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

BJII

SUBMIT I COPY TO

NATURAL RESOURCE DEPT

AND OIL & GAS ADMINISTRATION

DEGEIVED N AUG 2 7 1000

PIT REMEDIATION AND CLOSURE REPORT

PIT REMEDIATION AND	(U); (I	l Com. Div
	Telenhone:	(505)326-9200
Operator: AMOCO PRODUCTION COMPANY		
Address: 200 Amoco Court, Farmington, NM	87401	
Facility or Well Name:	20CT # 155 - 53	200189
Location: Unit or Qtr/Qtr Sec_A Sec_Z9 TZ6N	R 5w County 700 7	990000
Pit Type: Separator Dehydrator Other_ &	sい	
Land Type: RANGE		
Dit Location: Pit dimensions: length Zo	o', width'	, depth <u>(o'</u>
(Attach diagram) Reference: wellhead X, or	ther	
Footage from reference: 115		North
Direction from reference: 18	Degrees East of ★ West	North South <u>×</u>
Depth To Groundwater: (Vertical distance from contaminants to seasonal	Less than 50 feet 50 feet to 99 feet Greater than 100 feet	(20 points) (10 points) (0 points)
high water elevation of groundwater) Distance to an Ephemeral Stream (Downgradient dry wash greater than	Less than 100 feet Greater than 100 feet	(10 points)
ten feet in width) Distance to Nearest Lake, Playa, or Watering Pond	Less than 100 feet Greater than 100 feet	(10 points)
(Downgradient lakes, playas and livestock or wildlife watering ponds) Wellhead Protection Area:	Yes No	(20 points) (0 points)
(Less than 200 feet from a private domestic water source, or: less than 1000 feet from all other water sources)		(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	(10 points) (0 points)

RANKING SCORE (TOTAL POINTS):

BLOW PIT - BJ717

_	orted: Date Completed:4/9 /99
•	Approx cubic vards /00
Remediation Method: (Check all appropriate	Excavation
sections)	Landfarmed _X Insitu Bioremediation
	Other
Remediation Location (i.e. landfarmed onsite, name and location of offsite facility)	: Onsite X Offsite
General Description	of Remedial Action: Excavation. BEDROCK BOTTOM.
Groundwater Encount	tered: 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 5' (WEST SIDEWALL)
locations and depths)	Sample date
! [Sample Results
1	Soil: Benzene (ppm) O. DIH! Water: Benzene (ppb)
	Total BTEX (ppm) 1.280 Toluene (ppb)
	Field Headspace (ppm) 301 Ethylbenzene (ppb)
	TPH (ppm) Z-7 Total Xylenes (ppb)
Groundwater Sample	: Yes No _X (If yes, attach sample results)
I HEREBY CERTIFY KNOWLEGE AND B	THAT THE INFORMATION ABOVE IS TRUE AND COMPLETE TO THE BEST OF MY ELIEF
DATE	4/9 /99 PRINTED NAME Buddy D. Shaw
SIGNATURE BUD	ly J. Shaw AND TITLE Environmental Coordinator
AFTER REVIEW OF TO THE JICARILLA	THE PIT CLOSURE INFORMATION, PIT CLOSURE IS APPROVED IN ACCORDANCE APACHE TRIBE PIT CLOSURE ORDINANCE.
APPROVED: YES	NO (REASON)
SIGNED:	DATE:

