

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
220 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)

PIT REMEDIATION AND CLOSURE REPORT

Operator: Amoco by EPFS Telephone 30-045-20978

Address: _____

Facility Or: Valencia Gas Com C#1, Meter 87491

Well Name _____

Location: Unit or Qtr/Qtr Sec O Sec 18 T 29 R 9 County San Juan

Pit Type: Separator _____ Dehydrator _____ Other Drip

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

Pit Location: Pit dimensions: length 15', width 13', depth 2'

(Attach diagram)

Reference: wellhead X, other _____

Footage from reference: 156'

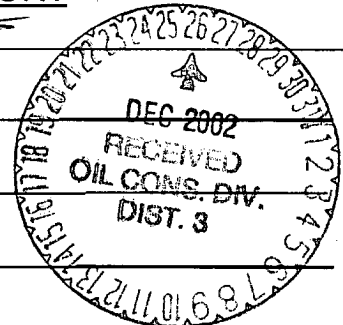
Direction from reference: 261 Degrees X East North _____
of
_____ West South _____

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>10</u>
irrigation canals and ditches.)		

RANKING SCORE (TOTAL POINTS): 20



Date Remediation Started: 05/23/94 Date completed: _____

Remediation Method: Excavation X Approx. cubic yards 230

(Check all appropriate
actions.)

Landfarmed _____ Insitu Bioremediation _____

Other _____

Remediation Location: Onsite _____ Offsite Tierra

(i.e. landfarmed onsite,
name and location of
offsite facility)

General Description of Remedial Action: Excavated pit to 12'. Hit cobble layer at 6', continued on to 12'. Took PID

Sample, closed pit.

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 12'

Sample Date 05/23/94 Sample time 09:30

Sample Results

Benzene(ppm) <0.62

Total BTEX(ppm) 47

Field headspace(ppm) 496

TPH 1280

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 Scott T. Pope
and Title Senior Env. Scientist



PIT CLOSURE REQUEST

Valencia Gas Com C #1
Meter/Line ID 87491

SITE DETAILS

Legals - Twn: 29N

Rng: 9W

Sec: 18

Unit: O

NMOCD Hazard Ranking: 20

Land Type: FEE

Operator: Amoco Production Company

Pit Closure Date: 5/23/94

RATIONALE FOR 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 12 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 496 ppm, laboratory analysis indicated a benzene concentration of <0.62 mg/kg, a total BTEX concentration of 47 mg/kg, and a TPH concentration of 1,280 mg/kg. The TPH measurement exceeded recommended remediation levels for the Hazard Ranking Score of 20.

Approximately 50 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 completed with refusal at 12 ft bgs. No groundwater was encountered in the soil boring. One laboratory sample was collected at 12-13 ft bgs. Headspace analysis indicated an organic vapor content of 547 ppm, laboratory analysis indicated a benzene concentration of <0.5 mg/kg, a total BTEX concentration of 28.8 mg/kg, and a TPH concentration of 1,790 mg/kg. The benzene and total BTEX concentrations were below recommended remediation levels for the Hazard Ranking Score.

A Phase III excavation was completed on 12/1/1995. The pit was excavated to a depth of 20 feet with dimensions of 24 feet by 19 feet. Approximately 230 cubic yards of soil was excavated and sent off-site to the Envirotech Land Farm. A composite sample of the four walls and the floor was taken. Headspace analysis indicated an organic vapor content of 323 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 25.4 mg/kg.

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 eight years.
- The pit was excavated to the practical extent of the equipment and backfilled with clean soil and the former pit area graded to direct surface runoff away from the former pit.
- All criteria have been met for site closure.
- 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.



PIT CLOSURE REQUEST

- There are no water supply wells or other sources of fresh water extraction within 1,000 feet of the site.
- Groundwater was not encountered in the test excavation to a depth of 20 ft bgs; local geologic features indicate the depth to groundwater is greater than 50 ft bgs.
- Benzene and total BTEX concentrations were non-detect. Following the Phase III soil excavations, TPH concentrations were also below the recommended remediation level of 100 mg/kg.

