

District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Avenue, Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy Minerals and Natural Resources

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

*Risk
plume
is not
defined*

Submit 1 copy to
appropriate
District Office
and 1 copy to
the Santa Fe Office

(Revised 3/9/94)

PIT REMEDIATION AND CLOSURE REPORT

Operator: Conoco Mesa Operating Telephone _____

Address: 30-039-21648

Facility Or: Valencia Canyon Unit #36, Meter 90171

Well Name #38 at this location

Location: Unit or Qtr/Qtr Sec D Sec 24 T 28 R 4 County Rio Arriba

Pit Type: Separator _____ Dehydrator _____ Other Drip

Land Type: BLM _____, State _____, Fee _____ Other USFS

Pit Location: Pit dimensions: length 19', width 18', depth 3'

(Attach diagram)

Reference: wellhead X, other _____

Footage from reference: 105'

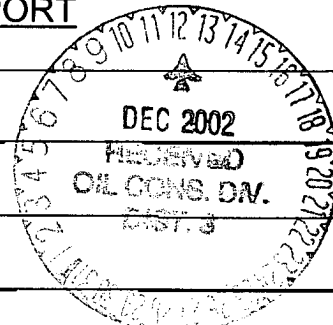
Direction from reference: 37 Degrees X East North _____
of
_____ West South _____

| | | |
|--------------------------|-----------------------|-----------------------|
| Depth To Ground Water | Less than 50 feet | (20 points) |
| (Vertical distance from | 50 feet to 99 feet | (10 points) |
| contaminants to seasonal | Greater than 100 feet | (0 points) <u>10</u> |
| high water elevation of | | |
| ground water.) | | |

| | |
|--|-------------------------|
| Wellhead Protection Area: | Yes (20 points) |
| (Less than 200 feet from a private | No (0 points) <u>0</u> |
| domestic water source, or; less than | |
| 1000 feet from all other water sources.) | |

| | | |
|--|------------------------|-----------------------|
| Distance To Surface Water: | Less than 200 feet | (20 points) |
| (Horizontal distance to perennial | 200 feet to 1000 feet | (10 points) |
| lakes, ponds, rivers, streams, creeks, | Greater than 1000 feet | (0 points) <u>10</u> |
| irrigation canals and ditches.) | | |

RANKING SCORE (TOTAL POINTS): 20



Date Remediation Started: 06/28/94 Date completed: 06/28/94

Remediation Method: Excavation _____ Approx. cubic yards _____
(Check all appropriate sections.) Landfarmed _____ Insitu Bioremediation _____

Other Backfill pit without excavation

Remediation Location: Onsite N/A Offsite N/A
(i.e. landfarmed onsite,
name and location of
offsite facility)

General Description of Remedial Action: Some line markers on location. Pit looked dry. Dug test hole to 12', took
heated head space. PID 003. Closed pit.

Ground Water Encountered: No X Yes _____ Depth _____

Final Pit: Sample location Four walls and center of pit composite

Closure Sampling:
(if multiple samples,
attach sample results
and diagram of sample
locations and depths) Sample depth 12'

Sample Date 06/28/94 Sample time 10:59

Sample Results

Benzene(ppm) <0.025

Total BTEX(ppm) <0.10

Field headspace(ppm) 3

TPH 916

Ground Water Sample: Yes _____ No X (If yes, attach sample results)

I hereby certify that the information above is true and complete to the best of my knowledge and belief.

Date 1/8/03

Signature Scott T. Pope

Printed Name
and Title

Scott T. Pope
Senior Env. Scientist



PIT CLOSURE REQUEST

Valencia Canyon Unit #36
Meter/Line ID 90171

SITE DETAILS

Legals - Twn: 28N

Rng: 4W

Sec: 24

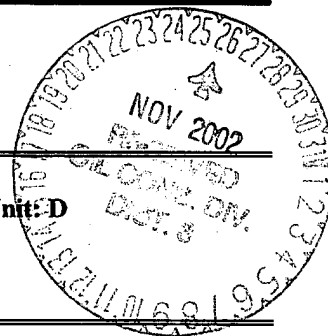
Unit: D

NMOCD Hazard Ranking: 20

Land Type: USFS

Operator: Conoco Mesa Operating

Pit Closure Date: 6/28/94



RATIONALE FOR RISK-BASED CLOSURE

The pit noted above was assessed and ranked according to the criteria in the New Mexico Oil Conservation Division's (NMOCD) Unlined Surface Impoundment Closure Guidelines.

