLOSURE 24324

Attention: John Lambdin

On 09/21/94, 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 Rubenstein, Ph.D. Laboratory Manager



GAS CHROMATOGRAPHY RESULTS

TEST

: BTEX (EPA 8020)

CLIENT : EL PASO NATURAL GAS ATI I.D.: 409389

PROJECT # : 24324

PROJECT NAME : PIT CLOSURE

SAMPL		MATRIX	DATE SAMPLED	DATE EXTRACTED	DATE ANALYZED	DIL. FACTOR
ID. #	CLIENT I.D. 946130	NON-AQ	09/15/94	09/22/94	09/23/94	1
04	946150	NON-AQ	09/16/94	09/22/94	09/24/94	10
05	946151	NON-AQ	09/16/94	09/22/94	09/24/94	10
06 PARAM			UNITS	04	05	06
BENZE			MG/KG	<0.025	0.62	<0.25
			MG/KG	0.032	<0.25	4.8
TOLUE			MG/KG	<0.025	8.0	1.4
	LBENZENE L XYLENES		MG/KG	<0.025	79	17
-	OGATE:	(%)		93	95	76

BROMOFLUOROBENZENE (%)

PHASE II

RECORD OF SUBSURFACE EXPLORATION

Philip Environmental Services Corp.

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

Elevation Borehole Location GWL Depth Logged By S.Kelly Drilled By Date/Time Started Date/Time Completed 4

Borehole #	_BH-L				
Well #					
Page	of (

Project Name Project Number **Project Location** **EPNG Pits** 14509

Phase Johnston Federal#9

Well Logged By Personnel On-Site S.Kelly

Contractors On-Site Client Personnel On-Site M. Donohue, J.O'Keife

Drilling Method

CGI, PID Air Monitoring Method

Depth (Feet)	Sample Number	Sample Interval	Sample Type & Recovery (inches)	Sample Description Classification System: USCS	USCS Symbol	Depth Lithology Change (feet)	r Monitor Inits: NC BH	· 1	Drilling Conditions & Blow Counts
10 15 25 25 30 35 40			3/1.	Backfill to 12 SILT, dk brown, stiff dry SAM, very stiff. TOB-24.51				1/81 0/26	drilling is hord, like rock 0840

Comments:

Geologist Signature



FIELD SERVICES LABORATORY ANALYTICAL REPORT

PIT CLOSURE PROJECT - Soil Samples Inside the GWV Zone

SAMPLE IDENTIFICATION

	Field ID	Lab ID
SAMPLE NUMBER:	SEKSI	947157
Ť	89193	Johnston Federal #9 A
MTR CODE SITE NAME:	08/04/95	08:55
SAMPLE DATE TIME (Hrs): PROJECT:	Phasett Drilling	
	8-7-95	8-7-95
DATE OF TPH EXT. ANAL.:	8-12-95	8-12-95
DATE OF BTEX EXT. ANAL.:	8- 12-13	arm sand d clay
TYPE DESCRIPTION:	VG	Topical Daily of Care

Field Remarks: (23-24.51)

RESULTS

	RESULT	UNITS	i .	QUALIFIERS				
PARAMETER	RESULT	<u> </u>	DF	Q	M(g)	V(ml)		
BENZENE	20.025	MG/KG						
TOLUENE	20.025	MG/KG	1					
ETHYL BENZENE	20.025	MG/KG	1					
TOTAL XYLENES	40.025	MG/KG	1					
TOTAL BTEX	40.10	MG/KG						
TPH (418.1)	76.2	MG/KG			1.98	28		
HEADSPACE PID	26	PPM						
PERCENT SOLIDS	91.4	%						

Approved By:

Date: 8/28/95

```
***********************
                 Test Method for
     Oil and Grease and Petroleum Hydrocarbons
                                                 *
                                                 *
                in Water and Soil
           Perkin-Elmer Model 1600 FT-IR
                 Analysis Report
**************
 95/08/07 13:59
  Sample identification
 947157
*
   Initial mass of sample, g
  Volume of sample after extraction, ml
 28.000
*
  Petroleum hydrocarbons, ppm
 76.155
  Net absorbance of hydrocarbons (2930 cm-1)
 0.019
雲
                                                              13:59
         Y: Petroleum hydrocarbons spectrum
99.78
  %T
 95.22
                                                                \odot m^{-1}
                                                     2800
                             3000
     3200
```



ATI I.D. 508367

August 77, 1995

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

Project Name/Number: PIT CLOSURE/PHASE I, II & III PITS 24324

Attention: John Lambdin

On 08/11/95, Analytical Technologies, Inc., (ADHS License No. AZ0015), received a request to analyze non-aqueous samples. 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

Duglah

MR:jt

Enclosure

H. Mitchell Rubenstein, Ph.D.

Laboratory Manager



GAS CHROMATOGRAPHY RESULTS

TEST

: BTEX (EPA 8020)

CLIENT : EL PASO NATURAL GAS CO. ATI I.D.: 508367

PROJECT # : 24324

PROJECT NAME : PIT CLOSURE/PHASE I, II & III

SAMPL ID. #		MATRIX	DATE SAMPLED	DATE EXTRACTED	DATE ANALYZED	DIL. FACTOR
04	947156	NON-AQ	08/04/95	08/14/95	08/15/95	1
05	947157	NON-AQ	08/04/95	08/12/95	08/12/95	1
06	947158	NON-AQ	08/04/95	08/12/95	08/12/95	20
PARAMETER			UNITS	04	05	06
BENZE	INE		MG/KG	<0.025	<0.025	<0.5
TOLUE	INE		MG/KG	0.11	<0.025	5.6
ETHYL	BENZENE		MG/KG		<0.025	3.3
TOTAL XYLENES			MG/KG	0.28	<0.025	38
SURRO	DGATE:					
BROMO	FLUOROBENZENE (%)			84	113	182*

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