EGEIVE DICARILLA APACHE TRIBE DENNY OIL & GAS INSPECTOR

P.O. BOX 507 **DULCE, NEW MEXICO 87528**

AND OIL & GAS ADMINISTRATION AUG 1 3 1999

OIL CON. DIV.

DIST. 3PIT REMEDIATION AND CLOSURE REPORT

Hyprovel

Operator: AMOCO PRODUCTION COMPANY	Telephone: (505)326-9200
Address: 200 Amoco Court, Farmington, NM	87401
Facility or Well Name: JICARILLA A 8	
Location: Unit or Qtr/Qtr Sec H Sec T T26	DRSW County RID ARRIBH
Pit Type: Separator Dehydrator Other	
Land Type: RANGE	
	, width 26', depth //
	ner
Footage from reference: 80	
Direction from reference:	
	_X 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) 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)
RA	NKING SCORE (TOTAL POINTS):

BJ462/SEP. PIT

Date Remediation Sta	rted:	Date	Completed: / O	124/96
Remediation Method:	Excavation X	Approx.	cubic yards	300
eck all appropriate	Landfarmed 🔀		Bioremediation	
	Other			
Remediation Location: (i.e. landfarmed onsite, name and location of offsite facility)	Onsite X Offsit	e		
General Description of	f Remedial Action: Ex	cavation, NEDRO	ock bottom -	
Groundwater Encount	ered: No 🔀	Yes Depth		
Final Pit: Closure Sampling: (if multiple samples,	Sample location see A	ttached Documen	ts	
attach sample results and diagram of sample	Sample depth			
l	Sample date $10/2$		Sample time /350	>
	Sample Results			
	Soil: Benzene	(ppm)	Water: Benzene	(ppb)
	Total BTEX	(ppm)	Toluene	(ppb)
		(ppm) <u>763</u>	Ethylbenzene	•••
		(ppm) <u>/4,500</u>	Total Xylenes	• •
	ТРН	(ppm) 14,505	Total Aylenes	(ppo)
Groundwater Sample:	YesNo	(If yes, attac	ch sample results)	
I HEREBY CERTIFY KNOWLEGE AND BE	THAT THE INFORMATI	ON ABOVE IS TRUE	AND COMPLETE TO	THE BEST OF MY
DATE	10/24/96, PR			
SIGNATURE Sud.	ly D. Shaw	AND TITLE Env	rironmental Coor	dinator
AFTER REVIEW OF TO THE JICARILLA	THE PIT CLOSURE INFO APACHE TRIBE PIT CLO	DRMATION, PIT CLO DSURE ORDINANCE.	SURE IS APPROVED	IN ACCORDANCE
APPROVED: YES	NO X (REASON	D conditional Cli	sur. Failed	TPH
signed:	6 Maull	DATE:	- 96	

