JICARILLA APACHE TRIBE ENVIRONMENTAL PROTECTION OFFICE DE GAMMONT AND CLOSURE REPORT JICARILLA APACHE TRIBE NATURAL RESOURCE DEPT NATURAL RESOURCE DEPT AUG 0 9 1999 OFFICE DE GAMMONT AND CLOSURE REPORT DISSTER JICARILLA APACHE TRIBE

PIT REMEDIATION AND CLOSURE REPOR

PIT REMEDIATION AND	Chobella	DIST. 3
Operator: AMOCO PRODUCTION COMPANY	Telephone	(505)326-9200
Address: 200 Amoco Court, Farmington, NM	87401	
Facility or Well Name: JICARIUM APACHE	# 102-15	naaleA
Location: Unit or Qtr/Qtr Sec_ P Sec_ 9 T_Zer	S R 4w County 100	AJCK 180
Pit Type: Separator Dehydrator Other	າມ	
Land Type:		
Pit Location: Pit dimensions: length 33	3', width30'	
(Attach diagram) Reference: wellhead X, of	ther	
Footage from reference: /60	/	
Direction from reference: 3	Degrees A East o	North X
	West	South
Depth To Groundwater: (Vertical distance from contaminants to seasonal high water elevation of	Less than 50 feet 50 feet to 99 feet Greater than 100 feet	(20 points) (10 points) (0 points)
groundwater) Distance to an Ephemeral Stream (Downgradient dry wash greater than ten feet in width)	Less than 100 feet Greater than 100 feet	(10 points) (0 points)
Distance to Nearest Lake, Playa, or Watering Pond (Downgradient lakes, playas and livestock or wildlife watering ponds)	Less than 100 feet Greater than 100 feet	(10 points) (0 points)
Wellhead Protection Area: (Less than 200 feet from a private domestic water source, or: less than 1000 feet from all other water sources)	Yes No	(20 points) (0 points)
Distance To SurfaceWater: (Horizontal distance to perennial lakes, ponds, rivers, streams, creeks, irrigation canals and ditches)	Less than 100 feet 100 feet to 1000 feet Greater than 1000 feet	(20 points) (10 points) (0 points)

RANKING SCORE (TOTAL POINTS):

	8J673 8LOW PIT
Date Remediation Started:	Date Completed:
	Approx. cubic yards
Remediation Method: Excavation Check all appropriate	Insitu Bioremediation
sections) Landfarmed	mate Dieteration
	fsite
(i.e. landfarmed onsite, name and location of	
affaire facility)	Denney Turores de
General Description of Remedial Action: _	Excavation. Examinas mostly bestock, THEREFORE
NO TPH ANALYSIS WAS CONDU	(d€D).
Groundwater Encountered: No	Yes Depth
Or variation and a second seco	
a and leastion Sec	Attached Documents
Final Pit: Sample location Score Closure Sampling:	
(if multiple samples,	1 / 2
attach sample results and diagram of sample Sample depth	(PIT BOTTOM)
locations and depths) Sample date /0/	
Sample Results	
Soil: Benzene	(ppm) Water: Benzene (ppb)
	(ppm) (pph)
Total BTEX	(ppm)
	ace (ppm)
ТРН	(ppm) NA Total Xylenes (ppb)
	of the attach cample regults)
Groundwater Sample: Yes	No (if yes, anach sample testins)
LHEREDY CERTIEV THAT THE INFORMA	ATION ABOVE IS TRUE AND COMPLETE TO THE BEST OF MY
KNOWLEGE AND BELIEF	
, , , , ,	Puddy D Shaw
DATE $\frac{/o//8/98}{}$	PRINTED NAME Buddy D. Shaw AND TITLE Environmental Coordinator
AFTER REVIEW OF THE PIT CLOSURE I TO THE JICARILLA APACHE TRIBE PIT	NFORMATION, PIT CLOSURE IS APPROVED IN ACCORDANCE CLOSURE ORDINANCE.
<u></u>	
APPROVED: YES NO (REA	SON)
	C DATE: 12-28-98
MEIGNED.	< DATE: $12 - 28 - 78$

