JICARILLA APACHE TRIBEBOUTH - 87551 SUBMIT 1 COPY

ENVIRONMENTAL PROTECTION OFFICE P.O. BOX 507

NATURAL RESOURCE DEPT AND OIL & GAS ADMINISTRATION

**DULCE, NEW MEXICO 87528** 

### PIT REMEDIATION AND CLOSURE REPORT

Telephone: (\$05)336-9200 Operator: AMOCO PRODUCTION COMPANY Address: 200 Amoco Court, Farmington, NM 87401 Facility or Well Name: TICARILLA APRCHE TUBRL 151-8

Location: Unit or Qtr/Qtr Sec O Sec 3 T Z6N R 4W County R10 ARRIBA Separator\_\_\_\_ Other\_\_\_\_\_ SLOW (I) Pit Type: Land Type: LANGE Pit dimensions: length 17, width 13, depth 10 Pit Location: (Attach diagram) Reference: wellhead X , other \_\_\_\_\_ Footage from reference: 117 North \_\_ Direction from reference: 64 Degrees X East South \_\_\_\_ Less than 50 feet (20 points) **Depth To Groundwater:** (10 points) 50 feet to 99 feet 0 (Vertical distance from ( 0 points) Greater than 100 feet contaminants to seasonal high water elevation of groundwater) (10 points) Less than 100 feet Distance to an Ephemeral Stream (0 points) Greater than 100 feet (Downgradient dry wash greater than ten feet in width) (10 points) Distance to Nearest Lake, Playa, or Watering Pond Less than 100 feet ( 0 points) Greater than 100 feet (Downgradient lakes, playas and livestock or wildlife watering ponds) Yes (20 points) Wellhead Protection Area: ( 0 points) No (Less than 200 feet from a private domestic water source, or: less than 1000 feet from all other water sources) (20 points) Less than 100 feet Distance To SurfaceWater: (10 points) 100 feet to 1000 feet (Horizontal distance to perennial (0 points) Greater than 1000 feet lakes, ponds, rivers, streams, creeks, irrigation canals and ditches) **RANKING SCORE (TOTAL POINTS):** 

Date Remediation Started:	Date Completed: 5//98
Remediation Method: Excavation	Approx. cubic yards50
Check all appropriate Landfarmed	Insitu Bioremediation
(i.e. landfarmed onsite,	
name and location of offsite facility)	
General Description of Remedial Action: Excar	ration, SPRAYED PIT BOTTOM W/
FERTILIZER.	
Groundwater Encountered: No X	
Final Pit: Sample location see Atta Closure Sampling: (if multiple samples,	ached Documents
	(PIT BOHON)
	8 Sample time 1000
Sample Results	
Soil: Benzene (p	pm) Water: Benzene (ppb)
Total BTEX (p	pm) 0.690 Toluene (ppb)
Field Headspace (p	
	om) 10.4 Total Xylenes (ppb)
Groundwater Sample: Yes No	(If yes, attach sample results)
I HEREBY CERTIFY THAT THE INFORMATION KNOWLEGE AND BELIEF	ABOVE IS TRUE AND COMPLETE TO THE BEST OF MY
DATE 5/1/98 PRINT	TED NAME Buddy D. Shaw
	D TITLE Environmental Coordinator
	MATION, PIT CLOSURE IS APPROVED IN ACCORDANCE
APPROVED: YES X NO (REASON) _	
SIGNED: Lez Ma D	ATE: 5-7-98

