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AUG 1 3 1999

DEPUTY OIL & GAS INSPECTOR ENVIRONMENTAL PROTECTION OFFICE P.O. BOX 507

DULCE, NEW MEXICO 87528

BJ 456

SUBMIT 1 COPY TO

NATURAL RESOURCE DEP

PIT REMEDIATION AND CLOSURE REPORT

Company Server State Sta		
Operator: AMOCO PRODUCTION COMPANY	Telephone: (5	05)326-9200
Address: 200 Amoco Court, Farmington, N	м 87401	
Facility or Well Name: TICARILLA B	# 8M	
Location: Unit or Qtr/Qtr Sec Sec 15 T26	N R SW County RIO AR	1218A
Pit Type: Separator Dehydrator Other/	PRODUCTION TANK	
Land Type: RANGE		
(Attach diagram)	Degrees East N	•
Depth To Groundwater: (Vertical distance from contaminants to seasonal high water elevation of groundwater)	50 feet to 99 feet (1)	0 points) 0 points) 0 points)
Distance to an Ephemeral Stream (Downgradient dry wash greater than ten feet in width)		0 points)
Distance to Nearest Lake, Playa, or Watering Pond (Downgradient lakes, playas and livestock or wildlife watering ponds)	Less than 100 feet (1 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 (2 No (20 points) 0 points)
Distance To SurfaceWater: (Horizontal distance to perennial lakes, ponds, rivers, streams, creeks, irrigation canals and ditches)	100 feet to 1000 feet (20 points) 10 points) 0 points)
' '	RANKING SCORE (TOTAL PO	DINTS):

BJ456 PROD. TRNK. PIT

Date Remediation Started:	Date Completed:
Remediation Method: Excavation X	Approx. cubic yards
eck all appropriate Landfarmed	Insitu Bioremediation
-	
(i.e. landfarmed onsite, name and location of offsite facility)	
General Description of Remedial Action: Excavation	
Groundwater Encountered: No X Yes	Depth
Final Pit: Sample location see Attached Do Closure Sampling: (if multiple samples,	ocuments
attach sample results	
and diagram of sample Sample depth/ locations and depths) Sample date/0/10/96	Sample time //ZO
Sample Results	<u> </u>
Sample Results Soil: Benzene (ppm)	Water: Benzene (ppb)
Total BTEX (ppm)	m ((ml)
Field Headspace (ppm)	
TPH (ppm)	
Groundwater Sample: Yes No (If	yes, attach sample results)
I HEREBY CERTIFY THAT THE INFORMATION ABOVE IS KNOWLEGE AND BELIEF	S TRUE AND COMPLETE TO THE BEST OF MY
DATE /0/10/96 PRINTED NAMI	
SIGNATURE Bully D. Show AND TITLE	Environmental Coordinator
AFTER REVIEW OF THE PIT CLOSURE INFORMATION, I TO THE JICARILLA APACHE TRIBE PIT CLOSURE ORDI	PIT CLOSURE IS APPROVED IN ACCORDANCE NANCE.
APPROVED: YES NO (REASON)	
SIGNED: Jakut Jul- DATE:	10/22/96

CLIENT: AMOCO	P.O. BOX 87.	ENGINEERING, BLOOMFIELD, 1 5) 632-1199		C.O.C. NO:	
FIELD REPOI	RT: CLOSU	RE VERIFI	CATION	PAGE No:	
OCATION: NAME: JICARI QUAD/UNIT: C SEC	ILLA B WELL: 15 TWP:Z60 RNG:	#: 8M PIT: P 5W PM: NM CN	ROD.	DATE STARTED: DATE FINISHED: ENVIRONMENTAL SPECIALIST:	
EXCAVATION APPROX! DISPOSAL FACILITY: LAND USE: RANG	02-51TE	T. x <u> </u>	TION METHO	D: <u>Landfar</u> t RMATION: <u>m</u>	ulok_
FIELD NOTES & REMADEPTH TO GROUNDWATER: 2 NMOCD PANKING SCORE: 2 SOIL AND EXCAVATION	NEAREST WATER S	COURCE:	NEAREST SURFACE	CHECK DNE PIT ABANDON STEEL TANK	 : ED
OK. YE APPAN HC	ELL. BLOWN SAND, ENT HC DDOR , STRINING OR OD	EIEL D. 4181 (ZUNITA IIIO IAT		
SCALE 0 FT	TIME SAMPLE I.D	. LAB NO: WEIGHT (7ρμ –1845 5	20	/:1 9	36
PIT PERIM	METER PN SAM	RESULTS IPLE FIELD HEADSPACE PID (ppm)	PIT A)
C A	10 20 30 40 50 50 50 50 50 50 50 50 50 50 50 50 50	4' 0.0 4' 0.0 4' 0.0 9' 0.0		"	8,
S N O O	SAMP ID	LAB SAMPLES LE ANALYSIS TIME			
	-1 BERN				

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:

5 @ 9'

Project Location:

Jicarilla B #8M

TPH-1845 Laboratory Number:

Project #:

Date Analyzed:

10-10-96 10-10-96

%

Date Reported: Sample Matrix:

Soil

Parameter	Result, mg/kg	Detection Limit, mg/kg
Total Recoverable Petroleum Hydrocarbons	36	20

ND = Not Detectable at stated detection limits.

