JICARILLA APACHE TRIBE DEPUT OLS CAS INSPECTOR PO ROX 507 P.O. BOX 507

001 6 8 1999

DULCE, NEW MEXICO 87528

AND OIL & GAS ADMINISTRATION

Sep-Emk Dram-OK

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 CONTROC	148 - 32
Location: Unit or Otr/Otr Sec D Sec 14 T25A	N R SW County KID ANNIET
Pit Type: Separator Dehydrator Other_ &	ow (I)
Land Type:	
Pit Location: Pit dimensions: length 40	o', width40', depth18'
Footage from reference:	
Direction from reference: 34	Degrees X East North of West South X
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 (10 points)
groundwater) Distance to an Ephemeral Stream (Downgradient dry wash greater than ten feet in width)	Greater than 100 feet (0 points)
Distance to Nearest Lake, Playa, or Watering Pond	Less than 100 feet (10 points) Greater than 100 feet (0 points)
livestock or wildlife watering ponds) Wellhead Protection Area: (Less than 200 feet from a private domestic water source, or: less than	Yes (20 points) No (0 points)
Distance To SurfaceWater: (Horizontal distance to perennial lakes ponds, rivers, streams, creeks,	Less than 100 feet (20 points) 100 feet to 1000 feet (10 points) Greater than 1000 feet (0 points)
irrigation canals and ditches)	RANKING SCORE (TOTAL POINTS):

		BJ 563 Bro	W PII (I)
Date Remediation Sta	rted:	Date Completed: _	6/15/98
"emediation Method:	Excavation	Approx. cubic yards	
eck all appropriate sections)	Landfarmed X	Insitu Bioremediation	
·			
Remediation Location: (i.e. landfarmed ensite, name and location of	Onsite Offsite 💢	JICPRILLA CONTRACT	148-24 (D-14-25-5)
offsite facility) General Description of	of Remedial Action: Excava	tion. BEDROCK BOTTO	m. Risk Assessed.
Groundwater Encount	ered: No <u>X</u> Yes	Depth	
Final Pit: Closure Sampling: (if multiple samples,	Sample location see Attac		
attach sample results	Sample depth	(SOUTH SIDEWALL)	
and diagram of sample locations and depths)	Sample date $\frac{6/9/98}{}$	Sample time	1120
	Sample Results		
•	_	n) <u>3.680</u> Water: Be	nzene (ppb)
	2 4 4 - 1 · · ·		oluene (ppb)
	Field Headspace (ppi		hylbenzene (ppb)
		n) 872 To	tal Xylenes (ppb)
Groundwater Sample			
I HEREBY CERTIFY KNOWLEGE AND E	THAT THE INFORMATION ABELIEF 6/15/98 PRINTS Oly D. Shaw AND	ABOVE IS TRUE AND COM	PLETE TO THE BEST OF MY
DATE	6/15/98 PRINT	ED NAME Buddy D. St	naw
SIGNATURE BUS	Oly D. Shaw AND	TITLE Environment	cal Coordinator
AFTER REVIEW OF TO THE JICARILLA	F THE PIT CLOSURE INFORM A APACHE TRIBE PIT CLOSU	ATION, PIT CLOSURE IS A RE ORDINANCE.	PPROVED IN ACCORDANC
APPROVED: YES,	NO (REASON)		
SIGNED: Las	Man C D	ATE: _ 7-27-98	