ATTACHMENTS

Field Pit Assessment Form

Revised Field Pit Assessment Form

Field Pit Remediation/Closure Form

Phase II Soil Boring Log

Laboratory Analytical Results

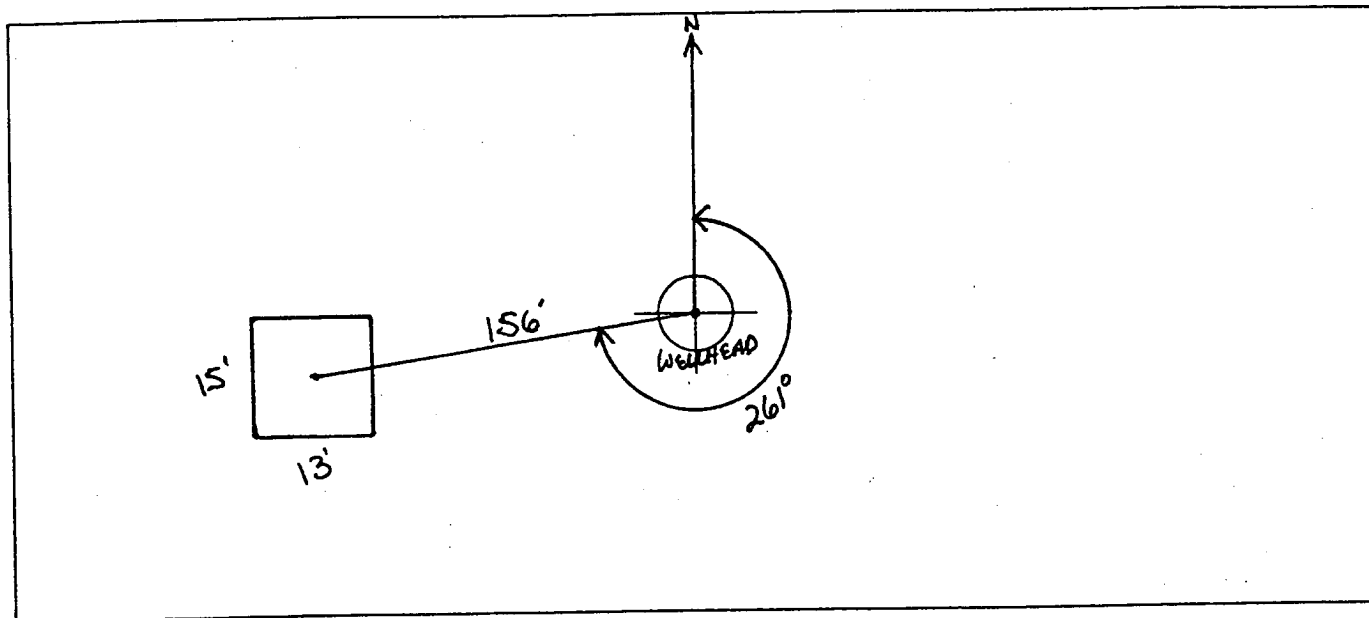
FIELD PIT SITE ASSESSMENT FORM

GENERAL	<p>Meter: <u>87491</u> Location: <u>VALENCIA GAS COM C #1</u></p> <p>Operator #: <u>0203</u> Operator Name: <u>AMOCO</u> P/L District: <u>BLANCO</u></p> <p>Coordinates: Letter: <u>0</u> Section <u>18</u> Township: <u>29</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>5.14.94</u> Area: <u>13</u> Run: <u>22</u></p>
SITE ASSESSMENT	<p>NMOCD Zone: (From NMOCD Maps)</p> <p>Inside <input checked="" type="checkbox"/> (1) Outside <input type="checkbox"/> (2)</p> <p>Land Type: BLM <input type="checkbox"/> (1) State <input type="checkbox"/> (2) Fee <input checked="" 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? <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 checked="" type="checkbox"/> (2) Greater Than 1000 Ft (0 points) <input type="checkbox"/> (3)</p> <p>Name of Surface Water Body <u>SAN JUAN RIVER</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 : <u>ONLY PIT ON LOCATION. PIT IS DRY. LOCATION IS ON A HILL S.E. OF THE BLANCO FIELD OFFICE AND JUST ABOVE THE SAN JUAN RIVER. REDLINE AND TOPO CONFIRMED LOCATION TO BE INSIDE U.Z.</u></p> <p style="text-align: right;"><u>DIG & HAUL</u></p>

ORIGINAL PIT LOCATION

ORIGINAL PIT LOCATION

Original Pit : a) Degrees from North 261° Footage from Wellhead 156'
b) Length : 15' Width : 13' Depth : 2'



REMARKS

Remarks :

TOOK PICTURES AT 7:04 A.M.

END DUMP

Completed By:

Paul Thompson

Signature

5.14.94

Date



FIELD SERVICES LABORATORY

ANALYTICAL REPORT

PIT CLOSURE PROJECT - Soil

SAMPLE IDENTIFICATION

	Field ID	Lab ID
SAMPLE NUMBER:	KD80	945265
MTR CODE SITE NAME:	87491	N/A
SAMPLE DATE TIME (Hrs):	5-23-94	0930
SAMPLED BY:	N/A	
DATE OF TPH EXT. ANAL.:	5-24-94	5/24/94
DATE OF BTEX EXT. ANAL.:	5/27/94	6/1/94
TYPE DESCRIPTION:	VC	Brown Course Sand

REMARKS:

RESULTS

PARAMETER	RESULT	UNITS	QUALIFIERS			
			DF	Q	M(g)	V(ml)
BENZENE	40.62	MG/KG	25			
TOLUENE	40.62	MG/KG	25			
ETHYL BENZENE	2.8	MG/KG	25			
TOTAL XYLENES	43	MG/KG	25			
TOTAL BTEX	47	MG/KG				
TPH (418.1)	1280	MG/KG			2.19	28
HEADSPACE PID	496	PPM				
PERCENT SOLIDS	94.2	%				

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

Surrogate Recovery was at 85 % for this sample All QA/QC was acceptable.
Note:

ATI results attached.