CLIENT: AMOCO BLAGG ENGINEERING, INC. P.O. BOX 87, BLOOMFIELD, NM 87413 (505) 632-1199	C.D.C. NO: 5764
FIELD REPORT: CLOSURE VERIFICATION  LOCATION: NAME: JICA. AP. TRBAL IS I WELL # 8 PIT: BLOW (I)  QUAD/UNIT: O SEC: 3 TWP: 26N RNG: 4W PM: NM CNTY: RA STAM  OTR/FOOTAGE: SW/4 SE/4 CONTRACTOR: P+5	PAGE No: _/ of _/  DATE STARTED: _4/30/98  DATE FINISHED:  ENVIRONMENTAL SPECIALIST:
EXCAVATION APPROX. 12 FT. x 13 FT x 10 FT. DEEP. CUBIC DISPOSAL FACILITY: 50-51TE REMEDIATION METHOL LAND USE: REMEDIATION LEASE: TIC IS 1 FO. FO. FIELD NOTES & REMARKS: PIT LOCATED APPROXIMATELY 117 FT. 1	RMATION: DK
DEPTH TO GROUNDWATER: 7100 NEAREST WATER SOURCE: 77300 NEAREST SURFACE  NMOCD RANKING SCORE: NMOCD TPH CLOSURE STE: 5000 PPM  SOIL AND EXCAVATION DESCRIPTION:	CHECK ONE:  PIT ABANDONED  STEEL TANK INSTALLED  FIBERGLASS TANK INSTALLED
MOSTLY OK. YELL. BROWN THROUGHOUT ENTIRE EXCRE CONSIST OF SILTY FAND TO SILTY CLAY BOTTOM HA CLAY - LIGHLY PLASTIC, SLIGHTLY MOIST STIFF TO VERY STAINING OBSTRUED WIN EXCOURTION, NO APPARENT OF THE SIDEWALL OUM SAMPLES PIT BOTTOM CONTRIL IN OUM SAMPLE, VERY COMPACT MATERIAL.	2 213737
SCALE  O FT  PIT PERIMETER AN  OVM  OVM  DESCRIPTIONS  FIELD 418.1 CALCULATIONS  WEIGHT (g) ML. FREON II  OVM  OVM  DESCRIPTIONS  FIELD 418.1 CALCULATIONS  WEIGHT (g) ML. FREON II  OVM  DESCRIPTIONS  FIELD 418.1 CALCULATIONS  OVM  DESCRIPTIONS  DESCRIPT	PROFILE
RESULTS  SAMPLE FIELD HEADSPACE PID (ppm)  125 0.0  2 5 7 0.0  3 5 7 0.0  4 6 5 0.0  4 6 5 0.0  4 6 5 0.0  5 6 10 1 1,419  LAB SAMPLES  SAMPLE ANALYSIS TIME  SOCIO! TAH/BYEN 1000  BOTH PRSSED	SILTY CLAY  SILTY CLAY  SILTY CLAY  CLAY  A  TO  TO  TO  TO  TO  TO  TO  TO  TO
TRAVEL NOTES: CALLOUT: 4/29/98-maln. ONSITE: 4/30/98	morn.



### **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 5 @ 10' D205 5764 Soil Cool Cool and Intact	Project #: Date Reported: Date Sampled: Date Received: Date Extracted: Date Analyzed: Analysis Requested:	04034-10 05-01-98 04-30-98 04-30-98 05-01-98 05-01-98 8015 TPH
Parameter		Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)  Diesel Range (C10 - C28)		8.1	0.2
		2.3	0.1
Total Betroloum Hyd	rocarhone	10.4	0.2

ND - Parameter not detected at the stated detection limit.

**Total Petroleum Hydrocarbons** 

References:

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

SW-846, USEPA, December 1996.

Comments:

Jicarilla Apache Tribal 151 - 8 Blow Pit (I).



# EPA METHOD 8021 AROMATIC VOLATILE ORGANICS

Client: Sample ID: Laboratory Number: Chain of Custody: Sample Matrix: Preservative: Condition:	Blagg / AMOCO 5 @ 10' D205 5764 Soil Cool Cool & Intact	Project #: Date Reported: Date Sampled: Date Received: Date Analyzed: Date Extracted: Analysis Requested:	(	04034-10 05-01-98 04-30-98 04-30-98 05-01-98 05-01-98 BTEX
Parameter		entration (Kg)	Det. Limit (ug/Kg)	
Benzene Toluene Ethylbenzene p,m-Xylene o-Xylene	4	ND 41.9 195 58.9 93.9	17.5 16.7 15.2 21.6 10.4	
Total BTEX		<b>690</b>		

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-84

USEPA, December 1996.

