DEPUTY OIL & GAS INSPECTOR P.O. BOX 507

| STATE | SUBMIT I COPY TO PROTECTION OFFICE | P.O. BOX 507

| DEPUTY OIL & GAS INSPECTOR | P.O. BOX 507

AUG 1 3 1999

**DULCE, NEW MEXICO 87528** 

## PIT REMEDIATION AND CLOSURE REPORT

Operator: AMOCO PRODUCTION COMPANY	<b>Telephone:</b> (505)326-9200	_		
Address: 200 Amoco Court, Farmington, NM 87401				
Facility or Well Name: JICARILLA & T	76E	_		
Location: Unit or Qtr/Qtr Sec C Sec ZZ TZGr	N R SW County RIO ARRIEA	_		
Pit Type: Separator Dehydrator Other_ PRO	ODUCTION TRUK	-		
Land Type: RANGE		_		
(Attach diagram)	her			
Footage from reference: 125	<del></del>			
Direction from reference: 60	Degrees East North			
	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) 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)			
RA	NKING SCORE (TOTAL POINTS):			

PROD. TRNK PIT /BJ 451 Excavation \_\_\_\_\_\_ Remediation Method: eck all appropriate Landfarmed X Insitu Bioremediation Letions) Other \_\_\_\_\_ Onsite X Offsite Remediation Location: (i.e. landfarmed onsite, name and location of offsite facility) General Description of Remedial Action: Excavation. BEDROCK BOTTOM. No Yes \_\_\_\_ Depth \_\_\_\_\_ Groundwater Encountered: Sample location see Attached Documents Final Pit: Closure Sampling: (if multiple samples, attach sample results Sample depth \_\_\_\_\_\_4 / and diagram of sample Sample date  $\frac{10/6/96}{}$  Sample time  $\frac{1040}{}$ locations and depths) Sample Results (ppb) \_\_\_\_\_ Water: Benzene (ppm) \_\_\_\_\_ Soil: Benzene Toluene (ppb) \_\_\_\_\_ Total BTEX (ppm) Field Headspace (ppm) 93.7 (ppb) \_\_\_\_\_ Ethylbenzene (ppm) <u>640</u> (ppb) \_\_\_\_\_ Total Xylenes TPH Groundwater Sample: Yes \_\_\_\_\_ No \_\_\_ (If yes, attach sample results) I HEREBY CERTIFY THAT THE INFORMATION ABOVE IS TRUE AND COMPLETE TO THE BEST OF MY KNOWLEGE AND BELIEF 10/6/96\_, PRINTED NAME Buddy D. Shaw DATE AND TITLE 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: \_\_\_\_\_\_

BLAGG ENGINEERING, INC. P.O. BOX 87, BLOOMFIELD, NM 87413 (505) 632-1199
FIELD REPORT: CLOSURE VERIFICATION PAGE NO: of
LOCATION: NAME: JICARILLA B WELL #: 6E PIT: PROD  QUAD/UNIT: C SEC: 27 TWP: ZEN RNG: 5W PM: NM CNTY: RA ST:NM  DATE STARTED: 10/6/96  DATE STARTED: 10/6/96  DATE FINISHED:  ENVIRONMENTAL SPECIALIST:  NU
EXCAVATION APPROX. 13 FT. x 14 FT. x 8 FT. DEEP. CUBIC YARDAGE: ZO  DISPOSAL FACILITY: ON-SITE REMEDIATION METHOD: LANDFABRIED  LAND USE: RANGE LEASE: J'CA, CONTA, #109 FORMATION: DK  FIELD NOTES & REMARKS: PIT LOCATED APPROXIMATELY /Z5 FT. N60E FROM WELLHEAD.  DEPTH TO GROUNDWATER: >100' NEAREST WATER SOURCE: >1000' NEAREST SURFACE WATER: >1000'  NMOCD RANKING SCORE: O NMOCD TPH CLOSURE STD: 5000 PPM  SOIL AND EXCAVATION DESCRIPTION:  STEEL TANK INSTALLED
FIDELIALLS: COLORS KANGHING FROM THE YELL. BLOWN TO THE GOOD IN PLASTIC, SLIEHTLY MOIST, FIRM TO VERY STIFF HE GOOD IN NORTH STORWALL OWN STAPPLE ONLY NO APPARENT DISTINCTION BETWEEN DISCOURATION IN HE ODOR BOTTON - BEDROCK, SOFT TO HORD, SHOLE MED. BUISH GRYIN COLOR, SUGHT HE ODOR IN DUM SAMPLE.  CLOSED  TIME SAMPLE I.D. LAB NO: WEIGHT (g) MIL. FREON DILUTION READING CALC. PPM  SCALE  TIME SAMPLE I.D. LAB NO: WEIGHT (g) MIL. FREON DILUTION READING CALC. PPM  FILL D 418.1 CALCULATIONS  SCALE  O FT  PIT PERIMETER IN RESULTS  PIT PROFILE  SAMPLE FILL HEADSPACE 10 12 1 160 640  PROD: TRUE TELL HEADSPACE 10 12 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
TO WELL HEAD  TRAVEL NOTES: CALLOUT: 10/1/96 AFTER. ONSITE: 10/6/96 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** 