A test pit was excavated to 12 feet (ft) below ground surface (bgs) where a soil sample was collected for field headspace analysis and laboratory analysis for TPH. Groundwater was not encountered in the test pit. Headspace analysis indicated an organic vapor content of 3 ppm; laboratory analysis indicated a benzene concentration of <0.025 mg/kg, a total BTEX concentration of <0.10 mg/kg, and TPH concentration of 916 mg/kg. The TPH measurement exceeded recommended remediation levels for the Hazard Ranking Score of 20.

No soil was disposed of offsite. The pit was backfilled with site soil, topped with clean soil from the surrounding berms, and graded in a manner to direct surface runoff away from the pit area. A weathered rock layer was encountered.

A Phase II boring was completed to refusal at 12 ft bgs. No groundwater was encountered in the soil boring. One laboratory sample was collected at 10-12 ft bgs. Headspace analysis indicated an organic vapor content of 2 ppm; laboratory analysis indicated a benzene concentration of <0.025 mg/kg, a total BTEX concentration of <0.10 mg/kg, and a TPH concentration of 282 mg/kg. The benzene and BTEX concentrations were below recommended remediation levels for the Hazard Ranking Score.

No Phase III activities were conducted.

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

- The primary source, discharge to the pit, has been removed for over eight years.
- Bedrock refusal was met at 12 feet bgs making further excavation impractical.
- The test pit was backfilled and the former pit area graded to direct surface runoff away from the former pit.
- The clean soil from the berms placed on top of the excavation would limit the potential for direct contact with hazardous constituents by livestock or the public; i.e., current direct contact exposure pathways are unlikely to be completed.
- Groundwater was not encountered in the soil boring to 12 ft bgs.
- There are no water supply wells or other sources of fresh water extraction within 1,000 feet of the site.



PIT CLOSURE REQUEST

- The TPH concentration at the bottom of the Phase II boring are approximately 31 percent of the concentration in the sample from the same depth one year earlier, indicating that residual hydrocarbons are degrading by natural attenuation with minimal risk to the environment.

ATTACHMENTS

Field Pit Assessment Form
Revised Field Pit Assessment Form
Field Pit Remediation/Closure Form
Phase II Soil Boring Log
Laboratory Analytical Results