FIELD REPORT: CLOSURE VERIFICATION PAGE NO: 1 of 1 OCATION: NAME: JEA. CONTR. 148 WELL #: 32 PIT: \$LOW (T) QUIAD/UNIT.D SEC: 14 TWP: ZSN RNG: SW PM: NM CNTY: RA ST. NM QUIAD/UNIT.D SEC: 14 TWP: ZSN RNG: SW PM: NM CNTY: RA ST. NM QUIAD/UNIT.D SEC: 14 TWP: ZSN RNG: SW PM: NM CNTY: RA ST. NM QUIAD/UNIT.D SEC: 14 TWP: ZSN RNG: SW PM: NM CNTY: RA ST. NM QUIAD/UNIT.D SEC: 14 TWP: ZSN RNG: SW PM: NM CNTY: RA ST. NM QUIAD/UNIT.D SEC: 14 TWP: ZSN RNG: SW PM: NM CNTY: RA ST. NM QUIAD/UNIT.D SEC: 14 TWP: ZSN RNG: SW PM: NM CNTY: RA ST. NM QUIAD/UNIT.D SEC: 14 TWP: ZSN RNG: SW PM: NM CNTY: RA ST. NM QUIAD/UNIT.D SEC: 14 TWP: ZSN RNG: SW PM: NM CNTY: RA	P.O. BOX 87, BLOOMFIELD, NM 87413 (505) 632-1199 FIELD REPORT: CLOSURE VERIFICATION PAGE NO: _L of _L OCATION: NAME. T.CA. CONTR. 148 WELL #: 32 PIT: 860W (T) DIAPOSAL FACILITY: TWP: 25N RNG: 5W PM: NM CNTY.RA ST: NM OTR/FOOTAGE 880 FOLL 1190 FOLL CONTRACTOR: P & S EXCAVATION APPROX. 40 FT. x 40 FT. x 18 FT. DEEP. CUBIC YARDAGE: \$00 DISPOSAL FACILITY: TICA. CONTR. 148-24 REMEDIATION METHOD: _LANDFORM. FORMATION: DX SOUTH THE GROUNDVAILER >100 NEAREST SUFFACE VAITER. >100 NEARES		
DOCATION: NAME: JEA. CONTR. 148 WELL # 3Z PIT: SLOW (1) QUIND/UNIT.D SEC: 14 TWP: ZSN RNG: SW PM: NM CNTY: RAST: NM QUIND/UNIT.D SEC: 14 TWP: ZSN RNG: SW PM: NM CNTY: RAST: NM QUIND/UNIT.D SEC: 14 TWP: ZSN RNG: SW PM: NM CNTY: RAST: NM QUIND/UNIT.D SEC: 14 TWP: ZSN RNG: SW PM: NM CNTY: RAST: NM QUIND/UNIT.D SEC: 14 TWP: ZSN RNG: SW PM: NM CNTY: RAST: NM QUIND/UNIT.D SEC: 14 TWP: ZSN RNG: SW PM: NM CNTY: RAST: NM QUIND/UNIT.D SEC: 14 TWP: ZSN RNG: SW PM: NM CNTY: RAST: NM QUIND/UNIT.D SEC: 14 TWP: ZSN RNG: SW PM: NM QUIND/UNIT.D SEC: 14 TWP: ZSN RNG: SW PM: NM QUIND/UNIT.D SEC: 14 TWP: ZSN RNG: SW PM: NM QUIND/UNIT.D SEC: 14 TWP: ZSN RNG: SW PM: NM QUIND/UNIT.D SEC: 14 TWP: ZSN PM: NM QUIND/UNIT.D SEC: 15 TWP QUIND/UNIT.D SEC: 14 TWP: ZSN PM: NM QUIND/UNIT.D SEC: 15 TWP QUIND/UNIT.D SEC: 14 TWP QUIND/UNIT.D SEC: 15 T	DOLATION: NAME TEA COUTR. 145 WELL # 32 PT. SEOW (1) QUAD/UNIT D SEC. 14 TWP 25N RNG SU PENMI CNTY RS T. NM QUESTION APPROX. 42 FT x 40 FT x 18 FT. DEEP. CUBIC YARDAGE \$0.00 EXCAVATION APPROX. 42 FT x 40 FT x 18 FT. DEEP. CUBIC YARDAGE \$0.00 EXCAVATION APPROX. 42 FT x 40 FT x 18 FT. DEEP. CUBIC YARDAGE \$0.00 EXCAVATION APPROX. 42 FT x 40 FT x 18 FT. DEEP. CUBIC YARDAGE \$0.00 EXCAVATION APPROX. 42 FT x 40 FT x 18 FT. DEEP. CUBIC YARDAGE \$0.00 EXCAVATION APPROX. 42 FT x 40 FT x 18 FT. DEEP. CUBIC YARDAGE \$0.00 EXCAVATION APPROX. 42 FT x 40 FT x 18 FT. DEEP. CUBIC YARDAGE \$0.00 EXCAVATION APPROX. 42 FT x 40 FT x 18 FT. DEEP. CUBIC YARDAGE \$0.00 EXCAVATION APPROX. 42 FT x 40 FT x 18 FT. DEEP. CUBIC YARDAGE \$0.00 EXCAVATION APPROX. 42 FT x 40 FT x 18 FT. DEEP. CUBIC YARDAGE \$0.00 EXCAVATION APPROX. 42 FT x 1	P.O. BOX 87, BLOOMFIELD, N (505) 632-1199	IM 87413 c.d.c. No. 60/5