Comments:

Jicarilla Apache Tribal 151 - 8 Blow Pit (I).

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NATURAL RESOURCE DEPT

AND OIL & GAS ADMINISTRATION

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

### PIT REMEDIATION AND CLOSURE REPORT

	(505)206 0200		
Operator: AMOCO PRODUCTION COMPANY	Telephone: (505)326-9200		
Address: 200 Amoco Court, Farmington, N	NM 87401		
Facility or Well Name: TICARIUA APACHE	TRIBAL 151-8		
Location: Unit or Qtr/Qtr Sec Sec T	2610 R YW County RID ARKISA		
Pit Type: Separator Dehydrator Other_&	Low (II)		
Land Type: <u> </u>			
	30', width, depthZ'		
(Attach diagram)  Reference: wellhead X,	other		
Footage from reference: 2	10'		
Direction from reference:	Degrees East North X		
	West 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):		

	arted: Date Completed:4/30/98
	30
neck all appropriate	• •
actions)	Landfarmed Insitu Bioremediation
·	Other
Remediation Location (i.e. landfarmed onsite,	: Onsite X Offsite
name and location of offsite facility)	
General Description	of Remedial Action: Excavation. Only BEDROOK BOTTOM WAS SAMPLED
(PIT UELY SHALLOW)	THEREFURE NO TAH ANNYSIS LIPS CONDUCTED RISK ASSESSED
Groundwater Encoun	tered: No X Yes Depth
Final Pit: Closure Sampling: (if multiple samples,	Sample location see Attached Documents
attach sample results and diagram of sample	Sample depth Z (PIT BOTTOM)
locations and depths)	Sample date 4 30 98 Sample time 1115
	Sample Results
ь.	Soil: Benzene (ppm) Water: Benzene (ppb)
	Total BTEX (ppm) Toluene (ppb)
	Field Headspace (ppm) 385 Ethylbenzene (ppb)
	TPH (ppm) $\nearrow \bigcirc$ Total Xylenes (ppb)
	e: Yes No (If yes, attach sample results)
I HEREBY CERTIFY KNOWLEGE AND E	Y THAT THE INFORMATION ABOVE IS TRUE AND COMPLETE TO THE BEST OF MY BELIEF
DATE	5/1/98 PRINTED NAME Buddy D. Shaw
SIGNATURE BUS	Oly D. Shaw AND TITLE Environmental Coordinator
ATTURN DENIEW OF	F THE PIT CLOSURE INFORMATION, PIT CLOSURE IS APPROVED IN ACCORDANCE A APACHE TRIBE PIT CLOSURE ORDINANCE.
APPROVED: YES_	NO (REASON)
SIGNED:	DATE: 5-7-98

CLIENT: AMOCO	BLAGG ENGINEERING, P.O. BOX 87, BLOOMFIELD, (505) 632-1199	NM 87413  COC NO:	
LOCATION: NAME TO SEC. 3	RT: CLOSURE VERIF  TRIBAL IS I WELL #: 8 PIT:  TWP: 262 RNG: 4 W PM: 2 MM CN  SE 14 CONTRACTOR: PA	BLOW (II)  DATE STARTED: 4  DATE FINISHED: 4  ENVIRONMENTAL	1/30/98
EXCAVATION APPROX. 3.  DISPOSAL FACILITY:	FT x 17 FT x 2 FT.  ON -517E REMEDIA  LEASE: JIC 15  RKS: PIT LOCATED APPROXIMATELY  NEAREST WATER SOURCE: >10001  NMOCD TPH CLOSURE STE: 5000 PP	DEEP. CUBIC YARDAGE:	WELLHEAD.  WELLHEAD.  TALLED  K INSTALLED
RISK ASSESS REDROCK ROTTON SCALE 0 FT	FIELD 418.1  TIME SAMPLE I.D. LAB NO: WEIGHT  11/5  METER 1/N	CALCULATIONS  (g) ml. FREON DILUTION READING  PIT PROFILE	
13' ] A P	SOUTS  SAMPLE FIELD HEADSPACE PID (ppm)  1 @ 2' 385  2 3 4  5 5	ZZ	7 75.
	JT: 4/29/98-marn - ONSITE:	4/30/98 - MORN.	

