

OCT 28 1997

PIT REMEDIATION AND CLOSURE REPORT

Approved

Operator: Apache Corporation Telephone: 505-325-0318

Address: 304 N. Behrend, Farmington, NM 87401

Facility or Well Name: Apache # 18

Location: Unit or Qtr/Qtr Sec K Sec 2 T 24 N R 4W County Rio Arriba

Pit Type: Separator: Dehydrator Other Blow Pit

Land Type: Jicarilla Tribal

Pit Location: Pit Dimensions: Length 24' Width 18' Depth 11'

(Attach diagram)

Reference: Wellhead X Other

Footage from reference: 90'

Direction from reference: 80 Degrees XX East North XX

West of South

Depth To Groundwater: 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) 0
high water elevation of
groundwater)

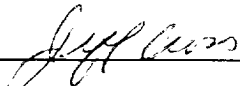
Wellhead Protection Area: Yes (20 points)
(Less than 200 feet from a private No (0 points) 0
domestic water source, or; less than
1000 feet from all other water sources)

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) 0
irrigation canals and ditches)

RANKING SCORE (TOTAL POINTS) 0

RECEIVED
AUG 20 1997
OIL CON. DIV.
DIST. 3

100-443887-170

Date Remediation Started:		<u>9/13/95</u>	Date Completed:		<u>9/13/95</u>
Remediation Method: (Check all appropriate sections)		Excavation <u>XXX</u>	Approx. cubic yards		
		Landfarmed <u>NONE</u>	Insitu Bioremediation		
		Other _____			
Remediation Location: (i.e. landfarmed onsite, name and location of offsite facility)		Onsite <u>X</u>	Offsite		
General Description of Remedial Action: <u>Excavate pit to 11', took PID readings, readings low.</u>					
<u>Took soil samples, results within closure limits. Put soil back into pit.</u>					
Groundwater Encountered: No <u>X</u> Yes _____ Depth _____					
Final Pit: Sample location <u>5 point composite taken from pit sidewalls and pit bottom center</u>					
Closure Sampling: (in multiple samples, attach sample results and diagram of sample locations and depths)					
Sample depth		<u>8 to 10" into pit sidewalls 10" into pit bottom</u>			
Sample Date		<u>9/13/95</u>	Sample Time		<u>2:30 PM</u>
Sample results					
Benzene	(ppm)	<u>ND</u>			
Total BTEX	(ppm)	<u>ND</u>			
Field Headspace	(ppm)	<u>49.62</u>			
TPH		<u>ND</u>			
Groundwater Sample:		Yes _____	No <u>X</u> (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		<u>8-Aug-97</u>	PRINTED NAME		<u>Jeff Cross</u>
SIGNATURE		<u></u>	AND TITLE		<u>Project Manager</u>

JICARILLA APACHE TRIBE
ENVIRONMENTAL PROTECTION OFFICE
P. O. BOX 507
DULCE, NEW MEXICO 87528

Submit 1 copy to
Natural Resource Dept.
and Oil & Gas Administration

PIT REMEDIATION AND CLOSURE REPORT

Operator: <u>APACHE CORPORATION</u>		Telephone <u>505-325-0318</u>	
Address: <u>304 N. BEHREND, FARMINGTON, N.M. 84701</u>			
Facility or Well Name: <u>APACHE # 18</u>			
Location:	Unit or Qtr/Qtr Sec	<u>K SEC 2 T 24N R 4W</u>	County <u>RIO ARRIBA</u>
Pit Type:	Separator: <u> </u>	Dehydrator <u> </u>	Other <u>BLOW PIT</u>
Land Type: <u>JIC. TRIBAL</u>			

Pit Location: (Attach diagram)	Pit Dimensions:	Length <u>24'</u>	Width <u>18'</u>	Depth <u>11'</u>
	Reference:	Wellhead <u>XXX</u>	Other <u> </u>	
	Footage from reference:	<u>90'</u>		
	Direction from reference:	<u>80</u> Degrees	<u>XX</u> East	North <u>X</u> of South <u> </u>
		<u> </u> West		

Depth To Groundwater: (vertical distance from contaminants to seasonal high water elevation of groundwater)	Less than 50 feet	(20 points)	<u> </u>
	50 feet to 99 feet	(10 points)	<u> </u>
	Greater than 100 feet	(0 points)	<u>0</u>
Distance to an Ephemeral Stream: (Downgradient dry wash greater than ten feet in width)	Less than 100 feet	(10 points)	<u> </u>
	Greater than 100 feet	(0 points)	<u>0</u>
Distance to Nearest Lake, Playa, or Watering Pond: (Downgradient lakes, playas and livestock or wildlife watering ponds)	Less than 100 feet	(10 points)	<u> </u>
	Greater than 100 feet	(0 points)	<u>0</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)	<u> </u>
	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 100 feet	(20 points)	<u> </u>
	100 feet to 1000 feet	(10 points)	<u> </u>
	Greater than 1000 feet	(0 points)	<u>0</u>
	RANKING SCORE (TOTAL POINTS)		

