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

NATURAL RESOURCE DEPT

AND OIL & GAS ADMINISTRATION

## OIL GON. DIN REMEDIATION AND CLOSURE REPORT DIST. 3

		(505)326-920	00
Operator: AMOCO PRODUCTION COMPANY		(505)326-920	
Address: 200 Amoco Court, Farmington, N	NM 87401		
Facility or Well Name:	HE #102-27	ARRIRA	
Location: Unit or Qtr/Qtr Sec_ & Sec_ 9 T_2	26N R 9W County 770	7//04/04/	
Pit Type: Separator Dehydrator Other	BLOW		
Land Type: LANGE			
Pit Location: Pit dimensions: length	54', width 61'	, depth7'	
(Attach diagram)  Reference: wellhead X,	other		
Footage from reference:	53 '		
Direction from reference:	7 Degrees × East	North <u>X</u>	
	West	South	
Depth To Groundwater: (Vertical distance from contaminants to seasonal high water elevation of	Less than 50 feet 50 feet to 99 feet Greater than 100 feet	(20 points) (10 points) ( 0 points)	0
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) _	0
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) ( 0 points)	_0_
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	( 0 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)	0
11 .	RANKING SCORE (TOTA	L POINTS):	0

			BLOW PIT
Pemediation Method: Theck all appropriate sections)  Remediation Location: (i.e. landfarmed onsite, name and location of	Excavation  Landfarmed  Other  Onsite Offsite  of Remedial Action:Excavation	Date Completed: Approx. cubic yards Insitu Bioremediation	10/20/98 750
	ered: No X Yes		
Final Pit: Closure Sampling: (if multiple samples, attach sample results and diagram of sample locations and depths)	Sample locationsee Attache  Sample depth	<1200 PH )	/230
	Soil: Benzene (ppm)  Total BTEX (ppm)  Field Headspace (ppm)	0.0 Ethy	rene (ppb)  ene (ppb)  elbenzene (ppb)  Xylenes (ppb)
Groundwater Sample I HEREBY CERTIFY KNOWLEGE AND B	THAT THE INFORMATION ABO	(If yes, attach sample rest	
DATE SIGNATURE BUS			1 Coordinator

TO THE JICARILLA APACHE TRIBE PIT CLOSURE ORDINANCE. APPROVED: YES X NO (REASON)