CLIENT: AMOCO		
	BLAGG ENGINEERING, 1 P.O. BOX 87, BLOOMFIELD, N	
	(505) 632-1199	
FIELD REPOR	RT: CLOSURE VERIFIC	CATION PAGE NO: / of /
LOCATION: NAMETICARIL	LLA A WELL #: 8 PIT: S	DATE STARTED: 10/22/96
	17 TWP: ZGN RNG: SW PM: NM CNT	DATE EINICHED:
1	NE Y CONTRACTOR: P+5	ENVIRONMENTAL .
1	35 FT. x 26 FT. x 1/1 FT. DE	
DISPOSAL FACILITY:	ON-SITE REMEDIATI	ON METHOD: LANDAREMED
LAND USE: RANGE	E LEASE: JICA, COST.	FORMATION: GP/DK
	RKS: PIT LOCATED APPROXIMATELY _	
DEDTH TO COCHAD VATER 318	NOS. PIT CHCATED APPROXIMATELY	ICADEST SUBFACE WATER >1000
NMBCD RANKING SCORE:	NMOCD TPH CLOSURE STD: <u>5000</u> PPM	<u>CHECK ONE</u> : _✓ PIT ABANDONED
SOIL AND EXCAVATION	IN DESCRIPTION:	STEEL TANK INSTALLED
SIDFUILLY - NOTE: In	ו אחיב לצנו, פנטשת בונדע בחמם סי	
उ०४१ न	TO VERY WOIST (SOUTH SIDEMAN)	E (TOWNER BUTTON HOLF) SLIGHTLY
MOIST .	TO VERY MOIST (SONTH SIDEWALL), &	FIRM TO VERY STIPF, STRONG HC
ODOR SOUTH	SIDEWALL WI A NARROW LEASE OF	BERUED 11/10 WEST SIDE (K' THICK)
PIT BOTTOM - BEDED	TO VERY MOIST (SOUTH SINGUE), IN IN SOUTH SIDEWAL DUM SAINFUE SIDEWALL W/ A NARROW LENSE OF OCK LT OLIVE GERT IN COLOR, VERY	HARD, SANDSTONE, STRONG HE
CONDITIONAL	IN OUM SAMPLE.	•
BEDICER	FIELD 418.1 CA	LCULATIONS mL. FREON DILUTION READING CALC. ppm
	TIME SAMPLE I.D. LAB No: WEIGHT (g)	THE PREON DECITION READING CAEC. PPHI
SCALE		
O FT		
	ETED OVM	DIT DDOFILE
PIT PERIMI	EIER 7N RESULTS	PIT PROFILE
PIT PERIM	RESULTS SAMPLE FIELD HEADSPALE FID (ppm)	A A'
	RESULTS SAMPLE FIELD HEADSPALE FID (ppm) 1 @ 7'	
PIT PERIM	RESULTS SAMPLE FID (ppm) 1 @ 7' 0.0 2 @ 6' 763	A 35'
PIT PERIM	RESULTS SAMPLE FIELD HEADSPALE FID (ppm) 1 @ 7'	A A'
PIT PERIM	ETER TO RESULTS SAMPLE FIELD HEADSPACE FID (ppm) 1 € 7' 0.0 2 € 6' 0.0 3 € 6' 763 4 € 6' 0.0 5 € //' 221.1	A 35' NAME ON LEASE DE THICK) HE STAINING (1/2 THICK)
PIT PERIM	ETER TO RESULTS SAMPLE FIELD HEADSPALE FID (ppm) 1 € 7' 0.0 2 € 4' 0.0 3 € 6' 763 4 € 6' 0.0 5 € //' 221.1	A 35' NARROW LEASE DE THICK) HE STAINING (1/2 THICK) 77 [Z'] ?
PIT PERIM	ETER TO RESULTS SAMPLE FIELD HEADSPACE FID (ppm) 1 € 7' 0.0 2 € 6' 0.0 3 € 6' 763 4 € 6' 0.0 5 € //' 221.1	A 35' NARROW LEASE DE L'ATHICK) NE STAINING (/2 THICK) 77 [Z' BEXZOCK
PIT PERIMI	RESULTS SAMPLE FIELD HEADSPALE PID (ppm) 1 @ 7'	A 35' NARROW LEASE DE THICK) HE STAINING (1/2 THICK) 77 [Z'] ?
PIT PERIMI	RESULTS SAMPLE FIELD HEADSPACE FID (ppm) 1 @ 7'	A 35' NARROW LEASE DE L'ATHICK) NE STAINING (/2 THICK) 77 [Z' BEXZOCK
PIT PERIMI	RESULTS SAMPLE FIELD HEADSPALE FID (ppm) 1 @ 7'	A 35' NAMEROW LEASE DE THICK) NE STAINING (1/2 THICK) TOUTH SIDEWALL
PIT PERIMI	RESULTS SAMPLE FIELD HEADSPALE FID (ppm) 1 @ 7'	A 35' NAMEROW LEASE DE THICK) NESTAINING (/2 THICK) TOUTH SIDEWALL TOUTH SIDEWALL
PIT PERIMI	RESULTS SAMPLE FIELD HEADSPALE FID (ppm) 1 @ 7'	A 35' NAMEROW LEASE DE THICK) NE STAINING (1/2 THICK) TOUTH SIDEWALL
PIT PERIMI	RESULTS SAMPLE FIELD HEADSPALE FID (ppm) I E 7' 0.0 2 C 4' 0.0 3 C 6' 763 4 C 6' 0.0 5 C // 221.1 LAB SAMPLES SAMPLE ANALYSIS TIME D C THAILED (O)	A 35' NAME OF THICK NAME OF THICK NOTE STAINING (1/2 THICK) REDECCK SOUTH SIDEWALL ICE TAINING IN GRAN
PIT PERIMI	RESULTS SAMPLE FIELD HEADSPALE FID (ppm) 1 @ 7'	A 35' NAME OF THICK NAME OF THICK NOTE STAINING (1/2 THICK) REDECCK SOUTH SIDEWALL ICE TAINING IN GRAN



