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

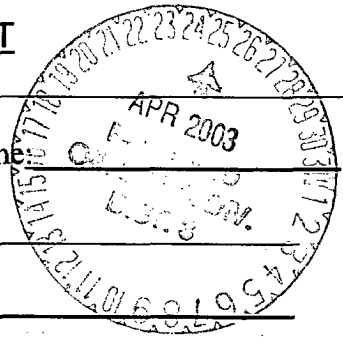
Risk reached bedrock

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

(Revised 3/9/94)

PIT REMEDIATION AND CLOSURE REPORT

30-045-23612



Operator: Dugan Production (*Site Closed by El Paso Field Services*) Telephone:

Address:

Facility Or: Molly Pitcher #1E, Meter 90904
Well Name

Location: Unit or Qtr/Qtr Sec I Sec 14 T 30 R 14 County San Juan

Pit Type: Separator ____ Dehydrator X Other ____

Land Type: BLM X, State ____, Fee ____ Other ____

Pit Location: Pit dimensions: length 14', width 14', depth 2'
(Attach diagram)

Reference: wellhead X, other ____

Footage from reference: 89'

Direction from reference: 63 Degrees X East North ____ of ____ West South ____

Depth To Ground Water (Vertical distance from contaminants to seasonal high water elevation of ground water.)	Less than 50 feet 50 feet to 99 feet Greater than 100 feet	(20 points) (10 points) (0 points) 10
Wellhead Protection Area: (Less than 200 feet from a private domestic water source, or; less than 1000 feet from all other water sources.)	Yes No	(20 points) (0 points) 0
Distance To Surface Water: (Horizontal distance to perennial lakes, ponds, rivers, streams, creeks, irrigation canals and ditches.)	Less than 200 feet 200 feet to 1000 feet Greater than 1000 feet	(20 points) (10 points) (0 points) 0

RANKING SCORE (TOTAL POINTS): 10

Date Remediation Started: 01/25/95 Date completed: 01/25/95

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

Landfarmed _____ Insitu Bioremediation _____

Other Backfill Pit Without Excavation

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

General Description of Remedial Action: No line markers. Dug a test hole, sampled. Hit sandstone at 8'. Closed pit. Pit had a lot of water in it. Had to solidify it.

Ground Water Encountered: No X Yes _____ Depth _____

Final Pit: Closure Sampling: (if multiple samples, attach sample results and diagram of sample locations and depths)

Sample location Four walls and center of pit composite

Sample depth 8'

Sample Date 01/25/95 Sample time 13:33

Sample Results

Benzene(ppm) Not reported

Total BTEX(ppm) Not reported

Field headspace(ppm) 115

TPH 20600

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 4/23/03

Signature Scott T. Pope

Printed Name and Title Scott Pope, Senior Environmental Scientist

elpaso

PIT CLOSURE REQUEST

Molly Pitcher #1 E
Meter/Line ID 90904

SITE DETAILS

Legals - Twn: 30N	**Rng: 14W**	**Sec: 14**	**Unit: I**
NMOCD Hazard Ranking: 10		**Land Type: BLM**	
Operator: Dugan Production Corp.		**Pit Closure Date: 1/25/95**	

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 8 feet (ft) below ground surface (bgs) where sandstone was encountered and a soil sample was collected for field headspace and laboratory analysis for TPH. Groundwater was not encountered in the test pit. Headspace analysis indicated an organic vapor content of 115 ppm; laboratory analysis indicated a TPH concentration of 20,600 mg/kg. The TPH measurement exceeded the recommended remediation level for the Hazard Ranking Score of 10.

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 Phase II boring was terminated at 21 ft bgs where hard drilling occurred. A soil sample was collected at 20-21 for field headspace and laboratory analysis for TPH and total BTEX. No groundwater was encountered in the soil boring. Headspace analysis indicated an organic vapor content of 48 ppm; laboratory analysis indicated a benzene concentration of <0.5 mg/kg, a total BTEX concentration of <3 mg/kg, and a TPH concentration of <20 mg/kg. The benzene, total BTEX and TPH concentrations were below recommended remediation levels for the Hazard Ranking Score of 10.

No Phase III activities were conducted.

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

- The primary source, discharge to the pit, has been removed for over 8 years.
- Bedrock was encountered at 8 feet bgs making additional excavation impractical and further downward migration of contaminants unlikely.
- 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., direct contact exposure pathways are unlikely to be completed.
- Groundwater was not encountered in the soil boring at 21 ft bgs; local geologic features indicate the depth to groundwater is greater than 50 ft bgs.

FIELD PIT SITE ASSESSMENT FORM

GENERAL

Meter: 90904 Location: MOLLY PITCHER #1E
Operator #: _____ Operator Name: DUGAN PROD. P/L District: KUTZ
Coordinates: Letter: I Section 14 Township: 30 Range: 14
Or Latitude _____ Longitude _____
Pit Type: Dehydrator X Location Drip: ___ Line Drip: ___ Other: _____
Site Assessment Date: 1.11.95 Area: 02 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 COTTONWOOD ARROYO
(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: 10 **POINTS**

REMARKS

Remarks : REDLINE SHOWS INSIDE BUT TOPO SHOWS LOCATION OUTSIDE V.Z. 3 PITS ON LOCATION. DEHY PIT BELONGS TO EPNG. WILL CLOSE PIT.

