JICARILLA APACHE TRIBE DECEMPINATION OFFICE P.O. BOX 507 JUL 1 3 1999 DULCE, NEW MEXICO 87528

DEPUTY OIL & GAS ADMINISTRATIO:
AUG 1 3 1999

OLL GOM. PHIXEMEDIATION AND CLOSURE REPORT

	(505) 326-9200
Operator: AMOCO PRODUCTION COMPANY	Telephone: (505) 326-9200
Address: 200 Amoco Court, Farmington, N	M 87401
Facility or Well Name: JICARILLA A #	
Location: Unit or Qtr/Qtr Sec_D Sec_17 T2	GN R 5W County RIO ACRIBA
Location: One of Quiyet See	DONCTION TRUK
	300 (1) 31
Land Type: 2ANCE	
I it Location.	14', width(9', depth6'
Reference: wellnead,	other
Footage from reference: 14	<u>'5'</u>
Direction from reference:/	Degrees East North
	West South X
Depth To Groundwater: (Vertical distance from contaminants to seasonal high water elevation of groundwater)	Less than 50 feet (20 points) 50 feet to 99 feet (10 points) Greater than 100 feet (0 points)
Distance to an Ephemeral Stream (Downgradient dry wash greater than ten feet in width)	Less than 100 feet (10 points) Greater than 100 feet (0 points)
Distance to Nearest Lake, Playa, or Watering Pond (Downgradient lakes, playas and livestock or wildlife watering ponds)	Less than 100 feet (10 points) Greater than 100 feet (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 (20 points) \bigcirc No (0 points) \bigcirc
Distance To SurfaceWater: (Horizontal distance to perennial lakes, ponds, rivers, streams, creeks, irrigation canals and ditches)	Less than 100 feet (20 points) 100 feet to 1000 feet (10 points) Greater than 1000 feet (0 points)
	RANKING SCORE (TOTAL POINTS):

			BJG	34 PROD. TA	NK PIT
			Date Completed		
Date Remediation Star	rted:		Approx. cubic ya	rde	50
Remediation Method:	Excavation \times				
Theck all appropriate sections)	Landfarmed]	Insitu Bioremediat	tion	
	Other				
Remediation Location: (i.e. landfarmed onsite, name and location of offsite facility)					
General Description o	f Remedial Action: Exc	avation.	BEDROCK B		
Groundwater Encount	ered: No 🔀	Yes	Depth		
Closure Sampling:	Sample location see At				
attach sample results	Sample depth4	SOUTH_	SIDENOIL)		
and diagram of sample locations and depths)	Sample date	198	Sample ti	me /400	
		/ _/ 			
	Sample Results			D	(ppb)
H	Soil: Benzene	(ppm)	water:	Benzene	
	Total BTEX	(ppm)		Toluene	(ppb)
	Field Headspace			Ethylbenzene	(ppb)
	ТРН	(ppm) <u>32</u>	8_	Total Xylenes	(ppb)
Groundwater Sample:					
I HEREBY CERTIFY KNOWLEGE AND BI	THAT THE INFORMATIC	ON ABOVE IS	TRUE AND CO	MPLETE TO	THE BEST OF MY
DATE	11/24/98 PRI	NTED NAME	Buddy D.	Shaw	
SIGNATURE Sud	ly D. Dhaw A	ND TITLE	FILATIONME	incar coore	
AFTER REVIEW OF TO THE JICARILLA	THE PIT CLOSURE INFO APACHE TRIBE PIT CLO	RMATION, P SURE ORDI	IT CLOSURE IS NANCE.	APPROVED 1	N ACCORDANCI
APPROVED: YES	NO (REASON))			
SIGNED:	C7110 CC	DATE:	12-28-	98	

BLAGG ENGINEERING, INC. P.O. BOX 87, BLOOMFIELD, NM 87413 (505) 632-1199	C.D.C. ND: 63/4
FIELD REPORT: CLOSURE VERIFICATION	
QUAD/UNIT: D SEC: 17 TWP: ZEN RNG: 5W PM:NM CNTY: RA ST:NM QTR/FOOTAGE: 940 FNL / 1000 FNL CONTRACTOR: P+5	DATE STARTED: #/23/98 DATE FINISHED: ENVIRONMENTAL NV
EXCAVATION APPROX. 4 FT. x 19 FT. x 6 FT. DEEP. CUBIC DISPOSAL FACILITY: 00-5176 REMEDIATION METHOLAND USE: RANGE LEASE: TIC P FOR	D: LANDFARM
SOIL AND EXCAVATION DESCRIPTION:	E WATER:
SIDE-PILE - DR. YELL. BLOWN SAND NON COLLECTUE SUBJ NO APPARENT STAINING BESELVED NO APPAREN ANY DE TIVE OUM SIMPLES!	FIBERGLASS TANK INSTALLED 1.276 MOIST PERM IT HE GOOR IN
BOTTOM - BEDROCK (SANDSTONE) DR. YELL. BROWN IN COLOR STAINING NO APPRIZENT 17C DOOR DETECTED WILL IN OUM FAMPLE. BEDROCK CLOSED TIME SAMPLE I.D. LAB NO: WEIGHT (9) ML. FREON DI SCALE 1400	
O FT PIT PERIMETER 4N OVM RESULTS A	PROFILE , A
19 19 19 19 19 19 19 19	BEDROCK (SS)



