

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

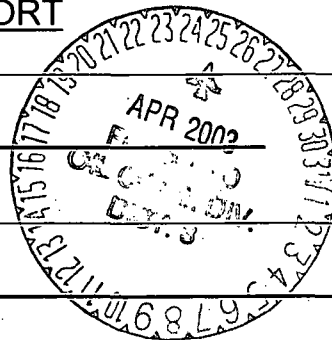
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Submit 1 copy to
appropriate
District Office
and 1 copy to
the Santa Fe Office

(Revised 3/9/94)

PIT REMEDIATION AND CLOSURE REPORT

30-045-20386



Operator: Amoco (Site Closed by El Paso Field Services) Telephone: _____

Address: _____

Facility Or: Florance 107 FT, Meter 87018

Well Name _____

Location: Unit or Qtr/Qtr Sec E Sec 8 T 30 R 9 County San Juan

Pit Type: Separator _____ Dehydrator _____ Other Drip

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

Pit Location: Pit dimensions: length 14', width 13', depth 3'

(Attach diagram)

Reference: wellhead X, other _____

Footage from reference: 68'

Direction from reference: 294 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>0</u>
irrigation canals and ditches.)		

RANKING SCORE (TOTAL POINTS): 40

Date Remediation Started: 05/10/94 Date completed: 05/10/94

Remediation Method: Excavation X Approx. cubic yards 30
(Check all appropriate sections.) Landfarmed _____ Insitu Bioremediation _____
Other _____

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

General Description of Remedial Action: No line markers. Pit looked dry. Dug down 8'. Sample PID 114. Soil still
light gray. Dug down to 10'. Soil got light brown. PID 024.

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 10'

Sample Date 05/10/94 Sample time 13:45

Sample Results

Benzene(ppm) <0.025

Total BTEX(ppm) 0.145

Field headspace(ppm) 024

TPH 1580

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

4/24/03

Signature

Scott T. Pope

Printed Name
and Title

Scott Pope, Senior Environmental Scientist



PIT CLOSURE REQUEST

Florance #107 FT
Meter/Line ID 87018

SITE DETAILS

Legals - Twn: 30N	Rng: 9W	Sec: 8	Unit: E
NMOCD Hazard Ranking: 10		Land Type: BLM	
Operator: Amoco Production Company		Pit Closure Date: 5/10/94	

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 10 feet (ft) below ground surface (bgs) and a soil sample was collected for field headspace and laboratory analysis for TPH and BTEX. Groundwater was not encountered in the test pit. Headspace analysis indicated an organic vapor content of 24 ppm; laboratory analysis indicated a benzene concentration of <0.025 mg/kg, a total BTEX concentration of 0.145 mg/kg, and a TPH concentration of 1,580 mg/kg. The TPH measurement exceeded the recommended remediation levels for the Hazard Ranking Score of 10.

Approximately 30 cubic yards of soil were excavated and hauled to Tierra, 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 terminated 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 18 ppm; laboratory analysis indicated a benzene concentration of <0.025 mg/kg, a total BTEX concentration of 0.335 mg/kg, and a TPH concentration of 9,970 mg/kg. The benzene and total BTEX 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.
- The impacted soil was excavated to the practical extent of the equipment and 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 eliminated the potential for direct contact with hazardous constituents by livestock or the public; i.e., direct contact exposure pathways are incomplete.
- Groundwater was not encountered in the soil boring at 12 ft bgs; local geologic features indicate the depth to groundwater is greater than 50 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 and BTEX measurements from the soil sample at the base of Phase II soil boring at 12 ft bgs were below recommended remediation levels for the Hazard Ranking Score.
- Residual hydrocarbons in the soil appear to consist predominantly of the less mobile constituents.
- Residual hydrocarbons in the soil will likely degrade by natural attenuation with minimal risk to the environment.