Sample ID:

1 @ 4'

Project Location:

Jicarilla B # 6E

Laboratory Number:

TPH-1837

Project #:

Date Analyzed: Date Reported: 10-06-96 10-06-96

Sample Matrix:

Soil

Parameter	Result, mg/kg	Detection Limit, mg/kg
Total Recoverable Petroleum Hydrocarbons	640	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

<sup>\*</sup>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:

Production Tank Pit - BJ451

BJ 451

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

SUBMIT 1 COPY TO

NATURAL RESOURCE DEPI

AND OIL & GAS ADMINISTRATION

#### PIT REMEDIATION AND CLOSURE REPORT

Operator: AMOCO PRODUCTION COMPANY	<b>Telephone:</b> (505)326-9200				
Address: 200 Amoco Court, Farmington, NM	Operator.				
Facility or Well Name: JICARILLA 8 #					
Location: Unit or Qtr/Qtr Sec Sec ZZ TZ68					
Pit Type: Separator \( \times \) Dehydrator \( \times \) Other					
Land Type: RANGE					
	2', width_ 42', depth_ 13'				
<u> </u>	ther				
Footage from reference: 77					
Direction from reference: 75	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) 6 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)				
r R	ANKING SCORE (TOTAL POINTS):				

SEP. PIT /BJ451

Date Remediation Star	rted:	Date Complete	d:
Remediation Method:	Excavation	Approx. cubic ya	ards500
eck all appropriate	Landfarmed ×	Insitu Bioremedia	ation
	Other		
Remediation Location: (i.e. landfarmed onsite, name and location of offsite facility)		REPORTE	
General Description of	f Remedial Action: EXC	avation. BEDROCK	*Ollowc-
Groundwater Encounte	ered: No X	Yes Depth	
Final Pit: Closure Sampling: (if multiple samples,	Sample location see At	tached Documents	
1	Sample depth		
locations and depths)	Sample date $\frac{10/6}{}$		ime
	Sample Results		
`	-	(ppm) ND Water:	Benzene (ppb)
	Total BTEX	_	Toluene (ppb)
	Field Headspace		Ethylbenzene (ppb)
		(ppm) <u>/56</u>	Total Xylenes (ppb)
Groundwater Sample:	Yes No _	(If yes, attach sample	e results)
I HEREBY CERTIFY KNOWLEGE AND BE		N ABOVE IS TRUE AND CO	MPLETE TO THE BEST OF MY
DATE	10/7/96 PRI	NTED NAME Buddy D.	Shaw
SIGNATURE BURS	ly D. Shaw A	ND TITLE Environme	ntal Coordinator
AFTER REVIEW OF TO THE JICARILLA	THE PIT CLOSURE INFOR APACHE TRIBE PIT CLOS	RMATION, PIT CLOSURE IS SURE ORDINANCE.	S APPROVED IN ACCORDANCE
APPROVED: YES	NO (REASON)		
SIGNED:	Julia	DATE: 10/22/96	

