DEPUTY OIL & GAS INSPECTOR

P.O. BOX 507

AND OIL & GAS ADMINISTRATIO

AUG 1 3 1999

DULCE, NEW MEXICO 87528

PIT REMEDIATION AND CLOSURE REPORT

Operator: AMOCO PRODUCTION COMPANY	Telephone : (505)326-9200
Address: 200 Amoco Court, Farmington, NM	87401
Facility or Well Name: TCARILLA B 7	1 8
Location: Unit or Qtr/Qtr Sec 8 Sec 15 TZ6N	R5W County R10 ARRIBA
Pit Type: Separator X Dehydrator Other	
Land Type: Repose	
(Attach diagram) Reference: wellhead X, of Footage from reference: 90'	North 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)
RA	ANKING SCORE (TOTAL POINTS):

8J455 SEP. PIT

-Date Remediation Started:	Date Completed:
Remediation Method: Excavation	Approx. cubic yardsZ_S
eck all appropriate Landfarmed	Insitu Bioremediation
Other	
Remediation Location: Onsite X Offsite	
General Description of Remedial Action: Excavation	
Groundwater Encountered: No X Yes	Depth
Final Pit: Sample location see Attached Closure Sampling: (if multiple samples,	Documents
locations and depths) Sample date /3/13/96	
Sample Results Soil: Benzene (ppm)	Water: Benzene (ppb)
Total BTEX (ppm)	
Field Headspace (ppm)	
ТРН (ррт)	GY Total Xylenes (ppb)
Groundwater Sample: Yes No (If yes, attach sample results)
I HEREBY CERTIFY THAT THE INFORMATION ABOVE KNOWLEGE AND BELIEF	E IS TRUE AND COMPLETE TO THE BEST OF MY
DATE 10/10/96 PRINTED NA	ME Buddy D. Shaw
ROAL	- 1 -1 Georginston
AFTER REVIEW OF THE PIT CLOSURE INFORMATION TO THE JICARILLA APACHE TRIBE PIT CLOSURE OF	N. PIT CLOSURE IS APPROVED IN ACCORDANCE
APPROVED: YES NO (REASON)	
SIGNED: DATE:	10/22/96

CLIENT: AMOCO	BLAC P.O. BOX 8	GG ENGINEE 87, BLOOMF1 (505) 632-	ELD, NM	C. 87413	C.O.C. NO:
FIELD REPOR	T. CLO			TION	PAGE No: _/_ of
LOCATION: NAME: JICARIL	ua B	well #: 8	PIT: SEP		DATE STARTED: 10/10/96
QUAD/UNIT: B SEC:	15 TWP: ZGA	$RNG: 5\omega PM:$	NM CNTY: K	A ST: NW	ENVIRONMENTAL SPECIALIST: NV
EXCAVATION APPROX Z DISPOSAL FACILITY: LAND USE: RADGE	8 FT x Z	.3 FT. x 12	FT. DEEP. EMEDIATION	METHO	D: ZARDFARMED
			MTELV 90	2 FT	N35E FROM WELLHE
PIELD NOTES & REMAP DEPTH TO GROUNDWATER: >15 NMOCD RANKING SCORE:	NMDCD TPH	CLUSURE STD	DO PPM	,	CHECK ONE: PIT ABANDONED
SOIL AND EXCAVATION	IN DESCRIPT	ION:			_STEEL TANK INSTALL
SIDEWALL STRIMING POSSIBLY	CLAY), NO CAREE SR THE ENTIRE OUM SAME	NOSTONE BON EASTERN HIS OLES.	RETWEEN I	OFFICENT	ROUEL INTERMIXED OR GRAY (SOUTH RATION + HC PATT CENTER + HC DOOR IN AN)
CLOSED	TIME SAMI	PLE I.D. LAB No:	WEIGHT (g) m	L. FREON [DILUTION READING CALC. PR
SCALE	0910 30	216' TOH-1843	5	20	1:1 16 64
o FT PIT PERIM	IETER N	OVM RESULT	ls	PIT	
PROD TANK	()	SAMPLE FIELD PIL 1 @ 9' O 2 @ 6' O 3 @ /0' O	HEADSPACE (ppm)	A	Z8' A'
A S	A '	50 14' 0	.0	15	9'
SEP 100	i. AD	LAB SAMP SAMPLE ANALYSIS		DK. YELL. BROWP SAND	sands to ac Bonlder
I L JA	-17	1			

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 @ 16'

Jicarilla B # 8

Laboratory Number:

Project Location:

TPH-1843

Project #:

Date Analyzed:

10-10-96 10-10-96

Date Reported:

Soil

Sample Matrix: Soi

Parameter	Result, mg/kg	Detection Limit, mg/kg
Total Recoverable Petroleum Hydrocarbons	64	20

ND = Not Detectable at stated detection limits.

QA/QC:

 QA/QC Sample
 Duplicate
 %

 TPH mg/kg
 TPH mg/kg
 *Diff.

