EL PASO FIELD SERVICES
PRODUCTION PIT CLOSURE

DEPUTY OIL & GAS INSPECTOR

DEC 21 1998

RECEIVED
JUL 2 1998
OIL CON. DIV.

HUBBELL #9
Meter/Line ID - 87390

SITE DETAILS

Legals - Twn: 29 **Rng:** 10 **Sec:** 18 **Unit:** P
NMOCD Hazard Ranking: 10 **Land Type:** 2 - Federal
Operator: MERIDIAN OIL INC **Pit Closure Date: 05/04/94**

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: 87390 Location: HUBBELL #9

Operator #: 2999 Operator Name: MERIDIAN P/L District: BLOOMFIELD

Coordinates: Letter: P Section 18 Township: 29 Range: 10

Or Latitude _____ Longitude _____

Pit Type: Dehydrator ___ Location Drip: ___ Line Drip: ___ Other: X (FORMERLY SEPERATOR)

Site Visit Date: 4·13·94 Run: 10 81

SITE ASSESSMENT

NMOCD Zone: (From NMOCD Maps)
Inside Vulnerable Zone ☒
Outside ☐

Land Type:
BLM ☒
State ☐
Fee ☐
Indian _____

Depth to Groundwater
Less Than 50 Feet (20 points) ☐
50 Ft to 99 Ft (10 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? ☐ YES (20 points) ☒ NO (0 points)

Horizontal Distance to Surface Water Body
Less Than 200 Ft (20 points) ☐
200 Ft to 1000 Ft (10 points) ☒
Greater Than 1000 Ft (0 points) ☐
Name of Surface Water Body ~~IRRIGATION DITCH~~ CITIZENS

(Surface Water Body : Perennial Rivers, Major Wash, Streams, Creeks, Irrigation Canals, Ditches, Lakes, Ponds)

TOTAL HAZARD RANKING SCORE: 10 **POINTS**

REMARKS

Remarks : ONLY PIT ON LOCATION. PIT IS DRY. LOCATION IS UP ON A HILL NEXT TO A RESORVOIR THAT FEEDS IRRIGATION DITCH. SEPERATOR HAS BEEN REMOVED FROM PIT. METER IS TIED INTO WELLHEAD DIRECT.

