

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

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

(Revised 3/9/94)

*Risk
bedrock
defined
plume*

PIT REMEDIATION AND CLOSURE REPORT

Operator: Marathon Telephone: _____

Address: 30-045-06318

Facility Or: Evenson #2, Meter 72900

Well Name _____

Location: Unit or Qtr/Qtr Sec P Sec 19 T 27 R 10 County San Juan

Pit Type: Separator _____ Dehydrator _____ Other Drip

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

Pit Location: Pit dimensions: length 10', width 10', depth 2'

(Attach diagram)

Reference: wellhead X, other _____

Footage from reference: 50'

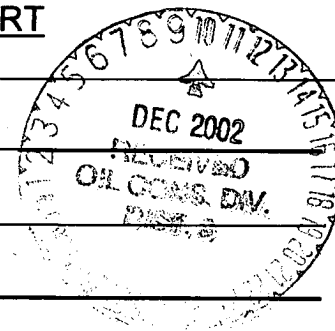
Direction from reference: 290 Degrees X East North _____
of _____ West South _____

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

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

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

RANKING SCORE (TOTAL POINTS): 10



Date Remediation Started: 02/21/95 Date completed: 02/21/95

Remediation Method: Excavation X Approx. cubic yards 20

(Check all appropriate sections.)

Landfarmed _____ Insitu Bioremediation _____

Other _____

Remediation Location: Onsite _____ Offsite Envirotech
(i.e. landfarmed onsite,
name and location of
offsite facility)

General Description of Remedial Action: Arrived, pit had about 1' of water on it. Dug sample hole, excavated. Soil gray, slight hydrocarbon odor. Hit sandstone 2'.

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 2'

Sample Date 02/21/95 Sample time 10:15

Sample Results

Benzene(ppm) 8.45

Total BTEX(ppm) 324

Field headspace(ppm) 183

TPH 2920

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

Evenson 2
Meter/Line ID 72900

SITE DETAILS

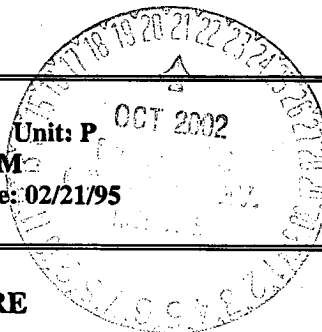
Legals - Twn: 27N
NMOCD Hazard Ranking: 10
Operator: Marathon

Rng:10

Sec:19

Land Type: BLM

Pit Closure Date: 02/21/95



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.

The pit was excavated to 2 feet (ft) below ground surface (bgs) where sandstone was encountered. A soil sample was collected for field headspace analysis and laboratory analysis for BTEX and TPH. Groundwater was not encountered in the test pit. Headspace analysis indicated an organic vapor content of 183 ppm; laboratory analysis indicated a benzene concentration of 8.45 mg/kg, a total BTEX concentration of 324 mg/kg, and a TPH concentration of 2,920 mg/kg. The total BTEX and TPH concentrations exceeded recommended remediation levels for the Hazard Ranking Score of 10.

Approximately 20 cubic yards of soil were excavated and hauled to Envirotech, a commercial landfarm, for treatment and disposal. The pit was backfilled with clean soil and graded in a manner to direct surface runoff away from the pit area.

A Phase II boring was completed to 10 ft bgs. No groundwater was encountered in the soil boring. One laboratory sample was collected at 8-10 ft bgs. Headspace analysis indicated an organic vapor content of 6 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 121 mg/kg. All analyses were below the recommended remediation level for the Hazard Ranking Score of 10.

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 six years.
- The impacted soil was disposed of offsite.
- The test pit was backfilled and the former pit area graded to direct surface runoff away from the former pit.
- Backfilling the pit with clean soil reduces the potential for direct contact with hazardous constituents by livestock or the public; i.e., direct contact exposure pathways are currently incomplete.
- Groundwater was not encountered in the soil boring to 10 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 base of the soil boring at 10 ft bgs of 121 mg/kg only barely exceeded the criterion of 100 mg/kg.
- The TPH concentration at 10 ft bgs is less than 10% of the concentration at 2 ft bgs; BTEX was non-detect at the base of the boring versus 324 mg/kg at 2 ft bgs. These results indicate that significant downward constituent migration is not occurring. Furthermore, this reduction in concentration with depth indicates that residual hydrocarbons in the soil will likely degrade by natural attenuation with minimal risk to the environment.
- Bedrock encountered at 2 ft bgs makes further excavation impractical.