Date Remediation Started:		<u>9/13/95</u>		Date Completed:		<u>9/13/95</u>	
Remediation Method: (Check all appropriate sections)		Excavation <u>XXX</u>		Approx. cubic yards			
		Landfarmed <u>NONE</u>		Insitu Bioremediation			
		Other					
Remediation Location: (i.e. landfarmed onsite, name and location of offsite facility)		Onsite		Offsite			
General Description of Remedial Action: <u>Excavate pit to 11', took PID readings, readings low, took soil samples, results within closure limits. Put soil back into pit.</u>							
Groundwater Encountered:		No <u>XXX</u>		Yes		Depth	
Final Pit:		Sample location <u>5 point composite taken from pit sidewalls and pit bottom center.</u>					
Closure Sampling: (in multiple samples, attach sample results and diagram of sample locations and depths)		Sample depth <u>8" to 10" into pit side walls, 10" into pit bottom.</u>					
Sample Date		<u>9/13/95</u>		Sample Time		<u>2:30 PM</u>	
Sample results							
Soil:	Benzene	(ppm)	<u>ND</u>	Water:	Benzene	(ppb)	<u>NA</u>
	Total BTEX	(ppm)	<u>ND</u>		Toluene	(ppb)	<u>NA</u>
	Field Headspace	(ppm)	<u>49.62</u>		Ethylbenzene	(ppb)	<u>NA</u>
	TPH	(ppm)	<u>ND</u>		Total Xylenes	(ppb)	<u>NA</u>
Groundwater Sample:		Yes		No <u>XXX</u>		(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		<u>7/25/97</u>		PRINTED NAME		<u>JEFF CROSS</u>	
SIGNATURE		<u>Jeff Cross</u>		AND TITLE		<u>PROJECT MANAGER</u>	
AFTER REVIEW OF THE PIT CLOSURE INFORMATION, PIT CLOSURE IS APPROVED IN ACCORDANCE TO THE JICARILLA APACHE TRIBE PIT CLOSURE ORDINANCE.							
APPROVED:		YES <u>X</u>		NO		(REASON)	
SIGNED:		<u>Kevin Mammill</u>		DATE:		<u>7-30-97</u>	

DRAINAGE

NORTH

APACHE

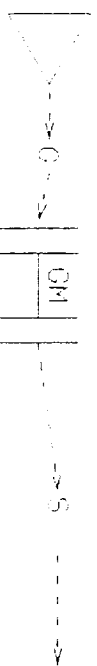
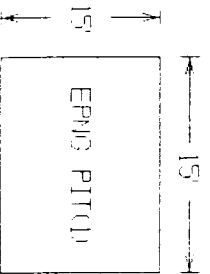
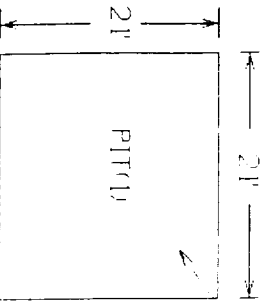
APACHE NUMBER 18

SECTION 2, TOWNSHIP 24N, RANGE 4W

RIO ARriba COUNTY, NM

2" GAS BLOW LINE, 89'

2" GAS FLOW LINE, 72'



DRING LINE DRIP
METER #09767

APACHE CORPORATION FARMINGTON DISTRICT PIT EXCAVATION AND CLOSURE REPORT

LOCATION: APACHE 18
E
PIT COUNT: 1

JICARILLA APACHE TRIBAL EPO
REVIEW AND APPROVAL

EPO REPRESENTATIVE K.C.
DATE OF REVIEW: 10/30/95

		EXCAVATION							
DIMENSIONS		START		FINISH				CU.YDS.	
	W'	L'	D'		W'	L'	D'		
PIT 1	18'	24'	5'	PIT 1	18'	24'	11'	96.0	
PIT 2				PIT 2					
PIT 3				PIT 3					
DATE: 09/13/95		PIT 1@ 11'	PIT 2@	PIT 3@	DATE: 09/15/95		PIT 1@ 11'	PIT 2@	PIT 3@
P. I. D.	CENTER	36.8			P. I. D.	CENTER	0.0		
	NW CORNER	90.0				NW CORNER	10.2		
	NE CORNER	1.3				NE CORNER	0.0		
	SW CORNER	0.0				SW CORNER	0.0		
	SE CORNER	120.0				SE CORNER	45.6		

NOTES:

09/13/95 Odor and staining to 9'. Spread soil for remediation. Continue excavation to 11'.