EPA METHOD 8015 Modified Nonhalogenated Volatile Organics Total Petroleum Hydrocarbons

Client:	Blagg / Amoco	Project #:	04034
Sample ID:	3 @ 6'	Date Reported:	10-23-96
Laboratory Number:	A708	Date Sampled:	10-22-96
Chain of Custody No:	4921	Date Received:	10-23-96
Sample Matrix:	Soil	Date Extracted:	10-23-96
Preservative:	Cool	Date Analyzed:	10-23-96
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	6,850	0.2
Diesel Range (C10 - C28)	7,690	0.1
Total Petroleum Hydrocarbons	14,500	0.2

ND - Parameter not detected at the stated detection limit.

References:

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

SW-846, USEPA, July 1992.

Comments:

Jicarilla A #8 Separator Pit.

Analyst Grener

Stacy W Sendler

CHAIN OF CUSTODY RECORD

			<u> </u>	HOH TV	ENVIROTECH INC				
		re)	/: (Signatu	Received by: (Signature)					Relinquished by: (Signature)
•		re)	y: (Signatu	Received by: (Signature)				(Relinquished by: (Signature)
10/2/46 0800	Column	S. C.		1	1923/2 0800	19		The state of the s	Melan V
Date Time)	re)	/: (Signatu	Received by: (Signature)	Date Time			7	Relinquished by; (Signature)
							:		
Run BTEX									
17 TAH < 5000 ppm		<			2012	A708	1350	10/22/96	3 @ 6 ′
Preserv cool		(80 (80	77	N	Sample Matrix	Lab Number	Sample Time	Sample Date	Sample No./ Identification
		1/5/ 1/5/X 1/2/0	071	o. of		7540		26	Metron V.
Remarks					No.	Chain of Custody Tape No.		(Sampler: (Signature)
C	מילים		-		A # 8	JICARILLA		20 CO	BLAGE (Amo CO
	ANAI VSIS/PARAMETERS				MENTOR PIT	Project Location SERAENTOR PIT			Client/Project Name
	117.	ノカレ	コロンフロ	7001001					

ENVIROTECH INC. 5796 U.S. Highway 64-3014 Farmington, New Mexico 87401

(505) 632-0615

san juan repro Form 578-81

BJ 462

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: AMOCO PRODUCTION COMPANY	Telephone	:(505)326-9200
Address: 200 Amoco Court, Farmington,	NM 87401	
Facility or Well Name: JICARILLA	A #8	
Location: Unit or Qtr/Qtr Sec H Sec 17 T	ZGN R SW County PO 1	ARUBA
Pit Type: Separator Dehydrator Other	8 ww	
Land Type: RANGE		
(Attach diagram) Reference: wellhead X Footage from reference:	ZZ' _, width	North _X_
Depth To Groundwater: (Vertical distance from contaminants to seasonal high water elevation of groundwater)	Less than 50 feet 50 feet to 99 feet Greater than 100 feet	(20 points) (10 points) (0 points)
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) (10 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)
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):

BJ462/ BLOW PIT

Date Remediation Sta	rted: Date Completed:
Remediation Method:	Excavation \times Approx. cubic yards 50
eck all appropriate	Landfarmed X Insitu Bioremediation
C STANTAGE	Other
Remediation Location:	
(i.e. landfarmed onsite, name and location of	
offsite facility)	f Remedial Action: Excavation, BEDROCK Bottom.
General Description of	Remediat Action
Groundwater Encount	ered: No X Yes Depth
	see Attached Documents
Final Pit: Closure Sampling:	Sample location see Attached Documents
(if multiple samples, attach sample results	7.
and diagram of sample locations and depths)	Sample depth $\frac{z'}{\sqrt{2z/96}}$ Sample time $\frac{\sqrt{420}}{\sqrt{25}}$
	Sample Results Soil: Benzene (ppm) Water: Benzene (ppb)
	Soil. Belizelle (pp.ii)
	Total BTEAT (pp.m)
	Tield Treadspace (ppm)
	TPH (ppm) 40 Total Xylenes (ppb)
Groundwater Sample:	Yes No (If yes, attach sample results)
I HEREBY CERTIFY KNOWLEGE AND BI	THAT THE INFORMATION ABOVE IS TRUE AND COMPLETE TO THE BEST OF MY ELIEF
DATE/	0/22/96 PRINTED NAME Buddy D. Shaw
SIGNATURE BUD	AND TITLE Environmental Coordinator
AFTER REVIEW OF	THE PIT CLOSURE INFORMATION, PIT CLOSURE IS APPROVED IN ACCORDANCE APACHE TRIBE PIT CLOSURE ORDINANCE.
APPROVED: YES _	NO (REASON)
SIGNED:	() Man DATE: 11-5-96