QA/QC:

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

Method:

Modified Method 418.1, Petroleum Hydrocarbons, Total

Recoverable, Chemical Analysis of Water and Waste,

USEPA Storet No.4551, 1978

Comments:

Production Tank Pit - BJ456

Analyst

^{*}Administrative Acceptance limits set at 30%.

BJ 456

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

SUBMIT 1 COPY 10

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,	NM 87401			
Facility or Well Name: JICARILLA B	# 8M			
Location: Unit or Qtr/Qtr Sec C Sec \S T				
Pit Type: Separator X Dehydrator Other				
Land Type: RenoGE				
(Attach diagram)	45', width 35', depth 25',			
Footage from reference:				
	Degrees \longrightarrow East North			
	West South X			
Depth To Groundwater:Less than 50 feet 50 feet to 99 feet 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)				
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 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) (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)			
	RANKING SCORE (TOTAL POINTS):			

ST 456 / SEP. PTT

Date Remediation Started:	Date Con	npleted: / O	/10/96
Remediation Method: Excavation			300
eck all appropriate Landfarmed			
Other			
Remediation Location: Onsite _ (i.e. landfarmed onsite, name and location of offsite facility)	✓ Offsite		
General Description of Remedial A	ction: Excavation		
Groundwater Encountered:	No Yes Depth		
Closure Sampling: (if multiple samples,	see Attached Documents		
attach sample results and diagram of sample Sample depth	21'		
1	1	nple time lol C	<u> </u>
Sample Results			
y Soil: Benze	ene (ppm) V	/ater: Benzene	(ppb)
Total	BTEX (ppm)	Toluene	(ppb)
Field	Headspace (ppm)O.O	Ethylbenzene	(ppb)
ТРН	(ppm) <u>40</u>	Total Xylenes	s (ppb)
Groundwater Sample: Yes	No X (If yes, attach	sample results)	
I HEREBY CERTIFY THAT THE IN KNOWLEGE AND BELIEF	FORMATION ABOVE IS TRUE AN	ND COMPLETE TO	THE BEST OF MY
DATE /0/10/96	PRINTED NAME Buddy	D. Shaw	
SIGNATURE DULLY D. S	V CCCO THE THE	onmental Coor	
AFTER REVIEW OF THE PIT CLO TO THE JICARILLA APACHE TRI	SURE INFORMATION, PIT CLOSU BE PIT CLOSURE ORDINANCE.	RE IS APPROVED	IN ACCORDANCE
APPROVED: YES / NO	(REASON)		
SIGNED: Habreel Julian	DATE:	,	

CLIENT: <u>AMOCO</u>	P.O. BOX 87, 1	ENGINEERING, I BLOOMFIELD, N 5) 632-1199	INC. IM 87413	LOCATION NO: <u>87456</u> C.O.C. NO:
FIELD REPOR	RT: CLOSU	RE VERIFIC	CATION	PAGE No: _/_ of _/_
LOCATION: NAME: JIGAR QUAD/UNIT: C SEC: OTR/FOOTAGE: 10.20 FOLUM	5 TWP: ZKA RNG:	5W PM: NM CNT	SEP Y:RA ST:NM	DATE STARTED: 10/10/96 DATE FINISHED: ENVIRONMENTAL SPECIALIST:
EXCAVATION APPROX4. DISPOSAL FACILITY: LAND USE: (ANG	5 FT. x 35 F	r. x <u>20</u> ft. de <u>remediati</u>	ON METHO	D: LANDFARMED
FIELD NOTES & REMAIDEPTH TO GROUNDWATER: > 15 NMOCD RANKING SCORE: SOIL AND EXCAVATION	NEAREST WATER SU	JURCE: <u>> 10∞′</u> N E STD: PPM	JEAREST SURFAC	FROM WELLHEAD. E WATER: > 1000 CHECK ONE: PIT ABANDONED STEEL TANK INSTALLED
DK. YEE APPRICE HC S		EIELD 4181 CA	ALCULATIONS	MOIST, FIRM, NO PLES, NO APPARENT
SCALE O FT PIT PERIM	1010 Sez!			PROFILE
15 A D C C	SAMP 10 1 6 2 6 3 6 4 6 5 6	LE FIELD HEADSPACE PID (ppm) 15' O.O 15' O.O 15' O.O 15' O.O	20'	33 1 A
A'	SAMPLE			
TRAVEL NOTES: CALLOU	10/9/96 AT	FIER ONSITE: _/	0/10/96 ,	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

Project #:

Sample ID:

5 @ 21'

Date Analyzed:

10-10-96

Project Location:

Jicarilla B # 8M

Date Reported:

10-10-96

Laboratory Number:

TPH-1844

Sample Matrix:

Soil

Parameter	Result, mg/kg	Detection Limit, mg/kg
Total Recoverable Petroleum Hydrocarbons	40	20

ND = Not Detectable at stated detection limits.