DISPOSAL FACILITY: TICA CONTR. 148 - FT. x 18 FT. DEEP. CUBIC YARDAGE: 800 DISPOSAL FACILITY: TICA CONTR. 148 - 24 REMEDIATION METHOD: LANDFRAM. LAND USE: RANGE LEASE: TIC 148 FORMATION: DIX LAND USE: RANGE LEASE: TIC 148 FORMATION: DIX LEAND USE: RANGE LEASE: TIC 148 FORMATION: DIX DEPTH TO GROUNDWATER: 7/00' NEAREST VATER SOURCE: 7/00' NEAREST SURFACE VATER: 7/00' DEPTH TO GROUNDWATER: 7/00' NEAREST VATER SOURCE: 7/00' NEAREST SURFACE VATER: 7/00' MNOCD RANKING SCORE: O NMOCD TPH CLOSURE STD SOOD PPM SOULD AND EXCAVATION DESCRIPTION: SIDEWALL - MAYING COLOR FROM LEAV PALE SALEST TO VATY DR. RED SILT TAD TO SILTY CATY NON TO SUMMIN CONFESTED SUPPRINT TO SUMMIN STALLED TO SILTY CATY NON TO SUMMIN CONFESTED SUPPRINT TO SUMMIN FROM THE TOP SALEST SUPPRINT TO SUMMIN FROM THE SUMMIN FROM THE SUMMIN STALLED TO SILTY CATY NON TO SUMMIN CONFESTED SUPPRINT TO SUMMIN FROM THE SUMMIN FROM THE SUMMIN FROM THE SUMMIN SALES TO NOT THE SUMMIN FROM THE SUMMIN FROM THE SUMMIN FROM THE SUMMIN SALES TO NOT THE SUMMIN SALES TO NOT THE SUMMIN SALES TO NOT THE SUMMIN SALES TO SUM SALES TO SUMIN SALES TO SUM SALES TO	DIRPEDIAGE 380 FACT 118 FOR CONTRACIDE TO DEEP CUBIC YARDAGE 800 EXCAVATION APPROX. 40 FT x 40 FT x 18 FT. DEEP CUBIC YARDAGE 800 DISPOSAL FACILITY. THA CONTR. 178-24 REMEDIATION METHOD. LANDFROM. ISON DISPOSAL FACILITY. THA CONTR. 178-24 REMEDIATION METHOD. LANDFROM. ISON DISPOSAL FACILITY. THA CONTR. 178-24 REMEDIATION METHOD. LANDFROM. ISON DISPOSAL FACILITY. THA CONTR. 178-24 REMEDIATION. IELD NOTES & REMARKS. PIT LOCATED APPROXIMATELY 132 FT. S146 FROM VELLHEAD IELD NOTES & REMARKS. PIT LOCATED APPROXIMATELY 132 FT. S146 FROM VELLHEAD IELD NOTES & REMARKS. PIT LOCATED APPROXIMATELY 132 FT. S146 FROM VELLHEAD INCOMPRESS VALUE STORM SOURCE. 2000 NARREST SURFACE VATER. 2000 INABID RAINKING SCORE: 0 NARREST VALUE SURFACE VATER. 2000 INABID RAINKING SCORE: 0 NARREST VALUE SURFACE VATER. 2000 INABID RAINKING SCORE: 0 NARREST VALUE SURFACE VALUE SU	OCATION: NAME: JEA. CONTR. 148 WELL #: 32 PIT: BLO CATION: NAME: JEA. CONTR. 148 WELL #: 32 PM: NM CNTY	DATE STARTED:
BOTTON - BODROCK (SIDELE) VERY POLE ORMGE OUTRY NED IN COLOR, VERY HORD, NO APPOINENT HE GOOK IN OWN SAMPLE. REMORE BOTTON TIME SAMPLE I.D. LAB NO: WEIGHT (g) ML. FREON DILUTION READING CALC. ppm SCALE OFT PIT PERIMETER IN A	SOTON - REDRICK SURLE) LERY PILE ORDER ON SAMPLE. SCHOOL STATE SAMPLE I.D. LAB NO: WEIGHT (g) ML FREON DILUTION READING CALC. ppm SCALE OFT PIT PERIMETER OVM RESULTS SAMPLE III. LAB NO: WEIGHT (g) ML FREON DILUTION READING CALC. ppm RESULTS SAMPLE III. OVM RESULTS RESULTS SAMPLE III. OVM RESULTS SAMPLE III. OVM RESULTS	QTR/FOOTAGE: 880 FNC 1190 FDC CONTRACTOR: 133 EXCAVATION APPROX. 40 FT. x 18 FT. DE DISPOSAL FACILITY: JICA CONTR. 148-24 REMEDIAT LAND USE: PANGE LEASE: JIC 148 TIELD NOTES & REMARKS: PIT LOCATED APPROXIMATELY DEPTH TO GROUNDWATER: >100' NEAREST WATER SOURCE: >1000' NMOCD RANKING SCORE: O NMOCD TPH CLOSURE STD: 5000 PPM SOIL AND EXCAVATION DESCRIPTION: 510EWALL - WAYING COLOR FLOM LERY 1916 SALE TO SILTY CLOY NON TO SUSMICE: OF	TON METHOD: LANDFARM FORMATION: DK 132 FT. S34E FROM WELLHEAD NEAREST SURFACE WATER: >1000' CHECK ONE: PIT ABANDONED STEEL TANK INSTALLED FIBERGLASS TANK INSTALLED FIBERGLASS TANK INSTALLED HESIVE SUCHITY INSIST FIRM TO
	SAMPLE SAMPLES SAMPLE DE PID (ppm) 1 C 12' O.O 2 e 12' O.O 3 e 12' I.682 4 e 13' O.O 5 e 18' O.O REDROCK LAB SAMPLES SAMPLE NALLYSIS TIME 10 SAMPLES SAMPLE	BOSTON - REDISSEX (SIRET) VERY POLE ORANGE ON SAME ROSTON APPORENT HE GOOK IN OUR SAME ROSTON TIME SAMPLE I.D. LAB NO: WEIGHT (SCALE OFT PIT PERIMETER NO OVM	CALCULATIONS g) ml. FREON DILUTION READING CALC. ppm PIT PROFILE A

