

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
Defined
plume

Submit 1 copy to
appropriate
District Office
and 1 copy to
the Santa Fe Office
(Revised 3/9/94)

PIT REMEDIATION AND CLOSURE REPORT

30-045-24/93

Operator: Koch (Site Closed by El Paso Field Services)

Telephone: _____

Address: _____

Facility Or: NM Mansfield #1, Meter 93318

Well Name _____

Location: Unit or Qtr/Qtr Sec E Sec 25 T 30 R 10 County San Juan

Pit Type: Separator _____ Dehydrator X Other _____

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

Pit Location: Pit dimensions: length 22', width 20', depth 4'
(Attach diagram)

Reference: wellhead X, other _____

Footage from reference: 112'

Direction from reference: 58 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>0</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>0</u>
irrigation canals and ditches.)		

RANKING SCORE (TOTAL POINTS): 0

Date Remediation Started: 02/01/95 Date completed: 02/01/95

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: Arrived, took fence down. Dug sample hole. Soil gray sand, strong hydrocarbon odor.

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 7'
Sample Date 02/01/95 Sample time 09:10

Sample Results

Benzene(ppm) Not reported.

Total BTEX(ppm) Not reported.

Field headspace(ppm) 698

TPH 2470

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



PIT CLOSURE REQUEST

NM Mansfield #1
Meter/Line ID 93318

SITE DETAILS

Legals - Twn: 30N

Rng: 10W

Sec: 25

Unit: E

NMOCD Hazard Ranking: 0

Land Type: BLM

Operator: Koch Exploration Company

Pit Closure Date: 2/1/95

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 7 feet (ft) below ground surface (bgs) 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 698 ppm; laboratory analysis indicated a TPH concentration of 2,470 mg/kg. All measurements were within recommended remediation levels for the Hazard Ranking Score of 0.

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 completed with auger refusal (sandstone) at 28 ft bgs. A soil sample was collected at 25-26 for field headspace and laboratory analysis for TPH and BTEX. No groundwater was encountered in the soil boring. Headspace analysis indicated an organic vapor content of 54 ppm, laboratory analysis indicated a benzene concentration of 1.42 mg/kg, a total BTEX concentration of 16.3 mg/kg, and a TPH concentration of 28 mg/kg. The benzene, total BTEX and TPH concentrations were below recommended remediation levels for the Hazard Ranking Score of 0.

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.
- All analytical samples collected at this site were below recommended remediation levels.
- 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 28 ft bgs; local geologic features indicate the depth to groundwater is greater than 100 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

- Benzene, total BTEX, and TPH concentrations in the soil sample collected at the base of the Phase II soil boring at 28 ft bgs were non-detect, indicating that no significant downward constituent migration is occurring.
- Residual hydrocarbons, if any, in the soil will likely degrade 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

REVISED
FIELD PIT SITE ASSESSMENT FORM

GENERAL

Meter: 93318 Location: NM MANSFIELD #1
Operator #: 5540 Operator Name: KOLH P/L District: BLOOMFIELD
Coordinates: Letter E Section 25 Township: 30 Range: _____
or Latitude _____ Longitude _____
Pit Type: Dehydrator ☒ Location Drip: _____ Line Drip: _____ Other: _____
Site Assessment Date: 1-16-95 Area: 10 Run: 83
Revised Date: 1-27-03

SITE ASSESSMENT

NMOCD Zone:

(from NMCOD Maps)

Land Type:

Inside ☐ (1)
Outside ☒ (2)

BLM ☒ (1)
State ☐ (2)
Fee ☐ (3)
Indian _____

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 VALA 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 0 **POINTS**

REMARKS

Remarks: REVISION BASED ON REASSESSMENT OF THE
DEPTH TO GROUNDWATER.