Well Name:

Well Site location:

Pit Type:

Producing Formation:

Pit Category:

Horizonal Distance to Surface Water:

Vicinity Groundwater Depth:

Jicarilla Apache Tribal 151 #8

Unit O, Sec. 3, T26N, R5W

Blow Pit (II) Basin Dakota

Non Vulnerable

> 1000 ft.

> 100 ft.

### RISK ASSESSMENT (non-vulnerable area)

Pit remediation activities were terminated when trackhoe encountered sandstone bedrock at 2 feet below grade.

No past or future threat to surface water or groundwater is likely based on the following considerations:

- Past production fluids were contained locally by a relatively shallow sandstone bedrock located 2
  feet below grade. Groundwater levels located on or close to the well pad are estimated to be at
  a much greater depth below sandstone bedrock.
- 2. Topographic information does not indicate off site lateral fluid migration near the earthen pit.
- 3. Daily discharge into the earthen pit has been terminated (pit abandoned). Prior discharge into the pit is believed to be under 5 barrels per day.
- 4. Well site located within the <u>non-vulnerable area</u> and is approximately 1.6 miles south of the nearest vulnerable area boundary (Cereza Canyon wash).

(Refer to <u>Vigas Canyon Quadrangle</u>, New Mexico - Rio Arriba County, 7.5 Minute Series (<u>Topographic</u>), photorevised 1982, (vulnerable area boundary developed by Mr. William C. <u>Olson</u>, Hydrogeologist, Environmental Bureau, New Mexico Oil Conservation Division).

Based upon the information given, we conclude that the subsurface lateral impact from the earthen pit is very limited and that the sandstone bottom creates enough of an impermeable barrier as to subdue impact to groundwater below it (please refer to AMOCO's report "Post Excavation Pit Closure Investigation Summary, July, 1995", with cover letter dated November 30, 1995). AMOCO requests pit closure approval on this location.

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

87551 SUBMIT 1 COPY TO NATURAL RESOURCE DEPI

AND OIL & GAS ADMINISTRATION

### PIT REMEDIATION AND CLOSURE REPORT

	(705) 226 0200		
Operator: AMOCO PRODUCTION COMPANY	Telephone: (505) 326-9200	-	
Address: 200 Amoco Court, Farmington, N	м 87401	-	
Facility or Well Name: JICARULA APACHE	TRIBAL 151-8	-	
Location: Unit or Qtr/Qtr Sec_ Sec_ 3 T2	SIJ R4W County R10 ARXIST		
Pit Type: Separator Other		-	
Land Type			
Pit Location: Pit dimensions: length_	35'_, width_ 29', depth_ /5'		
(Attach diagram)  Reference: wellhead X,	other		
Footage from reference:	<u> </u>		
Direction from reference: // Degrees X East North Of West South			
	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)		
proundwater)  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) $\supset$ 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):	<del>==</del> -=	

Date Remediation St	arted: Date Completed: 5/1/98
Remediation Method:	A
Check all appropriate sections)	Landfarmed X Insitu Bioremediation
,	Other
Remediation Location (i.e. landfarmed onsite, name and location of offsite facility)	: Onsite X Offsite
Coneral Description	of Remedial Action: Excavation. BEDROCK BUTTOM. SPRINGS
NORTH & SOUTH	A SIDEWALLS & PIT BOTTOM W) FERTILIZER.
Groundwater Encoun	
Groundwater Elicon	
Final Pit: Closure Sampling: (if multiple samples,	Sample locationsee Attached Documents
attach sample results and diagram of sample	Sample depth /0' (SOUTH SIDEWALL)
locations and depths)	Sample date $\frac{4/30/98}{}$ Sample time $\frac{1045}{}$
	Sample Results
	Soil: Benzene (ppm) 2./2   Water: Benzene (ppb)
	Total BTEX (ppm) 31.750 Toluene (ppb)
	Field Headspace (ppm) 1,673 Ethylbenzene (ppb)
	TPH (ppm) 4,310 Total Xylenes (ppb)
Groundwater Sample	e: Yes No (If yes, attach sample results)
I HEREBY CERTIFY KNOWLEGE AND I	Y THAT THE INFORMATION ABOVE IS TRUE AND COMPLETE TO THE BEST OF MY BELIEF
DATE	SI198PRINTED NAME Buddy D. Shaw
SIGNATURE BLE	PRINTED NAME Buddy D. Shaw  Oly D. Shaw Environmental Coordinator
A PETED DEVIEW OF	THE PIT CLOSURE INFORMATION, PIT CLOSURE IS APPROVED IN ACCORDANCE A APACHE TRIBE PIT CLOSURE ORDINANCE.
APPROVED: YES	NO (REASON)
ISIGNED:	Maul DATE: 5-7-98

