**B**丁542

JICARILLA APACHE TRIBE

JERNYLOLE GAS INSPECTOR

JICARILLA APACHE TRIBE

ENVIRONMENTAL PROTECTION OFFICE

P.O. BOX 507

NATURAL RESOURCE DEPT

SUBMIT 1 COPY TO

AND OIL & GAS ADMINISTRATION

007 0 8 1999

DULCE, NEW MEXICO 87528

Blow-Risk-bedook

Tunk Main-OK

PIT REMEDIATION AND CLOSURE REPORT Sep-OK

	2000
Operator: AMOCO PRODUCTION COMPANY	Telephone: (505)326-9200
Address: 200 Amoco Court, Farmington, NM	
Facility or Well Name: JICARILLA CONTRACT	148-37
Location: Unit or Qtr/Qtr Sec Sec 3 TZSN	R SW County RID ARRISA
Pit Type: Separator Dehydrator Other BL	
Land Type: RANGE	
(Au I II)	, width 45', depth 23'
Reference: wellhead x, on Footage from reference: 126'	ner
Direction from reference: 38	- · · · · · · · · · · · · · · · · · · ·
e e	✓ 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)  AUG 2 4 1999  DIVI	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)
R	ANKING SCORE (TOTAL POINTS):

	BJ542 BLOW PIT
Date Remediation Started:	Date Completed: 4/14/98
P rediation Method: Excavation X	Approx. cubic yards/,725
k all appropriate  scenous)  Landfarmed	Insitu Bioremediation
Other	
Remediation Location: Onsite X Offsite X	JICARILLA CONTRACT 148 - 4 (F-13-25-5)
(i.e. landfarmed onsite, name and location of offsite facility)	JICARILLA CONTRACT H8-33 (H-15-25-5)
General Description of Remedial Action: Excavat	ion. Bottom HALF MOSTLY BEDROCK,
	ACTED.
Groundwater Encountered: No X Yes	
Groundwater Encountered: No res_	
Final Pit: Sample location see Attach Closure Sampling: (if multiple samples,	
attach sample results and diagram of sample Sample depth Z 3	it Bottom)
locations and depths)  Sample date 4/14/98	. X
Sample Results	
<u> </u>	Water: Benzene (ppb)
Field Headspace (ppm)	•
ТРН (рріп)	Total Xylenes (ppb)
Groundwater Sample: Yes No _X	(If yes, attach sample results)
I HEREBY CERTIFY THAT THE INFORMATION AB KNOWLEGE AND BELIEF	OVE IS TRUE AND COMPLETE TO THE BEST OF MY
DATE 4/14/98 PRINTED	NAME Buddy D. Shaw
SIGNATURE BUlly D. Shaw AND T	TTLE Environmental Coordinator
II DI OI VILLE CITAL	ION, PIT CLOSURE IS APPROVED IN ACCORDANCE
APPROVED: YES NO (REASON)	
SIGNED: Kow Man DATI	E: <u>4-2<b>8</b>-98</u>

