

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

30-045-24384

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

Telephone: _____

Address: _____

Facility Or: Mansfield E1, Meter 93575

Well Name _____

Location: Unit or Qtr/Qtr Sec B 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 23', width 23', depth 3'

(Attach diagram)

Reference: wellhead X, other _____

Footage from reference: 66'

Direction from reference: 57 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 brown, strong hydro-
carbon odor. Hit sandstone 4'.

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 4'

Sample Date 02/01/95 Sample time 08:10

Sample Results

Benzene(ppm) Not reported.

Total BTEX(ppm) Not reported.

Field headspace(ppm) 633

TPH 4350

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

Mansfield E1
Meter/Line ID 93575

SITE DETAILS

Legals - Twn: 30N	Rng: 10W	Sec: 25	Unit: B
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 4 feet (ft) below ground surface (bgs) where sandstone was encountered and a soil sample was collected field headspace and laboratory analysis for TPH. Groundwater was not encountered in the test pit. Headspace analysis indicated an organic vapor content of 633 ppm; laboratory analysis indicated a TPH concentration of 4,350 mg/kg. The TPH measurement was below the recommended remediation level 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 hard drilling at 46 ft bgs. A soil sample was collected at 45-46 ft bgs 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 24 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 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.
- Sandstone was encountered at 4 feet bgs making further excavation impractical.
- All analytical results for samples collected from this site were below recommended remediation levels for the Hazard Ranking Score of 0.
- 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 45 ft bgs; local geologic features indicate the depth to groundwater is greater than 50 ft bgs.



PIT CLOSURE REQUEST

- Benzene, total BTEX, and TPH concentrations in the soil sample collected at the base of the Phase II soil boring at 46 ft bgs were non-detect.
- 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	<p>Meter: <u>93575</u> Location: <u>MANSFIELD E-1</u></p> <p>Operator #: <u>5540</u> Operator Name: <u>KOLIN</u> P/L District: <u>BLOOMFIELD</u></p> <p>Coordinates: Letter <u>D</u> Section <u>25</u> Township: <u>30</u> Range: <u>10</u></p> <p style="padding-left: 40px;">or Latitude _____ Longitude _____</p> <p>Pit Type: Dehydrator <input checked="" type="checkbox"/> Location Drip: _____ Line Drip: _____ Other: _____</p> <p>Site Assessment Date: <u>1-16-95</u> Area: <u>10</u> Run: <u>83</u></p> <p>Revised Date: <u>1-27-03</u></p>												
SITE ASSESSMENT	<p>NMOCD Zone: (from NMCOD Maps)</p> <p style="text-align: right;">Land Type:</p> <table style="width: 100%;"><tr><td style="width: 40%;">BLM</td><td style="width: 10%;"><input checked="" type="checkbox"/></td><td style="width: 50%;">(1)</td></tr><tr><td>State</td><td><input type="checkbox"/></td><td>(2)</td></tr><tr><td>Fee</td><td><input type="checkbox"/></td><td>(3)</td></tr><tr><td>Indian</td><td colspan="2">_____</td></tr></table> <p style="margin-left: 40px;">Inside <input type="checkbox"/> (1)</p> <p style="margin-left: 40px;">Outside <input checked="" type="checkbox"/> (2)</p> <p>Depth to Groundwater</p> <p>Less than 50 Feet (20 points) <input type="checkbox"/> (1)</p> <p>50 Feet to 99 Feet (10 Points) <input type="checkbox"/> (2)</p> <p>Greater than 100 Feet (0 Points) <input checked="" type="checkbox"/> (3)</p> <p>Well Protection Area</p> <p>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?</p> <p style="text-align: right;"><input type="checkbox"/> YES (20 Points) <input checked="" type="checkbox"/> NO (0 Points)</p> <p>Horizontal Distance to Surface Water Body</p> <p>Less than 200 Feet (20 points) <input type="checkbox"/> (1)</p> <p>200 Feet to 1000 Feet (10 Points) <input type="checkbox"/> (2)</p> <p>Greater than 1000 Feet (0 Points) <input checked="" type="checkbox"/> (3)</p> <p>Name of Surface Water Body _____</p> <p><i>(Surface Water Body: Perennial River, Stream, Creek, Irrigation Canal, Ditch, Lake, Pond)</i></p> <p>Distance to Nearest Ephemeral Stream <input type="checkbox"/> (1) < 100 feet (Navajo Pits Only)</p> <p style="margin-left: 400px;"><input type="checkbox"/> (2) > 100 feet</p> <p>TOTAL HAZARD RANKING SCORE <u>0</u> POINTS</p>	BLM	<input checked="" type="checkbox"/>	(1)	State	<input type="checkbox"/>	(2)	Fee	<input type="checkbox"/>	(3)	Indian	_____	
BLM	<input checked="" type="checkbox"/>	(1)											
State	<input type="checkbox"/>	(2)											
Fee	<input type="checkbox"/>	(3)											
Indian	_____												
REMARKS	<p>Remarks: <u>REVISION BASED ON REASSESSMENT OF THE</u></p> <p style="padding-left: 40px;"><u>DEPTH TO GROUNDWATER.</u></p>												

