Denny & Fourt JICARILLA APACHE TRIBE
DEPUTY OIL & GAS INSPECTOR P.O. BOX 507
P.O. BOX 507

SUBMIT 1 COPY TO

NATURAL RESOURCE DEFT

AND OIL & GAS ADMINISTRATION

OCT 081999

DULCE, NEW MEXICO 87528

PIT REMEDIATION AND CLOSURE REPORT

Operator: AMOCO PRODUCTION COMPANY Telephone: (505)326-92	200
Operator: AMOCO PRODUCTION COMPANY Telephone: (505)320-92	
Address: 200 Amoco Court, Farmington, NM 87401	
Facility or Well Name: JICARILLA CONTRACT 148-19	
D G 14 TRSD RSW County RIO ARRIST	
Pit Type: Separator Dehydrator Other_ BLOW	.
Land Type: KANGE	
Pit Location: Pit dimensions: length \8', width \8', depth \3' (Attach diagram)	
Reference: wellhead X, other	
Footage from reference: 87' East North	
Direction from feference: Degrees of	
West South X	
Depth To Groundwater: (Vertical distance from contaminants to seasonal high water elevation of groundwater) DECETVEN Less than 50 feet (20 points) (10 points) Au6 2 4 1999 Less than 50 feet (10 points) (10 points)	0
Distance to an Ephemeral Stream (10 points) (Downgradient dry wash greater than ten feet in width) (10 points) (10 points) (10 points)	
Distance to Nearest Lake, Playa, or Watering Pond (Downgradient lakes, playas and livestock or wildlife watering ponds) Less than 100 feet (10 points) (The point of the po	
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)	0_
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)	0
RANKING SCORE (TOTAL POINTS):	0

		Date Completed:
Date Remediation Sta	arted:	Approx. cubic yards
P ediation Method: k all appropriate	Excavation	
sections)	Landfarmed \nearrow	Insitu Bioremediation
Remediation Location (i.e. landfarmed onsite, name and location of offsite facility)	: Onsite X Offsite	
General Description	of Remedial Action: _Excavati	on
Groundwater Encoun	tered: No X Yes _	Depth
Final Pit: Closure Sampling: (if multiple samples,	Sample location see Attache	
attach sample results and diagram of sample	Sample depth	л вонот)
locations and depths)	Sample date 1/22/98	Sample time
	Sample Results	
	Soil: Benzene (ppm)	Water: Benzene (ppb)
	Total BTEX (ppm)	Toluene (ppb)
	Field Headspace (ppm)	Ethylbenzene (ppb)
	TPH (ppm)	
li .	e: Yes No	
I HEREBY CERTIF KNOWLEGE AND I	SELIEF	OVE IS TRUE AND COMPLETE TO THE BEST OF M
DATE	1/23/98 PRINTED	NAME Buddy D. Shaw
SIGNATURE BAS	Oly D. Shaw AND TI	TLE Environmental Coordinator
AFTER REVIEW OF TO THE JICARILL	A APACHE TRIBE III CHOSCAL	
APPROVED: YES	NO (REASON)	
SIGNED:	CMall DATE	c: <u>2-6-98</u>