CLIENT: AMOCO	BLAGG ENGINEERING, INC P.O. BOX 87, BLOOMFIELD, NM	C.O.C. NO:
	(505) 632-1199	
FIELD REPOR	T: CLOSURE VERIFICA	DATE STARTED: 4/14/98
OLLAD CHNITE C SEC. 13	TWP: Z5N RNG: 5W PM: NM CNTY: RA	ST: NM DATE FINISHED:  ENVIRONMENTAL SPECIALIST:
	νωί4 <u>CONTRACTOR:</u> <b>F + S</b> 5 FT. x <u>45</u> FT. x <u>23</u> FT. DEEP.	CUBIC YARDAGE: 1,725
DISPOSAL FACILITY: 02	- SITE & JICA. CONTR. 48-SIREMEDIATION LEASE JICA. 148	FORMATION: OK
	RKS: PIT LOCATED APPROXIMATELY /2  NEAREST WATER SOURCE: > 1000' NEA  NMOCD TPH CLOSURE STD: 5000 PPM	FT. N38W FROM WELLHEAD.  REST SURFACE WATER: >1000'
DEPTH TO GROUNDWATER:		✓ PIT ABANDONED  STEEL TANK INSTALLED  FIBERGLASS TANK INSTALLED
SOILS AIRE DK. ?	YELL. BRUND SAND PHREING INTO P NO OBSERVED IN SAND INTERNAL CSE	USKY RED CLEY THEN SHALE, LE THICKNESS WIN PH PROFICE)
NO DISCOCORATION CLAY IS SLIGHTE	LY PLASTIC TO HIGHLY PLASTICE, SLIG	HTLY MUIST, FIRM TO VERY OF DUM SAMPLES COLLECTE
thom shale.	SHALE DUSKY RED IN COWR, VERY H	ard.
BEDROCK CLOS	TIME SAMPLE I.D. LAB NO: WEIGHT (g)	CULATIONS  ml. FREON DILUTION READING CALC. ppm
SCALE	1115	
0 FT PIT PERIM	METER IN	PIT PROFILE
	OVM RESULTS	n 45
, A	SAMPLE FIELD HEADSPACE PID (ppm)	DK. YELL. BX. SKND
D	1 € 18 0.0	DX. TELL. BR. SEND
D	1 e 18' 0.0 2 e 17' 0.0 3 e 17' 0.0 4 e 17' 0.0	0x. 764. 82. 5620 8' ] == 7 [7]
<b>D</b>	1 € 18' 0.0 2 € 17' 0.0 3 € 17' 0.0	5) TOLE
	1 e 18' 0.0 2 e 17' 0.0 3 e 17' 0.0 4 e 17' 0.0	8'T 
<b>D 3</b>	E 18	8'T 
<b>D S</b>	E 18   0.0   23   3   17   0.0   23   4   27   0.0   5   23   0.0     23   24   25   25   25   25   25   25   25	8'I 
3 A	1   18   0.0   23   23   3   17   0.0   23   4   17   0.0   5   23   0.0   5   0.0   0.0   5   0.0	8'I -

BJ542

# 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
Operator: AMOCO PRODUCTION NM 87401	
Address: 200 Amoco Court, Farmington, NM 87401	_ 37
Facility or Well Name:	OLG APRIPA
Sec 13 Trans RSW	County
Location: Unit or Qtr/Qtr Sec   Sec   Other   PRODUCTION	TANK
Land Type: RANGE	
Pit Location: Pit dimensions: length 30',	width 22', depth 14'
II A IC BOOM	
(Attach diagram)  Reference: wellhead X , other	
Footage from reference: 168	nes × East North ×
Direction from reference:/9 Degree	of
	West South
Depth To Groundwater:  (Vertical distance from  contaminants to seasonal  Greater	an 50 feet (20 points) to 99 feet (10 points) than 100 feet (0 points)
high water elevation of groundwater)  Distance to an Ephemeral Stream  (Downgradient dry wash greater than	nan 100 feet (10 points) er than 100 feet (0 points)
Distance to Nearest Lake, Playa, or Watering Pond  Compared by takes, playas and  Compared by takes, playas and	han 100 feet (10 points) er than 100 feet (0 points)
livestock or wilding watering points)	Yes (20 points) O (0 points)
Distance To SurfaceWater: 100 f	than 100 feet (20 points) eet to 1000 feet (10 points) eer than 1000 feet (0 points)
lakes, ponds, rivers, streams, creeks,	G SCORE (TOTAL POINTS):