Well Name:

Well Site location:

Pit Type:

Producing Formation:

Pit Category:

Horizontal Distance to Surface Water:

Vicinity Groundwater Depth:

Jicarilla Contract 148 #32

Unit D, Sec. 14, T25N, R5W

Blow Pit (I)

Basin Dakota

Non Vulnerable

> 1000 ft.

> 100 ft.

RISK ASSESSMENT (non-vulnerable area)

Pit remediation activities were terminated when trackhoe encountered shale bedrock at 18 feet below grade.

No past or future threat to surface water or groundwater is likely based on the following considerations:

- Past production fluids were contained locally by a relatively shallow shale bedrock located 18 feet below grade. Groundwater levels located on or close to the well pad are estimated to be at a much greater depth below shale bedrock.
- Topographic information does not indicate off site lateral fluid migration near the earthen pit.
- 3. Daily discharge into the earthen pit has been terminated (pit abandoned). Prior discharge into the pit is believed to be under 5 barrels per day.
- Well site located within the <u>non-vulnerable area</u> and is approximately 1.16 miles east southeast of the nearest vulnerable area boundary (Gonzales Canyon wash).

(Refer to <u>Lapis Point Quadrangle</u>, <u>New Mexico</u> - <u>Rio Arriba County</u>, 7.5 <u>Minute Series</u> (<u>Topographic</u>), 1963, (<u>vulnerable area boundary developed by Mr. William C. Olson</u>, <u>Hydrogeologist</u>, <u>Environmental Bureau</u>, <u>New Mexico Oil Conservation Division</u>).

Based upon the information given, we conclude that the subsurface lateral impact from the earthen pit is very limited and that the shale bottom creates enough of an impermeable barrier as to subdue impact to groundwater below it (please refer to AMOCO's report "Post Excavation Pit Closure Investigation Summary, July, 1995", with cover letter dated November 30, 1995). AMOCO requests pit closure approval on this location.