	BLAGG ENGINEERING, P.O. BOX 87, BLOOMFIELD, 1 (505) 632-1199	NM 87413 c.a.c. Na: 5710
OUAD/UNIT: P SEC: 14	T: CLOSURE VERIFIC SUTR: 148 WELL #: 19 PIT: BU TWP: 25N RNG: 5W PM: NYN CNT SEL4 CONTRACTOR: P65	DATE STARTED: //zz/98
EXCAVATION APPROX. 18 DISPOSAL FACILITY: LAND USE: KANGE FIELD NOTES & REMAR DEETH TO GROUNDWATER: >10	FT. x 18 FT. x /3 FT. DI ON-SITE REMEDIAT LEASE: JICA. 148 KS: PIT LOCATED APPROXIMATELY O' NEAREST WATER SOURCE: >/000' NMOGD TPH CLOSURE STD: 5000 PPM	FORMATION: CK FORMATION: CK 87 FT. 55 FROM WELLHEAD. NEAREST SURFACE WATER: >1000' CHECK ONE:
FIRM NO APPRIL NO APPARENT (LOSED)	etel P. 410.1 (NON COHESIVE, SLIGHTLY MOIST, OBSERVED WIN EXERVATION, OF THE DUM SAMPLES. CALCULATIONS (q) ML. FREON DILUTION READING CALC. ppm
SCALE O FT PIT PERIM The second se	SAMPLE FIELD HEADSPACE ID PID (ppm) 1 9 0 0 2 9 7 0 0 3 9 9 0 0	PIT PROFILE A 18' 15' A'
(5)	5e 15' 0.0	13'
TRAVEL NOTES: CALLOUT	F: NA ONSITE:	1/22/98-MORN.



EPA METHOD 418.1 TOTAL PETROLEUM HYDROCARBONS

Client: Sample ID: Laboratory Number: Chain of Custody No: Sample Matrix: Preservative: Condition:	Blagg / AMOCO 5 @ 15' C835 5710 Soil Cool Cool and Intact	Project #: Date Reported: Date Sampled: Date Received: Date Extracted: Date Analyzed: Analysis Needed:	04034-10 01-23-98 01-22-98 01-23-98 01-23-98 01-23-98 TPH-418.1
--	---	--	---

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

Total Petroleum Hydrocarbons

12.8

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 148-19 Blow Pit.

Stacy W Sender

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

8J519 SUBMIT 1 COPY TO

NATURAL RESOURCE DEPT

AND OIL & GAS ADMINISTRATION

PIT REMEDIATION AND CLOSURE REPORT

	m.1 1	(505)326-9200)							
Operator: AMOCO PRODUCTION COMPANY										
Address: 200 Amoco Court, Farmington, NM	Address: 200 Amoco Court, Farmington, NM 87401									
Facility or Well Name: JICARIUA CONTRA										
Location: Unit or Qtr/Qtr Sec_P Sec_/4 T_25r		W18A								
Pit Type: Separator X Dehydrator Other										
Land Type: RANGE			<u> </u>							
Pit Location: Pit dimensions: length/S (Attach diagram) Reference: wellhead X, ot Footage from reference:/45	Pit Location: Pit dimensions: length /9', width /8', depth /5' (Attach diagram) Reference: wellhead X, other									
Direction from reference:	_ DegreesX East	North X								
	West	South								
	Lace than 50 feet	(20 points)								
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)	2							
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)	2							
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	(o 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	(20 points) (0 points)	<u>o</u>							
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)	<u> </u>							
D.	ANKING SCORE (TOTAL	POINTS):	<u> </u>							

		Date Completed:	5/15/98
	arted:	Approx. cubic yards	75
mediation Method: eck all appropriate	Excavation X Landfarmed X	Insitu Bioremediation	ll ll
Letions)			
	Other		
Remediation Location (i.e. landfarmed onsite, name and location of offsite facility)			
General Description	of Remedial Action: Excavation	on	
Groundwater Encoun	tered: No X Yes	Depth	
Final Pit: Closure Sampling: (if multiple samples,	Sample location <u>see Attache</u>		
attach sample results and diagram of sample	Sample depth17' (P)	T BOTTOM)	
locations and depths)	Sample date	Sample time	0930
	Sample Results		
h	Soil: Benzene (ppm)	NO Water: Benzene	
	Total BTEX (ppm)	0.0303 Toluene	
	Field Headspace (ppm)	Ethylber Ethylber	
	TPH (ppm)	Total Xy	vlenes (ppb)
1	e: Yes NoX		
I HEREBY CERTIF KNOWLEGE AND I			E TO THE BEST OF MY
DATE		NAME Buddy D. Shaw	
SIGNATURE BUS	Oly S. Shaw AND TI	TLE Environmental	Coordinator
AFTER REVIEW O TO THE JICARILL	F THE PIT CLOSURE INFORMAT A APACHE TRIBE PIT CLOSURE	ION, PIT CLOSURE IS APPRO ORDINANCE.	OVED IN ACCORDANCE
APPROVED: YES	NO (REASON)		
SIGNED: Lead	DATE	c: <u>6-15-98</u>	