FIELD REPORT: CLOSURE VERIFICATION PAGE NO: 1 of 1 LOCATION: NAME: JIGA APAGIE 102 WELL #: 15 PIT: BOW DATE STARTED: 10-19- QUAD/UNIT: P SEC: 9 TWP: ZGN RNG: 4W PM:NM CNTY: RA ST: 1111 QTR/FDDTAGE: SE/H SE/H CONTRACTOR: PAGE NO: 1 Of 1 ENVIRONMENTAL 2005
EXCAVATION APPROX. 33 FT. x 30 FT. x 4 FT. DEEP. CUBIC YARDAGE: 100 DISPOSAL FACILITY: ONSITE REMEDIATION METHOD: LANDFACT LAND USE: Fill Use 102 FORMATION: THE REMEDIATION APPROXIMATELY 100 FT. N37E FROM WELLHE
DEPTH TO GROUNDWATER: NEAREST WATER SOURCE: 1700 NEAREST SURFACE WATER: CHECK ONE: NMOCD PANKING SCORE: NMOCD TPH CLOSURE STD: 5000 PPM SCOTI AND EXCAVATION DESCRIPTION: STEEL TANK INSTALLED
BLUE/Green Bobbset Soudistant on Sides & Johnson for DVM DNLY. MINOR OF DIDE, NO STAIN
FIELD 418.1 CALCULATIONS TIME SAMPLE I.D. LAB NO: WEIGHT (g) mL. FREON DILUTION READING CALC. PR SCALE
O FT PIT PERIMETER OVM RESULTS SAMPLE FIELD HEADSPACE PID (ppm) SAMPLE PID (ppm)
1 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
LAB SAMPLES SAMPLE ANALYSIS TIME ID ANALYSIS

BJ673

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

	_ /505	3)326-9200
Operator: AMOCO PRODUCTION COMPANY	Telephone: (505	
Address: 200 Amoco Court, Farmington, N	м 87401	
Facility or Well Name: JICARILLA APACI	HE #102 - 15	ρA
Location: Unit or Qtr/Qtr Sec Sec 9 T26	SN R 4W County 270 AND	617
Pit Type: Separator X Dehydrator Other		
Land Type:		
I I Document	۲۱', width30', dep	
(Attach diagram) Reference: wellhead X,	other	
Footage from reference: /55	7/- Y Fact No.	rth
Direction from reference:	Degrees X East Nor of West Sou	nth <u>×</u>
Depth To Groundwater: (Vertical distance from contaminants to seasonal high water elevation of	50 feet to 99 feet (10	points) points) points)
proundwater) Distance to an Ephemeral Stream (Downgradient dry wash greater than ten feet in width)	Less than 100 feet (10 Greater than 100 feet (0	points) >
Distance to Nearest Lake, Playa, or Watering Pond (Downgradient lakes, playas and livestock or wildlife watering ponds)	Greater than 100 feet (C	points)
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 No (0) points) $ > $
Distance To SurfaceWater: (Horizontal distance to perennial lakes, ponds, rivers, streams, creeks, irrigation canals and ditches)	100 feet to 1000 feet (1)	o points) o points) o points)
п .	RANKING SCORE (TOTAL PO	INTS):

BJ 673	5 EP.	PIT

	Date	Completed: 0 22 98.
	A parox	cubic yards
Remediation Method: Check all appropriate sections)		Bioremediation
Sections)	Other	
m Yester Teaction		
Remediation Location (i.e. landfarmed onsite, name and location of	· Onsite	
offsite facility) General Description	of Remedial Action: Excavation, Begin	OCK BOTTOM.
Groundwater Encoun	itered: No X Yes Dept	h
Final Pit: Closure Sampling: (if multiple samples,	Sample location see Attached Docume	
attach sample results	Sample depth 9' (NORTH SIDEUM) Sample date 10/18/98	nu)
and diagram of sample locations and depths)	Sample date	Sample time /236
	Sample Results	
"	Soil: Benzene (ppm) 0.637	Water: Benzene (ppb)
	Total BTEX (ppm) 9.590	Toluene (ppb)
	Field Headspace (ppm) 349	Ethylbenzene (ppb)
	TPH (ppm)	Total Xylenes (ppb)
Groundwater Sampl	e: Yes NoX (If yes, at	tach sample results)
KNOWLEGE AND	Y THAT THE INFORMATION ABOVE IS TRUBELIEF	
DATE	10/22/98, PRINTED NAME B	uddy D. Shaw
SIGNATURE BUS	XWY O TOO	nvironmental Coordinator
A PORTO DESCRIPTION	F THE PIT CLOSURE INFORMATION, PIT C A APACHE TRIBE PIT CLOSURE ORDINANC	LOSURE IS APPROVED IN ACCORDANCE
APPROVED: YES	NO (REASON)	
SIGNED: Lew	50 March DATE: 6-14	5 - 99