CLIENT AMOCO P.O. BOX 87. BLOOMFIELD. NM 87413  CDC. NO P.O. BOX 87. BLOOMFIELD. NM 87413  CDC. NO  FIELD REPORT: CLOSURE VERIFICATION FAGE No: 1 of 1  LOCATION: NAME JI-O. AMOUR 107. WELL # 2 PPT. & LOW QUADVUN & SEC 9 TWR Z C.N. ENG HA PINAMO CRITY & ST. EMB.  QUADVUN & SEC 9 TWR Z C.N. ENG HA PINAMO CRITY & ST. EMB.  QUADVUN & SEC 9 TWR Z C.N. ENG HA PINAMO CRITY & ST. EMB.  EXCAVATION APPROX. 57. FT x 61 FT x 7 FT. DEEP. CUBIC VARDAGE JSD.  EXCAVATION APPROX. 57. FT x 61 FT x 7 FT. DEEP. CUBIC VARDAGE JSD.  EXCAVATION APPROX. 57. FT x 61 FT x 7 FT. DEEP. CUBIC VARDAGE JSD.  EXCAVATION APPROX. 57. FT x 61 FT x 7 FT. DEEP. CUBIC VARDAGE JSD.  EXCAVATION APPROX. 57. FT x 61 FT x 7 FT. DEEP. CUBIC VARDAGE JSD.  EXCAVATION APPROX. 57. FT x 61 FT x 7 FT. DEEP.  LAND USE: And E LEASE JC 10 T PROMITED APPROXIMATELY JS3 FT. NTE FROM WELL-FAB.  FIELD NOTES & REMARKS: PI' LOCATED APPROXIMATELY JS3 FT. NTE FROM WELL-FAB.  WHICH SAMPLES ON NEAREST VALES SOURCE JSD.  WHICH SAMPLES ON NEAREST VALES SOURCE JSD.  WHICH SAMPLES ON NEAREST VALES SOURCE JSD.  WHICH AND EXCAVATION DESCRIPTION.  STORMAL STORMAL OF STREAM OF STREAM.  BY JOHN JSD.  STORMAL STREAM OF S		IC. LOCATION NO. 87676
DISPOSAL FACILITY:  OTRACOLOR OFFE  EXCAVATION APPROX 5 Y FT X G FT X T FT DEEP CUBIC YARDAGE TSD  DISPOSAL FACILITY:  OTRACOLOR OFFE  EXCAVATION APPROX 5 Y FT X G FT X T FT DEEP CUBIC YARDAGE TSD  LAND USE:  LAND USE:  OTRACOLOR OFFE  DISPOSAL FACILITY:  ON SITE  REMEDIATION METHOD LANDERSM  DISPOSAL FACILITY:  ON SITE  REMEDIATION METHOD LANDERSM  LAND USE:  LAND USE:  ON SITE  REMEDIATION METHOD LANDERSM  DISPOSAL FACILITY:  ON SITE  REMEDIATION METHOD LANDERSM  DISPOSAL FACILITY:  ON SITE  REMEDIATION METHOD LANDERSM  PORMATION:  MU  AND USE:  ON SITE  REMEDIATION METHOD LANDERSM  DISPOSAL FACILITY:  ON SITE  REMEDIATION METHOD LANDERSM  PORMATION:  MU  AND SECONDARY METHOD LOUSURE STD SOOD POH  MEDIC PANKING SCORE:  ON NECES AND SECONDARY METHOD METHOD LOUSURE STD SOOD POH  SETEL TANK INSTALLED  FREEDRALS:  FREEDRACK  NO REPRESENT METHOD SECRETION  TO EMBRUSS  AND SECONDARY METHOD METHOD WITH METHOD SECRETION METHOD SECRETION METHOD OF MERCHAN,  NO REPRESENT METHOD OF SECONDARY METHOD OF MERCHAN,  NO REPRESENT METHOD OF SECONDARY METHOD OF MERCHAN,  NO REPRESENT METHOD OF MERCHAN,  SECONDARY METHOD OF MERCHANDERSM  TO SECONDARY METHOD OF MERCHANDERSM  NO REPRESENT METHOD OF MERCHANDERSM  TO SECONDARY METHOD OF MERCHANDERSM  ON TO SECONDARY METHOD OF MERCHANDERSM  TO SECONDARY METHOD OF MERCHANDERSM  ON TO SECONDARY METHOD OF METHOD OF MERCHANDERSM  ON TO SECONDARY METHOD OF METH	DO BOX 87 BLOOMFIELD, NA	1 87413 c.a.c. Na