ORIGINAL PIT LOCATION

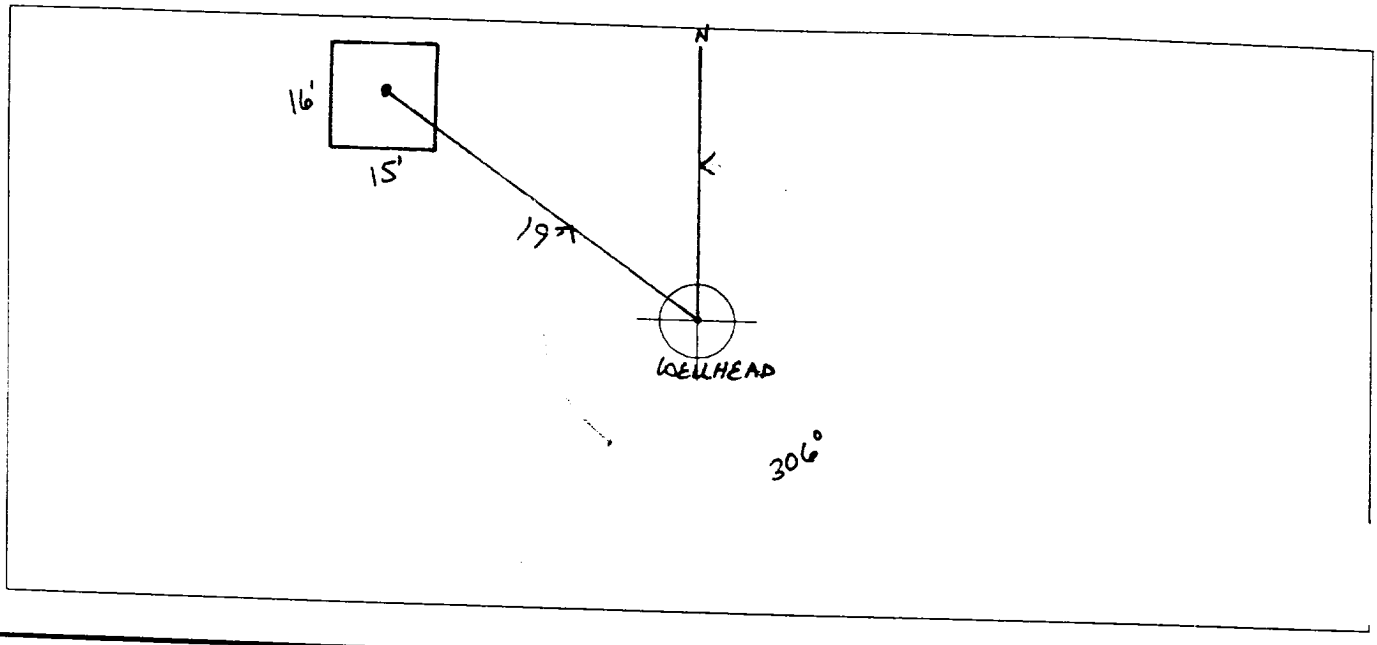
ORIGINAL PIT LOCATION

Original Pit : a) Degrees from North 306° Footage to Wellhead 19'

b) Degrees from North _____ Footage to Dogleg _____

Deg Name _____

c) Length : 16' Width : 15' Depth : 2'



REMARKS

Remarks :

STARTED TAKING PICTURES AT 1:34 P.M.

END DUMP

Completed By:

Robert Thompson
Signature

4 13 94
Date

PHASE I
EXCAVATION

FIELD PIT REMEDIATION/CLOSURE FORM

GENERAL

Meter: 87390 Location: HUBBELL #9

Coordinates: Letter: P Section 18 Township: 29 Range: 10

Or Latitude _____ Longitude _____

Date Started : 5-4-94 Area: 10 Run: 81

FIELD OBSERVATIONS

Sample Number(s): 945074 KP20 _____ _____ _____

Sample Depth: 8' Feet

Final PID Reading 274 PID Reading Depth 8' Feet

Yes No

Groundwater Encountered ☐ (1) ☐ (2) Approximate Depth _____ Feet

CLOSURE

Remediation Method :

Excavation ☒ (1) Approx. Cubic Yards 30

Onsite Bioremediation ☐ (2)

Backfill Pit Without Excavation ☐ (3)

Soil Disposition:

Envirotech ☐ (1) ☐ (3) Tierra

Other Facility ☐ (2) Name: _____

Pit Closure Date: 5-4-94 Pit Closed By: B.E.T

REMARKS

Remarks : Some LINE markers on location. Top of Pit looks Dry. Dug down 8' Hit SAND STONE PID 274

Signature of Specialist: Kelly Padilla

(SP3191) 04/07/

El Paso Natural Gas Company

FIELD SERVICES LABORATORY
ANALYTICAL REPORT
PIT CLOSURE PROJECT - Soil

SAMPLE IDENTIFICATION

	Field ID	Lab ID
SAMPLE NUMBER:	KP20	945 074
MTR CODE | SITE NAME:	87390	N/A
SAMPLE DATE | TIME (Hrs):	5/4/94	1745
SAMPLED BY:	N/A	
DATE OF TPH EXT. | ANAL.:	5/5/94	5/5/94
DATE OF BTEX EXT. | ANAL.:	5/9/94	5/13/94
TYPE | DESCRIPTION:	VC	Light gray sand

REMARKS: _____

RESULTS

PARAMETER	RESULT	UNITS	QUALIFIERS			
			DF	Q	M(g)	V(ml)
BENZENE	<0.25	MG/KG	10			
TOLUENE	0.60	MG/KG	10			
ETHYL BENZENE	2.8	MG/KG	10			
TOTAL XYLENES	55	MG/KG	10			
TOTAL BTEX	59	MG/KG				
TPH (418.1)	<10	MG/KG			2.26	28
HEADSPACE PID	274	PPM				
PERCENT SOLIDS	87.8	%				

– TPH is by EPA Method 418.1 and BTEX is by EPA Method 8020 –

The Surrogate Recovery was at 110 % for this sample All QA/QC was acceptable.