EPA METHOD 418.1 TOTAL PETROLEUM HYDROCARBONS

			Det.
Condition:	Cool and Intact	Analysis Needed:	TPH-418.1
Preservative:	Cool	Date Analyzed:	11-24-98
Sample Matrix:	Soil	Date Extracted:	11-24-98
Chain of Custody No:	6314	Date Received:	11-24-98
Laboratory Number:	E212	Date Sampled:	11-23-98
Sample ID:	3 @ 4'	Date Reported:	11-24-98
Client:	Blagg / AMOCO	Project #:	04034-10

		Det.
	oncentration	Limit
Parameter	(mg/kg)	(mg/kg)

Total Petroleum Hydrocarbons

328

5.0

ND = Parameter not detected at the stated detection limit.

References:

Method 418.1, Petroleum Hydrocarbons, Total Recoverable, Chemical Analysis of Water

and Waste, USEPA Storet No. 4551, 1978.

Comments:

Jicarilla A #7E Production Tank Pit.

Decent. aperen

Stacy W Sendler.

CHAIN OF CUSTODY RECORD

	1	•	exico 87401 615	Farmington, New Mexico 87401 (505) 632-0615				
	A	Received Intact	way 64	5796 U.S. Highway 64				
¥	<u>≺</u> z							
	ξ	Sample Receipt	HINC HINC	FOVIROTECH IN				
			Received by: (Signature)	Receiv			ature)	Relinquished by: (Signature)
			Received by: (Signature)	Receiv			ature) (Relinquished by: (Signature) C
Time 2/7/9	\$	//シ/:	Received by: (Signature)	Date Time Receive	//		ature)	Relinquished by: (Signature)
		/ Acces.	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	3012	2	1400	1/25/78	
٢	047	Passell - cool		3	だ313	00111	ade7"	(3) 6 4'
			N/ Con/ 14/9	Sample Matrix	Lab Number	Sample Time	Sample Date	Sample No./ Identification
			o. of taine OH 3.)		04034-10			NIN
	द्ध	Remarks)		Client No.			Sampler:
		WETERS	ANALYSIS / PARAMETERS	A #7E	Project Location プ cみ <i>れ</i> _い しい の		Amoco	Client / Project Name, BLRES / Amoco

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

SUBMIT I COPY TO

NATURAL RESOURCE DEPT

AND OIL & GAS ADMINISTRATIO:

PIT REMEDIATION AND CLOSURE REPORT

	2000
Operator: AMOCO PRODUCTION COMPANY	Telephone: (505)326-9200
Address: 200 Amoco Court, Farmington, N	
Facility or Well Name: JICARILLA A	#7E
Location: Unit or Qtr/Qtr Sec_D Sec_17 T2	62 R SW County X10 Filed St.
Pit Type: Separator Other Other	
Land Type	
Pit Location: Pit dimensions: length	25', width 16', depth 3'
	other
Footage from reference: 130	<u>, , , , , , , , , , , , , , , , , , , </u>
Direction from reference:3	Degrees East North
	West South
Depth To Groundwater: (Vertical distance from contaminants to seasonal high water elevation of	Less than 50 feet (20 points) 50 feet to 99 feet (10 points) Greater than 100 feet (0 points)
groundwater) Distance to an Ephemeral Stream (Downgradient dry wash greater than ten feet in width)	Less than 100 feet (10 points) Greater than 100 feet (0 points)
Distance to Nearest Lake, Playa, or Watering Pond (Downgradient lakes, playas and livestock or wildlife watering ponds)	Less than 100 feet (10 points) Greater than 100 feet (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 (20 points) One (0 points)
Distance To SurfaceWater: (Horizontal distance to perennial lakes, ponds, rivers, streams, creeks, irrigation canals and ditches)	Less than 100 feet (20 points) 100 feet to 1000 feet (10 points) Greater than 1000 feet (0 points)
	RANKING SCORE (TOTAL POINTS):