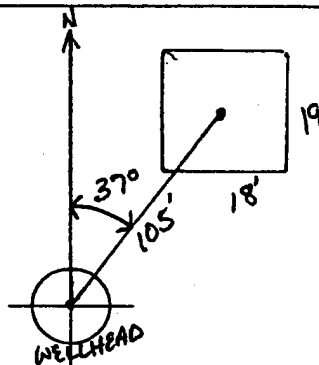
FIELD PIT SITE ASSESSMENT FORM

| | | |
|-----------------|---|--|
| GENERAL | Meter: <u>90171</u> Location: <u>VALENCIA CANYON UNIT #36</u> Operator #: _____ Operator Name: <u>NASSAU RESOURCES</u> P/L District: <u>BLOOMFIELD</u> Coordinates: Letter: <u>D</u> Section <u>24</u> Township: <u>28</u> Range: <u>4</u> Or Latitude _____ Longitude _____ Pit Type: Dehydrator <input checked="" type="checkbox"/> Location Drip: <input checked="" type="checkbox"/> Line Drip: _____ Other: _____ Site Assessment Date: <u>5-28-94</u> Area: <u>10</u> Run: <u>62</u> | |
| | | |
| SITE ASSESSMENT | NMOCD Zone: (From NMOCD Maps) Inside <input checked="" type="checkbox"/> (1) Outside <input type="checkbox"/> (2) Land Type: BLM <input type="checkbox"/> (1) State <input type="checkbox"/> (2) Fee <input type="checkbox"/> (3) Indian <input type="checkbox"/> (4) USFS <input checked="" type="checkbox"/> (4) Depth to Groundwater: Less Than 50 Feet (20 points) <input type="checkbox"/> (1) 50 Ft to 99 Ft (10 points) <input checked="" type="checkbox"/> (2) Greater Than 100 Ft (0 points) <input type="checkbox"/> (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? <input type="checkbox"/> (1) YES (20 points) <input checked="" type="checkbox"/> (2) NO (0 points) Horizontal Distance to Surface Water Body: Less Than 200 Ft (20 points) <input type="checkbox"/> (1) 200 Ft to 1000 Ft (10 points) <input checked="" type="checkbox"/> (2) Greater Than 1000 Ft (0 points) <input type="checkbox"/> (3) Name of Surface Water Body <u>VALENCIA CANYON</u> (Surface Water Body : Perennial Rivers, Major Wash, Streams, Creeks, Irrigation Canals, Ditches, Lakes, Ponds) Distance to Nearest Ephemeral Stream <input type="checkbox"/> (1) < 100' (Navajo Pits Only) <input type="checkbox"/> (2) > 100' TOTAL HAZARD RANKING SCORE: <u>20</u> POINTS | |
| | | |
| REMARKS | Remarks : <u>ONLY PIT ON LOCATION. PIT IS DRY. LOCATION IS IN VALENCIA CANYON IN THE CARSON NATIONAL FOREST. REDLINE AND TORO CONFIRMED LOCATION IS INSIDE V.Z.</u> <div style="text-align: right;">DIG & HAUL</div> | |

ORIGINAL PIT LOCATION

ORIGINAL PIT LOCATION

Original Pit : a) Degrees from North 37° Footage from Wellhead 105'
b) Length : 19' Width : 18' Depth : 3'



REMARKS

Remarks :

TOOK PICTURES AT 11:11 A.M.

DUMP TRUCK - BOBTAIL

Completed By:

Robert Champion

Signature

5.28.94

Date

FIELD PIT REMEDIATION/CLOSURE FORM

GENERAL

Meter: 90171 Location: VALENCIA CANYON UNIT # 36
 Coordinates: Letter: D Section 24 Township: 28 Range: 4
 Or Latitude _____ Longitude _____
 Date Started : 6-28-94 Area: 10 Run: 62

FIELD OBSERVATIONS

Sample Number(s): KP# 112
 Sample Depth: 12' Feet
 Final PID Reading 003 PID Reading Depth 12' Feet
 Yes No
 Groundwater Encountered ☐ (1) ☒ (2) Approximate Depth _____ Feet

CLOSURE

Remediation Method :
 Excavation ☐ (1) Approx. Cubic Yards _____
 Onsite Bioremediation ☐ (2)
 Backfill Pit Without Excavation ☒ (3)
 Soil Disposition: KP 8-1-94
 Envirotech ☐ (1) ☒ (3) Tierra
 Other Facility ☐ (2) Name: _____
 Pit Closure Date: 6-28-94 Pit Closed By: B. E. T.

REMARKS

Remarks : Some line markers on location Pit looked
clay dug test hole to 12' took Heated Hedd' space.
Pit 003 closed Pit.

Signature of Specialist: Kelly Padilla



FIELD SERVICES LABORATORY

ANALYTICAL REPORT

PIT CLOSURE PROJECT - Soil

SAMPLE IDENTIFICATION

SAMPLE NUMBER:

Field ID

Lab ID

MTR CODE | SITE NAME:

SAMPLE DATE | TIME (Hrs):

SAMPLED BY:

DATE OF TPH EXT. | ANAL.:

DATE OF BTEX EXT. | ANAL.:

TYPE | DESCRIPTION:

KP112

945537

90171

N/A

6-28-94

1059

N/A

6-30-94

6/30/94

7/7/94

7/7/94

VG

Dark brown sand / clay

REMARKS:

RESULTS

| PARAMETER | RESULT | UNITS | QUALIFIERS | | | |
|----------------|--------|-------|------------|---|------|-------|
| | | | DF | Q | M(g) | V(ml) |
| BENZENE | <0.025 | MG/KG | 1 | | | |
| TOLUENE | <0.025 | MG/KG | 1 | | | |
| ETHYL BENZENE | <0.025 | MG/KG | 1 | | | |
| TOTAL XYLENES | <0.025 | MG/KG | 1 | | | |
| TOTAL BTEX | <0.10 | MG/KG | | | | |
| TPH (418.1) | 916 | MG/KG | | | 2.02 | 28 |
| HEADSPACE PID | 003.3 | PPM | | | | |
| PERCENT SOLIDS | 71.3 | % | | | | |

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

Proximate Recovery was at 96% for this sample All QA/QC was acceptable.