	BLAGG ENGIN P.O. BOX 87, BLOOM (505) 33	2-1199	C.O.C. NO: 5 164
LOCATION: NAME: JICA. A	P. TRIBAL IST WELL # 8  TWP: Z6A RNG: 4W F	PIT: SEP  M: NM CNTY: RA ST: NM	DATE STARTED: 4/30/9 8
EXCAVATION APPROX. 3  DISPOSAL FACILITY: LAND USE:	5 FT. x 29 FT. x	REMEDIATION METH	OD:ORMATION:OROROR
DEPTH TO GROUNDWATER: >1  NMOCD RANKING SCORE:	NEAREST WATER SOURCE: NMOOD TPH CLOSURE STOLE  N DESCRIPTION:	SOOO PPM	PIT ABANDONED  STEEL TANK INSTALLED  FIBERGLASS TANK INSTALLED
SILTY SAND APPROX. 9 PLASTIC TO SAMPLE); SAMUL PAT MOST OF STRONG HE BOTOM - GRE	I BELOW GROUND SURFI NIGHTLY PLASTIC SUGHT FIRM TO VERY STIFF SHIP SIDEWALL OBS BOOK IN HORTH H SO ENISH GLAY TO BK YELL O	ACE BOTTOM HALT C LY MUIST TO MOIST STAINING APPARENT CORNER & APPROX. ERVED AS STAINED SUTH SIDEWALL OVM.	(SOUTH SIDEWALL OWN ON NORTH SIDEWALL
SCALE  O FT  PIT PERIM	TIME SAMPLE I.D. LAB N	o: WEIGHT (g) ml. FREON	DILUTION READING CALC. ppm
29 B		ELTS   ELD HEADSPACE   PID (ppm)   623   0.0	Z9'  1'I = 19  1'I = 19  BEDROCK
AUTO-MON SE	LAB SA  SAMPLE ANAL  (3) € 10 7.94 A	MPLES YSIS TIME SOUTH	WIFORMED DEPTH ON  BLL SIDEWALLS  SEDEWALLSTAWED  4' TO PIT BOTTOM
TRAVEL NOTES: CALLOU	IT:	ONSITE: 4/30/98	3



### 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 3 @ 10' D206 5764 Soil Cool Cool and Intact	Project #: Date Reported: Date Sampled: Date Received: Date Extracted: Date Analyzed: Analysis Requested:	04034-10 05-01-98 04-30-98 04-30-98 05-01-98 05-01-98 8015 TPH
Parameter		Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)		3,320	0.2
Diesel Range (C10 - C28)		990	0.1
Total Petroleum Hydrocarbons		4,310	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 Tribal 151 - 8 Separator Pit.