			B J 68	34 SEP.	PIT
Date Remediation State	rted:	D	ate Completed	ı:	3/98
Remediation Method:	Excavation ×	Ap	prox. cubic ya:	rds	20
Check all appropriate	Landfarmed				
sections)					
Remediation Location: (i.e. landfarmed onsite, name and location of offsite facility)					
General Description o	f Remedial Action: Exc	cavation. 🖘	W COLLEGES	ostly bend	CK, THEREFURE
NO TOH PAPE	VS15 WAS CONDUCTED),	•		
Groundwater Encount	ered: No X	Yes I	Depth		
Closure Sampling: (if multiple samples,	Sample location <u>see A</u>				
and diagram of sample locations and depths)	Sample depth $\frac{3}{ }$	48 8000m	Sample tii	me <u>/4/5</u>	
	Sample Results				
11	Soil: Benzene	(ppm)	Water:	Benzene	(ppb)
	Total BTEX	(ppm)		Toluene	(ppb)
	Field Headspace	(ppm) <u>6.0</u>		Ethylbenzene	(ppb)
	ТРН	(ppm) //A	_	Total Xylenes	(ppb)
Groundwater Sample:					
I HEREBY CERTIFY KNOWLEGE AND BE	THAT THE INFORMATI	ON ABOVE IS T	RUE AND CO	MPLETE TO	THE BEST OF MY
DATE	11/23/98 _, _PR	INTED NAME _	Buddy D.	Shaw	
SIGNATURE BLD.	2	AND TITLE _		ntal Coord	inator
SIGNATURE CACAL					

BLAGG ENGINEERING, INC. P.O. BOX 87, BLOOMFIELD, NM 87413 (505) 632-1199	C.D.C. ND:
FIELD REPORT: CLOSURE VERIFICATION LOCATION: NAME: 11CA. A WELL #: 7 E PIT: SEP. QUAD/UNIT: D SEC: 17 TWP: 26 PRIG: SW PM: NM CNTY: RA ST: NM QTR/FOOTAGE: 945 FAL / 1000 FWL CONTRACTOR: PCS	PAGE No: / of / DATE STARTED: //23/98 DATE FINISHED: ENVIRONMENTAL SPECIALIST:
EXCAVATION APPROX. 75 FT. x 16 FT. x 3 FT. DEEP. CUBIC DISPOSAL FACILITY: ON-SITE REMEDIATION METHOLAND USE: RANGE LEASE: JIC 7 FOR FOR FIELD NOTES & REMARKS: PIT LOCATED APPROXIMATELY 130 FT.	D: LANDFREM RMATION: <u>OR</u> S3(E FROM WELLHEAD.
SOIL AND EXCAVATION DESCRIPTION:	PIT ABANDONED STEEL TANK INSTALLED FIBERGLASS TANK INSTALLED
EXERUATION CONSISTED OF MOSTLY BEORDEX (SANDS) BROWN IN COLOR, VERY HARD NO APPARENT STAINI OBSERVED DETECTED WIN EXCRIPTION, NO APPARENT HE SIND'SLE OF SAMPLE COLLECTED FROM BEORDE) C. THEA ANALYSIS WAS CONDUCTED. EXCRUTION FIELD 418.1 CALCULATIONS RESPORTED TIME SAMPLE I.D. LAB NO: WEIGHT (9) ML. FREON DI	
SCALE 1915 O FT PIT PERIMETER OVM RESULTS SAMPLE FIELD HEADSPACE PIC (ppn.) 1 @ 3' G.O 2 @ 3 @ 4 @ 1 77 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	PROFILE A
TRAVEL NOTES: CALLOUT: SOPE MARCON ONSITE:	BEOROCK (SS)