AT I results attached.

F = Dilution Factor Used

Approved By:

Date:

7/17/94



Analytical Technologies, Inc.

GAS CHROMATOGRAPHY RESULTS

TEST : BTEX (EPA 8020)
CLIENT : EL PASO NATURAL GAS CO. ATI I.D.: 407301
PROJECT # : 24324
PROJECT NAME : PIT CLOSURE

| SAMPLE ID. # | CLIENT I.D. | MATRIX | DATE SAMPLED | DATE EXTRACTED | DATE ANALYZED | DIL. FACTOR |
|--------------|-------------|--------|--------------|----------------|---------------|-------------|
| 07 | 945537 | NON-AQ | 06/28/94 | 07/07/94 | 07/07/94 | 1 |
| 08 | 945538 | NON-AQ | 06/28/94 | 07/07/94 | 07/08/94 | 1 |
| 09 | 945539 | NON-AQ | 06/28/94 | 07/07/94 | 07/07/94 | 20 |

| PARAMETER | UNITS | 07 | 08 | 09 |
|---------------|-------|--------|--------|------|
| BENZENE | MG/KG | <0.025 | <0.025 | <0.5 |
| TOLUENE | MG/KG | <0.025 | <0.025 | 40 |
| ETHYLBENZENE | MG/KG | <0.025 | 0.068 | 3.3 |
| TOTAL XYLENES | MG/KG | <0.025 | 2.1 | 76 |

SURROGATE:

BROMOFLUOROBENZENE (%) 96 96 54*

*OUTSIDE ATI QUALITY CONTROL LIMITS DUE TO MATRIX INTERFERENCE



Page _____ of _____

FM-08-0565A (Rev. 03-94)

RECORD OF SUBSURFACE EXPLORATION

Philip Environmental Services Corp.
4000 Monroe Road
Farmington, New Mexico 87401
(505) 326-2262 FAX (505) 326-2388

Borehole # BH-1
Well # 1
Page 1 of 1

Project Name EPNG Pits
Project Number 14509 Phase 601 6000
Project Location Valencia Canyon, Unit #36
Well Logged By S.Kelly
Personnel On-Site R. Padilla, F. Rivera, D. Chark
Contractors On-Site 90171 2x
Client Personnel On-Site
Drilling Method 4Y4" ID HSA
Air Monitoring Method CGI, PID

Elevation
Borehole Location T28, R4, S. 24, D
GWL Depth
Logged By S. Kelly
Drilled By R. Padilla
Date/Time Started 6/27/95, 1130
Date/Time Completed 6/27/95,

| Depth (Feet) | Sample Number | Sample Interval | Sample Type & Recovery (inches) | Sample Description Classification System: USCS | USCS Symbol | Depth Lithology Change (feet) | Air Monitoring Units: NDU <u>5/H5</u> BZ BH S | | | Drilling Conditions & Blow Counts |
|-----------------|------------------|--------------------|--|---|----------------|--|---|---|--------|--------------------------------------|
| 0 | | | | Backfill to y z' | | | | | | |
| 5 | | | | gray SILT, olive brown, non plastic, dense, damp | | | | | | |
| 10 | 1 | 10'- 12' | | | | | 0 | Z | 0 Z | 1145- may be weathered rock. |
| 15 | | | | BOH 12' | | | | | | |
| 20 | | | | | | | | | | |
| 25 | | | | | | | | | | |
| 30 | | | | | | | | | | |
| 35 | | | | | | | | | | |
| 40 | | | | | | | | | | |

Comments:

10'-12' sample (SEK 24) sent to lab. (PTEX & TPH) Sample was bagged and iced prior to being put in jar. BH frusted to surface.

