EL PASO FIELD SERVICES
PRODUCTION PIT CLOSURE

DEPUTY OIL & GAS INSPECTOR

DEC 2 7 1996

Approved

RECEIVED
JUL 2 1998
OIL CON. DIV.
DIST. 3

SKELLY GAS COM #1E
Meter/Line ID - 93559

SITE DETAILS

Legals - Twn: 29 **Rng:** 10 **Sec:** 32 **Unit:** O
NMOCD Hazard Ranking: 40 **Land Type:** 1 - State
Operator: AMOCO PRODUCTION COMPANY **Pit Closure Date: 09/26/94**

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: 93559 Location: Skelly Gas Com No 1E
Operator #: 0203 Operator Name: Amoco P/L District: Angel Peak
Coordinates: Letter: O Section 32 Township: 29 Range: 10
Or Latitude ____ Longitude ____
Pit Type: Dehydrator √ Location Drip: ___ Line Drip: ___ Other: ____
Site Assessment Date: 9/12/94 Area: 01 Run: 23

SITE ASSESSMENT

NMOCD Zone: (From NMOCD Maps)
Inside ☒ (1)
Outside ☐ (2)

Land Type:
BLM ☐ (1)
State ☒ (2)
Fee ☐ (3)
Indian ____

Depth to Groundwater
Less Than 50 Feet (20 points) ☒ (1)
50 Ft to 99 Ft (10 points) ☐ (2)
Greater Than 100 Ft (0 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 private domestic water source? ☐ (1) YES (20 points) ☒ (2) NO (0 points)

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 Creighton Canyon (OFF of San Juan R.)
(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: 40 **POINTS**

REMARKS

Remarks : Redline Book - Inside, Vulnerable Zone Topo - Inside
3 pits. Will close. Pit dry

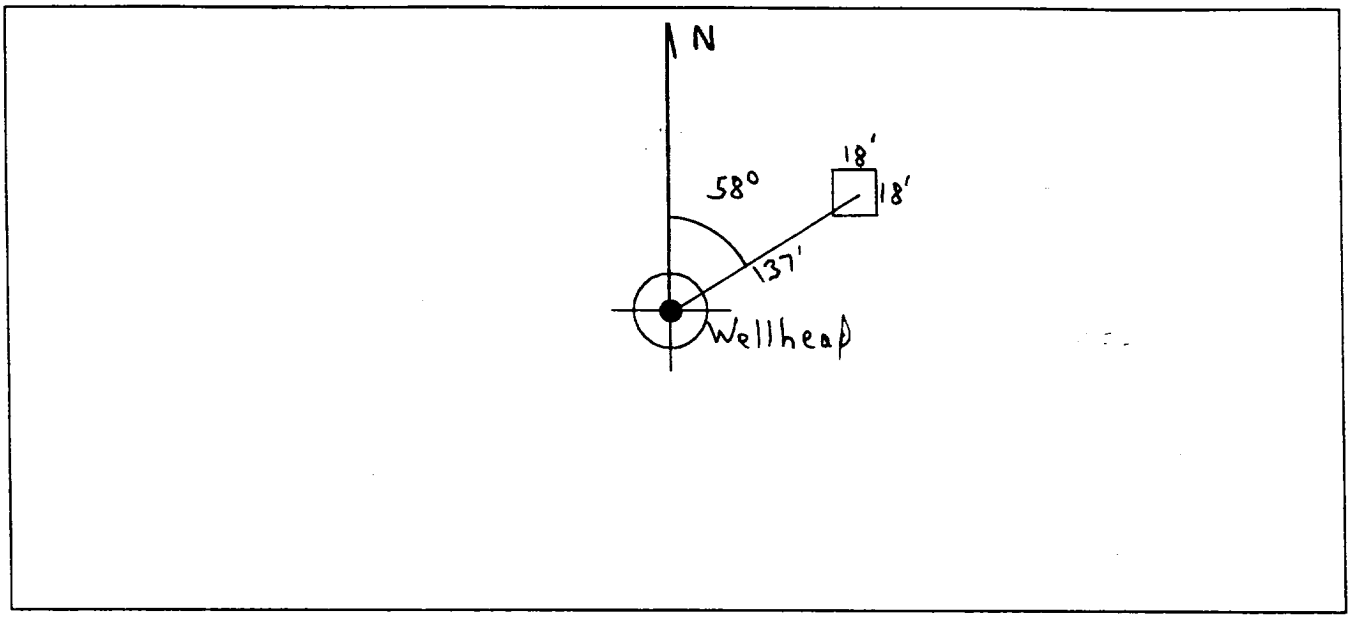
DIG & HAUL

ORIGINAL PIT LOCATION

ORIGINAL PIT LOCATION

Original Pit : a) Degrees from North 58° Footage from Wellhead 137'

b) Length : 18' Width : 18' Depth : 4'



REMARKS

Remarks :

Pictures @ 1707 hr

Completed By:

Cory Chaney
Signature

9/12/94
Date

PHASE I EXCAVATION

FIELD PIT REMEDIATION/CLOSURE FORM

GENERAL

Meter: 93559 Location: SKELLY Gas Com No 1E

Coordinates: Letter: O Section 32 Township: 29 Range: 10

Or Latitude _____ Longitude _____

Date Started : 9-26-94 Run: 01 23

FIELD OBSERVATIONS

Sample Number(s): KP251 _____ _____ _____

Sample Depth: 12' Feet

Final PID Reading 424 PID Reading Depth 12' Feet

	Yes	No
Groundwater Encountered	☐	☒

Approximate Depth _____ Feet

CLOSURE

Remediation Method :

Excavation ☒ Approx. Cubic Yards 70

Onsite Bioremediation ☐

Backfill Pit Without Excavation ☐

Soil Disposition:

Envirotech ☒ ☐ Tierra

Other Facility ☐ Name: _____

Pit Closure Date: 9-26-94 Pit Closed By: B.E.J

REMARKS

Remarks : Some LINE markers. Started Remediating to 12' At 12' soil gray looking with A smell.

Signature of Specialist: Kelly Padilla

(SP3191) 03/16/94

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:	KP 251	9416212
MTR CODE | SITE NAME:	93559	N/A
SAMPLE DATE | TIME (Hrs):	9-26-94	1100
SAMPLED BY:	N/A	
DATE OF TPH EXT. | ANAL.:	9-27-94	9-27-94
DATE OF BTEX EXT. | ANAL.:	9-29-94	10-2-94
TYPE | DESCRIPTION:	VC	Dk brown Sand & Clay

REMARKS: _____

RESULTS

PARAMETER	RESULT	UNITS	QUALIFIERS			
			DF	Q	M(g)	V(ml)
BENZENE	1.1	MG/KG	20			
TOLUENE	22	MG/KG	20			
ETHYL BENZENE	3.5	MG/KG	20			
TOTAL XYLENES	64	MG/KG	20			
TOTAL BTEX	90.6	MG/KG				
TPH (418.1)	591	MG/KG			2.12	28
HEADSPACE PID	424	PPM				
PERCENT SOLIDS	88.6	%				

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

The Surrogate Recovery was at 78 % for this sample All QA/QC was acceptable.

Narrative:

AT Results attached.

DF = Dilution Factor Used

Approved By: _____ Date: 10/03/94

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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                  *
*****************************************************
*
 94/09/27  14:12
*
*  Sample identification
 946212
*
*  Initial mass of sample, g
 2.120
*
*  Volume of sample after extraction, ml
 28.000
*
*  Petroleum hydrocarbons, ppm
 590.716
*  Net absorbance of hydrocarbons (2930 cm-1)
 0.086
*
*
*
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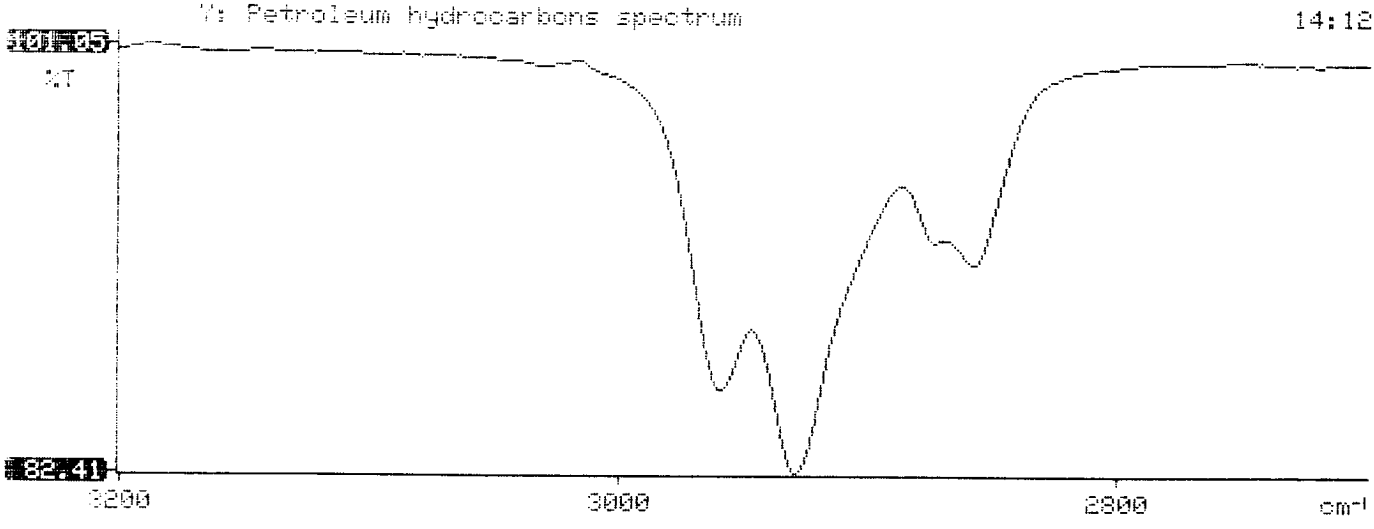

Analytical **Technologies,** Inc.