DISPOSAL FACILITY:  OTRACOLOR OFFE  EXCAVATION APPROX 5 Y FT X G FT X T FT DEEP CUBIC YARDAGE TSD  DISPOSAL FACILITY:  OTRACOLOR OFFE  EXCAVATION APPROX 5 Y FT X G FT X T FT DEEP CUBIC YARDAGE TSD  LAND USE:  LAND USE:  OTRACOLOR OFFE  DISPOSAL FACILITY:  ON SITE  REMEDIATION METHOD LANDERSM  DISPOSAL FACILITY:  ON SITE  REMEDIATION METHOD LANDERSM  LAND USE:  LAND USE:  ON SITE  REMEDIATION METHOD LANDERSM  DISPOSAL FACILITY:  ON SITE  REMEDIATION METHOD LANDERSM  DISPOSAL FACILITY:  ON SITE  REMEDIATION METHOD LANDERSM  PORMATION:  MU  AND USE:  ON SITE  REMEDIATION METHOD LANDERSM  DISPOSAL FACILITY:  ON SITE  REMEDIATION METHOD LANDERSM  PORMATION:  MU  AND SECONDARY METHOD LOUSURE STD SOOD POH  MEDIC PANKING SCORE:  ON NECES AND SECONDARY METHOD METHOD LOUSURE STD SOOD POH  SETEL TANK INSTALLED  FREEDRALS:  FREEDRACK  NO REPRESENT METHOD SECRETION  TO EMBRUSS  AND SECONDARY METHOD METHOD WITH METHOD SECRETION METHOD SECRETION METHOD OF MERCHAN,  NO REPRESENT METHOD OF SECONDARY METHOD OF MERCHAN,  NO REPRESENT METHOD OF SECONDARY METHOD OF MERCHAN,  NO REPRESENT METHOD OF MERCHAN,  SECONDARY METHOD OF MERCHANDERSM  TO SECONDARY METHOD OF MERCHANDERSM  NO REPRESENT METHOD OF MERCHANDERSM  TO SECONDARY METHOD OF MERCHANDERSM  ON TO SECONDARY METHOD OF MERCHANDERSM  TO SECONDARY METHOD OF MERCHANDERSM  ON TO SECONDARY METHOD OF METHOD OF MERCHANDERSM  ON TO SECONDARY METHOD OF METH	FIELD REPORT: CLOSURE VERIFIC.	ATION PAGE NO: 1 of 1
QUAD/UNIT & SEC 9 TWP ZGN RNOTHS DENNY CHIEF STORM TO BE OTRECORNES TO CONTRACTOR 953  EXCAVATION APPROX. 5.Y. FT. x. GL FT. x. 7. FT. DEEP. CUBIC YARDAGE: 75.D  DISPOSAL FACILITY: 0.1-5.TE REMEDIATION METHOD. CANDERS.  LAND USE: RAGE LEASE. JC. 10.2. FORMATION: MU  LAND USE: RAGE LEASE. JC. 10.2. FORMATION: MU  LAND USE: REMARKS: PIT LICCATED APPROXIMATELY 153 FT. NTE FROM WELLHEAD.  SEPTIM TO GROUNDWATER. 2100.1 NEAREST VATER SOURCE. 2100.0 NEAREST SUFFRACE VAILER. XOOD  NAMEDO PAINTING SCOPE: 0. NOCCO THA CLOSUSE STD SOOD PPM  STOLEMAND EXCAVATION DESCRIPTION  TIDEWALLS - OK. YELL ANDINGE SITTY SOOD MAN COMESTIVE SUBSTITED THAN KNOTALLED TIBERGLASS TANK INSTALLED  TIDEWALLS - OK. YELL ANDINGE SITTY SOOD MAN COMESTIVE SUBSTITED THAN KNOTALLED  TIDEWALLS - OK. YELL ANDINGE SITTY SOOD MAN COMESTIVE SUBSTITED THAN KNOTALLED  TIDEWALL SOURCE OF SOURCE OF SUBSTITE SOOD FOR SUBSTITE SOON ENGAGES, NO APPRICATION OF SUBSTITE SOURCE OF SUBSTITE SOON SUBSTITED THAN KNOTALLED  TIDEWALL SOURCE OF SUBSTITE OF SUBSTITE SOON SUBSTITES SOO	LOCATION: NAME: TISA. APPRINE 102 WELL #: 29 PIT: BLO	DATE STARTED: 10(20176
EXCAVION APPROX SY FIX GI FT. X 7 FT. DEEP. CUBIC YARDAGE: 150 DISPOSAL FACILITY  DISPOSA	OHAD JUNIT & SEC: 9 TWP: ZEA RNG: 4W PM:NM CNTY:	A STINM