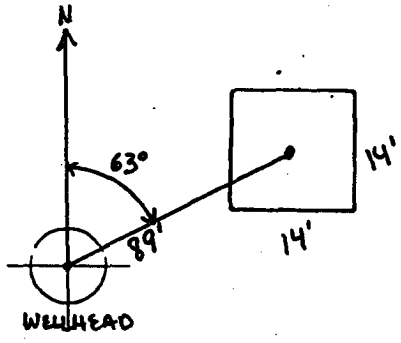
PUSH IN

ORIGINAL PIT LOCATION

ORIGINAL PIT LOCATION

Original Pit : a) Degrees from North 63° Footage from Wellhead 89'

b) Length : 14' Width : 14' Depth : 2'



REMARKS

Remarks :

PHOTOS - 1302

Completed By:

Robert Thompson
Signature

1-11-95
Date

El Paso Natural Gas Company

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

SAMPLE IDENTIFICATION

	Field ID	Lab ID
SAMPLE NUMBER:	KP 393	94597
MTR CODE | SITE NAME:	90904	N/A
SAMPLE DATE | TIME (Hrs):	1-25-95	1333
SAMPLED BY:	N/A	
DATE OF TPH EXT. | ANAL.:	1-28-95	1-28-95
DATE OF BTEX EXT. | ANAL.:		
TYPE | DESCRIPTION:	V6	Brown sand and clay w/ rocks

REMARKS: _____

RESULTS

PARAMETER	RESULT	UNITS	QUALIFIERS			
			DF	Q	M(g)	V(ml)
TPH (418.1)	20600	MG/KG			0.40	28
HEADSPACE PID	115	PPM				
PERCENT SOLIDS	87.1	%				

-- TPH is by EPA Method 418.1 --

Narrative:

DF = Dilution Factor Used

Approved By: J. L Date: 2-22-95

FIELD PIT REMEDIATION/CLOSURE FORM

GENERAL

Meter: 90904 Location: Molly Pitcher # 1E

Coordinates: Letter: I Section 14 Township: 30 Range: 14

Or Latitude _____ Longitude _____

Date Started : 1-25-95 Run: 02 23

FIELD OBSERVATIONS

Sample Number(s): KP 393 _____ _____ _____

Sample Depth: 8' Feet

Final PID Reading 115 (took 1/26/95 as copied from sample jar.) PID Reading Depth 8' Feet

	Yes	No
Groundwater Encountered	☐	☒

Approximate Depth _____ Feet

CLOSURE

Remediation Method :

- Excavation ☐ Approx. Cubic Yards _____
- Onsite Bioremediation ☐
- Backfill Pit Without Excavation ☒

Soil Disposition:

- Envirotech ☐ ☐ Tierra
- Other Facility ☐ Name: _____

Pit Closure Date: 1-25-95 Pit Closed By: B.E.I

REMARKS

Remarks : No line markers. dug A Test hole sampled Hit sand stone At 8'. closed Pit. Pit Had Alot of water in it Had to solidify it.

Signature of Specialist: Kelly Pedilla

(SP3181) 03/16/94

RECORD OF SUBSURFACE EXPLORATION

HILIP SERVICES CORP.
)00 Monroe Road
[redacted] New Mexico 87401
[redacted]262 FAX (505) 326-2388

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

Project Number 19643 Phase 1001.77
Project Name EPFS PITS >10
Project Location Molly Pitcher #1E 90904

Elevation
Borehole Location LTR: I S: 14 T: 30 R: 14
GWL Depth NA
Drilled By K. PADILLA
Well Logged By H. BRADBURY
Date Started 9/8/98
Date Completed 9/8/98

Drilling Method 4 1/4 ID HSA
Air Monitoring Method PID

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										BZ=Breathing Zone BH=Borehole S/HS=Sample/Headspace
5				EXCAVATION SAMPLE COLLECTED AT 8'						
10	1	10-11	6	LT BR SAND, FINE SAND, TR MED, MED DENSE, dry			0	114	321 332	1122 hrs
15	2	15-16	6"	LT BR SANDSTONE, FINE SAND, LOW CEMENTED, DRY			0	227	174 90	1128 hrs HARD drilling
20	3	20-21	6	DK BR SANDSTONE, FINE SAND, LOW CEMENTATION, dry			0	24	153 48	1143 hrs
				TOB 21						
25										
30										
35										
40										

Comments: HAB24 SENT TO LAB FOR TPH, BTEX GW NOT ENCOUNTERED
BH GROUTED TO SURFACE 20'-21'

Geologist Signature Holly Bradbury

8/18/98\Drillog

EL PASO FIELD SERVICES

FIELD SERVICES LABORATORY
ANALYTICAL REPORT
PIT CLOSURE PROJECT

SAMPLE IDENTIFICATION

	Field ID	Lab ID
SAMPLE NUMBER:	HAB24	980625
MTR CODE | SITE NAME:	90904	Molly Pitcher #1E
SAMPLE DATE | TIME (Hrs):	9/8/98	1143
PROJECT:	Phase II Drilling	
DATE OF TPH EXT. | ANAL.:	9/15/98	9/17/98
DATE OF BTEX EXT. | ANAL.:	9/14/98	9/14/98
TYPE | DESCRIPTION:	VG	SOIL

Field Remarks: 20-21'

RESULTS

PARAMETER	RESULT	UNITS	QUALIFIERS			
			DF	Q	M(g)	V(ml)
BENZENE	<0.5	MG/KG				
TOLUENE	<0.5	MG/KG				
ETHYL BENZENE	<0.5	MG/KG				
TOTAL XYLENES	<1.5	MG/KG				
TOTAL BTEX	<3	MG/KG				
TPH (MOD.8015)	<20	MG/KG				
HEADSPACE PID	48	PPM				
PERCENT SOLIDS	92.8	%				

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

The Surrogate Recovery was at 98.3 % for this sample All QA/QC was acceptable.

rative:

DF = Dilution Factor Used

Approved By: John Saldivi Date: 10/1/98