	BJSYZ PROD TANK PIT
Date Remodiation Sta	rted: Date Completed:
ediation Method:  k all appropriate secons)	Excavation Approx. cubic yards 340  Landfarmed Insitu Bioremediation  Other
of WEST SID	of Remedial Action: Excavation, BEDROCK BOTTOM, SPRAYED NORTH
Groundwater Encoun	tered: No 🔼 1 es Dopai.
Final Pit: Closure Sampling: (if multiple samples,	Sample location see Attached Documents
attach sample results and diagram of sample locations and depths)	Sample depth9' (NORTH SIDEWALL)  Sample date4/14/98 Sample time/025
	Sample Results           Soil: Benzene         (ppm)         0.0095         Water: Benzene         (ppb)           Total BTEX         (ppm)         5.280         Toluene         (ppb)           Field Headspace         (ppm)         292         Ethylbenzene         (ppb)           TPH         (ppm)         70.1         Total Xylenes         (ppb)
Groundwater Sampl	
I HEREBY CERTIF KNOWLEGE AND	Y THAT THE INFORMATION ABOVE IS TRUE AND COMPLETE TO THE BEST OF M BELIEF
DATE SIGNATURE SUE	PRINTED NAME Buddy D. Shaw  OF THE PIT CLOSURE INFORMATION, PIT CLOSURE IS APPROVED IN ACCORDANCE.
TO THE JICARILL	THE PIT CLOSURE INFORMATION, APACHE TRIBE PIT CLOSURE ORDINANCE.  NO (REASON)
	CMc DATE: 4-29-98

BLAGG ENGINEERING, INC. P.O. BOX 87, BLOOMFIELD, NM 87413 (505) 632-1199	C.O.C. NO: 5742
FIELD REPORT: CLOSURE VERIFICATION  LOCATION: NAME: JICH. CONTR. 148 WELL #: 37 PIT: PROD.  QUAD/UNIT: 4 SEC: 13 TWP: Z5N RNG: 5W PM: NM CNTY: RA ST: NM  STR/FOOTAGE: NEL4 NWLV CONTRACTOR: P45	PAGE No: _1_ of _1_  DATE STARTED:
EXCAVATION APPROX. 30 FT. x 22 FT x 14 FT. DEEP. CUBIC DISPOSAL FACILITY: 0N-SITE REMEDIATION METHOL LAND USE: RANGE LEASE: JIG. 148 FOR FOR THELD NOTES & REMARKS: PIT LOCATED APPROXIMATELY 168 FT. A DEPTH TO GROUNDWATER: >100' NEAREST WATER SOURCE: >1000' NEAREST SURFACE NMOCOL RANKING SCOPE: D NMOCOL TPH CLOSURE STD: 5000 PPM	RMATION: DK  M9E FROM WELLHEAD.  E WATER: >1000' CHECK ONE:  PIT ABANDONED STEEL TANK INSTALLED FIBERGLASS TANK INSTALLED
SOILS RANGE FROM DK. YELL. BROWN SAND (APPROX. O'-  (7'-12'), CLAY SLIGHTLY PLASTIC MERR 7' TO HIGHLY PLASTIC MERR TO VERY HARD, MINOL AMOUNT OF STRINKS (SMALL NE CORNER OF EXCAURTION, STRONG HE ODOR IN NORTH OUN SAMPLES.  BOTTOM - OUSKY RED SHALE, LERY HARD, NO APPARENT HIS SAMPLE.  BEDRUCK CLOSED FIELD 418.1 CALCULATIONS  BOTTOM TIME SAMPLE I.D. LAB NO: WEIGHT (g) ML. FREON D	PATER) OBSERVED IN  O WEST SIDEWALL  IC ODOR IN OUM
1 69' 292 2 68' 0.0 3 68' 0.0 4 68' 244.1 5 6 14' 0.0	PROFILE  30'  LAY  Z'T  SHIGHT
AMTOMATION  AMTOMA	0RN.



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

Condition:	ol and Intact	Analysis Requested:  Concentration (mg/Kg)  6.3	Det. Limit (mg/Kg) 0.2
Parameter		(mg/Kg)	(mg/Kg
Gasoline Range (C5 - C10)			

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 148-37. Prod. Tank Pit.