REVISED
FIELD PIT SITE ASSESSMENT FORM

GENERAL

Meter: 93318 Location: NM Mansfield #1
 Operator #: _____ Operator Name: _____ P/L District: _____
 Coordinates: Letter: E Section 25 Township: 30 Range: 10
 Or Latitude _____ Longitude _____
 Pit Type: Dehydrator _____ Location Drip: _____ Line Drip: _____ Other: _____
 Site Assessment Date: 4/13/98 Area: _____ Run: _____

SITE ASSESSMENT

NMOCD Zone: (From NMOCD Maps)	Land Type:	BLM	<input checked="" type="checkbox"/> (1)	
		State	<input type="checkbox"/> (2)	
		Fee	<input type="checkbox"/> (3)	
Inside <input type="checkbox"/> (1)	Outside <input checked="" type="checkbox"/> (2)	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 _____

(Surface Water Body: Perennial Rivers, 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 : Site has been re-assessed, due to initial assessment including washes as a Surface Water Body. Site is <100' vertical from center of Vaca Canyon

FIELD PIT SITE ASSESSMENT FORM

GENERAL

Meter: 93318 Location: NM Mansfield
 Operator #: 5540 Operator Name: Koch P/L District: Bloomfield
 Coordinates: Letter: E Section 25 Township: 30 Range: 10
 Or Latitude _____ Longitude _____
 Pit Type: Dehydrator ☒ Location Drip: _____ Line Drip: _____ Other: _____
 Site Assessment Date: 1/16/95 Area: 10 Run: 83

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 Vaca 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: 20 POINTS

REMARKS

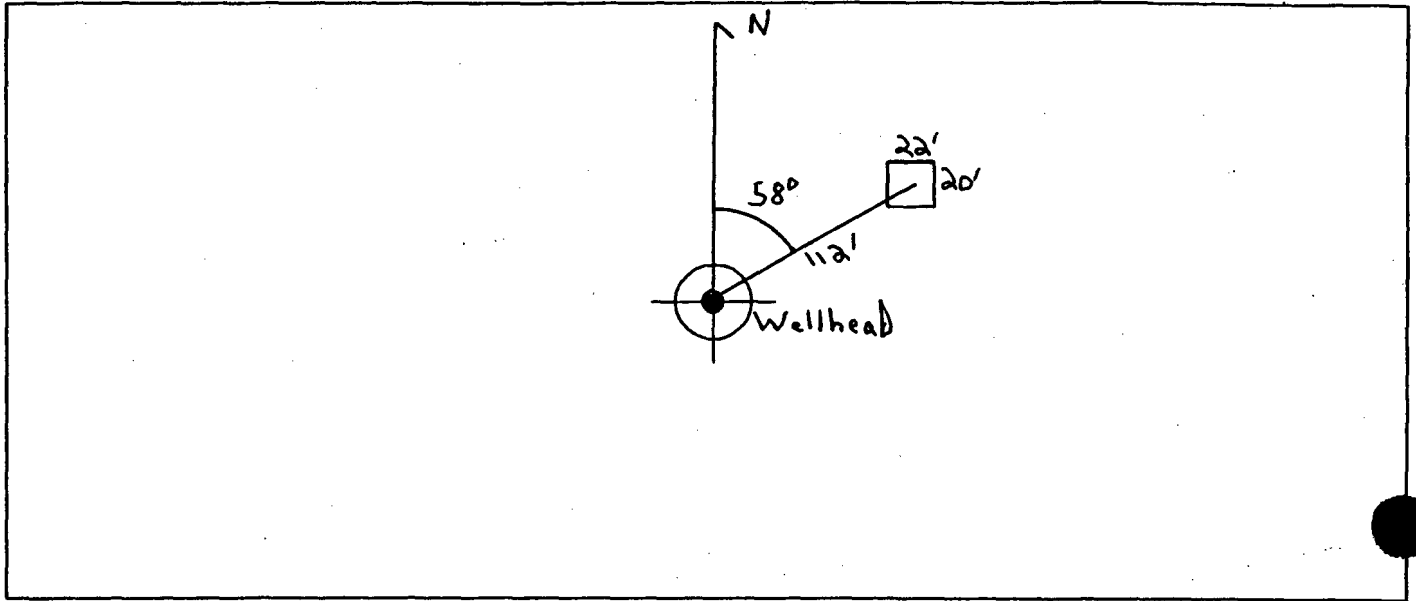
Remarks : Redline Book: Inside Vulnerable Zone Type: Outside
3 pits. Close.

PUSH-IN

ORIGINAL PIT LOCATION

ORIGINAL PIT LOCATION

Original Pit : a) Degrees from North 58° Footage from Wellhead 112'
b) Length : 22' Width : 20' Depth : 4'



REMARKS

Remarks :

Pictures @ 0957 hr 14-17 call 1

Completed By:

Cory Chase
Signature

1/16/95
Date