ELIENTI AMOCO  P.O. BOX 87, BLOOMFIELD, NM 87413  (505) 632-1199  FIELD REPORT: CLOSURE VERIFICATION  PAGE NO: 1 of 1  OCATION: NAME INCRULER & WELL # SE PIT SEP  QUAD/UNIT: C SEE 22 TWP 265 RMG 50 PM AND COTT, RA STAMM  QUAD/UNIT: C SEE 27 TWP 265 RMG 50 PM AND COTT, RA STAMM  EXCAVATION APPROX 22 FT. x H2 FT. x 13 FT. DEEP.  EXCAVATION APPROX 22 FT. x H2 FT. x 13 FT. DEEP.  EXCAVATION APPROX 22 FT. x H2 FT. x 13 FT. DEEP.  EXCAVATION APPROX 27 FT. x H2 FT.							
QUADYUNIT C SEC 22 TWP 26th RNG SW PM-NA CNTY RA STAM QUADYUNIT C SEC 22 TWP 26th RNG SW PM-NA CNTY RA STAM QUADYUNIT C SEC 22 TWP 26th RNG SW PM-NA CNTY RA STAM QUADYUNIT C SEC 22 TWP 26th RNG SW PM-NA CNTY RA STAM QUADYUNIT C SEC 22 TWP 26th RNG SW PM-NA CNTY RA STAM QUADYUNIT C SEC 22 TWP 26th RNG SW PM-NA CNTY RA STAM QUADYUNIT C SEC 22 TWP 26th RNG SW PM-NA CNTY RA STAM QUADYUNIT C SEC 22 TWP 26th RNG SW PM-NA CNTY RA STAM EXCAVATION APPROX 22 FT x 42 FT x 128 FT DEEP. CUBIC YARDAGE 500  DISPOSAL FACILITY:  ON - SITE REMEDIATION METHOD: LANDFROMED LAND USE:  RANCE REMEDIATION METHOD: LANDFROMED LANDFROMED PRANCING: DK FELD NOTES & REMARKS: PIT LOCATED APPROXIMATELY TT FT. SISE FROM WELLHEAD DEPTH TO GEODINATE 2100 NEAREST SURFACE VAICE: 21000' NAGOR PRANCING SCIPET:  O NAGOR PRANCING SCIPET: O NAGOR PRANCING SCIPET ON NATURE STORY SURFACE VAICE: 21000' NAGOR PRANCING SCIPET: O NATURE STATE NO THE GEORY IN COLUMN STATES THE STAMPLE TO LAB NO. WEIGHT (2) OLL FROM DILUTION READING CALC PPIN SCALE  O FT  O NATURE SAMPLE TO LAB NO. WEIGHT (2) OLL FROM DILUTION READING CALC PPIN TO STAMPLE TO LAB NO. WEIGHT (2) OLL FROM DILUTION READING CALC PPIN SCALE  O FT  O VM  O SCALE  O FT  O VM  O STATE OLD STATE STATE OF STATE  O STATE OLD STATE STATE O STATE OLD STATE SERVICES  O STATE OLD STATE STATE O STATE OLD STATE SERVICES  O STATE OLD STATE STATE O STATE O STATE OLD STATE SERVICES  O STATE OLD STATE OF STATE OLD STATE SERVICES  O STATE OLD STATE OF STATE OLD STATE SERVICES  O STATE OLD STATE OF STATE OLD STATE SERVICES  O STATE OLD STATE OF STATE	CLIENT: AMOCO	P.O. BOX 8	37. BLOOMF	IELD, NM	87413		1
