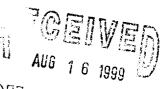
### JICARILLA APACHE TRIBE ENVIRONMENTAL PROTECTION OFFICE P.O. BOX 507 DULCE, NEW MEXICO 87528

BT537

SUBMIT 1 COPY TO

NATURAL RESOURCE DEPT

AND OIL & GAS ADMINISTRATION



### PIT REMEDIATION AND CLOSURE REPORT

	Same William
Operator: AMOCO PRODUCTION COMPANY	Telephone: (505) 36639200
Address: 200 Amoco Court, Farmington, N	м 87401
Facility or Well Name: JI CARILLA CONTRACT	146 - 13R
Location: Unit or Qtr/Qtr Sec Sec9 T	SN RSW County KIO MIGGISTI
Pit Type: Separator Dehydrator Other	
Land Type: Range	
I il Location.	88 , width 50 , depth /5
(Attach diagram)  Reference: wellhead X,	other
Footage from reference: 483	3 '
Direction from reference: 28	Post Degrees East North Of South
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) No (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):

Date Completed: 3/4/98 Date Remediation Started: Approx. cubic yards \_\_\_\_\_700 Excavation X Remediation Method: Insitu Bioremediation \_\_\_\_\_ k all appropriate Landfarmed sections) Other \_\_\_\_\_ Onsite X Offsite \_\_\_\_\_ Remediation Location: (i.e. landfarmed onsite, name and location of General Description of Remedial Action: Excavation, BEDROCK BOTTOM offsite facility) No Yes \_\_\_\_ Depth \_\_\_\_ Groundwater Encountered: Sample location see Attached Documents Final Pit: Closure Sampling: Sample depth 9'Sample date 3/2/98 Sample time 1/05(if multiple samples, attach sample results and diagram of sample locations and depths) Sample Results (ppb) \_\_\_\_\_ Water: Benzene (ppm) \_\_\_\_\_ Soil: Benzene (ppb) \_\_\_\_\_ Toluene (ppm) \_\_\_\_\_ Total BTEX (ppb) \_\_\_\_\_ Field Headspace (ppm) \_0.0 Ethylbenzene (ppm) <u>-16.9</u> (ppb) \_\_\_\_\_ Total Xylenes **TPH** Yes \_\_\_\_\_ No \_\_\_ (If yes, attach sample results) Groundwater Sample: I HEREBY CERTIFY THAT THE INFORMATION ABOVE IS TRUE AND COMPLETE TO THE BEST OF MY KNOWLEGE AND BELIEF PRINTED NAME Buddy D. Shaw

AND TITLE Environmental DATE Environmental Coordinator AFTER REVIEW OF THE PIT CLOSURE INFORMATION, PIT CLOSURE IS APPROVED IN ACCORDANCE TO THE JICARILLA APACHE TRIBE PIT CLOSURE ORDINANCE. APPROVED: YES \_\_\_\_\_ NO \_\_\_\_ (REASON) \_\_\_\_\_

SIGNED: \_\_\_\_\_

DATE: \_\_\_\_\_

1110C0				0
CLIENT: AMOCO	PO BOX 87.	ENGINEERING, IN BLOOMFIELD, NA	IC. 1 87413	C.O.C. NO: 5733
FIELD REPO	RT: CLOSU	5) 632-1199 RE VERIFIC.	ATION	PAGE No: _/ of _/
LOCATION: NAME: TOPE  QUAD/UNIT: J SEC: 4  QTR/FDDTAGE: NOIN	う TWP: こ5~ RNG:	SW PM: NAT CHIT.	W RA ST: MM	DATE STARTED:
EXCAVATION APPROX  DISPOSAL FACILITY: LAND USE: RANGE	38 FT x 50 F 02-517E LEAS	TT. x _15 FT. DEE REMEDIATION E:110_146	N METHO	RMATION: DK
FIELD NOTES & REMADEPTH TO GROUNDWATER: >  NMOCD RANKING SCORE: SOIL AND EXCAVAT  MOSTLY OF THE EXCAVATION SAMPLES.	NEAREST WATER S  NHOOD THE CLOSU  ION DESCRIPTION:  NO. YELL BROWN  NO. APPARENT  NO. APPARENT	SAND TO SILTY S STRIKING OR HC HC 003/2 0856	ENNO, NON OF	E WATER:  CHECK DINE:  PIT ABANDONED  STEEL TANK INSTALLED  FIBERGLASS TANK INSTALL  COHESIVE SUGHT  SERVED WIN  NAY OF THE OUT
BOTOM - SCALE	TIME SAMPLE I.E.	EXC. D. 4101 CA	I CHI ATIMNS	DILUTION READING CALC. PR
O FT	METER N	all I	PIT	PROFILE
A .	i			
To West	1 <u>e</u>   2 <u>e</u>   3 <u>e</u>   4 <u>e</u>   5 <u>e</u>	9' 0.0	A	38'
TO WELL 1/186	3 A 1 e 2 e 3 e 5 e 5 e 5 e 5 e 5 e 5 e 5 e 5 e 5	RESULTS  MPLE   FIELD HEADSPACE   PID (ppm.)   PID (ppm.)	T )	,