DF = Dilution Factor Used

Approved By:

Date:

7/14/00



Analytical Technologies, Inc.

GAS CHROMATOGRAPHY RESULTS

TEST : BTEX (EPA 8020)
CLIENT : EL PASO NATURAL GAS CO. ATI I.D.: 405406
PROJECT # : 24324
PROJECT NAME : PIT CLOSURE

SAMPLE ID. #	CLIENT I.D.	MATRIX	DATE SAMPLED	DATE EXTRACTED	DATE ANALYZED	DIL. FACTOR
13	945265	NON-AQ	05/23/94	05/27/94	06/01/94	25
14	945266	NON-AQ	05/23/94	05/27/94	06/03/94	10
15	945267	NON-AQ	05/23/94	05/27/94	06/01/94	20

PARAMETER	UNITS	13	14	15
BENZENE	MG/KG	<0.62	0.28	8.0
TOLUENE	MG/KG	<0.62	20	63
ETHYLBENZENE	MG/KG	2.8	1.8	5.9
TOTAL XYLENES	MG/KG	43	30	61

SURROGATE:
BROMOFLUOROBENZENE (%) 85 197* 92

*OUTSIDE ATI QUALITY CONTROL LIMITS DUE TO MATRIX INTERFERENCE

GENERAL	Meter: <u>87491</u> Location: <u>Valencia Gas Com C#1</u> Coordinates: Letter: <u>0</u> Section <u>18</u> Township: <u>29</u> Range: <u>9</u> Or Latitude _____ Longitude _____ Date Started : <u>5-23-94</u> Area: <u>13</u> Run: <u>22</u>
FIELD OBSERVATIONS	Sample Number(s): <u>KD 80</u> Sample Depth: <u>12'</u> Feet Final PID Reading <u>496 ppm</u> PID Reading Depth <u>12'</u> Feet <div style="text-align: center;">Yes No</div> Groundwater Encountered <input type="checkbox"/> (1) <input checked="" type="checkbox"/> (2) Approximate Depth _____ Feet
CLOSURE	Remediation Method : <div style="display: flex; justify-content: space-between;"> <div>Excavation</div> <div><input checked="" type="checkbox"/> (1) Approx. Cubic Yards <u>50</u></div> </div> <div style="display: flex; justify-content: space-between;"> <div>Onsite Bioremediation</div> <div><input type="checkbox"/> (2)</div> </div> <div style="display: flex; justify-content: space-between;"> <div>Backfill Pit Without Excavation</div> <div><input type="checkbox"/> (3)</div> </div> Soil Disposition: <div style="display: flex; justify-content: space-between;"> <div>Envirotech</div> <div><input type="checkbox"/> (1)</div> <div><input checked="" type="checkbox"/> (3) Tierra</div> </div> <div style="display: flex; justify-content: space-between;"> <div>Other Facility</div> <div><input type="checkbox"/> (2) Name: _____</div> </div> <div style="display: flex; justify-content: space-between;"> <div>Pit Closure Date: <u>5-23-94</u></div> <div>Pit Closed By: <u>BEI</u></div> </div>
REMARKS	Remarks : <u>Excavated pit to 12', Hit rubble layer at 6', continued on to 12', took PID sample, closed pit.</u>
Signature of Specialist: <u>King</u>	

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 Valencia Gas Com #1 87491

Elevation _____
Borehole Location 20-S18-T29-R9
GWL Depth _____
Logged By CM CHANCE
Drilled By K Padilla
Date/Time Started 8/18/95 - 1310
Date/Time Completed 8/18/95 - 1340

Well Logged By CM Chance
Personnel On-Site K Padilla, F. Rivera, D. Charlie
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	HS	
0				Backfill to 12'						
5										
10										
12	1	12-13	3"	Br-dk Br SAND, f-med sand, + coarse sand, cobble fragments, dense, silty						
15		15-17		TOB 13'						
20										
25										
30										
35										
40										

Comments:

Refusal @ 15'. Sampled from 12-13'. CMC 82 (12-13') sent to lab (BTEX, TPH)
BH grouted to surface