QUADYUNIT C SEC 22 TWP 26th RNG SW PM-NA CNTY RA STAM QUADYUNIT C SEC 22 TWP 26th RNG SW PM-NA CNTY RA STAM QUADYUNIT C SEC 22 TWP 26th RNG SW PM-NA CNTY RA STAM QUADYUNIT C SEC 22 TWP 26th RNG SW PM-NA CNTY RA STAM QUADYUNIT C SEC 22 TWP 26th RNG SW PM-NA CNTY RA STAM QUADYUNIT C SEC 22 TWP 26th RNG SW PM-NA CNTY RA STAM QUADYUNIT C SEC 22 TWP 26th RNG SW PM-NA CNTY RA STAM QUADYUNIT C SEC 22 TWP 26th RNG SW PM-NA CNTY RA STAM EXCAVATION APPROX 22 FT x 42 FT x 128 FT DEEP. CUBIC YARDAGE 500  DISPOSAL FACILITY:  ON - SITE REMEDIATION METHOD: LANDFROMED LAND USE:  RANCE REMEDIATION METHOD: LANDFROMED LANDFROMED PRANCING: DK FELD NOTES & REMARKS: PIT LOCATED APPROXIMATELY TT FT. SISE FROM WELLHEAD DEPTH TO GEODINATE 2100 NEAREST SURFACE VAICE: 21000' NAGOR PRANCING SCIPET:  O NAGOR PRANCING SCIPET: O NAGOR PRANCING SCIPET ON NATURE STORY SURFACE VAICE: 21000' NAGOR PRANCING SCIPET: O NATURE STATE NO THE GEORY IN COLUMN STATES THE STAMPLE TO LAB NO. WEIGHT (2) OLL FROM DILUTION READING CALC PPIN SCALE  O FT  O NATURE SAMPLE TO LAB NO. WEIGHT (2) OLL FROM DILUTION READING CALC PPIN TO STAMPLE TO LAB NO. WEIGHT (2) OLL FROM DILUTION READING CALC PPIN SCALE  O FT  O VM  O SCALE  O FT  O VM  O STATE OLD STATE STATE OF STATE  O STATE OLD STATE STATE O STATE OLD STATE SERVICES  O STATE OLD STATE STATE O STATE OLD STATE SERVICES  O STATE OLD STATE STATE O STATE O STATE OLD STATE SERVICES  O STATE OLD STATE OF STATE OLD STATE SERVICES  O STATE OLD STATE OF STATE OLD STATE SERVICES  O STATE OLD STATE OF STATE OLD STATE SERVICES  O STATE OLD STATE OF STATE	FIELD REPO	RT: CLO	SURE VI	ERIFICA	rion	PAGE No: _/	_ of/_
DISPOSAL FACILITY:  ON SITE REMEDIATION METHOD: LABORATED  LAND USE: RANGE  LEASE: T. CA. CONTA. #109 FORMATION:  METHOD: LABORATED  FORMATION:  DEPTH TO GROUNDWATER 2/00' MEMBEST VATER SUBJECT: 2/00' NEAREST SUBFACE VATER 7/000'  NOBCO RANKING SCORE: O NOBOD THA CLOSURE STD 5000 FPM  SCORE AND EXCAVATION DESCRIPTION:  STOELMARS: DK YELL. READWAY 7/17 CLAY COMESINE SUBFACE VATER 18 AND INSTALLED  STOELMARS: DK YELL. READWAY 1/17 CLAY COMESINE SUBFACE VATER 7/1000'  STOELMARS: DK YELL. READWAY 1/17 CLAY COMESINE SUBFACE VATER 7/1000'  STOELMARS: DK YELL. READWAY 1/17 CLAY COMESINE SUBFACE VATER 7/1000'  STOELMARS: DK YELL. READWAY 1/17 CLAY COMESINE SUBFACE VATER 7/1000'  STOELMARS: DK YELL. READWAY 1/1000'  TIME SAMPLE ID LAB NO: WEIGHT (9) INL. FREED DILUTION READWAY 1/1000'  SCALE  OFT  PIT PERIMETER N RESULTS  SWATE SAMPLES  SWATE SAM	OCATION: NAME: JICE QUAD/UNIT: C SE OTR/FOOTAGE: NELL	RILLA B C: ZZ TWP: ZGN NW(H	well #: 6€ rng: 5ω PM:) contractor:	PIT: SEP IM CNTY: B PAS	A st:Nm	DATE STARTED: L DATE FINISHED: ENVIRONMENTAL SPECIALIST:	NV