QA/QC:

Duplicate
TPH mg/kg

4400

% *Diff. ———

5.31

*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 - BJ456

Reyiew

Analyst

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: TICARIUM B # 8M			
Location: Unit or Qtr/Qtr Sec C Sec 15 T260 R5W County RIO ARRISA			
Land Type: RANGE			
Date Remediation Started:			
pth To Groundwater: (pts.) _ = Final Closure Sampling:			
Distance to an Ephemeral Stream (pts.) Sampling Date: 4/29/98 Time: 1100			
Distance to Nearest Lake, Playa, or Watering Pond (pts.)			
I HEREBY CERTIFY THAT THE INFORMATION ABOVE IS TRUE AND COMPLETE TO THE BEST OF MY			
NOWLEGE AND BELIEF 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 NO (REASON) & Backfill Backfill			
SIGNED: Lew Mond DATE: S-7-98			

CLIENT: AMOCO	P.O. BOX 87, BLC	NEERING, INC. OMFIELD, NM 87413 632-1199	3 C.O.C. NO: 87 456
FIELD REPORT:	LANDFARM/COM	POST PILE CLOSUR	
QUAD/UNIT: C SEC: (S		M PITS: ROD, SEP, PM: NM CNTY: RA ST: NM P + <	
	AMIA CONTRACTOR.		
SOIL REMEDIATION:		ADDDOY CUDIC	VADDACE: 700
		APPROX. CUBIC	TARDAGE.
LAND USE:	KANGE	_ LIFT DEPTH (ft)): '
FIELD NOTES & REMAR	RKS:		
DEPTH TO GROUNDWATER: >	NEAREST WATER SOURCE	>,000 / NEAREST SURF	ACE WATER:
NMOCD RANKING SCORE:	NMOCD TPH CLOSURE ST	D: 5000 PPM	
SOIL MOSTLY	DIL YELL OLANGE TO	BROWN SAND W/ SOME	LAY W 150WTED
HIZEAS (SARP	E PT. (4)) NOW COME	BROWN SAND WI SOME SIVE SWEHTLY MOIST, A PATS. NO APPARENT OFPHH KANGING FRO WYSIS.	STRINING OBSERVED
HC 303K IN	L SURFACE, SAMPLINE	- DEPTH KANGING FRO	m 6"- 2', COLLEUTED
5 pr. com	posite for lab and	~/5/5.	(CLOSED)
		3.1 CALCULATIONS	
SAMP. TIME S	AMPLE I.D. LAB No: WEIGHT	(g) ml. FREOR DILUTION REAL	DING CALC. ppm
SKETCH/SAMPI	LE LOCATIONS 🛉 N	_	
1	35'		
A CONTRACTOR OF THE PARTY OF TH			T. D. GAMBIEG
T	3	OVM RESULTS	LAB SAMPLES PLE ANALYSIS TIME RESULTS
0	. 3	SAMPLE FIELD HEADSPACE SAM ID PID (ppm) IE	TPH
73	T D	2,-1 0.0	1 (80/5) 1100 22,2
2			
	LF-1		
5%	-ample PT.		
5	designation		
<i>y</i>			
wert		SCALE	
HUAD		O FT	

TRAVEL NOTES:

CALLOUT: _

NA

4/29/98

ONSITE: _



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:	D201	Date Sampled:	04-29-98
Chain of Custody No:	5760	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)	11.6	0.2
Diesel Range (C10 - C28)	10.6	0.1
Total Petroleum Hydrocarbons	22.2	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 #8M Landfarm 5 Pt. Composite.

Analyst Queun

Review Jender

CHAIN OF CUSTODY RECORD

					37401	ECH IChway 64-30 Mexico 8 32-0615	ENVIROTECH INC. 5796 U.S. Highway 64-3014 Farmington, New Mexico 87401 (505) 632-0615	762	12651	5756, 5759- 5762	Ref coc's s
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	Det	MIRCY	coul f	(ECEIVED		SAMPLES					
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4/19/98	4,										
18	M. Composite	5			4		2012		1130	4/29/98	1-1J
	PT. Composite				<		7002	1020	1100	46/22/4	ŗ
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	DESERV - COOL				Conta	No	Sample Matrix	Lab Number	Sample Time	Sample Date	Sample No./ Identification
					iners	. of	4-10	01-12010		K	Mehon O
	Remarks							Chain of Custody Tape No.		3	Sampler: (Signature)
		ARAMETERS	ANALYSIS/PARAMETERS				8 #83	JICARILLA		Anuco	
				- 1			CANOFACION	Project Location			Client/Project Name
					:	(((•			