 ---- ---- ---

 4640
 4400
 5.31

Method:

Modified Method 418.1, Petroleum Hydrocarbons, Total

Recoverable, Chemical Analysis of Water and Waste,

USEPA Storet No.4551, 1978

Comments:

Separator Pit - BJ455

Analyst

Devîew

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

BT 455

SUBMIT 1 COPY TO

NATURAL RESOURCE DEP1 AND OIL & GAS ADMINISTRATION

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

ON-SITE SOIL REMEDIATION REPORT

Operator: AMOCO PRODUCTION	COMPANY	Telephone: (505) 326-9200								
Address: 200 Amoco Court, Farmington, NM 87401										
Facility or Well Name: JICARILLA B #8										
Location: Unit or Qtr/Qtr Sec 8 Sec 15 T 26N R 5W County RIO ARRIPA										
Land Type: RANGE										
	10/10/96	Date Completed: 5/1/98								
Remediation Method: Landfarmed		Approx. cubic yards								
Composted										
Other										
	(Final Closure Sampling:								
pth To Groundwater:	(pts.)									
Distance to an Ephemeral Stream	(pts.)	Sampling Date: $\frac{4/z'9/98}{}$ Time: $\frac{7225}{}$								
Distance to Nearest Lake, Playa, or Watering Pond	(pts.)	Sample Results:								
Wellhead Protection Area:	(pts.)	Field Headspace (ppm) O. O								
Distance To SurfaceWater:	(pts.)	TPH (ppm) <u>/3.6</u> Method <u>8015</u>								
Distance to Surface water	φ=	Other								
RANKING SCORE (TOTAL POIN	TS): <u></u>									
I HEREBY CERTIFY THAT THE INFO KNOWLEGE AND BELIEF	RMATION ABOVE	IS TRUE AND COMPLETE TO THE BEST OF MY								
DATE 5/1/98	DDINTED N	AME Buddy D. Shaw								
$\rho = \rho = \rho$	FRINTEDIN	AND TITLE Environmental Coordinator								
SIGNATURE Duddy D. S	- aw	AND TITLE =								
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	(REASON) LAS	e as Backfull								
signed: Kon Mann	DATE:	: 5-7-98								

CLIENT: AMOCO	BLAGG ENGI	NEERING, INC.	LOCATION NO BT 455
	P.O. BOX 87, BLO	OMFIELD, NM 8741	3 C.O.C. NO: 5761
	(505)	332-1199	C.D.C. IND.
FIELD REPORT:	LANDFARM/COMF	POST PILE CLOSUR	
LOCATION: NAME: TICARIL			DATE STARTED: 4/29/98 DATE FINISHED: 5/1/98
		PM: PM CNTY: RA ST: NO	
OTP/FOOTAGE NW14	NE14 CONTRACTOR:	P+5	SPECIALIST: NU
SOIL REMEDIATION:			775
	TEM: LAND FARMED		YARDAGE: 225
LAND USE:	RANGE	LIFT DEPTH (ft):
FIELD NOTES & REMAR	RKS:		. /
DEPTH TO GROUNDWATER: >/	NEAREST WATER SOURCE	>/000 NEAREST SURF	ACE WATER:
NMOCH RANKING SCORE:	NMOCD TPH CLOSURE STD	. <u>50∞</u> _{PPM}	not sist to small
SOIL MUSTLY	E THALF NON COHES	BROWN SAND W/ 50	I-IRI- NO APPARENT
HC ODOR OF	SSERVED WIN SAMPLE	PTS. NO APPRENT	STRINING OBSTERVED
soic was o	RIGINALLY LANDFROME	D THEN STOCKPILED DOFF WEST TINE	OR LOB ANALYSIS
DRS THEN C			or lab Analysis.
EAUD TIME CA		I CALCULATIONS (g) ml. FREON DILUTION REA	DING CALC. ppm (CLOSED)
SAMP. TIME SA	WEIGHT	(9)	
SKETCH/SAMPL	E LOCATIONS N		
SLOPE WELL	0)=		
AREA V	ज् र िक		
	ALTOMATION	OVM RESULTS	LAB SAMPLES
D)	,	ID PID (ppm)	IPLE ANALYSIS TIME RESULTS D TPH 775 17
	SAMPLE PT. DESIGNATION	<u>LF-1</u> 0.0 LF-	1 (8015) 1225 13.6
135	pesicion no co		
7	44' - 1451		
	HEUD ALCON		
5	DELY EARTHEN	SCALE	
	PIT		
	<u> </u>	0 FT	
TRAVEL NOTES:	NA	ONSITE: 4/28/98	

ONSITE:

CALLOUT:



EPA METHOD 8015 Modified Nonhalogenated Volatile Organics Total Petroleum Hydrocarbons

Client: Sample ID: Laboratory Number: Chain of Custody No: Sample Matrix: Preservative:	Blagg / AMOCO LF - 1 D202 576 i Soil Cool	Project #: Date Reported: Date Sampled: Date Received: Date Extracted: Date Analyzed:	04034-10 05-01-98 04-29-98 04-29-98 04-30-98 05-01-98
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	ND	0.2
Diesel Range (C10 - C28)	13.6	0.1
Total Petroleum Hydrocarbons	13.6	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 #8

Landfarm

5 Pt. Composite.

Alex L. Given

Review Lacy W. Jende

Rf coc's 5756,5759 - 5762	Relinquished by: (Signature)	Relinquished by: (Signature)	Relinquished by: (Signature) Methon US					15-1 4/29/98 1225 D2	Sample No./ Sample Sample Lab N	Methon Vet 01	Sampler: (Signature) Chain of C	SURGE/ Amoco TICA	Client/Project Name Project Location	
٢			Date 4/29					 202	Lab Number	01-45040	Chain of Custody Tape No.	TICARILLE		CHA
ENVIROTECH INC. 5796 U.S. Highway 64-3014 Farmington, New Mexico 87401 (505) 632-0615			1440 BB	SAM				5012	Sample Matrix			8 #8	LAND FARM	IN OF CUST
ICH INC. Way 64-3014 Mexico 87401 2-0615	Received by: (Signature)	Received by: (Signature)	Received by (Signature)	SAMPLE RECEIVED COOL OF INTERCT DAY					RESECT RESECT	io. of stainers	20	ANALTSU/PARAMETERS		CHAIN OF CUSTODY RECORD
			Date Time					· ComposTTE	vcoo∟		Remarks			