3003923227 BLAGG ENGINEERING, INC. CLIENT: AMOCO LOCATION NO: BITT P.O. BOX 87, BLOOMFIELD, NM 87413 C.O.C. NO: 6636 (505) 632-1199FIELD REPORT: CLOSURE VERIFICATION PAGE No: / of / DATE STARTED: 4/7/99 LOCATION: NAME: JICA. CONTR. 155 WELL #: 33 PIT: BLOW DATE FINISHED: QUAD/UNIT: A SEC: 29 TWP: 26N RNG: 5W PM:NM CNTY: RY ST: NM OTR/FOOTAGE: 790' FAL 1275' FEL CONTRACTOR: P+5 EXCAVATION APPROX. 20 FT. x 17 FT. x 10 FT. DEEP. CUBIC YARDAGE: 100 DISPOSAL FACILITY: ON- SITE REMEDIATION METHOD: LANDFARM LAND USE: LEASE: JIC 155 FORMATION: MU FIELD NOTES & REMARKS: PIT LOCATED APPROXIMATELY 115 FT. 5180 FROM WELLHEAD. DEPTH TO GROUNDWATER: >100' NEAREST WATER SOURCE: >1000' NEAREST SURFACE WATER: >1000' CHECK DNE NMOCD RANKING SCORE: 6 NMOCD TPH CLOSURE STD: 5000 PPM ✓ PIT ABANDONED SOIL AND EXCAVATION DESCRIPTION: ____ STEEL TANK INSTALLED ___ FIBERGLASS TANK INSTALLED MOSTLY PALE YELL ORPHSE TAND, NON COHESINE TLIGHTLY MOIST, FIRM NO APPARENT STAINING OR HE ODOR PRICED DETECTED WIN EXCAUTION HE DOOR DETECTED IN EAST & WEST SIDEWALL OUM JAMPLES. BOTTOM - BEOLOCAL (SANDSTONE) OLIVE GROY IN COLOR VERY HARD, NO APPARENT HE DOOR IN OUM SAMPLE. BEDROCK FIELD 418.1 CALCULATIONS ROBOM SAMPLE I.D. | LAB No: | WEIGHT (g) |mL. FREON | DILUTION | READING | CALC. ppm SCALE FT PIT PERIMETER 12 OVM RESULTS FIELD HEADSPACE PID (ppm) SAMPLE 0.0 142 @ 301 10.3 BEDROCK (55) LAB SAMPLES TPH (8015) 1300 BTEL (8021) BOTH PROSED ONSITE: 4/7/99 - AFTER. TRAVEL NOTES:

CALLOUT:



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 4 @ 5' E983 6636 Soil Cool Cool and Intact	Project #: Date Reported: Date Sampled: Date Received: Date Extracted: Date Analyzed: Analysis Requested:	403410 04-09-99 04-07-99 04-08-99 04-09-99 8015 TPH
--	--	---	--

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	2.7	0.2
Diesel Range (C10 - C28)	ND	0.1
Total Petroleum Hydrocarbons	2.7	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 155 - 33 Blow Pit.

Aleen R. Ogenen Analyst Stacy W Sendler
Review



EPA METHOD 8021 AROMATIC VOLATILE ORGANICS

Client: Blagg / AMOCO Sample ID: 4 @ 5' Laboratory Number: E983 Chain of Custody: 6636 Sample Matrix: Soil Preservative: Cool Condition: Cool & Intact	Project #: Date Reported: Date Sampled: Date Received: Date Analyzed: Date Extracted: Analysis Requested:	403410 04-09-99 04-07-99 04-08-99 04-08-99 BTEX
--	---	--

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
_	444	8.8
Benzene	14.1	8.4
Toluene	95.8	
Ethylbenzene	80.1	7.6
p,m-Xylene	796	10.8
o-Xylene	294	5.2
Total BTEX	1,280	

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	Trifluorotoluene	97 %
	Bromofluorobenzene	97 %

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-846,

USEPA, December 1996.

Comments:

Jicarilla Contract 155 - 33 Blow Pit.

Dew L. Gener

Stacy W Sendler

CHAIN OF CUSTODY RECORD

Client / Project Name	Project Location	8000 PIT	ANALYSIS / PARAMETERS	METERS
BLAGG / Mosco	TICARILLA CONTRACT	NTRACT 155-33		
Sampler:	Client No.) (Hemans
NJV	04034-10	-10	Holo. of the state	
Sample No./ Sample Sample	Lab Number	Sample Matrix	N Cor 7 (80	
4	E 983	5012	1 1 1	METERYCOOL
Delinquished by (Signature)		Date Time Re	cejyed by: (Signature)	Date Time
Septembries of the septembries		4/8/99 0732	Wen F. Gener	4.8.7% 0752
Relinquished by: (Signature)		Re	ceived by: (Signature)	
Relinquished by: (Signature)		Re	Received by: (Signature)	
				Sample Receipt
				٧ ٧
		5796 U.S. Highway 64	lighway 64	Received Intact
		Farmington, New Mexico 67401	/ Mexico 6/40 i 2-0615	Cool - Ice/Blue Ice

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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