BLAGG ENGINEERING, INC.	
BLAGG ENGINEERING, INC. P.O. BOX 87, BLOOMFIELD, NM 87 (505) 632-1199	2413 LOCATION NO. 87673 C.O.C. NO. 6367
FIELD REPORT: CLOSURE VERIFICATION	ON PAGE No: 1 of 1
SCATION WAR TO A DOWN 102 WELL #: 15 PIT: SEP	DATE STARTED: 10-18-48 DATE FINISHED: 10-21-48
QUAD/UNIT: P SEC: 9 TWP: 26N RNG: 4W PM: NM CNTY: RA ST QTR/FOOTAGE: SE/4 SE/4 CONTRACTOR: PAUL	ENVIRONMENTAL JCS
21 PM - 30 FT v 14 FT. DEEP. (CUBIC YARDAGE: 275
DISPOSAL FACILITY: ONSITE REMEDIATION N	FORMATION:
TELLENO TELEP ADDRIVINATELY 155	FT S 75 E FROM WELLHEAD
DEPTH TO GROUNDWATER: >100 NEAREST WATER SOURCE: >100 NEAREST NMOCD RANKING SCORE: O NMOCD TPH CLOSURE STD: 5,000 PPM	CHECK DNE: PIT ABANDONED
NMOCD RANKING SCORE: NMOCD THE CLUSURE STD. STD. STD. AND EXCAVATION DESCRIPTION:	STEEL TANK INSTALLED
Vellow orange Sandy Cia 0-9, Dry to Mest, Cohesi.	FIBERGLASS TANK INSTALLE
9-14' Claystone Essist, Hard.	,
14' Hit Blue/green Sondstone.	
14' Hit Blue/green Sondstone. HC Our of all surples - No ston.	
BEDEOCK COSED	
FIELD 418.1 CALCULAT	TIONS REON DILUTION READING CALC. ppm
SCALE	
O FT	
↑ PIT PERIMETER OVM	PIT PROFILE
N RESULTS	
SAMPLE FIELD HEADSPACE PID (ppm) 1 @ 9 349	
2 @ 9' 229 3 @ 9' 304 1 3 @ 9' 335	A
1 1 2 5 14	
4 @ 9' 335 5 @ /4' 275	19
30' W 3 2 F' 5 @ 14' 275 14	19
30' 30 2) 6' 5 @ 14' 275	CLAY
30' W 3 2 F 5 @ 14' 275 A B SAMPLES SAMPLE ANALYSIS TIME	CLAY STONE SANDSTUNE
30' W 3 2 F 5 @ 14' 275 14 A LAB SAMPLES	SANDSTINE BEDRUK
30' W 3 2 F 5 @ 14' 275 A LAB SAMPLES SAMPLE ANALYSIS TIME 10 10 10 10 10 10 10 10 10 10 10 10 10 1	SANDSTONE BEDLICK



EPA METHOD 8015 Modified Nonhalogenated Volatile Organics Total Petroleum Hydrocarbons

Client: Sample ID: Laboratory Number: Chain of Custody No: Sample Matrix: Preservative: Condition:	Blagg / AMOCO Separator N @ 9' E093 6362 Soil Cool Cool and Intact	Project #: Date Reported: Date Sampled: Date Received: Date Extracted: Date Analyzed: Analysis Requested:	04034-10 10-22-98 10-21-98 10-22-98 10-22-98 10-22-98 8015 TPH
--	--	---	--

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	124	0.2
Diesel Range (C10 - C28)	65.1	0.1
Total Petroleum Hydrocarbons	189	0.2

ND - Parameter not detected at the stated detection limit.