EPA METHOD 8015 Modified Nonhalogenated Volatile Organics Total Petroleum Hydrocarbons

Gasoline Range (C5 -	C10)	206	0.2 0.1
Parameter		Concentration (mg/Kg)	Det. Limit (mg/Kg)
Client: Sample ID: Laboratory Number: Chain of Custody No: Sample Matrix: Preservative: Condition:	Blagg / AMOCO 3 @ 12' D372 6018 Soil Cool Cool and Intact	Project #: Date Reported: Date Sampled: Date Received: Date Extracted: Date Analyzed: Analysis Requested:	04034-10 06-10-98 06-09-98 06-09-98 06-09-98 8015 TPH

ND - Parameter not detected at the stated detection limit.

Total Petroleum Hydrocarbons

References:

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

872

SW-846, USEPA, December 1996.

Comments:

Jicarilla Contract 148-32 Blow Pit (I).

Analyst

May W. JendeReview

0.2



EPA METHOD 8021 AROMATIC VOLATILE ORGANICS

Client: Sample ID: Laboratory Number: Chain of Custody: Sample Matrix: Preservative: Condition:	Blagg / AMOCO 3 @ 12' D372 6018 Soil Cool Cool & Intact	Project #: Date Reported: Date Sampled: Date Received: Date Analyzed: Date Extracted: Analysis Requested:	04034-10 06-11-98 06-09-98 06-09-98 06-10-98 06-09-98 BTEX
---	---	---	--

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene Toluene Ethylbenzene p,m-Xylene o-Xylene	3,680 10,400 3,570 20,590 13,360	17.5 16.7 15.2 21.6 10.4
Total BTEX	51,600	

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-82

USEPA, December 1996.

Comments: Jicarilla Contract 148-32 Blow Pit (I).

Analyst

Réview Jende

CHAIN OF CUSTODY RECORD

	Cool - Ice/Blue Ice	Mexico 8/401 2-0615	Farmington, New Mexico 8/401 (505) 632-0615				
	Received Intact	ghway 64	5796 U.S. Highway 64				
z	-<						
	Sample Receipt	CHIOC					
		Received by: (Signature)	Reco			ature)	Relinquished by: (Signature)
-		Heceived by: (Signature)	Неск		•	ature)	Relinquished by: (Signature)
7,40,	7.7.0	Seen t Gener	6/9/98 1431 1			Vich	I won V
Time	Date	Received by: (Signature)	Date, Time Rece		3	iture)	Relinquished by: (Signa
100	MESELV - COOL	/ / /	5016	1372	11100	6/9/98	3 @12'
		(80 (80	Sample Matrix	Lab Number	Sample Time	Sample Date	Sample No./
		o. of staine PH	79	07-15-040			YTS
	Remarks) 		Client No.			Sampler:
			TICARILLA CONTENCT 148-32	TICARIUA C		$\delta $	BURGE/ Amoco
	IETERS	ANALYSIS / PARAMETERS	SOW PIT (I)	Project Location			Client / Project Name

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

BTS63 SUBMIT 1 COPY TO NATURAL RESOURCE DEPT AND OIL & GAS ADMINISTRATION

PIT REMEDIATION AND CLOSURE REPORT

AND PRODUCTION COMPANY	Telephone: (505)326-9200
Operator: AMOCO PRODUCTION COMPANY	
Address: 200 Amoco Court, Farmington,	NM 0/401
Facility or Well Name:	TRACT 148 - 32
Location: Unit or Otr/Otr Sec D Sec 14 T2	ZSN RSW County KIO ALLIBA
Pit Type: Separator Dehydrator Other	Blow (I)
1 · · · · · · · · · · · · · · · · · · ·	
Pit Location: Pit dimensions: length	20', width, depth,
Footage from reference: 12	<u>3'</u>
Direction from reference:	3 Degrees East North
1	West South 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)
	RANKING SCORE (TOTAL POINTS):