DEPTH TO GROUNDWATER >100' NEAREST VATER SOURCE: 97000 NEAREST SURFACE VALUE OF NEAREST SURFACE	DISPOSAL FACILITY: LAND USE: Rank	0N-Z17	re R Lease: J. A. C	EMEDIATION	METHOD FOR	): <u>LAPOFAR</u> MATION: <u>1</u>	K
SCALE  OFT  PIT PERIMETER N  SCALE  OFT  OFT  OCH  OCH  OCH  OCH  OCH  OCH  OCH  OC	DEPTH TO GROUNDWATER:	NEAREST WA	TER SOURCE:	NEARE	FT. S	WATERI	
SCALE  O FT  PIT PERIMETER N  OVM  PIT PERIMETER N  OVM  PIT PERIMETER N  OVM  PIT PERIMETER N  RESULTS  SOUND TRANSPORT  OVM  PIT PROFILE  SCALE  O FT  OVM  PIT PROFILE  SOUND TRANSPORT  OVM  PIT PROFILE  SOUND TREED TRANSPORT  TO A  THE SAMPLE TO LAB NOT WEIGHT (9) FIT PROFILE  SOUND TREED TREED TRANSPORT  OVM  PIT PROFILE  SOUND TREED TREED TRANSPORT  OVM  TO A  T							
SCALE  O 945 O 213' TPN-1836 S 20 1: ( 39 156  O FT  PIT PERIMETER N  RESULTS  SAMPLE 10. LAB NO: WEIGHT (9) mL. FREON DILUTION READING CALC. ppm  O 945 O 213' TPN-1836 S 20 1: ( 39 156  OVM  RESULTS  RESULTS  RESULTS  RESULTS  A 22' A  10' 3' 213-1 C C O.O.O.O.O.O.O.O.O.O.O.O.O.O.O.O.O.O	SIDEWALLS :	DR YELL BROW FIRM TO ST SMALL POTCHE OBSERVED IN	TO HARD, OLL	WEST SIDE WEST SIDE	L SUB DOOR UN APPRIC UNUS.	HTLY MOIS	Threes,
SCALE  O FT  PIT PERIMETER N  RESULTS  SAMPLE FEED HEADSWARE FEED (PPN)  1 C 73' 72 (20)  4 C 12' 0.0  3 C 72' 0.0  4 C 12' 0.0  5 C 18' 0.0  6 C 12' 0.0  7 C 12' 0.0  8 EDROCK  SEDROCK  SEDROCK  SEDROCK  SEDROCK		TIME SAMP	FIE LE I.D. LAB No:	WEIGHT (g) rnl	. FREON DIL	UTION READING	CALC. ppm
PIT PERIMETER N RESULTS  RESULTS  SAMPLE FIELD HEADSPACE PO (Appn)  1 0 73 2.13.  2 0 73 0.0  3 0 72 0.0  4 0 12 0.0  5 0 /8 0.0  5 0 /8 0.0  5 0 /8 0.0  5 0 /8 0.0  5 0 /8 0.0  5 0 /8 0.0  5 0 /8 0.0  6 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		0945 0 €		, 5			
TRANSIL NOTES.    10   13   21	•	METER 1	RESULI		PIT	PROFILE	i 
TRAVEL NOTES: CALLOUT: 10/1/96 AFTER ONSITE: 10/6/96 MORN.	TO A S	D.A.	10 73' 21 2 6 73' 0 3 6 72' 0 4 6 12' 0 5 6 78' C	(ppm) 3. ( . O . O . O . C . TIME C . O . O . O . O . O . O . O . O . O . O		a, mill	A
	TRAVEL NOTES: CALL	OUT: 10/1/9	6 AFTER (	)NSITE: _10/6	196 ma	. RN .	