DISPOSAL FACILITY:  LAND USE: APIGE  LEASE: JC 107 FORMATION: MV  FIELD NOTES & REMARKS: PIT LOCATED APPROXIMATELY 153 FT. NTE FROM WELLHEAD  DEPTH TO GROUNTWATER. 27991 MEAREST WATER SOURCE: 21095 NEAREST SUPFACE VATER 27095  NADOD PANKING SCORE: NEADON NOTE OF CLOSURE STD 5090 PPM  NADOD PANKING SCORE: NEADON NOTE OF STELL TANK INSTALLED  FIDEWALLS - OK YELL CARRIED SUTY SAND NON CHESTURE TUGHTRY MUST FAM NO  NOTERING STORMAL OFFICE OF STELL TANK INSTALLED  FIDEWALLS - OK YELL CARRIED SUTY SAND NON CHESTURE TUGHTRY MUST FAM NO  NOTERING THE OBJECT OF SERVICE OF SERVICE OF SERVICE AND THERE OF SERVICE AND THE PROPERTY OF SERVICE AND THE	QTR/FOOTAGE: 1560 FNL/1790 FEL CONTRACION: 7	
FIELD NOTES & REMARKS: PIT LOCATED APPROXIMATELY 153 FT. NTE FROM WELLHEAD.  DEPTH TO GROUNDWATER 2003 NEAREST VATER SOURCE: 2005 NAGREST SURFACE VATER 10005 NEAREST VATER 2005 NEAREST SURFACE VATER NOOD PANKING SCORE: NAMED THE CLOSURE STO 5000 PPM STOTE AND DESCRIPTION:  STORWALLS - DK. YELL CARNGE SILTY SAND NON CONESTINE SUBJECT ANK INSTALLED FIBERGLASS TANK INSTALLED FIBERGL	REMEDIATIO	)N METHOD:
DEPTH TO GROUNDVATER. \$1999 NAMEST VATER SOURCE \$1000 PPM  NMOCD PANKING SCORE:  NMOCD PANKING SCORE:  NMOCD THE CLOSURE STD \$000 PPM  STEL TANK INSTALLED  STELL TANK INSTALLED  FIRE DATE:  NOTIFIED OF SERVICE  STELL TANK INSTALLED  STELL TANK INS	LAND USE: KAAGE LEASE: JYC	53 FT NTE FROM WELLHEAD.
STEL TANK INSTALLED  STORE AND EXCAVATION DESCRIPTION:  STOREWALLS - OK YELL ANDRES STATY SAND NON COMESTIC STATEMY MIST TANK NOT ANDRESS TANK INSTALLED  STOREWALLS - OK YELL ANDRES STATY SAND NON COMESTIC STATEMY MIST TANK NO ANDRESS TANK INSTALLED  STOREWALLS - OK YELL ANDRESS TO STATEMY OF BERKSCK,  NOTEGORIE STATEMIC OF BETTER STATEMY OF BERKSCK,  NOT APPRIED NOT STATEMY OF BERKSCK COMESTED FROM EAST,  STOREWALL STATEMY OF BERKSCK COMESTED FROM EAST,  BETTOM - BEORGER (SANDSTANE) OWNE TO FED. GON, VERY HARD, NO APPARENT  ME DOOK IN JUNE SAMPLE ID LAB NO: WEIGHT (g) ML FREON DILUTION READING CALC PAM  SCALE  130 DE Y' TANK SAMPLE ID LAB NO: WEIGHT (g) ML FREON DILUTION READING CALC PAM  SCALE  1230 DE Y' TANK SAMPLE ID LAB NO: WEIGHT (g) ML FREON DILUTION READING CALC PAM  RESULTS  SWAPLE TO SAMPLE TO	NEAREST WATER SOURCE:	EAREST SURFACE WATER: >/000'