	87563 BLOW PIT (II)
Date Remediation Star	Date Completed:6/9/98
	Excavation Approx. cubic yards75
Remediation Method: Check all appropriate	Poster
sections)	Landfarmed X Insitu Bioremediation
	Other
Remediation Location: (i.e. landfarmed onsite, name and location of offsite facility)	(D-14-25-5)
General Description o	f Remedial Action: Excavation
Groundwater Encount	ered: No X Yes Depth
Final Pit: Closure Sampling: (if multiple samples,	Sample location see Attached Documents
attach sample results	Sample depth9' (Prr Borrom)
and diagram of sample locations and depths)	Sample date $\frac{6/9/98}{}$ Sample time $\frac{1210}{}$
1	Sample Results Water: Benzene (ppb)
	Soil: Benzene (ppm)
3	Total BTEX (ppm) Toluene (ppb)
	Field Headspace (ppm) _O.O Ethylbenzene (ppb)
	TPH (ppm) ND Total Xylenes (ppb)
Groundwater Sample	: Yes No X (If yes, attach sample results)
I HEREBY CERTIFY KNOWLEGE AND B	
	6/9/98 PRINTED NAME Buddy D. Shaw
DATE SIGNATURE BUS	AND TITLE
	THE PIT CLOSURE INFORMATION, PIT CLOSURE IS APPROVED IN ACCORDANCE APACHE TRIBE PIT CLOSURE ORDINANCE.
APPROVED: YES _	NO (REASON)
SIGNED:	OMa DATE: 6-15-98

CLIENT: AMOCO	B P.O. BO	X 87 BL	GINEERING OOMFIELD, 632-119	NM B	7413		ON NO: 1	 81263
FIELD REPOR	RT: C	LOSURI	E VERIF	TICATI	ON			_ of <u>_ /</u>
OOATION, NUME TICO	POSTR 14	8 WELL #:	3 Z PIT:	BLOW (I		DATE STA	RTED: <u>6</u> ISHED:	/9/98
QUAD/UNIT: D SEC: /5	TWP: 25	ر RNG: ع CONTRAC	TOR: P45	N11.14.		ENVIRONM SPECIALIS	IENTAL	~V
OTR/FOOTAGE: NWLY EXCAVATION APPROX		LO FT	g FT.	DEEP.	CUBIC	YARDA	AGE:	75
PAGNOCAL EACHITY:	JICA. CO	ONTR. 148-	<u>ZY</u> REMED	IATION	MEIHO	17		
LAND HEEL RANG	FE	LEASE: .		<u></u>				
				v 127	FT	513E	FROM >/9	WELLHEA
DEPTH TO GROUNDWATER: >1	NEARE	ST WATER SHUR	LE:			CHEC	K ONE	
NMOCD RANKING SCORE:	NMOCD	TPH CLOSURE S	STD: <u>3000</u> P	Y M		STEEL	TANK INS	TALLED
SOIL MUSTE					L=			K INSTALL
MOIST, FIR		1		< 1 m	10010	e L	C DI	00/K
HE DADR DETECTED IN	TIME	SAMPLE I.D.	FIELD 418	3.1 CALCULA	ATIONS FREON I			
DETECTED IN)	SAMPLE I.D.	m sample:	3.1 CALCULA	ATIONS	DILUTION	READING	CALC. ppr
DETECTED IN	TIME	SAMPLE I.D.	FIELD 418	3.1 CALCULA	ATIONS FREON I	DILUTION /: (READING 4	CALC. ppr
SCALE O FT	TIME	SAMPLE I.D. Se 9' 7 SAMPLE I.D. SAMPLE I.D. 10 1 e 4 2 e 4 3 e 4 5 e 9'	FIELD 418 LAB NO: WEIGH PH-1989 5 OVM RESULTS FIELD HEADSPACE PHO (PPM) 7 0.0 7 0.0 7 0.0 7 0.0 8 SAMPLES	3.1 CALCULA HT (g) mL.	ATIONS FREON I	DILUTION /: (READING	CALC. ppn
SCALE O FT PIT PERIN	TIME 1710 METER SLOW 11 12 12 12 12 12 13 14 15 15 16 16 17 17 18 18 18 18 18 18 18 18	SAMPLE 1.D. Se 9' T SAMPLE 1D 1 e 4 2 e 4 3 e 4 4 e 4 5 e 9'	FIELD 418 LAB NO: WEIGH PH-1989 5 OVM RESULTS FIELD HEADSPACE PHO (ppm) 7 0.0 7 0.0 7 0.0 7 0.0 AB SAMPLES	8.1 CALCULATT (9) mL.	PIT	PRO	READING 4 DFILE	CALC. ppr

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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:

4 @ 10'

Date Analyzed:

06-09-98

Project Location:

Jicarilla Contract 148 - 32

Date Reported:

06-09-98

Laboratory Number: TPH-

TPH-1989

Sample Matrix: Soil

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

ND = Not Detectable at stated detection limits.