CLIENT: AMOCO BLAGG ENGINEERING, INC. P.O. BOX 87, BLOOMFIELD, NM 87413 (505) 632-1199 C.D.C. ND: 5898
FIELD REPORT: CLOSURE VERIFICATION PAGE NO: _/ of _! LOCATION: NAME: JIGO, CONTR. 148 WELL #: 19 PIT: 5EP DATE STARTED: 5/14/98 DATE FINISHED:
QUAD/UNIT. P SEC: 14 TWP: 250 RNG: 5W PM: NM CNTY: RA ST: NM QTR/FUUTAGE: SE/4 SE/4 CONTRACTOR: P45 DATE FINISHED:
EXCAVATION APPROX. 19 FT x 18 FT x 15 FT. DEEP. CUBIC YARDAGE: 15 DISPOSAL FACILITY: 00-517E REMEDIATION METHOD: LANDFARM LAND USE: RANGE LEASE: TIC 148 FORMATION: CIC
FIELD NOTES & REMARKS: PIT LOCATED APPROXIMATELY 145 FT. NTE FROM WELLHEAD. DEPTH TO GROUNDWATER: >100 NEAREST WATER SOURCE: >1000' NEAREST SURFACE WATER: >1000' NMOCD RANKING SCORE: O NMOCD TPH CLOSURE STD: S000 PPM SOIL AND EXCAVATION DESCRIPTION: STEEL TANK INSTALLED FIBERGLASS TANK INSTALLED
SOIL MOSTLY PALE ORDINGE TO MOD. YELL. BLOWN SAND, NON COHESIVE, SLIGHTLY MOIST, FIRM, NO APPARENT STAINING OR HE ODOR OBSERVED WILL EXCAUATION, SLIGHT HE ODOR DETECTED IN PIT BOTTOM DUM SAMPLE ONLY.
FIELD 418.1 CALCULATIONS TIME SAMPLE I.D. LAB NO: WEIGHT (g) mL. FREON DILUTION READING CALC. ppm SCALE 0930
O FT PIT PERIMETER >> PIT PROFILE
OVM RESULTS SAMPLE FIELD HEADSPACE PID (ppm) 1 @ 9' O.O 2 @ 10' O.O
3 & 11 / 0.0 4 e 9' 0.0 5 e 17' /37.8
LAB SAMPLES SAMPLE ANALYSIS TIME SOLIT' TPH / BTEX 0930 WELL 8015/8021
TRAVEL NOTES: CALLOUT: 5/12/98 - MORN. ONSITE: 5/14/98 - MORN.



EPA METHOD 8015 Modified Nonhalogenated Volatile Organics Total Petroleum Hydrocarbons

ND - Parameter not detected at the stated detection limit.

Total Petroleum Hydrocarbons

References:

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

6.1

SW-846, USEPA, December 1996.

Comments:

Jicarilla Contract 148-19 Separator Pit.