Operator: AMOCO PRODUCTION	COMPANY	Telephone: (505) 326-9200
Address: 200 Amoco Court,	Farmington,	NM 87401
Facility or Well Name: <u>JICABILL</u>	CONTRACT 15	5.33
Location: Unit or Qtr/Qtr Sec_A	Sec <u>29</u> T <u>2</u>	LN RSW County E10 ARRIBA
Land Type: RENGE		
Date Remediation Started:	4/8/99	Date Completed:6/16/99
Remediation Method: Landfarmed	<u> </u>	Approx. cubic yards
Composted		•
Other		
Depth To Groundwater:	(pts.)	Final Closure Sampling:
Distance to an Ephemeral Stream	(pts.)	Sampling Date: 6 15.99 Time: 1115
Distance to Nearest Lake, Playa, or Watering Pond	(pts.)	Sample Results:
Wellhead Protection Area:	(pts.)o	Field Headspace (ppm) 4.5
Distance To SurfaceWater:	(pts.) <u>o</u>	TPH (ppm) $\frac{3.9}{1.9}$ Method $\frac{7PH}{(A0.5)}$
RANKING SCORE (TOTAL POIN	ITS): <u>0</u>	Other
I HEREBY CERTIFY THAT THE INFO	RMATION ABOVE	E IS TRUE AND COMPLETE TO THE BEST OF MY
DATE 6/16/99 SIGNATURE BURLY S. S	\	AND TITLE Environmental Coordinator
AFTER REVIEW OF THE SOIL REME ACCORDANCE TO THE JICARILLA	DIATION INFORM APACHE TRIBE PIT	ATION, ON-SITE REMEDIATION IS APPROVED IN CLOSURE ORDINANCE.
APPROVED: YES NO	(REASON)	
SIGNED:	DATE:	

CLIENT: AMOCO BLAGG ENGINEERING, INC. LOCATION NO BITTIT P.O. BOX 87, BLOOMFIELD, NM 87413 C.O.C. NO: 7082 (505) 632-1199FIELD REPORT: LANDFARM/COMPOST PILE CLOSURE VERIFICATION DATE STARTED: 6.15.99 LOCATION: NAME: J'CARILLA CONTEACT ISS WELL #: 33 PITS: BLOW DATE FINISHED: QUAD/UNIT: A SEC: 29 TWP: 264 RNG: 5W PM: NM CNTY: RA ST: NM ENVIRONMENTAL REP DIR/FOOTAGE: NE/4 NE/4 CONTRACTOR: P+5 SOIL REMEDIATION: REMEDIATION SYSTEM: LANDFARM APPROX. CUBIC YARDAGE: 100: RANGE LAND USE: FIELD NOTES & REMARKS: DEPTH TO GROUNDWATER: > 100 NEAREST WATER SOURCE: > 1000 NEAREST SURFACE WATER: > 1000 NMOCD RANKING SCORE: 0 NMOCD TPH CLOSURE STD: 5000 PPM MODERATE YELLOWISH BROWN SILTY SAND NON COHESIVE, SLIGHTLY MOIST, FIRM NO APPARENT STAINING, NO HC ODOR DETECTED, SAMPLING DEPTHS RANGE FROM 6" 10" COLLECTED A SPT COMPOSITE SAMPLE FOR LAB ANDLYSIS CLOSED FIELD 418.1 CALCULATIONS LAB No: | WEIGHT (g) | mL. FREON | DILUTION | READING | CALC. ppm SAMP. TIME SAMPLE I.D. SKETCH/SAMPLE LOCATIONS LAB SAMPLES OVM RESULTS FIELD HEADSPACE PID (ppm) ANALYSIS RESULTS SAMPLE SAMPLE 3.9 4.5 1115 LF-1 SCALE FT TRAVEL NOTES: ONSITE: CALLOUT: __NA



EPA METHOD 8015 Modified Nonhalogenated Volatile Organics Total Petroleum Hydrocarbons

Climate	Blagg / AMOCO	Proiect #:	403410
Client:		· · · · · · · · · · · · · · · · · · ·	
Sample ID:	LF - 1	Date Reported:	06-16-99
Laboratory Number:	F516	Date Sampled:	06-15-99
Chain of Custody No:	7082	Date Received:	06-16-99
Sample Matrix:	Soil	Date Extracted:	06-16-99
Preservative:	Cool	Date Analyzed:	06-16-99
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	3.9	0.2
Diesel Range (C10 - C28)	ND	0.1
Total Petroleum Hydrocarbons	3.9	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 155 - 33 Landfarm. 5 Pt. Composite.

Averia Gerre

Stacy W Sendler

CHAIN OF CUSTODY RECORD

	7	Cool - ice/Blue ice	0615	Fairilligion, New Nexico 6740 (505) 632-0615				
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Time 721	Date 6-/2-99	6.7 D	Received by: (Signature)	Date Time Recei	6		ure)	Relinquished by: Signature)
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	Remarks	Ren			Client No.			Sampler:
		SWE EDO	ANALYSIS / PAHAME I ENG	MEACT 155-33	JICARILLA CONTRACT	•	000	BLAWS/AMOCO
		ALTERS .		ANDEADH	Project Location LANDFARM			Client / Project Name