ATTACHMENTS

Field Pit Assessment Form

Revised Field Pit Assessment Forms

Field Pit Remediation/Closure Form

Phase II Soil Boring Log

Laboratory Analytical Results

REVISED
FIELD PIT SITE ASSESSMENT FORM

GENERAL	<p>Meter: <u>87018</u> Location: <u>FURNACE # 107 F.T.</u></p> <p>Operator #: <u>0203</u> Operator Name: <u>AMMO</u> P/L District: _____</p> <p>Coordinates: Letter <u>E</u> Section <u>8</u> Township: <u>30</u> Range: <u>9</u></p> <p style="padding-left: 40px;">or Latitude _____ Longitude _____</p> <p>Pit Type: Dehydrator _____ Location Drip: <u>X</u> Line Drip: _____ Other: _____</p> <p>Site Assessment Date: <u>4/19/94</u> Area: <u>10</u> Run: <u>3</u></p> <p>Revised Date: <u>4/23/03</u></p>
SITE ASSESSMENT	<p>NMOCOD Zone: (from NMOCOD Maps)</p> <p style="text-align: right;">Land Type:</p> <div style="display: flex; justify-content: space-between;"> <div> <p>Inside <input checked="" type="checkbox"/> (1)</p> <p>Outside <input type="checkbox"/> (2)</p> </div> <div> <p>BLM <input checked="" type="checkbox"/> (1)</p> <p>State <input type="checkbox"/> (2)</p> <p>Fee <input type="checkbox"/> (3)</p> <p>Indian _____</p> </div> </div> <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 checked="" type="checkbox"/> (2)</p> <p>Greater than 100 Feet (0 Points) <input 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: center;"><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 <u>CASHILO CANYON</u></p> <p>(Surface Water Body: Perennial River, Stream, Creek, Irrigation Canal, Ditch, Lake, Pond)</p> <p>Distance to Nearest Ephemeral Stream <input type="checkbox"/> (1) < 100 feet (Navajo Pits Only)</p> <p style="padding-left: 100px;"><input type="checkbox"/> (2) > 100 feet</p> <p>TOTAL HAZARD RANKING SCORE <u>10</u> POINTS</p>
REMARKS	<p>Remarks: _____</p> <p>_____</p> <p>_____</p>

4.24.94
RT

Revised

FIELD PIT SITE ASSESSMENT FORM

GENERAL	<p>Meter: <u>87018</u> Location: <u>FLORANCE # 102 FT</u></p> <p>Operator #: _____ Operator Name: _____ P/L District: _____</p> <p>Coordinates: Letter: _____ Section _____ Township: _____ Range: _____</p> <p>Or Latitude _____ Longitude _____</p> <p>Pit Type: Dehydrator _____ Location Drip: _____ Line Drip: _____ Other: _____</p> <p>Site Assessment Date: _____ Area: <u>10</u> Run: <u>33</u></p>
	<p>NMOCD Zone: (From NMOCD Maps)</p> <p>Land Type: BLM <input type="checkbox"/> (1) State <input type="checkbox"/> (2) Fee <input type="checkbox"/> (3) Indian _____</p> <p>Inside <input type="checkbox"/> (1) Outside <input type="checkbox"/> (2)</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? <input type="checkbox"/> (1) YES (20 points) <input 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 checked="" type="checkbox"/> (2) Greater Than 1000 Ft (0 points) <input type="checkbox"/> (3)</p> <p>Name of Surface Water Body <u>CABALLO CANYON</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) <input type="checkbox"/> (2) > 100'</p> <p>TOTAL HAZARD RANKING SCORE: <u>20</u> POINTS</p>
REMARKS	<p>Remarks : _____</p> <p>_____</p> <p>_____</p>