### EPA METHOD 418.1 TOTAL PETROLEUM HYDROCARBONS

Client:	Blagg / AMOCO	Project #: Date Reported: Date Sampled: Date Received:	04034-10
Sample ID:	4 @ 9'		03-03-98
Laboratory Number:	C963		03-02-98
Chain of Custody No:	5733		03-03-98
Sample Matrix:	Soil	Date Extracted:	03-03-98
Preservative: Condition:	Cool	Date Analyzed:	03-03-98
	Cool and Intact	Analysis Needed:	TPH-418.1

i		Det.
	Concentration	Limit
Parameter	(mg/kg)	(mg/kg)

**Total Petroleum Hydrocarbons** 

16.9

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 Contract 146-13R Blow Pit.

Analyst L. Chieven

Stacy W Sendler

## CHAIN OF CUSTODY RECORD

	Relinquished by: (Signature)	Relinquished by: (Signature)	Relinquished by Signature)  Liton III						(4) @ 9' 3/z/98	Sample No./ Sample Identification Date	Makon Vel	Sampler: (Signature)	BLAGE/ Auroco	Client/Project Name	
									1105	Sample Time		0	<b>C</b> 1	9	1
·			. w		A Property of the Control of the Con				0963	Lab Number	01-75070	Chain of Custody Tape No.	TICARILLA CONTRACT	Project Location	<u> </u>
ENVIROTECH INC. 5796 U.S. Highway 64-3014 Farmington, New Mexico 87401 (505) 632-0615			3/3/98 0728	Sample					5012	Sample Matrix	4-10	Vo.	MRACT 146-13R	SLOW PIT	CHAIN OF COSTODY RECO
ECH IO( 1way 64-301- 7 Mexico 87 2-0615	Received by: (Signature)	Received by: (Signature)	Received by: (Signature)	RECEIVED	2				/	N- Con	o. of tainers		3%		2
δ * C)	Signature)		Signature)						~	(41	PH 8.1	)			
		-	50	COOL									ANA		
			)	d INTRO	:								ANALYSIS/PAHAMETERS		
				C XX								<u>-</u>	WEIENO		
				(					RESERV						
			Date \$ .3.99						1			Remarks			
			Time 0728						COOL						

### 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**

a lyong propyomator	COMPANY	m.l. Law. (505) 226 0200
Operator: AMOCO PRODUCTION	COMPANY	Telephone: (505) 326-9200
Address: 200 Amoco Court,	Farmington,	NM 87401
Facility or Well Name: <u>JICARILLA</u>	CONTRACT 1	46 13R
Location: Unit or Qtr/Qtr Sec_ユ	Sec_ <i>9</i> T <i>2</i>	SN RSW County PIO ARRIBA
Land Type:		
Date Remediation Started: 3 2	98	Date Completed: 5/4/99
Remediation Method: Landfarmed		Approx. cubic yards _700
Composted		
Other		
		Einel Cleanes Compliant
epth To Groundwater:		Final Closure Sampling:
Distance to an Ephemeral Stream	(pts.)	Sampling Date: <u>5.3.99</u> Time: <u>0950</u>
Distance to Nearest Lake, Playa, or Watering Pond	(pts.)	Sample Results:
Wellhead Protection Area:		Field Headspace (ppm)O.O
	(pts.)	TPH (ppm) ND Method (8015)
Distance To SurfaceWater:	(pts.) <u>0</u>	Other
RANKING SCORE (TOTAL POIN	(TS): <u>0</u>	
I HEREBY CERTIFY THAT THE INFO KNOWLEGE AND BELIEF	PRMATION ABOVE	E IS TRUE AND COMPLETE TO THE BEST OF MY
DATE 5/4/99	DDINITED A	NAME Buddy D. Shaw
DATE $\frac{514199}{R}$	PRINTED	AND TITLE Environmental Coordinator
SIGNATURE JUNEAU W.	haw	AND TITLE Environmental Coordinator
AFTER REVIEW OF THE SOIL REME ACCORDANCE TO THE JICARILLA	DIATION INFORM APACHE TRIBE PI	ATION, ON-SITE REMEDIATION IS APPROVED IN CLOSURE ORDINANCE.
APPROVED: YES NO	(REASON)	
SIGNED:	DATE	; <u></u>