SOIL AND EXCAVATION DESCRIPTIONS  FIDEWALLS - ON YELL ORENGE SLITY SAND NON CONESTIVE SUBSTITED SEE BERRYCK, NOTERRILE STRINKING OBSERVED BOTTOM & CONSISTED OF BERRYCK, NO APPRIEST NE OPEN DEFECTED WIN EXPONENTIAL SHEAT NO OUR APPRIEST NE OPEN COUNTY SAMPLE (O'LECTE) FROM EAST, AND YEAR AND STORMED ON SANDE (O'LECTE) FROM EAST, STRENALL.  BOTTOM - BEDROCK (SANDSTONE) ONUE TO TED. GRAM USEY HARD, NO APPRIENT NE DOOR TO UT SAMPLE.  BERKOCK (SANDSTONE) ONUE TO TED. GRAM USEY HARD, NO APPRIENT SCALE  BOTTOM - BEDROCK (SANDSTONE) ONUE TO TED. GRAM USEY HARD, NO APPRIENT NE DOOR TO UT SAMPLE.  BERKOCK (SANDSTONE)  TIME SAMPLE ID. LAB NO: WEIGHT (g) ML FREON DILUTION READING CALC DATE OF THE OFFICE O	NMTCD RANKING SCORE: NMTCD THE CEDOS 2	<del></del>
NOTESTALE SHOPE AND DETECTED WIND EXCOUNTING SHAPE AC DOUR NOW APPREED THE DOUR SHAPE (COLLECTE) FROM TOP OF BERBOCK, NIND WIST STOREWARD OWNERS OF BERKSCK COLLECTED FROM EAST STOREWARD.  ROTTOM - BEORGER (SAPOSTONE) OWNE TO THE GOOD VERY HARD, NO APPRAINT HE DOOK IN JUNE SAMPLE.  BEKNOCK (LOSED)  FIELD 418.1 CALCULATIONS  RESULTS  SCALE  1.230 Dey' 19H-2x1 5 20 1:1 56 224  OFT  PIT PERIMETER IN OVM  RESULTS  SAMPLE 1.D LAB NO: WEIGHT (g) THE FREON DILLUTION READING CALC. PROT  PIT PERIMETER IN OVM  RESULTS  SAMPLE 100.3  SAMPLE 100.3  SAMPLE 100.3  SERVICE 100.3  SEY' 10.3  A 9 1 61 5 9 7 2.5  LAB SAMPLES  L	SOIL AND EXCAVATION DESCRIPTION:	FIBERGLASS TANK INSTALLED
TIME SAMPLE I.D. LAB No: WEIGHT (9) ML. FREON DILUTION READING CALC. ppm  SCALE  1230 Dey' TRH-ZEI 5 Zo 7: 1 56 ZZY  OFT  PIT PERIMETER IN  OVM  RESULTS  ONE O' 10.3  1	NO APPARENT HE DOSK DEFERME (COLLE WIN) WIST SIDEWALL OVER SAMPLE (COLLE ONLY SAMPLE NOT CONSISTING OF BEDRO SIDEWALL.  BOTTOM - BEDROCK (SANDSTONE) OLIVE TO MED. GED HE DOOK IN DUM SAMPLE.	CTEN FROM TOP OF BEDROCK, CX COLECTED FROM EAST?
SCALE  OFT  PIT PERIMETER  OVM  RESULTS  SAMPLE  ORECTION  ORECTION  A  OFF  O	RENOCK FIELD 418.1 CA	mL. FREON DILUTION READING CALC. PPIN
PIT PERIMETER IN  SY' SWOPE  SAMPLE PROPRIE  PIT PROFILE  OVM  RESULTS  SAMPLE PROPRIE  A SY' A SWOPE  1 @ S' 6.0 2 @ y' 4.3 4 @ y' 10.3 5 @ 7' 2.5  A @ Y' 10.3  BEDROCK  (55)  BEDROCK  (55)		
PIT PERIMETER IN  SY' SWOPE  OVM  RESULTS  SAMPLE PROPRIE  OVM  RESULTS  SAMPLE PROPRIE  A A A A A A A A A A A A A A A A A A A	O FT	DE PROFILE
RESULTS  SAMPLE   RELD HEADSPACE   PILE DIPM')  A	PIT PERIMETER IN OWN	PIT PROFILE
A 9 A 6 SEDROCK  SEDR	54' STOPE RESULTS OIRECTION SAMPLE PIELD HEADSPACE	A
A 9 3 A 61 70.3 71 71	10 T 1 @ 5' 6.0	
A G S REDROCK (55)  LAB SAMPLES SAMPLE ANALYSIS TIME  WELL HERD  ONSITE: 19/20/98	3 @ y' 4.3	-'T ¬I4'
LAB SAMPLES  SAMPLE ANALYSIS TIME  DELL HERD  ONSITE: 19/29/98	7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	REDROCK
LAB SAMPLES  SAMPLE ANALYSIS TIME  WELL HEAD  ONSITE: 19/29/98		
SAMPLE ANALYSIS TIME  WELL  HERD  ONSITE: 19/29/98		
TRAVEL NOTES: CALLOUT:ONSITE:	SAMPLE ANALYSIS TIME	
TRAVEL NOTES: CALLOUT: ONSITE:	MEND	
TRAVEL NOTES: CALLOUT: ONSITE:O/20/98		
	TRAVEL NOTES: ONSITE:	15/20/98