SOIL SAMPLING

DATE: 09/13/95		PIT 1@ 11'	PIT 2@	PIT 3@	ANALYSIS RESULTS			PER LAB:	ASSAIGAI
P. I. D.	CENTER	36.8			PIT	TPH	BTEX	WITNESS	DATE
	NW CORNER	90.0			NO.				
	NE CORNER	1.3			1	ND	ND	IF&S	09/13/95
	SW CORNER	0.0							
	SE CORNER	120.0							

RE-SAMPLE OR CELL(S) SAMPLE

DATE:		PIT 1@	PIT 2@	PIT 3@	ANALYSIS RESULTS			PER LAB:	
P. I. D.	CENTER				PIT NO.	TPH	BTEX	WITNESS	DATE
	NW CORNER								
	NE CORNER								
	SW CORNER								
	SE CORNER								

RE-SAMPLE OR CELL(S) SAMPLE

DATE:		PIT 1@	PIT 2@	PIT 3@	ANALYSIS RESULTS		PER LAB:		
P. I. D.	CENTER				PIT	TPH	BTEX	WITNESS	DATE
	NW CORNER				NO.				
	NE CORNER								
	SW CORNER								
	SE CORNER								

Notes:

PID READINGS					Site Number: 18	Notes:
Date	Pit No.	Interval (Depth)	Location	Reading (ppm)		
09/13/95	1	9'	Center	939	Small amount of water present and stirred in with removed soil. Three foot down in the center encountered a green, moist sandy soil with dark gray/black lens just above. Staining and PID readings faded out on the corners but remained elevated on the center of the pit.	
09/13/95	1	9'	Bottom, N.W. Corner	97		
09/13/95	1	9'	Bottom, N.E. Corner	11.8		
09/13/95	1	9'	Bottom, S.W. Corner	2.3		
09/13/95	1	9'	Bottom, S.E. Corner	516		
09/13/95	1	11'	Center	36.8		
09/13/95	1	11'	Bottom, N.W. Corner	90		
09/13/95	1	11'	Bottom, N.E. Corner	1.3		
09/13/95	1	11'	Bottom, S.W. Corner	0		
09/13/95	1	11'	Bottom, S.E. Corner	120		
					Spread Soil for Remediation	

b ID: 9509145-11B
Sample ID: AP# 108

Collected: 09/12/95 15:10:00
Matrix: SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
HCs DIESEL/CAL DHS 8015M Diesel	74	mg/Kg	5.0	10	09/27/95	SLFTD46
HCs DSL XT/CAL DHS 8015M	09/21/95	N/A				

Lab ID: 9509145-12A
Sample ID: AP# 11

Collected: 09/13/95 14:13:00
Matrix: SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
BTEX/SW846 8020A						
Benzene	ND	mg/Kg	0.0010	5.0	09/20/95	SBTXME074
Toluene	ND	mg/Kg	0.0010	5.0	09/20/95	SBTXME074
Ethylbenzene	ND	mg/Kg	0.0010	5.0	09/20/95	SBTXME074
P-&m-Xylene	ND	mg/Kg	0.0010	5.0	09/20/95	SBTXME074
O-Xylene	ND	mg/Kg	0.0010	5.0	09/20/95	SBTXME074

Lab ID: 9509145-12B
Sample ID: AP# 11

Collected: 09/13/95 14:13:00
Matrix: SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
HCs DIESEL/CAL DHS 8015M Diesel	ND	mg/Kg	5.0	5.0	09/26/95	SLFTD46
HCs DSL XT/CAL DHS 8015M	09/21/95	N/A				

Lab ID: 9509145-13A
Sample ID: AP# 18

Collected: 09/13/95 14:30:00
Matrix: SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
BTEX/SW846 8020A						
Benzene	ND	mg/Kg	0.0010	5.0	09/20/95	SBTXME074
Toluene	ND	mg/Kg	0.0010	5.0	09/20/95	SBTXME074
Ethylbenzene	ND	mg/Kg	0.0010	5.0	09/20/95	SBTXME074
P-&m-Xylene	ND	mg/Kg	0.0010	5.0	09/20/95	SBTXME074
O-Xylene	ND	mg/Kg	0.0010	5.0	09/20/95	SBTXME074

Lab ID: 9509145-13B
Sample ID: AP# 18

Collected: 09/13/95 14:30:00
Matrix: SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
HCs DIESEL/CAL DHS 8015M Diesel	ND	mg/Kg	5.0	5.0	09/27/95	SLFTD46
HCs DSL XT/CAL DHS 8015M	09/21/95	N/A				