Decent. Ogiecen

Stacy W Sendler.
Review

0.2



EPA METHOD 8021 AROMATIC VOLATILE ORGANICS

Client: Sample ID: Laboratory Number: Chain of Custody: Sample Matrix: Preservative:	Blagg / AMOCO 5 @ 17' D276 5898 Soil Cool Cool & Intact	Project #: Date Reported: Date Sampled: Date Received: Date Analyzed: Date Extracted: Analysis Requested:		04034-10 05-15-98 05-14-98 05-15-98 05-15-98 BTEX
Condition: Parameter	Conc (ug	Det. Limit (ug/Kg)		
Benzene Toluene Ethylbenzene p,m-Xylene o-Xylene		ND ND ND 30.3 ND	11.7 11.1 10.1 14.4 6.9	
Total BTEX		30.3		

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	Trifluorotoluene Bromofluorobenzene	98 % 98 %

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 Contract 148-19 Separator Pit.

Analyst Queen

Stacy W Sendler
Review

CHAIN OF CUSTODY RECORD

Relinquished by: (Signature)	Relinquished by: (Signature)	Relinquished by: (Signature)	Relinquished by: (Signature)					(5) @15' 1/22/98/13	Sample No./ Sample Sample Sample No./ Sample Sample No./ Sample S	Milhon Vil	Sampler: (Signature)	BLAGG / MMOCO		
							1320 C835	Sample Lab Number	04-96-10		Jigling con	Project Location		
ENVIROTECH INC. 5796 U.S. Highway 64-3014 Farmington, New Mexico 87401 (505) 632-0615	R	R	Date Time Re	SAMPLE				2012	Sample Matrix	-10	No.	CONTRACT 48 - 19	Beau PIT	CHAIN OF CUSTOUT RECOR
CH INC. Way 64:3014 Mexico 87401 -0615	Received by: (Signature)	Received by: (Signature)	Received by: (Signature) Date 1-23:	KECENED CODE & INTINCT BOLL				 ~ <	RESOLV.	o. of tainers) Remarks		ANALYSIS/PARAMETERS	מכי אבניטאט
			7-23-97 07/0						- 000		ırks			

	Relinquished by: (Signature)	Relinquished by: (Signature)					(5 @ 17 5/14/98 0930	Sample No./ Sample Sample Identification Date Time	Million Vely	Sampler: (Signature)	51865/ Anoco	Client/Project Name	
							0 D276	e Lab Number	01-45040	Chain of Custody Tape No.	TICARIUA	Project Location	0
ENVIROTECH INC. 5796 U.S. Highway 64-3014 Farmington, New Mexico 87401 (505) 632-0615		5/14/98 1455 F	ч				2016	Sample Matrix	G		COSTRACT 148-19	SEPALATOR PIT	CHAIN OF CUSTODY RECORD
ECH INC. way 64-3014 Mexico 87401 2-0615	Received by: (Signature)	Received by: (Signature) Received by: (Signature)	SHAPE RECEIVED COOL & MARCY DA			THE J	F	180 81 (80)	ANALTSIS/FARAMETERS		ODY RECORD
		S.14.96 1435	**			I has the X	794 < 5000 ppm	0587, -6000	Serve)	Remarks			

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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