#### **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: **Project Location:**  2 @ 4'

Jicarilla Apache # 102 - 29

Laboratory Number:

TPH-2061

Project #:

Date Analyzed:

10-20-98

Date Reported:

10-20-98

Sample Matrix:

Soil

Parameter	Result, mg/kg	Detection Limit, mg/kg 
Total Recoverable Petroleum Hydrocarbons	220	20

ND = Not Detectable at stated detection limits.

QA/QC:

QA/QC Sample TPH mg/kg

Duplicate TPH mg/kg

% \*Diff.

236

220

7.02

Method:

Modified Method 418.1, Petroleum Hydrocarbons, Total

Recoverable, Chemical Analysis of Water and Waste,

**USEPA Storet No.4551, 1978** 

Comments:

Blow Pit - BJ670

Review

<sup>\*</sup>Administrative Acceptance limits set at 30%.

#### **BLAGG ENGINEERING, INC.**

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

Field TPH-Worksheet

Max Characters:

Client:

2 @ 4'

Sample ID: **Project Location:** 

Laboratory Number:

Amoco

Jicarilla Apache #102 - 29

TPH-2061

Project #:

Date Analyzed: Date Reported: 10-20-98 10-20-98

Soil Sample Matrix:

Sample Weight:

5.00 grams

Volume Freon:

20.00 mL

Dilution Factor:

1 (unitless)

TPH Reading:

56 mg/kg

TPH Result: Reported TPH Result: **Actual Detection Limit:**  224.0 mg/kg 220 mg/kg

20.0 mg/kg

Reported Detection Limit:

20 mg/kg

QA/QC:

Original TPH mg/kg

Duplicate TPH mg/kg

% Diff.

236

220

---7.02

Comments:

Comments:

Blow Pit - BJ670

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

87670 . SUBMIT I 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, N	M 87401
JICARILA APACI	DE \$102-27
Location: Unit or Qtr/Qtr Sec G Sec G T 2	-GN R 7W County 270 FFICE/8!
Dit Type: Separator > Dehydrator Other	
Land Type: KANGE	
Pit Location: Pit dimensions: length	$19^{\prime}$ , width $19^{\prime}$ , depth $3/2^{\prime}$
(Attach diagram)  Reference: wellhead X,	other
Footage from reference: 9	S Degrees × East North
Direction from reference:	8 Degrees X East North of 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)
u ·	RANKING SCORE (TOTAL POINTS):

	BJ670 SEP. PIT
Date Remediation Started:	Date Completed: 10 20 98  Approx. cubic yards Z5
Remediation Method: Excavation  Check all appropriate   Landfarmed  Sections)   Other	Insitu Bioremediation
Mo TPH ANNLYSIS WAS CONDUCTED.	· · · · · · · · · · · · · · · · · · ·
Groundwater Encountered: No Yes _	Depth
Final Pit: Closure Sampling: (if multiple samples, attach sample results and diagram of sample locations and depths)  Sample depth  Sample date  Sample date	PIT Borron  Sample time
Sample Results  Soil: Benzene (ppm)	Water: Benzene (ppb)  Toluene (ppb)  Ethylbenzene (ppb)
	_ (If yes, attach sample results)
	BOVE IS TRUE AND COMPLETE TO THE BEST OF MY
DATE 10/20/98, PRINTER SIGNATURE BURLY D. Show AND T	NAME Buddy D. Shaw  CITLE Environmental Coordinator
AFTER REVIEW OF THE PIT CLOSURE INFORMATO THE JICARILLA APACHE TRIBE PIT CLOSURE	TION, PIT CLOSURE IS APPROVED IN ACCORDANCI E ORDINANCE.