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# EPA METHOD 8021 AROMATIC VOLATILE ORGANICS

	Conc	entration	Det. Limit
Condition:	Cool & Intact	Analysis Requested:	BTEX
Preservative:	Cool	Date Extracted:	05-01-98
Sample Matrix:	Soil	Date Analyzed:	05-01-98
Chain of Custody:	5764	Date Received:	04-30-98
Laboratory Number:	D206	Date Sampled:	04-30-98
Sample ID:	3 @ 10'	Date Reported:	05-01-98
Client:	Blagg / AMOCO	Project #:	04034-10

Parameter	(ug/Kg)	(ug/Kg)
Benzene	121	17.5
Toluene	3,800	16.7
Ethylbenzene	2,320	15.2
p,m-Xylene	19,470	21.6
o-Xylene	6,040	10.4
Total BTEX	31,750	

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-84

USEPA, December 1996.

Comments:

Jicarilla Apache Tribal 151 - 8 Separator Pit.

Alux R. Quesan

Review

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		ture)	y: (Signa	Received by: (Signature					Relinquished by: (Signature)
	1	ture)	y: (Signa	Received by: (Signature)				0	Relinquished by: (Signature)
F.30.97 1443	alu	(enn	(Signa	Received by: (Signature)	Date Time 1/30/98 1443	×		The	Relinquished by: (Signature)
S in the colony	Con	6	h,	3	2 444				
(FOR BOTH SAMPLES)									
THEN RUN BIEX									
1x 794 < 5000 pm									
SEPAIOSTOR PIT		7			5012	Prop	1045	4/30/98/045	30%/01
BLOW PIT (I)					5012	Pzas	1000	4/30/981000	(5)@10'
1/KCKV, - C80 L	800	(80) 870 (80)	Conta	No	Sample Matrix	Lab Number	Sample Time	Sample Date	Sample No./ Identification
1 =		(5) (5)	ainers	of	, 10	Chain of Custody Tape No.			Sampler: (Signature)
ARAMETERS	ANALYSIS/PARAMETERS				APACHE 151 - 8	TICARILLA TRIBAL		Amoco	1
		ORD	REC	TODY	CHAIN OF CUSTODY RECOR	C			

Farmington, New Mexico 87401 (505) 632-0615

# 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**

	<del></del>				
Operator: AMOCO PRODUCTION	COMPANY	Telephone: (505) 326-9200			
Address: 200 Amoco Court,	Farmington,	NM 87401			
Facility or Well Name: <u>JICARWA</u>	APACHE TEIBAL	151-8			
Location: Unit or Qtr/Qtr Sec	Sec <u>3</u> T_ <u>_2</u>	COUNTY RIO ARRIBA			
Land Type: RANGE					
	.98	Date Completed:/ 22 99			
Remediation Method: Landfarmed	_	Approx. cubic yards <u>580</u>			
Composted					
Other					
oth To Groundwater:	(pts.) <u>0</u>	Final Closure Sampling:			
Distance to an Ephemeral Stream	(pts.)	Sampling Date: 1 19 99 Time: 1140			
Distance to Nearest Lake, Playa, Sample Results:					
or Watering Pond (pts.) o Field Headspace (ppm) o.o					
Wellhead Protection Area:	(pts.) <b>0</b>	TPH (ppm) 07 Method 8015			
Distance To SurfaceWater:	(pts.) <b>6</b>	Other			
RANKING SCORE (TOTAL POIN	TS): <u>0</u>				
I HEREBY CERTIFY THAT THE INFO	RMATION ABOVE	IS TRUE AND COMPLETE TO THE BEST OF MY			
1/22/00	DRIMTED N	AME Buddy D. Shaw			
SIGNATURE Bully Shaw 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					
SIGNED: X= C)112	DATE	3-31-99			