BLAGG ENGINEERING, INC. OLIENT: Amoco LOCATION NO: BJ537 P.O. BOX 87, BLOOMFIELD, NM 87413 C.O.C. NO 6904 (505) 632-1199 LANDFARM/COMPOST PILE CLOSURE VERIFICATION FIELD REPORT: DATE STARTED: 5.3.99 COCATION: NAME JUARILLA CONTRACT 144 WELL #: 13R PITS: RLOW DATE FINISHED: \_ QUAD/UNIT: J SEC: 9 TWP: 25N RNG: SW PM: NM CNTY: PA ST: NM ENVIRONMENTAL PEP CTR/FOOTAGE NW/4 SE/4 CONTRACTOR: PLS JUL REMEDIATION: APPROX. CUBIC YARDAGE: 700 REMEDIATION SYSTEM: LANDFARM LIFT DEPTH (ft): 2-5-3 RANGE LAND USE: FELD NOTES & REMARKS: DEPTH TO GROUNDWATER: >100' NEAREST WATER SOURCE: >1000' NEAREST SURFACE WATER: >1000' NMCII PANKING SCORE \_\_\_\_\_ NMOCD TPH CLOSURE STD: \_<000 PPM DK YELLOWISH BROWN SAND, NON COHESIVE SLIGHTLY MOIST FIRM NO APPARENT STAINING, NO HE ODOR DETECTED SAMPLING DEPTHS PANGE FROM 6"-18" COLLECTED A SPT COMPOSITE SAMPLE FOR LAB ANALYSIS FIELD 418.1 CALCULATIONS SAMP. TIME SAMPLE I.D. LAB No: WEIGHT (g) ML. FREON DILUTION READING CALC. ppm SKETCH/SAMPLE LOCATIONS LAB SAMPLES OVM RESULTS FIELD HEADSPACE PID (ppm) ANALYSIS RESULTS SAMPLE ND (BOIS) 0950 LF-1 0.0 1F-1 SCALE ONSITE: \_5, 3.99 TRAVEL NOTES. CALLOUT: NA



### EPA METHOD 8015 Modified Nonhalogenated Volatile Organics Total Petroleum Hydrocarbons

Gasoline Range (C5 - C		ND ND	0.2 0.1
Parameter		Concentration (mg/Kg)	Det. Limit (mg/Kg
Client: Sample ID: Laboratory Number: Chain of Custody No: Sample Matrix: Preservative: Condition:	Blagg / AMOCO LF - 1 F118 6904 Soil Cool Cool and Intact	Project #: Date Reported: Date Sampled: Date Received: Date Extracted: Date Analyzed: Analysis Requested:	403410 05-04-99 05-03-99 05-04-99 05-04-99 8015 TPH

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 Contract 146 - 13R Landfarm. 5 Pt. Composite.

Decen P. Ogenen Analyst Stacy W Sendler
Review

# CHAIN OF CUSTODY RECORD

Client / Project Name	Project Location LANDFARM	AMPEARM		ANALYSIS / PARAMETERS	ERS
BLACES/AMOCO	JICARILLA CONTRACT	NTRACT 146-13R	- CS		Remarks
Sampler:	Client No.		ers		
REP	403410		Н		
Sample No./ Sample Sample	٦	Sample Matrix	N Con TP:		
8	E 11 8	7105	7		SPT. COMPOSITE
(F - 1					
					SAMPLE PRESERV
					2001
					Date Time
Relinquished by (Signature)		Date Time Rec	Received by: (Signature)	alenen	70
Relinquished by: (Signature)			Received by: (Signature)		
Relinquished by: (Signature)		Re	Received by: (Signature)		
		ENVIROTECH I	CH INC.		Sample Receipt
		5796 U.S. Highway 64	lighway 64		Received Intact
		Farmington, New Mexico 87401	V Mexico 8/401		Cool - Ice/Blue Ice