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

ATI I.D. **409425**

October 7, 1994

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

Project Name/Number: PIT CLOSURE 24324

Attention: John Lambdin

On **09/28/94**, 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

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.: 409425

PROJECT # : 24324

PROJECT NAME : PIT CLOSURE

SAMPLE ID. #	CLIENT I.D.	MATRIX	DATE SAMPLED	DATE EXTRACTED	DATE ANALYZED	DIL. FACTOR
13	946211	NON-AQ	09/26/94	09/29/94	10/02/94	20
14	946212	NON-AQ	09/26/94	09/29/94	10/02/94	20
15	946213	NON-AQ	09/26/94	09/29/94	10/02/94	1

PARAMETER	UNITS	13	14	15
BENZENE	MG/KG	<0.5	1.1	<0.025
TOLUENE	MG/KG	1.3	22	<0.025
ETHYLBENZENE	MG/KG	<0.5	3.5	<0.025
TOTAL XYLENES	MG/KG	18	64	<0.025
SURROGATE:				
BROMOFLUOROBENZENE (%)		72	78	94

PHASE II

RECORD OF SUBSURFACE EXPLORATION

Borehole # BH-1
Well #
Page 1 of 2

PHILIP 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 SKelly Gas Com No 1E 9355'

Elevation
Borehole Location T29, R10, S32, O
GWL Depth
Logged By Jeff W. Kindley
Drilled By G. Sudduth
Date/Time Started 08/22/95 1400
Date/Time Completed 08/22/95 1550

Well Logged By Jeff W. Kindley
Personnel On-Site G. Sudduth, H. Keil, D. Roberts
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 material to 12'						
5										
10										
15										
20	1	18-20'	.8/2.0	CL, Lt BR CLAY, dry, hard, low plasticity, hydrocarbon odor					165/134	1415 100 blows per Foot
25	2	23-25'	.9/2.0	S.A.A.					149/116	1424 100 blows per Foot
30	3	28-30	.9/2.0	S.A.A.					146/125	1433 100 blows per Foot
35	4	33-35	.7/2.0	S.A.A.					120/115	1442 100 blows per Foot
40	5	38-40	.8/2.0	S.A.A					39/57	1456 100 blows per Foot

Comments:

Geologist Signature Jeffrey Kindley

RECORD OF SUBSURFACE EXPLORATION

Borehole # BH-1
Well #
Page 2 of 2

PHILIP 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 Skelly Gas Com A/C 1E 93559

Elevation
Borehole Location T29, R10, S32, O
GWL Depth
Logged By Jeff W. Kindley
Drilled By G. Suddurth
Date/Time Started 08/22/95 1400
Date/Time Completed 08/22/95 1550

Well Logged By Jeff W. Kindley
Personnel On-Site G. Suddurth, H Kent, D. Roberts
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/AS	Drilling Conditions & Blow Counts
40										
45	6	43-45	.9/2.0	S.A.A Boring terminated at 45'					29/4	1512 100 blows per Foot
10										
15										
20										
25										
30										
35										
40										

Comments: Sample collected from 43 to 45 feet and submitted For analysis of BTEX and TPH. BH grouted to the surface

Geologist Signature Jeffrey Kindley

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:	JWK 39	947307
MTR CODE | SITE NAME:	93559	Skelly Gas Com No. 1E
SAMPLE DATE | TIME (Hrs):	08-22-95	15:12
PROJECT:	Phase II Drilling	
DATE OF TPH EXT. | ANAL.:	8/23/95	
DATE OF BTEX EXT. | ANAL.:	8/24/95	
TYPE | DESCRIPTION:	VG	Light grey Sand & Sand Stones

Field Remarks:

RESULTS

PARAMETER	RESULT	UNITS	QUALIFIERS			
			DF	Q	M(g)	V(ml)
BENZENE	< .5	MG/KG				
TOLUENE	< .5	MG/KG				
ETHYL BENZENE	< .5	MG/KG				
TOTAL XYLENES	< 1.5	MG/KG				
TOTAL BTEX	< 3	MG/KG				
TPH (418.1)	RBA 8/24/95 44 40.7	MG/KG				28
HEADSPACE PID	4	PPM				
PERCENT SOLIDS	91.6	%				

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

The Surrogate Recovery was at 95% for this sample All QA/QC was acceptable.

Narrative:

DF = Dilution Factor Used

Approved By: D P

Date: 9/1

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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                  *
*****************************************************

 95/03/23  14:38

  Sample identification
 947307

  Initial mass of sample, g
 1.980

  Volume of sample after extraction, ml
 28.000

  Petroleum hydrocarbons, ppm
 40.732
  Net absorbance of hydrocarbons (2930 cm-1)
 0.015
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