Analyst Cepter L. Openson

Stacy W Sender



### EPA METHOD 8021 AROMATIC VOLATILE ORGANICS

Client: Sample ID: Laboratory Number: Chain of Custody: Sample Matrix: Preservative: Condition:	Blagg / AMOCO 1 @ 9' D104 5742 Soil Cool Cool & Intact	Project #: Date Reported: Date Sampled: Date Received: Date Analyzed: Date Extracted: Analysis Requested:	04034-10 04-17-98 04-14-98 04-15-98 04-17-98 04-15-98 BTEX
---	--	---	--

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene Toluene Ethylbenzene p,m-Xylene o-Xylene	9.5 101 684 3,690 795	8.8 8.4 7.6 10.8 5.2
Total BTEX	5,280	

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 Contract 148-37. Prod. Tank Pit.

Analyst Queen

Stacy W Sendler
Review

ENVIROTECH INC. 57% U.S. Highway 64-3014 Farmington, New Mexico 87401 (505) 632-0615	Relinquished by: (Signature)	Relinquished by: (Signature)  HISTH'S 114  Received by: (Signature)	Date	SAMPLE RECEIVED COCK &					Deg' 4/14/98 1025 DIO4 SOIL 1 1 1	TF (80	Miles (I) Italiners PHS (XX)	Sampler: (Signature) Chain of Custody Tape No.	BLAGG/ Amoco TICARILLA CONTRACT 148-37	Project Location PROD, TRNK PT	CIDIN CI COCIODI IIICOIT
		General Comment	Date Time	CACK				THEN RUN STEX.	17 7PH < 5000 PAR	PRESELV COOL		Remarks		ANAI YSIS/PARAMETERS	

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

8J542 SUBMIT 1 COPY TO

NATURAL RESOURCE DEPT

AND OIL & GAS ADMINISTRATION

# PIT REMEDIATION AND CLOSURE REPORT

		7,205,0300
Operator: AMOCO PRODUCTION COMPANY	Telephone:	(505)326-9200
Operator: AMOCO PRODUCTION NA	4 87401	
Address: 200 Amoco Court, Farmington, NN	CT 148 - 37	
Facility or Well Name:	D. T. Sw.) County RIO AF	KR18A
Facility or Well Name:	R 300 County	
Pit Type: Scparator X Dehydrator Other		
RANGE		
ny ti angiongy length	4' , width 15'	, depth
Pit Location:  (Attach diagram)  Reference: wellhead X,	other	
Reference: weinlead,  Footage from reference:   45	·'	
Direction from reference:	6 Degrees × East	North <u>X</u>
Direction from reference.	Of	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)
proundwater)  Distance to an Ephemeral Stream  (Downgradient dry wash greater than	Less than 100 feet Greater than 100 feet	(10 points) O Points)
Distance to Nearest Lake, Playa, or Watering Pond	Less than 100 feet Greater than 100 feet	(10 points) $\bigcirc$
Wellhead Protection Area:	Yes No	(20 points)
domestic water source, or less than 1000 feet from all other water sources)  Distance To SurfaceWater:  (Horizontal distance to perennial lakes ponds, rivers, streams, creeks,	Less than 100 feet 100 feet to 1000 feet Greater than 1000 feet	(20 points) (10 points) ( 0 points)
irrigation canals and ditches)	RANKING SCORE (TOTA	AL POINTS):
	RAINE	