CLIENT: AMOCO

## BLAGG ENGINEERING, INC. P.O. BOX 87, BLOOMFIELD, NM 87413

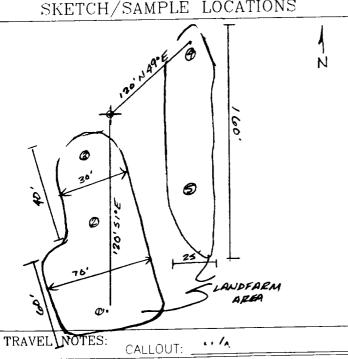
LOCATION NO: 85551

CTC NT: 4558

	1.0. Bon	(505) 632	-1199			U.L.C. IN	
FIELD REPORT:				CLOSU	JRE	VERIFIC	ATION
JICARIL					_   -	DATE STARTED:	1 · 19 <u>7 /</u>
LOCATION: NAME:	RIBAL 151 WE	ELL #: <b>8</b>	PHOSEY.	<b>3</b> 4 00 a	١r	DATE FINISHED:	1 22 99
QUAD/UNIT: O SEC:				EA ST:	U/~ ⊢	NVIRONMENTAL PECIALIST:	
OTR/FOOTAGE: SW/4	SE/4 CON	IRACIOR: V.S				<del></del>	
SOIL REMEDIATION:							
REMEDIATION SYS	STEM: LANDFA	eu				RDAGE: 🚣	80
LAND USE:	RANGE		LIFT	DEPTH (	(ft):	1.2	
FIELD NOTES & REMA	RKS:		000	NICADEST SI	HRFACF	WATER: > 10	00'
DEPTH TO GROUNDWATER:>/6				MERKES! 3	ON MCL	# <u>-</u>	
NMOCD RANKING SCORE: O	NMOCD TPH CL	_OSURE STD: <u>50</u> ESIVE, SLIGHTU	000 PPM Y MUIST, P	FIRM.			
	EN AD HADADE	DETENTED SA	AMPLINICO D	EPTHS			
RANGE FROM 6"-16	B" TOOK A SPT O	DAPOSITE SAN	IRE FOR	LAB. ANI	4LY5/5	5	
· <del>-</del>							
(CLOSED)		FIELD 418.1 CA	ALCULATION	S			i
SAMP. TIME S	SAMPLE I.D. LAB No	o: WEIGHT (g`	mL. FREON	DILUTION F	READING	CALC. ppm	

SAMP. HME	SAMPLE I.D.	LAD INO.	111210111 19.			 
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SKETCH/SAMPLE LOCATIONS



O VIVI TUBE C BITE	OVM	RESULTS	
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TAD	SAMPLES
LAD	SAMLPES

SAMPLE ID	FIELD HEADSPACE PID (ppm)	SAMPLE ID	ANALYSIS	TIME	RESULTS
LF-1	0.0	LF-1	(8015)	1140	0.7
			ļ	<del> </del>	<del> </del>
			<del>                                     </del>	<u> </u>	

SCALE FT

1.19.99 ONSITE:



### 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 E560 6558 Soil Cool	Project #: Date Reported: Date Sampled: Date Received: Date Extracted: Date Analyzed:	04034-10 01-22-99 01-19-99 01-21-99 01-22-99 01-22-99 8015 TPH
Condition:	Cool and Intact	Analysis Requested:	8015 1PH

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	0.4	0.2
Diesel Range (C10 - C28)	0.3	0.1
Total Petroleum Hydrocarbons	0.7	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 Tribal 151 - 8 Landfarm. 5 Pt. Composite.

Aleur L. Cymen

Stacy W Sendler

# CHAIN OF CUSTODY RECORD

Received Intact Cool - Ica/Blue Ice	way 64 exico 87401 615	5796 U.S. Highway 64 Farmington, New Mexico 87401 (505) 632-0615				
۲ 2						•
Sample Receipt	HINC.	FOVIROTECH IO		57	777.172	Pop coc's
	Received by: (Signature)	Receive			ure)	Relinquished by: (Signature)
	Received by: (Signature)	Receive			ure)	Relinquished by: (Signature)
/.2/.99 0 {d)	Received by: (Signature)	Date Time Receive	,		, re)	Relinquished by: (Signature)
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C00L						
SAMB MESEAK						
SPT. COMPOSITE	7	2011	4560	1140	1.,9.99	18-1
		Sample Matrix	Lab Number	Sample Time	Sample Date	Sample No./ Identification
			01-4840			REP
Remarks	<b>TS</b>		Client No.			Sampler:
WETERS	ANALYSIS / PARAMETERS	Project Location LANDFARM SICARILLA APACHETRIBAL 151-8	Project Location 4.		00	Client / Project Name  81441/AMOCO