Derator: AMOCO PRODUCTION COMPANY Telephone: (505) 326-9200 Address: 200 Amoco Court, Farmington, NM 67401 Facility or Well Name: 3 CAPILLA CONTRACT 148-19 Location: Unit or Qtr/Qtr See P See 14 T 250 R 5 County Plo APPEA Land Type: Parise Date Remediation Started: 1298 Date Completed: 11299 Approx. cubic yards 150 Composted Other Pht To Groundwater: (pis.) 0 Sampling Date: 1-7-99 Time: 1245 Distance to Nearest Lake, Playa, or Watering Pond (pis.) 0 Sample Results: Field Headspace (ppin) 0 0 Other Distance To SurfaceWater: (pis.) 0 TPH (ppin) 18.4 Method 80.5 Distance To SurfaceWater: (pis.) 0 Other RANKING SCORE (TOTAL POINTS): 0 Other HEREBY CERTIFY THAT THE INFORMATION ABOVE IS TRUE AND COMPLETE TO THE BEST OF MY KNOWLEGE AND BELIEF DATE 11299 PRINTED NAME Buddy D. Shav APTER 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:	•	
Address: 200 Amoco Court, Farmington, NM 67401 Facility or Well Name: 3 CABILLA CONTRACT 148-19 Location: Unit or Qtr/Qtr Sec_P_Sec_14_T_25\(\text{R}\) R_SW_County_Eld ACRIBA Land Type: 2ANGE Date Remediation Started: 12298 Date Completed: 1 12 99 Approx. cubic yards	Operator: AMOCO PRODUCTION COMP.	ANY Telephone: (505) 326-9200
Location: Unit or Qtr/Qtr See P Sec 14 T 25 R SW County Plo A@1BA Page Pa	Address: 200 Amoco Court, Far	mington, NM 87401
Location: Unit or Qtr/Qtr Sec_P_Sec_14_T_25\(\text{R}\) R & County Elevation Land Type: Zandes Date Remediation Started:	Well Name: TICARILLA CON	JTRACT 148-19
Date Remediation Started:	Location: Unit or Qtr/Qtr Sec_P_S	Sec_14 T_25N R_SW County_Elo PASSET
Date Remediation Started:	Land Type: PANGE	1 100
Composted Other Pth To Groundwater: (pts.) O Final Closure Sampling: Distance to an Ephemeral Stream (pts.) O Sampling Date: 1.7.99 Time: 1345 Distance to Nearest Lake, Playa, or Watering Pond (pts.) O Field Headspace (ppin) O O TPH (ppin) 18.4 Method Sols Wellhead Protection Area: (pts.) O TPH (ppin) 18.4 Method Sols Distance To SurfaceWater: (pts.) O Other RANKING SCORE (TOTAL POINTS): O Other I HEREBY CERTIFY THAT THE INFORMATION ABOVE IS TRUE AND COMPLETE TO THE BEST OF MY KNOWLEGE AND BELIEF DATE 1299 PRINTED NAME Buddy D. Shaw SIGNATURE Sully A 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)	Date Remediation Started: / 22.98	Approx. cubic yards _/50
Distance to an Ephemeral Stream (pts.) O Sampling Date: 1.7.99 Time: 1345 Distance to Nearest Lake, Playa, or Watering Pond (pts.) O Sample Results: Wellhead Protection Area: (pts.) O TPH (ppm) 18.4 Method Sots Distance To SurfaceWater: (pts.) O Other RANKING SCORE (TOTAL POINTS): O Other I HEREBY CERTIFY THAT THE INFORMATION ABOVE IS TRUE AND COMPLETE TO THE BEST OF MY KNOWLEGE AND BELLIEF DATE 1/2 99 PRINTED NAME Buddy D. Shaw SIGNATURE SURJECT 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)	Composted	