ATTACHMENTS

Field Pit Assessment Form

Revised Field Pit Assessment Form

Field Pit Remediation/Closure Form

Phase 2 Soil Boring Log

Laboratory Analytical Results

FIELD PIT SITE ASSESSMENT FORM

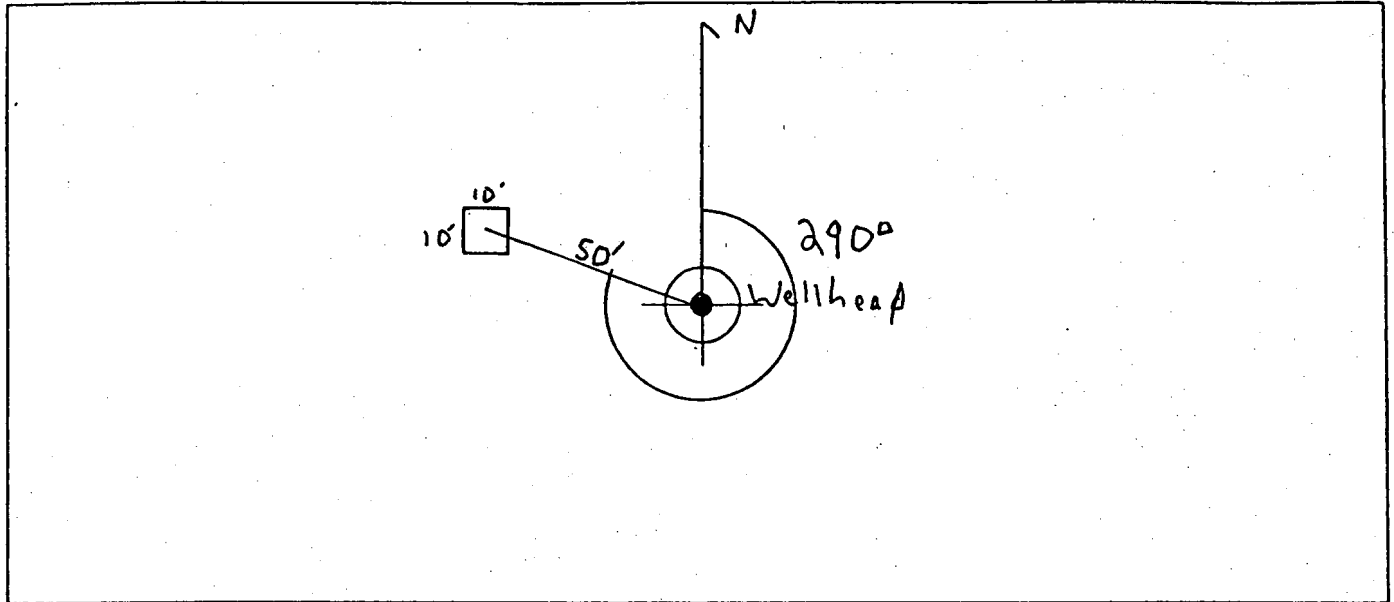
GENERAL	Meter: <u>72900</u> Location: <u>Everson 2</u> Operator #: <u>5860</u> Operator Name: <u>Marathon</u> P/L District: <u>Angel Peak</u> Coordinates: Letter: <u>P</u> Section <u>19</u> Township: <u>27</u> Range: <u>10</u> Or Latitude _____ Longitude _____ Pit Type: Dehydrator _____ Location Drip: <input checked="" type="checkbox"/> Line Drip: _____ Other: _____ Site Assessment Date: <u>1/26/95</u> Area: <u>01</u> Run: <u>53</u>	
SITE ASSESSMENT	NMOCD Zone: (From NMOCD Maps) Inside <input checked="" type="checkbox"/> (1) Outside <input type="checkbox"/> (2)	
	Land Type: BLM <input checked="" type="checkbox"/> (1) State <input type="checkbox"/> (2) Fee <input type="checkbox"/> (3) Indian _____	
	Depth to Groundwater Less Than 50 Feet (20 points) <input checked="" type="checkbox"/> (1) 50 Ft to 99 Ft (10 points) <input 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 checked="" type="checkbox"/> (1) 200 Ft to 1000 Ft (10 points) <input type="checkbox"/> (2) Greater Than 1000 Ft (0 points) <input type="checkbox"/> (3)	
REMARKS	Name of Surface Water Body <u>Kerr 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>40</u> POINTS	
	Remarks : <u>Redline Book: Inside Vulnerable Zone Type: Inside</u> <u>Spills. Close Pit has abundant water in it.</u>	

DIG-HAW

ORIGINAL PIT LOCATION

ORIGINAL PIT LOCATION

Original Pit : a) Degrees from North 290° Footage from Wellhead 50'
b) Length : 10' Width : 10' Depth : 2'



REMARKS

Remarks :

Pictures @ 1038 hr 9-12 call 2Take 1st Right after crossing KUTZ wash & Follow road as on run map.
Road to well head.