References:

Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste,

SW-846, USEPA, December 1996.

Comments:

Jica. Apa. 102 - 15.

Deen R. Ogiceen

Stacy W Sendler



EPA METHOD 8021 AROMATIC VOLATILE ORGANICS

Parameter		entration (Kg)	Det. Limit (ug/Kg)	
Client: Sample ID: Laboratory Number: Chain of Custody: Sample Matrix: Preservative: Condition:	Blagg / Amoco Separator N @ 9' E093 6362 Soil Cool Cool & Intact	Project #: Date Reported: Date Sampled: Date Received: Date Analyzed: Date Extracted: Analysis Requested:	10 10 10 10 10	034-10 -22-98 -21-98 -22-98 -22-98 0-22-98

Benzene Toluene Ethylbenzene p,m-Xylene o-Xylene	637 2,670 965 3,200 2,120	8.8 8.4 7.6 10.8 5.2
Total BTEX	9,590	

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	Trifluorotoluene Bromofluorobenzene	101 % 101 %

References:

Method 5030B, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA,

December 1996.

Method 8021B, Aromatic Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846,

USEPA, December 1996.

Comments:

Jica. Apa. 102 - 15.

Alexand. Oglewer

Stacy W Sendler
Review

CHAIN OF CUSTODY RECORD

Client No. Client No. Client No. OHO3 4-1 Sample No./ Sample Sample Lab Number Time EARATUR WALVIS COGS Lebed by: (Signature) Lished by: (Signature) Lished by: (Signature) Lished by: (Signature) Lished by: (Signature)
Client No. CHOS 4-1D Sample Imple No. Lab Number Matrix COCS Cappi Cass Caps Cap
Client No. Client No. Sample Sample Lab N EPARATUR Date Time Lab N Lab N Signature) Lished by: (Signature) Lished by: (Signature) Lab N Client No. Cli
AGG AMOCO Sample Sample entification Date Time EPRANTUR 1/28/28 (23/28) Lished by: (Signature) Lished by: (Signature) Lished by: (Signature)
Sampler Sulfating Reling

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

ON-SITE SOIL REMEDIATION REPORT

		The harmonia (505) 326_0200
Operator: AMOCO PRODUCTION C		Telephone: (505) 326-9200
Address: 200 Amoco Court,	Farmington,	NM 87401
Facility or Well Name: Sicalius	APACHE 102 - 1	<u> </u>
		UN RAW County PIO ARRIBA
Land Type: RANGE		
Date Remediation Started: 10 Z	, 98	Date Completed: 5/17/99
Remediation Method: Landfarmed		Approx. cubic yards 375
Composted		
Other		
	(pts.) <u>o</u>	Final Closure Sampling:
epth To Groundwater:		Sampling Date: 5.13.99 Time: 1415
Distance to an Ephemeral Stream	(pts.) <u>o</u>	
Distance to Nearest Lake, Playa, or Watering Pond	(pts.) <u>o</u>	Sample Results:
Wellhead Protection Area:	(pts.) <u>o</u>	Field Headspace (ppm) 37.0 TPH (ppm) 15.2 Method (80.5)
Distance To SurfaceWater:	(pts.)	
Distance To Survice (Vale)	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	Other
RANKING SCORE (TOTAL POIN	ITS):	
I HEREBY CERTIFY THAT THE INFO KNOWLEGE AND BELIEF	RMATION ABOVI	E IS TRUE AND COMPLETE TO THE BEST OF MY
DATE 517 99	PRINTEN N	NAMEBuddy D. Shaw
DATE 517199	TRIVIED I	AND TITLE Environmental Coordinator
,	· · · · · · · · · · · · · · · · · · ·	
ACCORDANCE TO THE JICARILLA	APACHE IRIBE FI	IATION, ON-SITE REMEDIATION IS APPROVED IN T CLOSURE ORDINANCE.
APPROVED: YES NO	(REASON)	
SIGNED: La CMa	DATE	E: 6-18-99