Distance to an Ephemeral Stream (pts.) O Sampling Date: 1799 Time: 1345 Distance to Nearest Lake, Playa, or Watering Pond (pts.) O Field Headspace (ppin) O TPH (ppm) 18.4 Method Sors Distance To SurfaceWater: (pts.) O TPH (ppm) 18.4 Method Sors RANKING SCORE (TOTAL POINTS): O Other RANKING SCORE (TOTAL POINTS): O THE REBY CERTIFY THAT THE INFORMATION ABOVE IS TRUE AND COMPLETE TO THE BEST OF MY KNOWLEGE AND BELIEF DATE PRINTED NAME Buddy D. Shaw SIGNATURE SIGNATURE SOIL REMEDIATION INFORMATION, ON-SITE REMEDIATION IS APPROVED IN ACCORDANCE TO THE JICARILLA APACHE TRIBE PIT CLOSURE ORDINANCE. APPROVED: YES NO (REASON)	Other	
Distance to Nearest Lake, Playa, or Watering Pond Wellhead Protection Area: (pts.) O TPH (ppm) 18.4 Method 20.5 Distance To SurfaceWater: (pts.) O Other RANKING SCORE (TOTAL POINTS): O Other I HEREBY CERTIFY THAT THE INFORMATION ABOVE IS TRUE AND COMPLETE TO THE BEST OF MY KNOWLEGE AND BELIEF DATE SIGNATURE SIGNATURE SIGNATURE SIGNATURE 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)	bin 10 Groungamers	5.) Time: _/345
Distance to Nearest Lake, Playa, or Watering Pond (pls.) O Field Headspace (ppm) O O TPH (ppm) 18.4 Method Sors Distance To SurfaceWater: (pls.) O Other RANKING SCORE (TOTAL POINTS): O Other I HEREBY CERTIFY THAT THE INFORMATION ABOVE IS TRUE AND COMPLETE TO THE BEST OF MY KNOWLEGE AND BELIEF DATE SIGNATURE SIGNATURE SIGNATURE SIGNATURE SIGNATURE AND TITLE 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)	Distance to an Ephemeral Stream (pts	
Wellhead Protection Area: (pts.) O TPH (ppm) 18.4 Method 20.5 Distance To SurfaceWater: (pts.) O Other RANKING SCORE (TOTAL POINTS): O Other I HEREBY CERTIFY THAT THE INFORMATION ABOVE IS TRUE AND COMPLETE TO THE BEST OF MY KNOWLEGE AND BELIEF DATE PRINTED NAME Buddy D. Shaw SIGNATURE SULLY D. Shaw AND TITLE Environmental Coordinates 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)	Distance to Nearest Lake, Playa,	.) Field Headspace (ppm)
RANKING SCORE (TOTAL POINTS): I HEREBY CERTIFY THAT THE INFORMATION ABOVE IS TRUE AND COMPLETE TO THE BEST OF MY KNOWLEGE AND BELIEF DATE SIGNATURE SIGNATURE AND TITLE AND TITLE Environmental Coordinator And Title Environmental Coordinator 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)	Wellhead Protection Area: (pts	(ppm) 18.4 Method 80.5
I HEREBY CERTIFY THAT THE INFORMATION ABOVE IS TRUE AND COME BOOK ROWLEGE AND BELIEF DATE 1 2 99	Distance To SurfaceWater: (pts	Other
I HEREBY CERTIFY THAT THE INFORMATION ABOVE IS TRUE AND COME BY KNOWLEGE AND BELIEF DATE 1 2 99	RANKING SCORE (TOTAL POINTS):	GOMEN FOR TO THE REST OF MY
SIGNATURE Bully A. Show AND TITLE Environmental Coordinates. 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)	I HEREBY CERTIFY THAT THE INFORMATION OF THE INFORM	ATION ABOVE IS TRUE AND COM EDVI
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)	BURGE BURGE A Sh	AND TITLE Environmental Coordinates
APPROVED: YES NO (REASON)	AFTER REVIEW OF THE SOIL REMEDIA	TION INFORMATION, ON-SITE REMEDIATION IS APPROVED IN CHE TRIBE PIT CLOSURE ORDINANCE.
DATE:	APPROVED: YES NO (RE	EASON)
SIGNED:	SIGNED:	DATE:

CLIENT: AMOCO

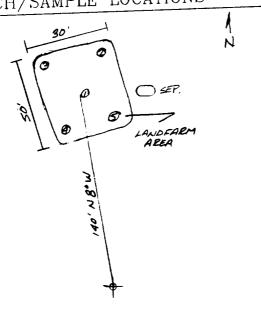
BLAGG ENGINEERING, INC. P.O. BOX 87, BLOOMFIELD, NM 87413

LOCATION NO: BIS19

P.0.	BOX 87,	BLOOMF -32 (5)	- 1199	101 0 , 1		C.[].C. NE 	6540
FIELD REPORT: LAN	·			CLOSU	JRE V	VERIFIC <i>i</i>	ATION
LOCATION: NAME: JUARIUA CONTRAC QUAD/UNIT: P SEC: 14 TWP: QTR/FOOTAGE: SE/A SE/A	7 148 WELL 25N RNG: 5	#: 19 5W PM: 1	PITS: BLO NM CNTY:	w		ATE STARTED: _ ATE FINISHED: _ IVIRONMENTAL PECIALIST:	1/12/99
SOIL REMEDIATION: REMEDIATION SYSTEM: 4			APPR(OX. CUE DEPTH	BIC YAI (ft):	RDAGE:/ 1.5-2.5	'50 <u> </u>
FIELD NOTES & REMARKS: DEPTH TO GROUNDWATER: >100 ' N	TOUL CL 02	HOE STD: 54	PPM			WATER: > 102	oo ′
NMOCD RANKING SCORE: NO DE YELLOW OPANGE - BROWN NO APPARENT STAINING OF FROM 6" - 18" TOOK A SE	N SAND, NON	conesve, . emed 3	AMPLING L	MOIST, FE DEPTHS & ALUSIS	PANISE		
CLOSED				_			
SAMP. TIME SAMPLE I	FIE	LD 418.1 CA	ML. FREON	S DILUTION	READING	CALC. ppm	
SAMP. TIME SAMPLE I	.D. LAB NO.	(9)					

	FI	LD 418.1 C	ALCU	LATION	S			
			Τ .	COCON	DILLITION	READING	CALC.	ppm
SAMP. TIME SAMPLE I.D.	LAB No:	WEIGHT (g)	mL.	FREUN	DILOTION		 	
DAMP. HML SAME EL 1181			1					
	1					 		
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	1		1			<u> </u>	1	
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SKETCH/SAMPLE LOCATIONS



OVM RESULTS

LAB SAMPLES

OVM I	RESULTS	1	AD OF	11VII 1.	
SAMPLE	FIELD HEADSPACE PID (ppm)	SAMPLE	ANALYSIS	TIME	RESULTS
10 LF-1	0.0	LF-1	1PH (8015)	1345	18.4
ZZ					
					<u> </u>
		J L			

S	CALE
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FT

1.7.99

TRAVEL NOTES:

CALLOUT: NA

ONSITE:



EPA METHOD 8015 Modified Nonhalogenated Volatile Organics Total Petroleum Hydrocarbons

Condition: Cool and Intact Allarysis Requested.	Client: Sample ID: Laboratory Number: Chain of Custody No: Sample Matrix: Preservative:	Blagg / AMOCO LF - 1 E486 6540 Soil Cool	Project #: Date Reported: Date Sampled: Date Received: Date Extracted: Date Analyzed: Analysis Requested:	04034-10 01-11-99 01-07-99 01-08-99 01-11-99 01-11-99 8015 TPH
---	---	---	---	--

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	7.7	0.2
Diesel Range (C10 - C28)	10.7	0.1
Total Petroleum Hydrocarbons	18.4	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 Contract 148 - 19 Landfarm. 5 Pt. Composite.

Den L. Gener

Stacy W Sendler

CHAIN OF CUSTODY RECORD

1	Heceived intact		Mayion 87401	Formington New Mexico 87401				
\			hway 64	5796 11 S Highway 64	I			
Z Z						,	6	77 603
eipt	Sample Receipt		S F F	EUNIDOLECH IUC		C136-6540	3	2000 CACE
		a)	Received by: (Signature)	Recei			ture)	Relinquished by: (Signature)
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		2. Ofter.	neceived by (organical	18/99 0835 NOCE	1		lure)	Relinquished by (Signature)
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X 17 E			Co	Sample Matrix	Lab Number	Sample Time	Sample Date	Sample No./
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तंड	Remarks		5	Client No.	Client No.			Condo:
	METERS	ANALYSIS / PARAMETERS		TONT IAS- 19	Project Location CANOPALM		9	Client / Project Name
				STAD.				