REVISED
FIELD PIT SITE ASSESSMENT FORM

GENERAL	<p>Meter: <u>93575</u> Location: <u>Mansfield E1</u></p> <p>Operator #: _____ Operator Name: _____ P/L District: _____</p> <p>Coordinates: Letter: <u>B</u> Section <u>25</u> Township: <u>30</u> Range: <u>10</u></p> <p>Or Latitude _____ Longitude _____</p> <p>Pit Type: Dehydrator _____ Location Drip: _____ Line Drip: _____ Other: _____</p> <p>Site Assessment Date: <u>4/13/98</u> Area: _____ Run: _____</p>
SITE ASSESSMENT	<p>NMOCD Zone: (From NMOCD Maps)</p> <p style="margin-left: 100px;">Inside <input type="checkbox"/> (1) Outside <input checked="" type="checkbox"/> (2)</p> <p>Land Type:</p> <p style="margin-left: 100px;">BLM <input checked="" type="checkbox"/> (1) State <input type="checkbox"/> (2) Fee <input type="checkbox"/> (3) Indian _____</p> <p>Depth to Groundwater</p> <p>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)</p> <p>Wellhead Protection Area</p> <p>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?</p> <p style="text-align: center;"><input type="checkbox"/> (1) YES (20 points) <input checked="" type="checkbox"/> (2) NO (0 points)</p> <p>Horizontal Distance to Surface Water Body</p> <p>Less Than 200 Ft (20 points) <input type="checkbox"/> (1) 200 Ft to 1000 Ft (10 points) <input type="checkbox"/> (2) Greater Than 1000 Ft (0 points) <input checked="" type="checkbox"/> (3)</p> <p>Name of Surface Water Body _____</p> <p>(Surface Water Body: Perennial Rivers, Streams, Creeks, Irrigation Canals, Ditches, Lakes, Ponds)</p> <p>Distance to Nearest Ephemeral Stream <input type="checkbox"/> (1) < 100' (Navajo Pits Only) <input type="checkbox"/> (2) > 100'</p> <p>TOTAL HAZARD RANKING SCORE: <u>10</u> POINTS</p>
REMARKS	<p>Remarks : <u>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</u></p>