	~
BLAGG ENGINEERING, INC. P.O. BOX 87, BLOOMFIELD, NM 87413 (505) 632-1199	C.O.C. NO:
FIELD REPORT: CLOSURE VERIFICATION	PAGE No: of
LOCATION: NAME: JICA. APROHE 102 WELL #: 29 PIT: SEP	DATE STARTED: 10/20/98
QUAD/UNIT: & SEC: 9 TWP: 26N RNG: 40 PM: NM CNTY: RA ST:NM	DATE FINISHED:
QTR/FOOTAGE: 1560 FAL /1790 FEL CONTRACTOR: P&S	ENVIRONMENTAL SPECIALIST:
EXCAVATION APPROX. 19 FT. x 19 FT. x 3/2 FT. DEEP. CUB.	C YARDAGE: 25
DEMEDIATION METH	OD: LANDFART
LAND USE: LANGE LEASE: JIC 102 F	ORMATION:wV
FIELD NOTES & REMARKS: PIT LOCATED APPROXIMATELY 96 FT.	SZ8E FROM WELLHEAD.
DEPTH TO GROUNDWATER: >100 NEAREST WATER SOURCE: >1000 NEAREST SURF	ACE WATER: >1000
	PIT ABANDONED
NMOCD RANKING SCORE: NMOCD THE CLUSTORE STD - ST	STEEL TANK INSTALLED
	FIBERGLASS TANK INSTALLED
EXCRUPTION MOSTLY BEORDOCK MOD. YELL BROWN TO MED.  NO NOTICEABLE STRINING OBJECTED NO APPARENT HE ODOR	GRAY VERY HARD,
NO NOTICEABLE STRINING OBJECTED NO APPARENT HE SOUR	BEDRUCK, THEREFORE
NO NOTICEABLE STAINING OBJECTED) NO APPARENT AC STAINING OBJECTED) NO APPARENT AC STAINING OBJECTED SAMPLE SAMPLE CONFICTED FROM NO TOHE ANALYSIS WAS CONDUCTED.	
EXCRUPTION CLOSED	
BEDROCK  TIME SAMPLE I.D. LAB NO: WEIGHT (g) mL. FREON	DILUTION READING CALC. ppm
SCALE 1130	
0 FT	T DDOELLE
PIT PERIMETER N PI	T PROFILE
A 10 RESULTS	
WELL SAMPLE FIELD HEADSPACE PID (ppm)	
1 @ 3/2 0.0 2 @	
3 0 4 0	IOT APPLICABLE
5 EP 5 E	
19 (D)	
LAB SAMPLES  SAMPLE   ANALYSIS   TIME	
LAB SAMPLES  SAMPLE ANALYSIS TIME  DIRECTION  LAB SAMPLES  TIME  DIRECTION	
V ORECTION	
TRAVEL NOTES: CALLOUT: ONSITE: 10/20/99	3
TRAVEL NOTES. CALLOUT: ONSITE:	

# 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	<b>Telephone</b> : (505) 326-9200				
Address: 200 Amoco Court, Farmington,	NM 87401				
Facility or Well Name: SICAPILLA APACHE 102.1	29				
Location: Unit or Qtr/Qtr Sec_ 9 Sec_ 9 T_22	RAW County RIOAREJBA				
Land Type: RANGE					
Date Remediation Started: 10.20.98	Date Completed:				
Remediation Method: Landfarmed	Approx. cubic yards 775				
Composted					
Other					
epth To Groundwater: (pts.) _o	Final Closure Sampling:				
Distance to an Ephemeral Stream (pts.)	Sampling Date: 5-13-99 Time: 1035				
Distance to Nearest Lake, Playa, or Watering Pond (pts.)	Sample Results:				
Wellhead Protection Area: (pts.)	Field Headspace (ppm) 0.0				
Distance To SurfaceWater: (pts.)	TPH $(ppm)$ $2.3$ Method $(80.5)$				
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	IS TRUE AND COMPLETE TO THE ELECTION				
DATE 5/17/99 PRINTED NAME Buddy D. Shaw					
SIGNATURE Bully A. 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				

CLIENT: AMOCO

#### BLAGG ENGINEERING, INC. P.O. BOX 87, BLOOMFIELD, NM 87413 (505) 632-1199

LOCATION NO: 83670

C.D.C. ND: 6924

FIELD	REPORT:	LANDFARM/	/COMPOST	PILE	CLOSURE	VERIFICATION
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LOCATION: NAME: JCABULA APACHE 102 WELL #: 29 PITS: SEP, BLOW