CLIENT: <u>AMOCO</u>	BLAGG ENGINEERING, INC P.O. BOX 87, BLOOMFIELD, NM (505) 632-1199	
FIELD REPOR	RT: CLOSURE VERIFICA	TION PAGE No: _/_ of _/_
QUAD/UNIT: H SEC:	TWP: Z60 RNG: 5W PM: NM CNTY: R	
DISPOSAL FACILITY:	FT. x 25 FT. x 4 FT. DEEP. ON-SITE REMEDIATION LEASE: JICA, CONT. 110	METHOD: LANDFRAMED FORMATION: GPOK
FIELD NOTES & REMAR	RKS: PIT LOCATED APPROXIMATELY 9 O' NEAREST WATER SOURCE: >1000' NEAR	FROM WELLHEAD. REST SURFACE WATER: 71000/
NMOCD RANKING SCORE:	NMOCD TPH CLOSURE STD: <u>5000</u> PPM IN DESCRIPTION:	CHECK DNE: ✓ PIT ABANDONED — STEEL TANK INSTALLED
BEDROCK	PRANGE SILTY SAND, NON-COHESIUS SLA PAPPARENT HE ODOR IN KNY DIE PARENT HE STRINING OR ODOR DE FIELD 418.1 CALCL	JL ATIONS
GIGAL F	TIME SAMPLE I.D. LAB No: WEIGHT (g) ml 1420 2021 TPH-1848 5	FREON DILUTION READING CALC. ppm
SCALE O FT DIT DEDIM	OVIM	PIT PROFILE
PIT PERIM	SAMPLE FIELD HEADSPACE	. /
22'	1 6 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	A
	30 2' 0.0 40 2' 0.0 50 4' 0.0	
25 A B B	(a) LAB SAMPLES	3ED2O <k< td=""></k<>
1	SALIFIE ANALYSIS TIME ID ANALYSIS TIME TO THE TIME	
TRAVEL NOTES: CALLOUT	: 10/21/96 MORN. ONSITE: 10/2	2/96 MORN.

BLAGG ENGINEERING, INC.

P.O. Box 87, Bloomfield, New Mexico 87413 Phone: (505)632-1199 Fax: (505)632-3903

FIELD MODIFIED EPA METHOD 418.1 TOTAL PETROLEUM HYDROCARBONS

Client:

AMOCO

Project #:

Sample ID:

2 @ 2'

Date Analyzed:

10-22-96

Project Location:

Jicarilla A #8

Date Reported:

10-22-96

Laboratory Number:

TPH-1848

Soil Sample Matrix:

Parameter	Result, mg/kg	Detection Limit, mg/kg
Total Recoverable Petroleum Hydrocarbons	40	20

ND = Not Detectable at stated detection limits.

QA/QC:

QA/QC Sample	Duplicate	%
TPH mg/kg	TPH mg/kg	*Diff.
4640	4400	5.31

^{*}Administrative Acceptance limits set at 30%.

Method:

Modified Method 418.1, Petroleum Hydrocarbons, Total

Recoverable, Chemical Analysis of Water and Waste,

USEPA Storet No.4551, 1978

Comments: Blow Pit - BJ462

Melson let.
Analyst

BJ462

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

perator: AMOCO PRODUCTION COMPANY Telephone: (505) 326-9200
ddress: 200 Amoco Court, Farmington, NM 87401
acility or Well Name: JICARILLA A #5
ocation: Unit or Qtr/Qtr Sec H Sec 17 TZGD R SW County RIO PREVIEW
and Type: RANGE
ate Remediation Started: 10/22/96 Date Completed: 4/1/99 emediation Method: Landfarmed X Approx. cubic yards 350 Composted Other
oth To Groundwater: (pts.) Final Closure Sampling:
istance to an Ephemeral Stream (pts.)O Sampling Date:3/30/99 Time:
istance to Nearest Lake, Playa, Watering Pond (pts.) (pts.)
HEREBY CERTIFY THAT THE INFORMATION ABOVE IS TRUE AND COMPLETE TO THE BEST OF MY NOWLEGE AND BELIEF
GNATURE Buddy D. Shaw AND TITLE Environmental Coordinator
FTER REVIEW OF THE SOIL REMEDIATION INFORMATION, ON-SITE REMEDIATION IS APPROVED IN CCORDANCE TO THE JICARILLA APACHE TRIBE PIT CLOSURE ORDINANCE. PPROVED: YES NO (REASON) DATE: 6 - 18 - 99