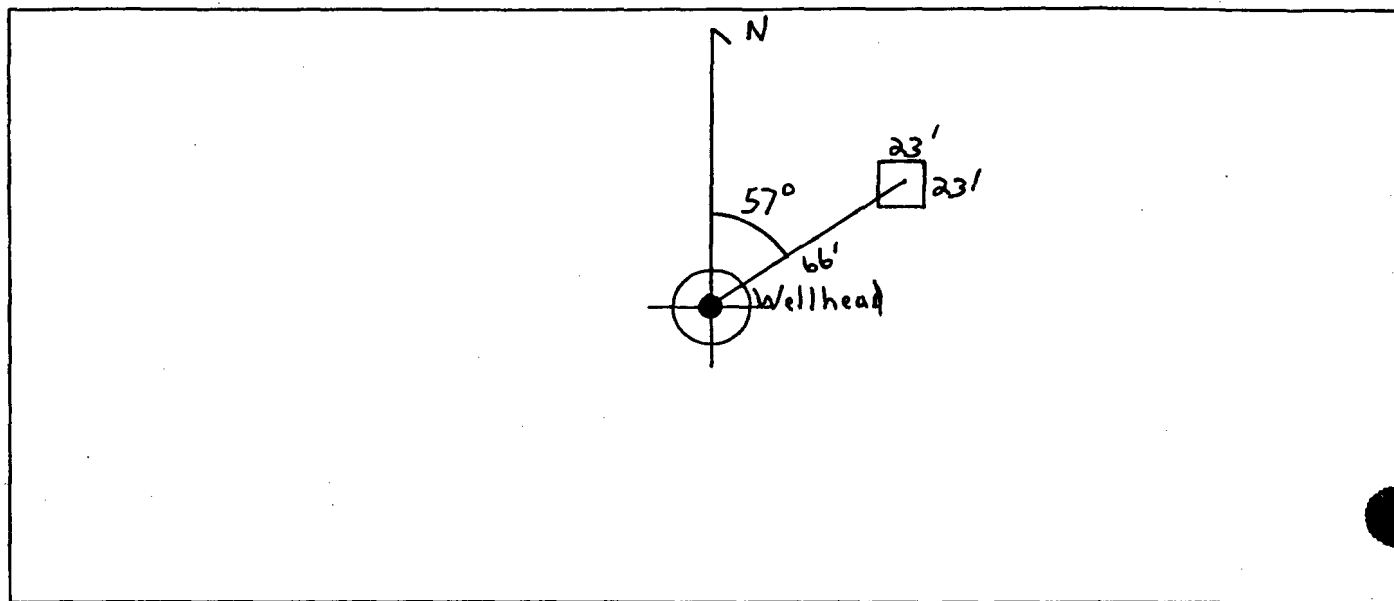
FIELD PIT SITE ASSESSMENT FORM

GENERAL	<p>Meter: <u>93575</u> Location: <u>Mang-Field E-1</u></p> <p>Operator #: <u>5540</u> Operator Name: <u>KOCH</u> P/L District: <u>Bloomfield</u></p> <p>Coordinates: Letter: <u>B</u> Section <u>25</u> Township: <u>30</u> Range: <u>10</u></p> <p>Or Latitude _____ Longitude _____</p> <p>Pit Type: Dehydrator <input checked="" type="checkbox"/> Location Drip: _____ Line Drip: _____ Other: _____</p> <p>Site Assessment Date: <u>1/16/95</u> Area: <u>10</u> Run: <u>83</u></p>
SITE ASSESSMENT	<p>NMOCD Zone: (From NMOCD Maps)</p> <p>Inside <input type="checkbox"/> (1)</p> <p>Outside <input checked="" type="checkbox"/> (2)</p> <p>Land Type: BLM <input checked="" type="checkbox"/> (1)</p> <p>State <input type="checkbox"/> (2)</p> <p>Fee <input type="checkbox"/> (3)</p> <p>Indian _____</p> <p>Depth to Groundwater</p> <p>Less Than 50 Feet (20 points) <input type="checkbox"/> (1)</p> <p>50 Ft to 99 Ft (10 points) <input checked="" type="checkbox"/> (2)</p> <p>Greater Than 100 Ft (0 points) <input type="checkbox"/> (3)</p> <p>Wellhead Protection Area :</p> <p>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)</p> <p>Horizontal Distance to Surface Water Body</p> <p>Less Than 200 Ft (20 points) <input type="checkbox"/> (1)</p> <p>200 Ft to 1000 Ft (10 points) <input checked="" type="checkbox"/> (2)</p> <p>Greater Than 1000 Ft (0 points) <input type="checkbox"/> (3)</p> <p>Name of Surface Water Body <u>Vaca Canyon (off of San Juan R.)</u></p> <p>(Surface Water Body : Perennial Rivers, Major Wash, Streams, Creeks, Irrigation Canals, Ditches, Lakes, Ponds)</p> <p>Distance to Nearest Ephemeral Stream <input type="checkbox"/> (1) < 100' (Navajo Pits Only)</p> <p><input type="checkbox"/> (2) > 100'</p> <p>TOTAL HAZARD RANKING SCORE: <u>20</u> POINTS</p>
REMARKS	<p>Remarks : <u>Redline Book: Inside</u> <u>Vulnerable Zone Top: Outside</u></p> <p><u>3 pits. Close 1.</u></p> <p><u>PVSH-IN</u></p>

ORIGINAL PIT LOCATION

ORIGINAL PIT LOCATION

Original Pit : a) Degrees from North 57° Footage from Wellhead 66'
b) Length : 23' Width : 23' Depth : 3'



REMARKS

Remarks :

Pictures @ 1017 hr 18-21 roll 1

Completed By:

Cory Chase
Signature

1/16/95
Date