Completed By:

Cory Chase
Signature

1/26/95
Date

REVISED
FIELD PIT SITE ASSESSMENT FORM

GENERAL

Meter: 72900 Location: EVENSON 2
Operator #: 5860 Operator Name: MARATHON P/L District: Angel Peak
Coordinates: Letter P Section 19 Township: 27 Range: 10
or Latitude _____ Longitude _____
Pit Type: Dehydrator _____ Location Drip: x Line Drip: _____ Other: _____
Site Assessment Date: 1/26/95 Area: 01 Run: 53
Revised Date: 9/25/02

SITE ASSESSMENT

NMOCD Zone:
(from NMCOD Maps)

Land Type:

BLM	<input checked="" type="checkbox"/> (1)
State	<input type="checkbox"/> (2)
Fee	<input type="checkbox"/> (3)
Indian	_____

Inside ☒ (1)
Outside ☐ (2)

Depth to Groundwater

Less than 50 Feet (20 points) ☐ (1)
50 Feet to 99 Feet (10 Points) ☒ (2)
Greater than 100 Feet (0 Points) ☐ (3)

Well Protection Area

Is it less than 1000 feet from well, spring or other source of fresh water extraction?
or; Is it less than 200 feet from a private domestic water source?

☐ YES (20 Points) ☒ NO (0 Points)

Horizontal Distance to Surface Water Body

Less than 200 Feet (20 points) ☐ (1)
200 Feet to 1000 Feet (10 Points) ☐ (2)
Greater than 1000 Feet (0 Points) ☒ (3)

Name of Surface Water Body KUTZ CANYON

(Surface Water Body: Perennial River, Stream, Creek, Irrigation Canal, Ditch, Lake, Pond)

Distance to Nearest Ephemeral Stream ☐ (1) < 100 feet (Navajo Pits Only)
☐ (2) > 100 feet

TOTAL HAZARD RANKING SCORE 10 **POINTS**

REMARKS

Remarks: REVISION BASED ON RE-ASSESSMENT OF DEPTH TO
GROUNDWATER USING DEFORME SOFTWARE. DISTANCE TO
NEAREST SURFACE WATER WAS ALSO REVISED.



FIELD SERVICES LABORATORY

ANALYTICAL REPORT

PIT CLOSURE PROJECT - Soil Samples Inside the GWV Zone

SAMPLE IDENTIFICATION

	Field ID	Lab ID
SAMPLE NUMBER:	WLC K2 mk 388	946686
MTR CODE SITE NAME:	72900	N/A
SAMPLE DATE TIME (Hrs):	2-21-95	1015
SAMPLED BY:	N/A	
DATE OF TPH EXT. ANAL.:	2-28-95	2-28-95
DATE OF BTEX EXT. ANAL.:	2/26/95	3/3/95
TYPE DESCRIPTION:	VC	Dark gray clay and sand

REMARKS:

RESULTS

PARAMETER	RESULT	UNITS	QUALIFIERS			
			DF	Q	M(g)	V(ml)
BENZENE	8.45	MG/KG	0.57372		4.98	20
TOLUENE	118	MG/KG	I		I	I
ETHYL BENZENE	20.4	MG/KG	I		I	I
TOTAL XYLENES	177	MG/KG				
TOTAL BTEX	324	MG/KG				
TPH (418.1)	2920	MG/KG			2.08	28
HEADSPACE PID	183	PPM				
PERCENT SOLIDS	81.7	%				

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

The Surrogate Recovery was at 90.0 % for this sample All QA/QC was acceptable.
ative:

DF = Dilution Factor Used

18

Date:

3-20-95

BTEX SOIL SAMPLE WORKSHEET

File : 946686B
Soil Mass (g) : 4.98
Extraction vol. (mL) : 20
Shot Volume (uL) : 35

Date Printed : 3/7/95
Multiplier (L/g) : 0.00100
DF (Analytical) : 571.429
DF (Report) : 0.57372

Det. Limit

Benzene (ug/L) :	14.73	Benzene (mg/Kg):	8.451	2.869
Toluene (ug/L) :	205.46	Toluene (mg/Kg):	117.877	2.869
Ethylbenzene (ug/L) :	35.55	Ethylbenzene (mg/Kg):	20.396	2.869
p & m-xylene (ug/L) :	236.21	p & m-xylene (mg/Kg):	135.519	5.737
o-xylene (ug/L) :	72.94	o-xylene (mg/Kg):	41.847	2.869
		Total xylenes (mg/Kg):	177.367	8.606
		Total BTEX (mg/Kg):	324.091	