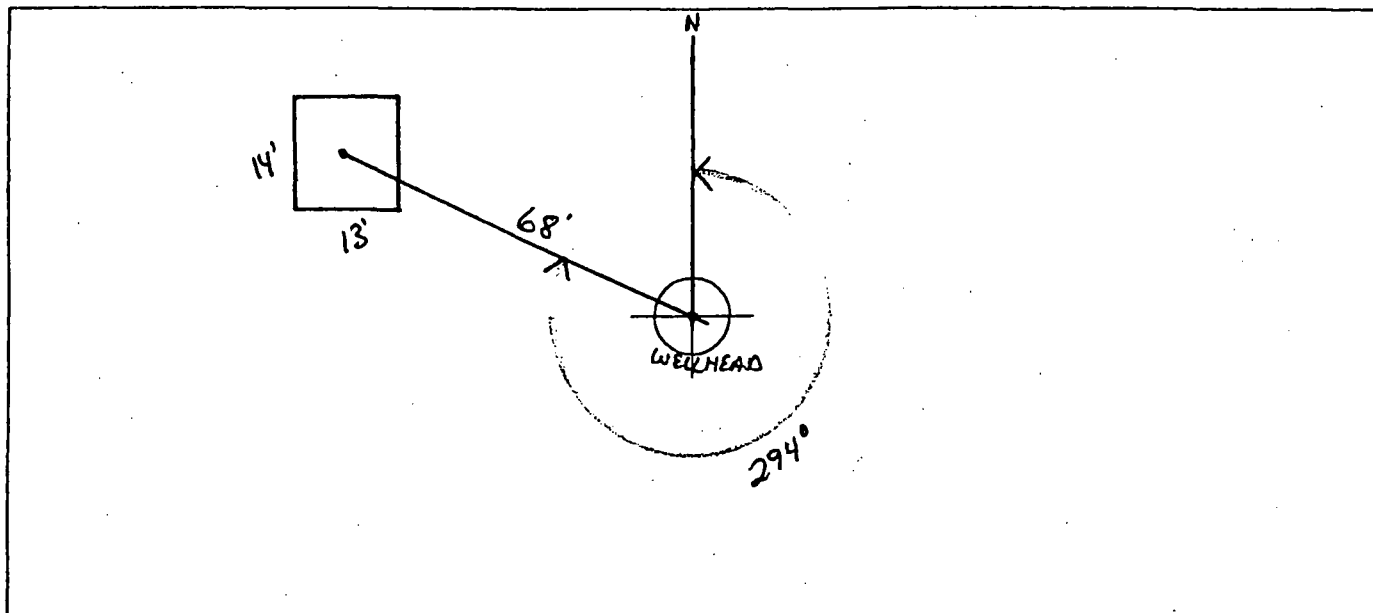
FIELD PIT SITE ASSESSMENT FORM

GENERAL	<p>Meter: <u>97018</u> Location: <u>FLORANCE #107</u> FT</p> <p>Operator #: <u>0203</u> Operator Name: <u>Amoco</u> P/L District: <u>BLOOMFIELD</u></p> <p>Coordinates: Letter: <u>E</u> Section <u>8</u> Township: <u>30</u> Range: <u>9</u></p> <p>Or Latitude _____ Longitude _____</p> <p>Pit Type: Dehydrator _____ Location Drip: <u>X</u> Line Drip: _____ Other: _____</p> <p>Site Assessment Date: <u>4-19-94</u> Area: <u>10</u> Run: <u>33</u></p>						
	<table border="0"> <tr> <td data-bbox="191 730 464 865"> NMOCD Zone: (From NMOCD Maps) </td> <td data-bbox="565 827 704 911"> Inside Outside </td> <td data-bbox="876 819 997 911"> <input checked="" type="checkbox"/> (1) <input type="checkbox"/> (2) </td> <td data-bbox="899 730 1127 772"> Land Type: </td> <td data-bbox="1182 730 1256 911"> BLM State Fee Indian </td> <td data-bbox="1331 722 1458 861"> <input checked="" type="checkbox"/> (1) <input type="checkbox"/> (2) <input type="checkbox"/> (3) </td> </tr> </table> <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 type="checkbox"/> (2)</p> <p>Greater Than 100 Ft (0 points) <input checked="" 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 type="checkbox"/> (2)</p> <p>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, 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>0</u> POINTS</p>		NMOCD Zone: (From NMOCD Maps)	Inside Outside	<input checked="" type="checkbox"/> (1) <input type="checkbox"/> (2)	Land Type:	BLM State Fee Indian
NMOCD Zone: (From NMOCD Maps)	Inside Outside	<input checked="" type="checkbox"/> (1) <input type="checkbox"/> (2)	Land Type:	BLM State Fee Indian	<input checked="" type="checkbox"/> (1) <input type="checkbox"/> (2) <input type="checkbox"/> (3)		
REMARKS	<p>Remarks : <u>TWO PITS ON LOCATION. WILL CLOSE BOTH OF THEM. PITS ARE DRY. DO NOT KNOW WHY LOCATION IS IN THE WATER VULNERABLE ZONE.</u></p>						

ORIGINAL PIT LOCATION

ORIGINAL PIT LOCATION

Original Pit : a) Degrees from North 294° Footage from Wellhead 68'
b) Length : 14' Width : 13' Depth : 3'



REMARKS

Remarks :

STARTED TAKING PICTURES AT 2:12 P.M.

END DUMP

Completed By:

Robert Thompson

Signature

4-19-94

Date