#### 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** 

Sample ID:

1 @ 13'

Project Location:

Jicarilla B # 6E

Laboratory Number:

TPH-1836

Project #:

Date Analyzed: Date Reported: 10-06-96 10-06-96

Sample Matrix:

Soil

Parameter	Result, mg/kg	Detection Limit, mg/kg
Total Recoverable Petroleum Hydrocarbons	160	20

ND = Not Detectable at stated detection limits.

OA/OC:

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

<sup>\*</sup>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:

Separator Pit - BJ451



#### EPA METHOD 8020 AROMATIC VOLATILE ORGANICS

Client:	Blagg / Amoco	Project #:	04034
Sample ID:	1 @ 13'	Date Reported:	10-07-96
Laboratory Number:	A642	Date Sampled:	10-06-96
Chain of Custody:	4915	Date Received:	10-07-96
Sample Matrix:	Soil	Date Analyzed:	10-07-96
Preservative:	Cool	Date Extracted:	10-07-96
Condition:	Cool & Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	ND	8.8
Toluene	31.4	8.4
Ethylbenzene	8.3	7.6
p,m-Xylene	108	10.8
o-Xylene	70.0	5.2
Total BTEX	218	

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	Trifluorotoluene	100 %
	Bromofluorobenzene	99 %

References:

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

July 1992.

Method 8020, Aromatic Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846,

USEPA, Sept. 1994.

Comments:

Jicarilla B #6E Separator Pit.

Deun d. Cepeuren Analyst

ZNUG V. SON Review

INC. 44-3014 ico 87401	ENVIROTECH INC. 5796 U.S. Highway 64-3014 Farmington, New Mexico 87401 (505) 632-0615				-
Received by: (Signature)	Receiv			iture)	Relinquished by: (Signature)
Received by: (Signature)				ture)	Relinquished by: (Signature)
5	10/7/96 5720 1			ture)	Relinquished by (Signature)
Date Time					
					(
1 1 PRESELV COOL	5012	A642	0945	10/6/96	ne13'
87 (82	Sample Matrix	Lab Number	Sample Time	Sample Date	Sample No./
o. of tainers		04034		Vel	Wednes
Remarks		Chain of Custody Tape No.			Sampler: (Signature)
	8 #65	TICARILLA		Amoco	BURGG/
ANALYSIS/PARAMETERS	FRATOR PIT	Project Location SEDGRATOR			Client/Project Name
RECORD	CHAIN OF CUSIODY RECORD	C			

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

SJ 451 submit 1 copy to

AND OIL & GAS ADMINISTRATION

### **ON-SITE SOIL REMEDIATION REPORT**

AVOGO PROPUGITON COMPANY	Telephone: (505) 326-9200								
operation.									
Address: 200 Amoco Court, Farmington, NM 87401									
Facility or Well Name: TICARILLA B #6E									
Location: Unit or Qtr/Qtr Sec_ Sec_ 22 T_ 260 R 50 County	, RIO ARRIBA								
Land Type: Rのことモ									
Date Remediation Started: 10/6/96 Date Completed: 5/1/98									
Remediation Method: Landfarmed Approx. cub	ic yards <u>520</u>								
Composted									
Other									
Fin	al Closure Sampling:								
'epth 10 Groundwater: (pts.)	4/29/98 Time: 10/5								
Distance to an Ephemoral Stroma	Time.								
Distance to Nearest Lake, Playa, or Watering Pond (pts.)									
Field Headspace	(ppm) <u>40.8</u> Method <u>80.5</u>								
TPH									
Other									
RANKING SCORE (TOTAL POINTS):									
I HEREBY CERTIFY THAT THE INFORMATION ABOVE IS TRUE AND CO KNOWLEGE AND BELIEF	MPLETE TO THE BEST OF MY								
DATE 5/1/98 , PRINTED NAME Buddy	D. Shaw								
DATE  5/1/98  PRINTED NAME Buddy D. Shaw  SIGNATURE Buddy D. 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 X NO (REASON) use as Bac	KAIN								
SIGNED: Leve Man DATE: 5-7-98									