	./ / _	
Date Remediation St	Started: Date Completed:4/1.5/9.8	
rediation Method:	: Excavation $\times$ Approx. cubic yards $\sim$ 75	
k all appropriate sections)	Landfarmed X Insitu Bioremediation	
	Other	<u> </u>
Remediation Location (i.e. landfarmed onsite, name and location of offsite facility)	on: Onsite X Offsite X JICARIUA CONTRACT 148-4 (F-13-25	-5)
	of Remedial Action: Excavation, BEDROCK BOTTOM.	
Groundwater Encour	ntered: 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 6' (NOITH SIDEWALL)	
locations and depths)	Sample date 4/14/98 Sample time 1045	
	Sample Results	
	Soil: Benzene (ppm) Water: Benzene (ppb)	
	Total BTEX (ppm) Toluene (ppb)	
	Field Headspace (ppin) _O.O Ethylbenzene (ppb)	
	TPH (ppm) 192 Total Xylenes (ppb)	
Groundwater Sampl	le: Yes No X (If yes, attach sample results)	<del>,</del>
I HEREBY CERTIF KNOWLEGE AND I	BY THAT THE INFORMATION ABOVE IS TRUE AND COMPLETE TO THE BEST OF BELIEF	F MY
DATE	4/15/98 PRINTED NAME Buddy D. Shaw	
SIGNATURE BUS	Qly D. Show AND TITLE Environmental Coordinator	
AFTER REVIEW OF TO THE JICARILLA	OF THE PIT CLOSURE INFORMATION, PIT CLOSURE IS APPROVED IN ACCORD. LA APACHE TRIBE PIT CLOSURE ORDINANCE.	ANCE
1	NO (REASON)	
SIGNED:	DATE: 4-29-98	

BLAGG ENGINEERING, INC. P.O. BOX 87, BLOOMFIELD, NM 87413 (505) 632-1199	C.O.C. NO:
FIELD REPORT: CLOSURE VERIFICATION  LOCATION: NAME: JICA . CONTR. 148 WELL #: 37 PIT: SEP  QUAD/UNIT: C SEC: 13 TWP: ZSN RNG: SW PM: NM CNTY: RA ST: NM  OTR/FOOTAGE NEIG NW14 CONTRACTOR: P S	PAGE No: _/_ of _/_  DATE STARTED:  DATE FINISHED:  ENVIRONMENTAL SPECIALIST:
EXCAVATION APPROX. 14 FT. x 15 FT. x 11 FT. DEEP. CUBIC DISPOSAL FACILITY: 0N-5178 & JICA. CONTR. 148-4 REMEDIATION METHOLAND USE: RANGE LEASE: JICA. 148 FOR	D: <u>LANDFARMED</u> RMATION: <u>OK</u> UYGE FROM WELLHEAD.
SOIL AND EXCAVATION DESCRIPTION:	_ PIT ABANDONED _ STEEL TANK INSTALLED _ FIBERGLASS TANK INSTALLED
MOSTLY PRE ORDUSE CLAY PHRSING INTO SHALE & APTA GRADE, LLAY - SUGHTLY TO HIGHLY PLOSTIC, SLIGHTLY MOIST, FIRM NO APPARENT STAINING OR HE ODOR OBSERVED WIND EX APPARENT HE ODOR IN ANY OF THE SIDELALL DUM SAM OF STANDING WATER ORIGIN. BOTTOM - DUSKY RED SHOLE, LERY HARD, LINABLE TO COL DUE TO STANDING WATER OBSERVED WIND EXCAUR	PLES, WICERTAIN
SCALE 4//5 1045 De 6 171-1434 0	1:1 48 192
	PROFILE  15' A'  15'  17'  17'  17'  17'  17'  17'  17
466' 0.0	SHOLE
SAMPLE ANALYSIS TIME	orn .

# 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:

1 @ 6'

Date Analyzed:

04 - 19 - 98

Project Location:

Jicarilla Contract 148 - 37

Date Reported:

04 - 19 - 98

Laboratory Number:

TPH-1954

Soil Sample Matrix:

Parameter	Result, mg/kg	Detection Limit, mg/kg 
Total Recoverable Petroleum Hydrocarbons	190	20

ND = Not Detectable at stated detection limits.