Narrative: ATI Results attached.

DF = Dilution Factor Used

Approved By: John Loudon Date: 7/7/94

Test Method for

Grease and Petroleum Hydrocarbons

in Water and Soil

Perkin-Elmer Model 1600 FT-IR

Analysis Report

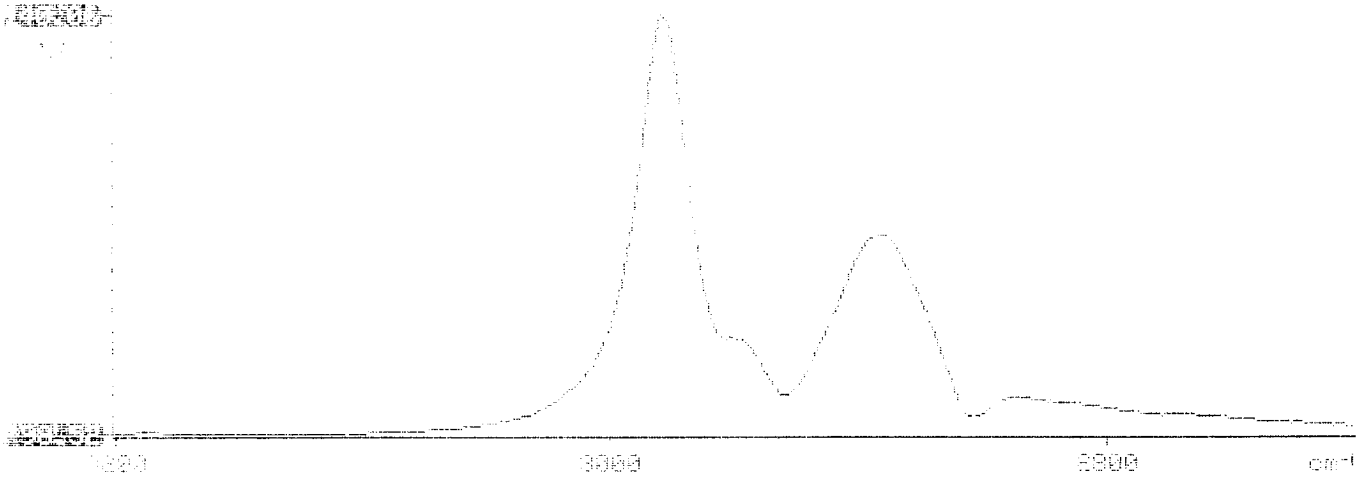
Weight of sample, g

Volume of sample after extraction, ml

Petroleum hydrocarbons, ppm

Peak absorbance of hydrocarbons (2930 cm-1)

Petroleum hydrocarbons spectrum



Analytical Technologies, Inc.

2709-D Pan American Freeway, NE Albuquerque, NM 87107
Phone (505) 344-3777 FAX (505) 344-4413

ATI I.D. **405331**

May 19, 1994

El Paso Natural Gas Company
770 W. Navajo
Farmington, NM 87401

Project Name/Number: PIT PROJECT 24324

Attention: John Lambdin

On **05/06/94**, Analytical Technologies, Inc., (ADHS License No. AZ0015), received a request to analyze **aqueous** and **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.

Upon arrival, it was noted that sample 945055 contained headspace. The client was notified and the sample was analyzed "as is."

The laboratory was instructed to correct the sampling data for sample 945075 to 05/04/94.

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:jd

Enclosure

Analytical Technologies, Inc.

GAS CHROMATOGRAPHY RESULTS

TEST : BTEX (EPA 8020)
CLIENT : EL PASO NATURAL GAS CO. ATI I.D.: 405331
PROJECT # : 24324
PROJECT NAME : PIT PROJECT

SAMPLE ID. #	CLIENT I.D.	MATRIX	DATE SAMPLED	DATE EXTRACTED	DATE ANALYZED	DIL. FACTOR
23	945072	NON-AQ	05/04/94	05/09/94	05/14/94	5
24	945073	NON-AQ	05/04/94	05/09/94	05/13/94	25
25	945074	NON-AQ	05/04/94	05/09/94	05/13/94	10