QTP/FOOTAGE SW/4 NE/4 CONTRACTOR: P+S

DATE STARTED: 5.1399 DATE FINISHED:

QUAD/UNIT: 6 SEC: 9 TWP: 26N RNG: 4W PM: NM CNTY: RA ST: NM

ENVIRONMENTAL REP

SOIL REMEDIATION:

REMEDIATION SYSTEM: LANDFARM

APPROX. CUBIC YARDAGE: 775

LAND USE:

RANGE

LIFT DEPTH (ft): 1.5

FIELD NOTES & REMARKS:

DEPTH TO GROUNDWATER: >100' NEAREST WATER SOURCE: >1000' NEAREST SURFACE WATER: >1000'

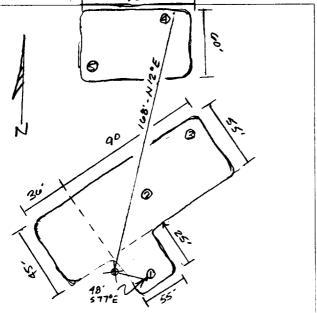
NMOCE RANKING SCORE: \_\_\_\_ NMOCD TPH CLOSURE STD: 5000 PPM

OK. YELMUISH EROWN SAND, NON CONESIVE, SLIGHTLY MOIST- MUIST, FIRM NO APPRICAT STRINING, NO HE ODOR DETECTED. SAMPLING DEPTHS RANGE FROM 6" 12" COLLECTED A SPT COMPOSITE SAMPLE FOR LAZ ANALYSIS

FIELD 418.1 CALCULATIONS

SAMP. TIME	SAMPLE I.D.	LAB No:	WEIGHT (	(g) mL.	FREON	DILUTION	READING	CALC. p	pm
							·		

SKETCH/SAMPLE LOCATIONS



OVM RESULTS LAB SAMPLES

SAMPLE ID	FIELD HEADSPACE PID (ppm)	SAMPLE ID	ANALYSIS	TIME	RESULTS
LF-1	0.0	25.1	(8015)	1035	2.3
			-		
					-
				-	

**SCALE** 

FT

TRAVEL NOTES:

CALLOUT:

NA

5.13.99 ONSITE: \_



#### 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 F249 6926 Soil Cool	Project #: Date Reported: Date Sampled: Date Received: Date Extracted: Date Analyzed: Analysis Requested:	403410 05-17-99 05-13-99 05-14-99 05-17-99 05-17-99 8015 TPH
--	---	---	--

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	0.9	0.2
Diesel Range (C10 - C28)	1.4	0.1
Total Petroleum Hydrocarbons	2.3	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 102 - 29 Landfarm. 5 Pt. Composite.

Secur L. Cycum

Review

# CHAIN OF CUSTODY RECORD

										-
Client / Project Name	Project Location LANDFACH	ANDFREM			ANALYSIS / PARAMETERS	/ PARAMI	ETERS			
BLAGG/AMOCO	JICARILLA	JICARILLA APACHE 102-29								
Sampler:	Client No.		rs	)_			Remarks	larks		
REP		40340	o. of tainer	1 15.						
Sample No./ Sample Sample Identification Date Time	Lab Number	Sample Matrix		TAT (BO						
11 65.21.5	P467	5016	`	7			SPT. COMPOSITE	PosiTi	(I)	
			-							
							SAHRE PRESERE	Fige	SERVE	1
							7007	1		
										-
						-				
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Sold of the second		5.1497 7:25	les	7	Cércia	-	570	45. July 3	725	
Relinquished by: (Signature)		Rece	aived by	Received by: (Signature)	1					<u> </u>
Relinquished by: (Signature)		Rece	eived by	Received by: (Signature)						<del></del>
		FOVIDOTECH IO	<b>P</b>			<b> </b>	Sample Receipt	eceipt		ــــــــــــــــــــــــــــــــــــــ
						<del> </del>		<	Z	1
		5796 U.S. Highway 64	ghway	64			Received Intact	7		ــــــــــــــــــــــــــــــــــــــ
		raillingtoil, 146W Mexico 6770	_0817	0.10			Cool - Ice/Blue Ice	7		