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

Operator: AMOCO PRODUCTION COMPANY	Telephone: (505) 326-9200			
Address: 200 Amoco Court, Farmington,	NM 87401			
Facility or Well Name: 5. CARILLA A 7E				
Location: Unit or Qtr/Qtr Sec_D Sec_/7 T_	260 R SW County RIO ARRIBA			
Land Type:				
Date Remediation Started: // 28-98	Date Completed: 6/2/99			
Remediation Method: Landfarmed	Approx. cubic yards _70			
Composted	,			
Other				
Depth To Groundwater: (pts.)	Final Closure Sampling:			
Distance to an Ephemeral Stream (pts.)	Sampling Date: 6 1 9 9 Time: 0850			
Distance to Nearest Lake, Playa, or Watering Pond (pts.)	Sample Results: Field Headspace (ppm) 30.8			
Wellhead Protection Area: (pts.) O	TPH (ppm) 200 Method (8015)			
Distance To SurfaceWater: (pts.)	Other			
RANKING SCORE (TOTAL POINTS):O				
I HEREBY CERTIFY THAT THE INFORMATION ABOVE IS TRUE AND COMPLETE TO THE BEST OF MY KNOWLEGE AND BELIEF				
DATE 6/Z 99 PRINTED NAME Buddy D. Shaw				
SIGNATURE Bully S. Show AND TITLE Environmental Coordinator				
AFTER REVIEW OF THE SOIL REMEDIATION INFORMATION, ON-SITE REMEDIATION IS APPROVED IN ACCORDANCE TO THE JICARILLA APACHE TRIBE PIT CLOSURE ORDINANCE.				
APPROVED: YES NO (REASON)				
SIGNED: DATE:	6-18-99			

P.O. BOX 87, BL	OOMFIELD, NM 87413 LOCATION NO: 85 (84) 632-1199 C.O.C. NO: 7052
FIELD REPORT: LANDFARM/COM	IPOST PILE CLOSURE VERIFICATION
QUAD/UNIT: D SEC: 17 TWP: 26N RNG: 5N	DATE FINISHED:
DIP/FOOTAGE: NW/4 NW/4 CONTRACTOR:	FNVIRONMENTAL
SOL REMEDIATION:	
REMEDIATION SYSTEM: LANDFARM LAND USE: RANGE	APPROX. CUBIC YARDAGE: LIFT DEPTH (ft):
FIELD NOTES & REMARKS:	
DEPTH TO GROUNDWATER: > 100 NEAREST WATER SOURCE	
NMEGER RANKING SCORE: NMOCD TPH CLOSURE ST	
MODERATE YELLOWISH BROWN SAND, NON CON NO APPARENT STAINING, HC ODOR DETECTE	
SAMPLING DEPTHS RANGE FROM 6"-10"	COLLECTED A SPT. COMPOSITE
SANTLE FOR LAB ANALYSIS. (CLOSED)	
	8.1 CALCULATIONS
SAMP. TIME SAMPLE I.D. LAB No: WEIGH	T (g) mL. FREON DILUTION READING CALC. ppm
CAMPICAL (CAMPIA)	
SKETCH/SAMPLE LOCATIONS	7
T ()	
	OVM RESULTS LAB SAMPLES
à 3	SAMPLE FIELD HEADSPACE SAMPLE ANALYSIS TIME RESULTS
	LF-1 30.8 LF-1 (8015) 0850 200
7	
E	
·	SCALE
TRAVEL NOTES:	0 FT

CALLOUT: N/A ONSITE: 6.1.99



EPA METHOD 8015 Modified Nonhalogenated Volatile Organics Total Petroleum Hydrocarbons

Client:	Blagg / AMOCO	Project #:	403410
Sample ID:	LF - 1	Date Reported:	06-02-99
Laboratory Number:	F442	Date Sampled:	06-01-99
Chain of Custody No:	7052	Date Received:	06-02-99
Sample Matrix:	Soil	Date Extracted:	06-02-99
Preservative:	Cool	Date Analyzed:	06-02-99
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	10.3	0.2
Diesel Range (C10 - C28)	190	0.1
Total Petroleum Hydrocarbons	200	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 A - 7E Landfarm. 5 Pt. Composite.

Analyst

Stacy W Sendler

CHAIN OF CUSTODY RECORD

'	7	Cool - Ice/Blue Ice	2-0615	(505) 632-0615				
	1	Received Intact	ghway 64 Mexico 87401	5796 U.S. Highway 64 Farmington New Mexico 874				
Z	≺							
	ceipt	Sample Receipt	CHINC	ENVIROTECH IN				
			Received by: (Signature)	Яес			ıre)	Relinquished by: (Signature)
			Received by: (Signature)				ıre)	Relinquished by: (Signature)
Time 7,5	Date 6.2.79	C.2	Received by: (Signature)	Date Time Rec			\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	Relinquished by (Signature)
				-				
	7	2000						
3723	FRES	SAMPLE PRESERGE						
16	128	SPT. CONTOSTE	7	5011	F442	0850	6-1.99 0850	LF-1
			N Con	Sample Matrix	Lab Number	Sample Time	Sample Date	Sample No./
			o. of tainer	10	403410			REP
	Remarks	Rei			Client No.			Sampler:
		AMETERS	ANALYSIS / PARAMETERS	a A - 7E	JICARILLA A - 76		1000	BCAGG/AMOCO