PARAMETER	UNITS	23	24	25
BENZENE	MG/KG	0.43	1.2	<0.25
TOLUENE	MG/KG	3.2	42	0.60
ETHYLBENZENE	MG/KG	0.7	16	2.8
TOTAL XYLENES	MG/KG	7.8	170	55
SURROGATE:				
BROMOFLUOROBENZENE (%)		130*	50*	110

*OUTSIDE ATI QUALITY CONTROL LIMITS DUE TO MATRIX INTERFERENCE

PHASE II

RECORD OF SUBSURFACE EXPLORATION

Borehole # BH-1
Well #
Page 1 of 1

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

Project Name EPNG PITS
Project Number 14509 Phase 6000 / 77
Project Location Hubbel #9 87390

Elevation
Borehole Location
GWL Depth
Logged By CM CHANCE
Drilled By ~~M DONOHUE~~ K. Padilla
Date/Time Started 6/9/95 - 1010
Date/Time Completed 6/9/95 - 1145

Well Logged By CM Chance
Personnel On-Site K. Padilla, F. Rivera, R. Isaacs
Contractors On-Site
Client Personnel On-Site

Drilling Method 4 1/4" ID HSA
Air Monitoring Method PID, CGI

Depth (Feet)	Sample Number	Sample Interval	Sample Type & Recovery (inches)	Sample Description Classification System: USCS	USCS Symbol	Depth Lithology Change (feet)	Air Monitoring Units: PPM BZ	BH	S HS	Drilling Conditions & Blow Counts
0				BackFill to 8'						
5										
10	1	10-12	8"	lt br silty SAND, vf-f sand, dense, sl moist, sl odor			0	28	66/448	-1022hrs
15	2	15-16	8"	lt br SAND, f-med sand, tr silt, dense, sl moist			0	16	53/12	-1030 -hard drilling
20	3	20-21	6"	Gry silty CLAY, hard, non-plastic, dry			0	NJ	7/1	-1039
				TDB 21'						
25										
30										
35										
40										

Comments: 20-21' sample (CMC48) sent to lab (BTEX, TPH). BH grouted to surface

Geologist Signature

Phase II

El Paso Natural Gas Company

FIELD SERVICES LABORATORY
ANALYTICAL REPORT
PIT CLOSURE PROJECT - Soil Samples Inside the GWV Zone

SAMPLE IDENTIFICATION

	Field ID	Lab ID
SAMPLE NUMBER:	CMC 48	9469.90
MTR CODE | SITE NAME:	87390	N/A
SAMPLE DATE | TIME (Hrs):	6-9-95	1039
SAMPLED BY:	N/A	
DATE OF TPH EXT. | ANAL.:	6-13-95	6-13-95
DATE OF BTEX EXT. | ANAL.:	6-14-95	6-16-95
TYPE | DESCRIPTION:	VG	Light Brown sand and clay (Pendeng)

REMARKS: _____

RESULTS

PARAMETER	RESULT	UNITS	QUALIFIERS			
			DF	Q	M(g)	V(ml)
BENZENE	<0.025	MG/KG	1			
TOLUENE	0.028	MG/KG	1			
ETHYL BENZENE	<0.025	MG/KG	1			
TOTAL XYLENES	<0.025	MG/KG	1			
TOTAL BTEX	0.103	MG/KG				
TPH (418.1)	14.3	MG/KG			2.02	28
HEADSPACE PID	1	PPM				
PERCENT SOLIDS	90.8	%				

-- TPH is by EPA Method 418.1 and BTEX is by EPA Method 8020 --

The Surrogate Recovery was at 100 % for this sample All QA/QC was acceptable.