Geologist Signature

Lawrence Kelly



Page:

White - Testing Laboratory Canary - EPNG Lab Pink - Field Sampler



Phase II - Drilling
Valencia Canyon Unit #36

FIELD SERVICES LABORATORY

ANALYTICAL REPORT

PIT CLOSURE PROJECT - Soil Samples Inside the GWV Zone

SAMPLE IDENTIFICATION

| | Field ID | Lab ID |
|----------------------------|----------|-------------------------|
| SAMPLE NUMBER: | SEK 24 | 94/6929 |
| MTR CODE SITE NAME: | 90171 | N/A |
| SAMPLE DATE TIME (Hrs): | 6-27-95 | 1145 |
| SAMPLED BY: | N/A | |
| DATE OF TPH EXT. ANAL.: | 6/29/95 | 6/29/95 |
| DATE OF BTEX EXT. ANAL.: | 7/5/95 | 7/7/95 |
| TYPE DESCRIPTION: | VG | Light brown Sand & Clay |

REMARKS:

RESULTS

| PARAMETER | RESULT | UNITS | QUALIFIERS | | | |
|----------------|--------|-------|------------|---|------|-------|
| | | | DF | Q | M(g) | V(ml) |
| BENZENE | <0.025 | MG/KG | 1 | | | |
| TOLUENE | <0.025 | MG/KG | 1 | | | |
| ETHYL BENZENE | <0.025 | MG/KG | 1 | | | |
| TOTAL XYLENES | <0.025 | MG/KG | 1 | | | |
| TOTAL BTEX | <0.10 | MG/KG | | | | |
| TPH (418.1) | 282 | MG/KG | | | 2.23 | 28 |
| HEADSPACE PID | 2 | PPM | | | | |
| PERCENT SOLIDS | 86.3 | % | | | | |

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

The Surrogate Recovery was at 99 % for this sample All QA/QC was acceptable.

ative:

All results attached to BTEX and SOIS modified

DF = Dilution Factor Used

Approved By:

Date:

7/17/95



Analytical Technologies, Inc.

GAS CHROMATOGRAPHY RESULTS

TEST : BTEX (EPA 8020)
CLIENT : EL PASO NATURAL GAS CO. ATI I.D.: 506437
PROJECT # : 24324
PROJECT NAME : PIT CLOSURE/PHASE II

| SAMPLE ID. # | CLIENT I.D. | MATRIX | DATE SAMPLED | DATE EXTRACTED | DATE ANALYZED | DIL. FACTOR |
|---------------|-------------|--------|--------------|----------------|---------------|-------------|
| 01 | 946929 | NON-AQ | 06/27/95 | 07/05/95 | 07/07/95 | 1 |
| PARAMETER | | | UNITS | | 01 | |
| BENZENE | | | MG/KG | | <0.025 | |
| TOLUENE | | | MG/KG | | <0.025 | |
| ETHYLBENZENE | | | MG/KG | | <0.025 | |
| TOTAL XYLENES | | | MG/KG | | <0.025 | |

SURROGATE:

BROMOFLUOROBENZENE (%)

99



Analytical Technologies, Inc.

GAS CHROMATOGRAPHY RESULTS

TEST : EPA 8015 MODIFIED
CLIENT : EL PASO NATURAL GAS CO. ATI I.D.: 506437
PROJECT # : 24324
PROJECT NAME : PIT CLOSURE/PHASE II

| SAMPLE ID. # | CLIENT I.D. | MATRIX | DATE SAMPLED | DATE EXTRACTED | DATE ANALYZED | DIL. FACTOR |
|--------------|-------------|--------|--------------|----------------|---------------|-------------|
| 01 | 946929 | NON-AQ | 06/27/95 | 06/30/95 | 06/30/95 | 1 |

| PARAMETER | UNITS | |
|--------------------------------|-------|---------|
| FUEL HYDROCARBONS | MG/KG | 22 |
| HYDROCARBON RANGE | | C14-C34 |
| HYDROCARBONS QUANTITATED USING | | DIESEL |

SURROGATE:

O-TERPHENYL (%) 102