Geologist Signature

Cam Chance



FIELD SERVICES LABORATORY
ANALYTICAL REPORT

PIT CLOSURE PROJECT - Soil Samples Inside the GWV Zone

SAMPLE IDENTIFICATION

	Field ID	Lab ID
SAMPLE NUMBER:	8-208 pvs CMC 82	947288
MTR CODE SITE NAME:	87491	Valencia Gas Com C#1
SAMPLE DATE TIME (Hrs):	08-18-95	13:10
PROJECT:	Phase II Drilling	
DATE OF TPH EXT. ANAL.:	8/21/95	8/21/95
DATE OF BTEX EXT. ANAL.:	8/23/95	8/29/95
TYPE DESCRIPTION:	V6	Light gray sand & clay

Field Remarks:

RESULTS

PARAMETER	RESULT	UNITS	QUALIFIERS			
			DF	Q	M(g)	V(ml)
BENZENE	< 5	MG/KG		D		
TOLUENE	< 5	MG/KG		D		
ETHYL BENZENE	< 5	MG/KG		D		
TOTAL XYLENES	28.8	MG/KG		D		
TOTAL BTEX	28.8	MG/KG		D		
TPH (418.1)	1790	MG/KG			2.03	28
HEADSPACE PID	547	PPM				
PERCENT SOLIDS	95.5	%				

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

The Surrogate Recovery was at 93% for this sample All QA/QC was acceptable.
Narrative:

DF = Dilution Factor Used

FIELD PIT REMEDIATION/CLOSURE FORM/PHASE II

GENERAL	<p>Meter: <u>87491</u> Location: <u>Uakencia Gas Com C#1</u></p> <p>Coordinates: Letter: <u>0</u> Section <u>18</u> Township: <u>29</u> Range: <u>09</u></p> <p>Or Latitude _____ Longitude _____</p> <p>Date Started : <u>12-1-95</u> Area: <u>13</u> Run: <u>22</u></p>
FIELD OBSERVATIONS	<p>Sample Number(s): <u>4P96</u></p> <p>Sample Depth: <u>20</u> Feet</p> <p>Final PID Reading <u>323</u> ppm PID Reading Depth <u>20</u> Feet Yes No</p> <p>Groundwater Encountered <input type="checkbox"/> (1) <input checked="" type="checkbox"/> (2) Approximate Depth _____ Feet</p> <p>Final Dimensions: Length <u>24</u> Width <u>19</u> Depth <u>20</u></p>
CLOSURE	<p>Remediation Method :</p> <p>Excavation <input checked="" type="checkbox"/> (1) Approx. Cubic Yards <u>230</u> LT ^{12/5/95}</p> <p>Onsite Bioremediation <input type="checkbox"/> (2)</p> <p>Backfill Pit Without Excavation <input type="checkbox"/> (3)</p> <p>Soil Disposition: Overburden Cubic Yards <u>14</u> LT ^{12/5/95}</p> <p>Envirotech <input checked="" type="checkbox"/> (1) <input type="checkbox"/> (3) Tierra</p> <p>Other Facility <input type="checkbox"/> (2) Name: _____</p> <p>Pit Closure Date: <u>12-1-95</u> Pit Closed By: <u>Philips Env.</u></p> <p><u>Phase III</u></p>
REMARKS	<p>Remarks : <u>Dug to 20ft hit a shell layer, did not encounter ground water, Took PID Readings N wall 435 ppm S wall 135 ppm E wall 324 ppm W wall 82 ppm Bot 691 ppm Comp 323 ppm</u></p> <p><u>Had to stop digging N wall had power line W wall had drip riser</u></p> <p>Signature of Specialist: <u>James J. Penno</u> OVER →</p>



FIELD SERVICES LABORATORY
ANALYTICAL REPORT

PIT CLOSURE PROJECT - Soil Samples Inside the GWV Zone

SAMPLE IDENTIFICATION

	Field ID	Lab ID
SAMPLE NUMBER:	JP 96	947822
MTR CODE SITE NAME:	87491	VALENCIA GAS CAM C#1
SAMPLE DATE TIME (Hrs):	12-1-95	0915
PROJECT:	Phase III Excavation	
DATE OF TPH EXT. ANAL.:	12/6/95	
DATE OF BTEX EXT. ANAL.:	12/4/95	12/4/95
TYPE DESCRIPTION:	VC	Light brown fine Sand & clay

Field Remarks: (N-435)(S-135)(E-324)(W-82)

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 (418.1)	25.4	MG/KG			2.01	28
HEADSPACE PID	323	PPM				
PERCENT SOLIDS	94.0	%				

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

The Surrogate Recovery was at 96% for this sample All QA/QC was acceptable.
Narrative:

DF = Dilution Factor Used

Approved By: JP

Date: 12/7/95