QA/QC:

QA/QC Sample TPH mg/kg	Duplicate TPH mg/kg	% *Diff.		
608	568	6.80		

<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 - BJ542

Manufact Tol

### BLAGG ENGINEERING, INC.

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

Field TPH-Worksheet

Client: AMOCO Project #:

Sample ID: 1 @ 6' Date Analyzed: 04-19-98 Project Location: Jicarilla Contract 148 - 37 Date Reported: 04-19-98

Laboratory Number: TPH-1954 Sample Matrix: Soil

Sample Weight: 5.00 grams Volume Freon: 20.00 mL

Dilution Factor: 1 (unitless) TPH Reading: 48 mg/kg

TPH Result: 192.0 mg/kg
Reported TPH Result: 190 mg/kg
Actual Detection Limit: 20.0 mg/kg
Reported Detection Limit: 20 mg/kg

QA/QC:	Original	Duplicate	%
	TPH mg/kg	TPH mg/kg	Diff.
	608	568	6.80

Comments: Separator Pit - BJ542

# 85542

### 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 O	COMPANY	Telephone: (505) 326-9200					
Address: 200 Amoco Court,	Farmington,	NM 87401					
Facility or Well Name: SICARILLA	CONTRACT 14	18 - 37					
Location: Unit or Qtr/Qtr Sec_ C	Sec <u>/3</u> T <u>.2</u>	SN R SW County RO ARRIBA					
Land Type: RANGE							
Date Remediation Started: 4 14	96	Date Completed:					
Remediation Method: Landfarmed		Approx. cubic yards /000					
Composted							
Other							
th To Groundwater:	(pts.)	Final Closure Sampling:					
Distance to an Ephemeral Stream	(pts.) <u>o</u>	Sampling Date: 1, 14 9 9 Time: 1030					
Distance to Nearest Lake, Playa, or Watering Pond	(pts.) <b>0</b>	Sample Results:  (LF-2)  Field Headspace (ppm) 20.7  (LF-2)					
Wellhead Protection Area:	(pts.)	TPH (ppm) 1775 Method 8015					
Distance To SurfaceWater:	(pts.) <u>o</u>	Other MULTIPLE SAMPLES . SEE ATTACHED					
RANKING SCORE (TOTAL POIN	ITS): <u>O</u>	FORM					
I HEREBY CERTIFY THAT THE INFO KNOWLEGE AND BELIEF	RMATION ABOVI	E IS TRUE AND COMPLETE TO THE BEST OF MY					
DATE    1/18/99   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							
SIGNED:	DATE	s: <u>3-31-99</u>					