FIELD PIT REMEDIATION/CLOSURE FORM

GENERAL

Meter: 72900 Location: Evenston #2
 Coordinates: Letter: P Section 19 Township: 27 Range: 10
 Or Latitude _____ Longitude _____
 Date Started : 2-21-95 Run: 01 53

FIELD OBSERVATIONS

Sample Number(s): MK388 _____
 Sample Depth: 2 Feet
 Final PID Reading 183 PID Reading Depth 2 Feet
 Yes No
 Groundwater Encountered ☐ ☐ Approximate Depth _____ Feet

CLOSURE

Remediation Method :
 Excavation ☒ Approx. Cubic Yards 20
 Onsite Bioremediation ☐
 Backfill Pit Without Excavation ☐
 Soil Disposition:
 Envirotech ☒ ☐ Tierra
 Other Facility ☐ Name: _____
 Pit Closure Date: 2-21-95 Pit Closed By: REI

REMARKS

Remarks : Arrived pit Had about 1' of water on it
Dug sample hole EXcavated Soil Gray slight HYDROcarbon
odor Hit sand stone 2'

Signature of Specialist: Morgan Hillen



Page _____ of _____

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

RECORD OF SUBSURFACE EXPLORATION

PHILIP ENVIRONMENTAL

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

Borehole # BH-1

Well #

Page 1 of 1

Project Name EPNG Pits

Project Number 14509 Phase 6000.77

Project Location Everson 2 72900

Elevation

Borehole Location T27, R10, S19, P

GWL Depth

Logged By Jeff W. Kindley

Drilled By G. Sudduth

Date/Time Started 08/28/95 1449

Date/Time Completed 08/28/95 1525

Well Logged By Jeff W. Kindley

Personnel On-Site G. Sudduth, D. Roberts, H. Kell

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			Drilling Conditions & Blow Counts
							BZ	BH	S/H S	
0				Backfill material to 2 feet						
5										
10	1	8-10	17 2.0	SW BR SAND, medium graded, dry, very dense no odch. Boring terminated at 10 feet					%	1505 100 blows per Foot
15										
20										
25										
30										
35										
40										

Comments:

sample collected from 8 to 10 feet (JWK 51). Sample submitted
to lab for analysis of ATEX and TPH. BH grouted to the surface

Geologist Signature

Jeffery Kindley

CHAIN OF CUSTODY RECORD

[illegible]



FIELD SERVICES LABORATORY
ANALYTICAL REPORT

PIT CLOSURE PROJECT - Soil Samples Inside the GWV Zone

SAMPLE IDENTIFICATION

	Field ID	Lab ID
SAMPLE NUMBER:	JWK51	947347
MTR CODE SITE NAME:	72900	Everson 2
SAMPLE DATE TIME (Hrs):	08-28-95	1505
PROJECT:	Phase II Drilling	
DATE OF TPH EXT. ANAL.:	8/29/95	
DATE OF BTEX EXT. ANAL.:	8/30/95	9/3/95
TYPE DESCRIPTION:	V6	Light brown fine sand & clay

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)	1.21	MG/KG			2.0	28
HEADSPACE PID	6	PPM				
PERCENT SOLIDS	93.8	%				

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

The Surrogate Recovery was at 92% for this sample All QA/QC was acceptable.
Narrative:

DF = Dilution Factor Used

9-7-95

BTEX SOIL SAMPLE WORKSHEET

File	:	947347	Date Printed	:	9/6/95
Soil Mass (g)	:	4.99	Multiplier (L/g)	:	0.00100
Extraction vol. (mL)	:	20	DF (Analytical)	:	200
Shot Volume (uL)	:	100	DF (Report)	:	0.20040

				Det. Limit
Benzene (ug/L)	:	0.00	Benzene (mg/Kg):	0.000 0.501
Toluene (ug/L)	:	0.00	Toluene (mg/Kg):	0.000 0.501
Ethylbenzene (ug/L)	:	0.00	Ethylbenzene (mg/Kg):	0.000 0.501
p & m-xylene (ug/L)	:	0.00	p & m-xylene (mg/Kg):	0.000 1.002
o-xylene (ug/L)	:	0.00	o-xylene (mg/Kg):	0.000 0.501
			Total xylenes (mg/Kg):	0.000 1.503
			Total BTEX (mg/Kg):	0.000