Narrative:

ATC Results attached

DF = Dilution Factor Used

Approved By: J.P. Date: 6/28/95

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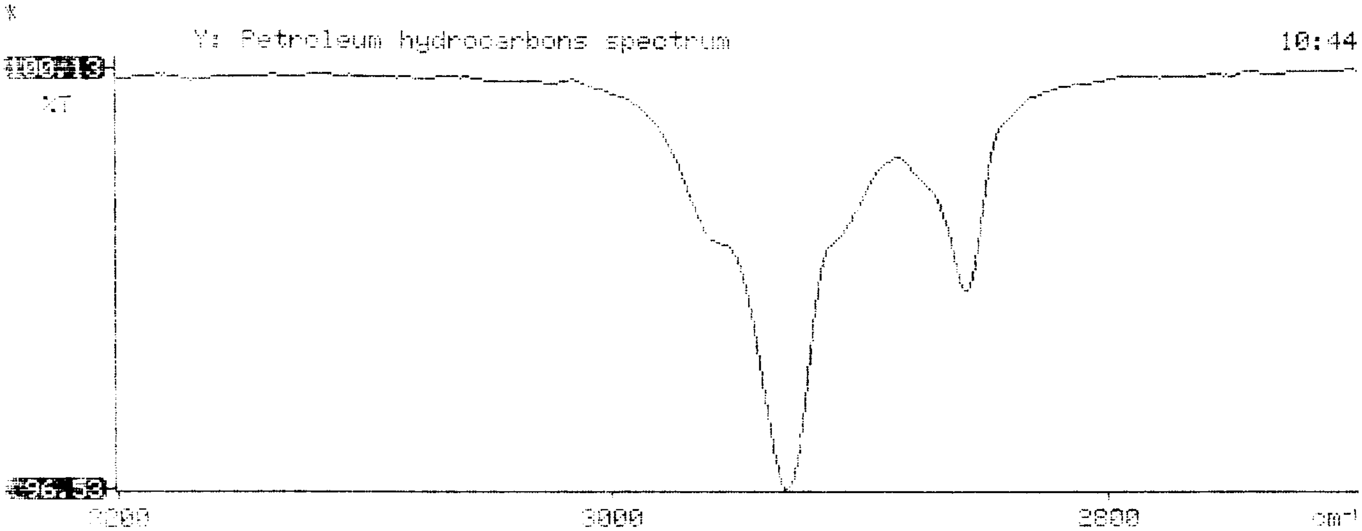
Test Method for
Oil and Grease and Petroleum Hydrocarbons
in Water and Soil

Perkin-Elmer Model 1600 FT-IR
Analysis Report
****
*
95/06/13 10:44
*
* Sample identification
946890
*
* Initial mass of sample, g
0.000
*
* Volume of sample after extraction, ml
28.000
*
* Petroleum hydrocarbons, ppm
44.285
* Net absorbance of hydrocarbons (2930 cm-1)
0.016
*
*
*



Analytical **Technologies,** Inc.

2709-D Pan American Freeway, NE Albuquerque, NM 87107
Phone (505) 344-3777 FAX (505) 344-4413

ATI I.D. **506363**

June 19, 1995

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

Project Name/Number: PIT CLOSURE 24324

Attention: John Lambdin

On **06/14/95**, 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.

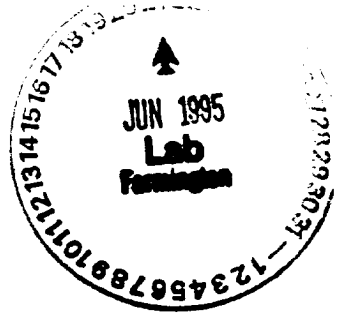
If you have any questions or comments, please do not hesitate to contact us at (505) 344-3777.

Kimberly D. McNeill
Project Manager

H. Mitchell Rubenstein, Ph.D.
Laboratory Manager

MR:jt

Enclosure



Analytical Technologies, Inc.

GAS CHROMATOGRAPHY RESULTS

TEST : BTEX (EPA 8020)

CLIENT : EL PASO NATURAL GAS CO. ATI I.D.: 506363

PROJECT # : 24324

PROJECT NAME : PIT CLOSURE

SAMPLE ID. #	CLIENT I.D.	MATRIX	DATE SAMPLED	DATE EXTRACTED	DATE ANALYZED	DIL. FACTOR
10	946890	NON-AQ	06/09/95	06/14/95	06/16/95	1

PARAMETER	UNITS	10
BENZENE	MG/KG	<0.025
TOLUENE	MG/KG	0.028
ETHYLBENZENE	MG/KG	<0.025
TOTAL XYLENES	MG/KG	<0.025
SURROGATE:		
BROMOFLUOROBENZENE (%)		100