BLAGG ENGINEERING, INC. CLIENT: _AMOCO LOCATION NO: 85673 P.O. BOX 87, BLOOMFIELD, NM 87413 C.O.C. NO: 6930 (505) 632-1199FIELD REPORT: LANDFARM/COMPOST PILE CLOSURE VERIFICATION DATE STARTED: 5.13.49 OCATION: NAME: JICAPILLA APACHE 102 WELL #: 15 PITS: SEP., BLOW DATE FINISHED: _ QUAD/UNIT: P SEC: 9 TWP: 200 RNG: 4W PM:NM CNTY: PA ST: NM ENVIRONMENTAL REP QTP/FOBTAGE SE/4 SE/4 CONTRACTOR: P+S SOIL REMEDIATION: APPROX. CUBIC YARDAGE: 375 REMEDIATION SYSTEM: LANDFARM LAND USE: ____ RANGE LIFT DEPTH (ft): _____ FELD NOTES & REMARKS: TEFTH TO GROUNDWATER: >100' NEAREST WATER SOURCE: >1000' NEAREST SURFACE WATER: > 1000' NMOSI RANKING SCORE: O NMOCD TPH CLOSURE STD: 5000 PPM DK YELLOWISH BROWN SAND, NON CONESIVE, SLIGHTLY MOIST . MOIST, FIRM. NO APPARENT STAINING, NO HE ODOR DETECTED, SAMPLING DEPTHS RANGE FROM 6"-10" COLLECTED A SPT COMPOSITE SAMPLE FOR LAB ANALYSIS FIELD 418.1 CALCULATIONS WEIGHT (g) | mL. FREON DILUTION | READING | CALC. ppm SAMP. TIME SAMPLE I.D. LAB No: SKETCH/SAMPLE LOCATIONS LAB SAMPLES OVM RESULTS RESULTS ANALYSIS FIELD HEADSPACE PID (ppm) SAMPLE (BOIS) 1415 3 - 81'. N 80° W 15.2 LF-1 37.0 45.1 123

SCALE

TRAVEL NOTES:

CALLOUT:

FT

ONSITE: 5 13.99



EPA METHOD 8015 Modified Nonhalogenated Volatile Organics Total Petroleum Hydrocarbons

Client: Sample ID: Laboratory Number: Chain of Custody No: Sample Matrix: Preservative:	Blagg / AMOCO LF - 1 F253 6930 Soil Cool	Project #: Date Reported: Date Sampled: Date Received: Date Extracted: Date Analyzed:	403410 05-17-99 05-13-99 05-14-99 05-17-99 05-17-99
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	6.8	0.2
Diesel Range (C10 - C28)	8.4	0.1
Total Petroleum Hydrocarbons	15.2	0.2

ND - Parameter not detected at the stated detection limit.

References:

Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste,

SW-846, USEPA, December 1996.

Comments:

Jicarilla Apache 102 - 15 Landfarm. 5 Pt. Composite.

Analyst L. Cycle

Review Jende

	7	Cool - Ice/Blue Ice	0615	(505) 632-0615				
	7	Received Intact	hway 64 //exico 87401	5796 U.S. Highway 64 Farmington New Mexico 8740				
Z	~							
	eipt	Sample Receipt	CHINC	FOVIROTECH IO				
			Received by: (Signature)	Rесеiv			ure)	Relinquished by: (Signature)
			Received by: (Signature)	Recei			ıre)	Relinquished by: (Signature)
Time 725	Date 5-14-99	(;) D	Received by: (Signature)	Date Time Recent			l Tre)	Relinquished by (Signature)
								/
					-			
	-	0000						
EDVE-	Pes	SAMPLE PRESERVE						
4	less!	SPT-COMPOSITE		SOIL	F253	1415	5.1399	15-1
			1	Sample Matrix	Lab Number	Sample Time	Sample Date	Sample No./ Identification
	Hemarks	Heg	o. of cainers	410	CIBIL NO.			Sampler: REP
				200000	Clima No.			
		AMETERS	ANALYSIS / PARAMETERS	JICARILLA APACHE 102-15	JICAPILLA		8	BLAGA /AHOCO
				MARARM	Project postion / ALDERA			Client / Project Name