CLIENT: AMOCO

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

LOCATION NO: 83542

C.D.C. ND: 6548

		( ;	)UD) b	32-1	199				
FIELD REPOR	T: LANI	DFARM/	COMP/	OST I	PILE CI	LOSURE	VERI	FICA	TION
LOCATION: <u>NAME: JUAR</u> QUAD/UNIT: C SEC OTP/FOOTAGE: NE/A	C: /3 TWP: 2	SN RNG:	5W 1	PM: NM	•	_	DATE STAF DATE FINIS ENVIRONME SPECIALIST	SHED: /	18.99
SOIL REMEDIATION:							<del></del>		
			,		. DDDOU	GUDIO V	ADDAGE	100	20
REMEDIATION S						CUBIC Y			
LAND USE: _	L,	ANGE			LIFT DEF	PTH (ft):	1.2		
FIELD NOTES & REI	MARKS:								
DEPTH TO GROUNDWATER:	>100 · NEAF	REST WATER	SOURCE: _	> 1000	NEAR	EST SURFACE	WATER: _	>100	oʻ
NMOOD RANKING SCORE:	<b>0</b> NMD0	D TPH CLOS	SURE STD:	5000 F	РМ				
MODERATE YELLOW LARGE AREAS OF S HC ODOR WAS DETA G"-18" TOOK A ST	TAINING OBES	ERVED IN B	COTH LANDI TS 0+8. FROM EA	FARM ARI SAMPLI CH LANE	EAS (SEE SK UG DEPTHS FARM AREI	ETCH BELOV BANGE FR A FOR LAE	om PANALYS		
CLOSED	5			APPRIX. TO 148	550 C.Y.D -33	- 1 47	PROX.		.Y. DEPOSED
	- <sub>1</sub>		LD 418.1						
SAMP. TIME	SAMPLE I.D.	LAB No:	WEIGHT (	g) mL. F	REON DILUT	TION READING	G CALC. p	pm 	
		<del>-</del>							
							-		
SKETCH/SAM	PIF IOC	TIONS	l						
T STANE	ZD.	A N		OVM .	RESULTS	CE SAMPLE	LAB SA	AMPL.	ES RESULTS
				10	7. 7	15-1	TAI	1000	1570
0 5		75'		1 F . 2	20.7	15·2	18015)	1000 1030	זרו
NL9.	132.58	10	9	<u></u>					
	•		<b>2</b>						
	ANDFARM GREAFI								
		( <b>a</b> ///	//9)						
	LANDFARY AREA#2	CTAINEL	+						
0	<i>-</i> (	ALE		SCAL	E FT				
TRAVEL NOTES:	OUT .//A				1.14	.99		-	
CALLO	OUT: N/A			ONSHE	_ <del></del>	<del></del>			



### 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 E525 6548 Soil Cool Cool and Intact	Project #: Date Reported: Date Sampled: Date Received: Date Extracted: Date Analyzed: Analysis Requested:	04034-10 01-18-99 01-14-99 01-15-99 01-15-99 01-18-99 8015 TPH
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Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	21.0	0.2
Diesel Range (C10 - C28)	1,550	0.1
Total Petroleum Hydrocarbons	1,570	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 - 37 Landfarm. 5 Pt. Composite.

Analyst

Stacy W Sendler
Review



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

Laboratory Number: Chain of Custody No: Sample Matrix: Preservative: Condition:	E526 6548 Soil Cool Cool and Intact	Date Received: Date Extracted: Date Analyzed: Analysis Requested:  Concentration	01-15-99 01-15-99 01-18-99 8015 TPH Det. Limit
Parameter		(mg/Kg)	(mg/Kg
Gasoline Range (C5 - C10)		75.3	0.2
Gasonile Range (00 * 010)	,	1,700	0.1
Diesel Range (C10 - C28)		•,•	

ND - Parameter not detected at the stated detection limit.

**Total Petroleum Hydrocarbons** 

References:

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

1,775

SW-846, USEPA, December 1996.

Comments:

Jicarilla Contract 148 - 37 Landfarm. 5 Pt. Composite.

Stacy W Sendler

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# CHAIN OF CUSTODY RECORD

	lat color some	000000000000000000000000000000000000000	Relinquished by: (Signature)	Relinquished by: (Signature)	Relinquished by: (Signature)					LF-2 1.14.99 1030	CF-1 1:14.49 1000	Identification Date Time	Comple	REP	Sampler:	BLACKS/AMOCO	Client / Project Name
	-	7								たらみし	E525	Lab Number		94	Client No.	SICARILLA	Project Location 4
5796 U.S. Highway 64 Farmington, New Mexico 87401 (505) 632-0615			Re	R	Date Time Re					7105	5010	Matrix	Sample	01-75070		SICARILLA CONTRACT 148-31	Project Location LANDFARM
lighway 64 v Mexico 87401 §2-0615			Received by: (Signature)	Received by: (Signature)	Received by: (Signature)					7	7	(8)	ont	o. of aine	rs		ANALYSIS / PARAMETERS
Received Intact  Cool - Ice/Blue Ice	۲ 2	Sample Receipt			Date 1 ime	-		 COOL	SAMPLES PRESERVE	SPT. COMPOSITE	STI. COMPOSITE				Remarks		RAMETERS