(505) 6	0MFIELD, NM 87413 32-1199 c.a.c. Na: <u>6633</u>
FIELD REPORT: LANDFARM/COMP	OST PILE CLOSURE VERIFICATION
LOCATION: NAME: TOPELLA A WELL #: 8	PITS: SEP. PLOW DATE STARTED: 3/30/99 DATE FINISHED:
QUAD/UNIT: H SEC: 17 TWP: ZGD KNG: 5W I	PM: NM CNTY: SH ST: NM ENVIRONMENTAL SPECIALIST: NV
SOIL REMEDIATION:	
REMEDIATION SYSTEM: LANDERCH	
LAND USE: KANGE	LIFT DEPTH (ft):/
FIELD NOTES & REMARKS: DEPTH TO GPOUNDWATER: > 100' NEAREST WATER SOURCE:	>1000 NEARENT SURFACE WATER: >1000 /
	5000 000
DK. YELL. BROWN SILTY SAND NON COME	ESIVE SUIGHTLY MOIST, FIRM, SAMPLING DEPTHS IN E MY OF THE SAMPLING POINTS NO HO LECTED S PT. COMPOSITE SAMPLE FOR LAIS
C 6 MCHES IN APPARENT DISCOLORATION	NECTED S PT. COMPOSITE SAMPLE FOR LAIS
ANALYSIS.	
CLOSED	A CAN CHE ATTITALS
SAMP. TIME SAMPLE I.D. LAB No: WEIGHT	1 CALCULATIONS (g) ml. FREON DILUTION READING CALC. ppm
SKETCH/SAMPLE LOCATIONS N	
SKETCH/ SAMPLE LOCATIONS IN	
- PERIMETER	TAD CAMBITE
	OVM RESULTS LAB SAMPLES SAMPLE FIELD HEADSPACE SAMPLE ANALYSIS TIME RESULTS PD 10 10
()7(())	LF-1 0.0 LF-1 (8015) 1050 713
(95' N34 W)	
W _R	, , , , , , , , , , , , , , , , , , , ,
LF-1 SAMPLE	
PT. DESKNATION	
	SCALE
10 H.	O FT
TRAVEL NOTES: CALLOUT. NA	-1-1-0
TRAVEL NOTES: CALLOUT: NA	ONSITE: 3/30/97 - 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 LF - 1 E915 6633 Soil Cool Cool and Intact	Project #: Date Reported: Date Sampled: Date Received: Date Extracted: Date Analyzed: Analysis Requested:	403410 04-01-99 03-30-99 03-30-99 03-30-99 04-01-99 8015 TPH
Parameter		Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C1	0)	31.4	0.2
Diesel Range (C10 - C28)	682	0.1

ND - Parameter not detected at the stated detection limit.

Total Petroleum Hydrocarbons

References:

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

713

SW-846, USEPA, December 1996.

Comments:

Jicarilla A #8 Landfarm. 5 Pt. Composite.

Aleen L. Careen

Stacy W Sendler

0.2

CHAIN OF CUSTODY RECORD

Client / Project Name	Project Location	LANDFARM		ANALYSIS / PARAMETERS	
Bires / Amoco	TICARILLA	A #8			
Sampler:	Client No.		rs)		Remarks
NTV	04034-10	-10	o. of taine		
Sample No./ Sample Sample	Lab Number	Sample Matrix			
3/20/99 /	F915	5016	1 1	\ <u>\</u>	PT. Composite
				No.	RESER! - COOL
		_) 		Date Time
Relinquished by: (Signature)		Date Time 3/20/49/1350	Received by: (Signature)	Please	2.57 68.08.5
Relinquished by: (Signature)			Received by: (Signature)		
Relinquished by: (Signature)			Received by: (Signature)		
		ENVIROTECH IN	ECH INC.		Sample Receipt
		5796 U.S.	5796 U.S. Highway 64	Receiv	\
		Farmington, No. (505)	Farmington, New Mexico 87401 (505) 632-0615	Cool - Ic	Cool - Ice/Blue Ice