P.O. BOX 87, BLO	NEERING, INC.  OMFIELD, NM 87413  332-1199  C.G.C. NG: 5759
FIELD REPORT: LANDFARM/COMF	POST PILE CLOSURE VERIFICATION
LOCATION: NAME: JICARIUA B WELL #: 65  QUAD/UNIT: C SEC: ZZ TWP: Z6A RNG: 5W	PM: NO CNTY: RA ST: NO
OTR/FOOTAGE: NELY NWLY CONTRACTOR:	
SOIL REMEDIATION:  REMEDIATION SYSTEM: LANDFARM  LAND USE: RANGE	
FIELD NOTES & REMARKS:  DEPTH TO GROUNDWATER: >100 NEAREST WATER SOURCE:	
NMOCD RANKING SCORE: NMOCD TPH CLOSURE STD	SILTY CLAY SLIGHTLY
MOSTLY GRAYISH PRANTE TO LI. GR	NO APPARENT HE ODOR OBSERVED IN APPARENT STAINING ON LANDFARM SWIFACE, 6" TO Z, COLLECTED 5 PT. COMPOSITE
ANY OF THE SAMPLE PTS., NO	APPALENT STRING ON LANDFARM SWIFACE,
FOR LAB ANALYSIS.	
	(CLOSED)
SAMP. TIME SAMPLE 1.D. LAB NO: WEIGHT	(g) ml. FREON DILUTION READING CALC. ppm
SKETCH/SAMPLE LOCATIONS AN	
SKETCH/ SAMI LE LOCATIONS 70	
BAN EARTHEN	OVM RESULTS LAB SAMPLES
PIT	OVM RESOLIS
	SAMPLE FIELD HEADSPACE SAMPLE ANALYSIS TIME RESULTS ID FID (ppm)
(DEHY)	SAMPLE FIELD HEADSPACE SAMPLE ANALYSIS TIME RESULTS
•	SAMPLE FIELD HEADSPACE SAMPLE ANALYSIS TIME RESULTS ID FID (ppm) ID TOH
142, 3 132 M82M HEUD DEHAL	SAMPLE FIELD HEADSPACE PID (ppm)  LF-1 O.O LF-1 (8015) 1015 40.8
142, 3 132 M82M HEUD	SAMPLE FIELD HEADSPACE PID (ppm)  LF-1 O.O LF-1 (8015) 1015 40.8
•	SAMPLE FIELD HEADSPACE PID (ppm)  LF-1 O.O LF-1 (8015) 1015 40.8
(3) 135 N82M HEUD	SAMPLE FIELD HEADSPACE PID (ppm)  LF-1 O.O LF-1 (8015) 1015 40.8
142, 3 132 M82M HEUD	SAMPLE FIELD HEADSPACE PID (ppm)  LF-1 O.O LF-1 (8015) 1015 40.8

TRAVEL NOTES: CALLOUT: NA

901

ONSITE: 4/29/98

FT



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

Client:	Blagg / AMOCO	Project #:	04034-10
Sample ID:	LF - 1	Date Reported:	05-01-98
Laboratory Number:	D200	Date Sampled:	04-29-98
Chain of Custody No:	5759	Date Received:	04-29-98
Sample Matrix:	Soil	Date Extracted:	04-30-98
Preservative:	Cool	Date Analyzed:	05-01-98
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)			
Gasoline Range (C5 - C10)	18.0	0.2			
Diesel Range (C10 - C28)	22.8	0.1			
Total Petroleum Hydrocarbons	40.8	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 B #6E Landfarm 5 Pt. Composite.

Analyst P. Office.

Review Jendon

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