QA/QC:

QA/QC Sample TPH mg/kg	Duplicate TPH mg/kg	% *Diff.
1684	1712	1.65

^{*}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:

Blow Pit (II) - BJ563

Melon Vif

Review

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

Field TPH-Worksheet

Max Characters: Project #: **AMOCO** Client:

06 - 09 - 98Date Analyzed: 4 @ 10' Sample ID: Date Reported: 06 - 09 - 98Jicarilla Contract 148 - 32

Project Location: Sample Matrix: Soil TPH-1989

Laboratory Number:

5.00 grams Sample Weight: 20.00 mL Volume Freon:

1 (unitless) Dilution Factor: 4 mg/kg TPH Reading:

16.0 mg/kg TPH Result: Reported TPH Result: 16 mg/kg 20.0 mg/kg Actual Detection Limit: 20 mg/kg Reported Detection Limit:

% Duplicate Original QA/QC: Diff. TPH mg/kg TPH mg/kg __ _ 1.65 1712 1684

Commerits:

Blow Pit (II) - BJ563 Comments:

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

BJ563

PIT REMEDIATION AND CLOSURE REPORT

	2000			
Operator: AMOCO PRODUCTION COMPANY	Telephone: (505) 326-9200	-		
Address: 200 Amoco Court, Farmington, N	м 87401	-		
Facility or Well Name: JICARILLA CONTRACT	148- 32	-		
Sec. 14 T 25 R Sw County K/O $H/(R/BH)$				
Pit Type: Scparator \(\times \) Dehydrator Other \(\frac{\mathcal{PRODUCTION}{RNK}}{\times} \)				
Land Type:				
Land Type.	z', widthz&', depth/5'			
Pit Location: Pit dimensions: length 3	other			
Reference: wellhead x , Footage from reference: 96	other			
Footage from reference: 55	B Degrees X East North X			
Difection from reference.	West South			
Depth To Groundwater: (Vertical distance from contaminants to seasonal	Less than 50 feet (20 points) 50 feet to 99 feet (10 points) Greater than 100 feet (0 points)			
high water elevation of groundwater) Distance to an Ephemeral Stream (Downgradient dry wash greater than	Less than 100 feet (10 points) Greater than 100 feet (0 points)			
ten feet in width) 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) On (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):			

	87563 SEP/PROD. TANK PIT
	6/9/98
Date Remediation Sta	1: aprela 250
emediation Method:	Excavation X Approx. cubic yards Z50
eck all appropriate cetions)	Landfarmed Insitu Bioremediation
e e	Other
Remediation Location	Other Offsite X JICARINA CONTRACT 148-24
i.e. landfarmed onsite, name and location of	$\frac{D-14-25-5}{D-14-25-5}$
offsite facility)	- Lion REPROCK ROTTOM.
General Description	of Remedial Action: Excavation. BEOROCK BOTTOM.
Groundwater Encoun	itered: No X Yes Depth
Final Pit:	Sample locationsee Attached Documents
Closure Sampling: (if multiple samples,	
attach sample results	Sample depth
and diagram of sample locations and depths)	Sample depth Sample time /0 45
	Sample Results
	Soil: Benzene (ppm) Water: Benzene (ppb)
	Total BTEX (ppm) Toluene (ppb)
	Field Headspace (ppm) Ethylbenzene (ppb)
	TPH (ppm) Total Xylenes (ppb)
Groundwater Samp	le: Yes No (If yes, attach sample results)
	$oldsymbol{ iny}$ That the information above is true and complete to the best of m
I HEREBY CERTIF KNOWLEGE AND	Y THAT THE INFORMATION ABOVE IS THE BELIEF
Į.	. /
DATE	Qly D. Shaw AND TITLE Environmental Coordinator
SIGNATURE SU	AND TITLE SURE IS APPROVED IN ACCORDANG
TO THE JICARILI	OF THE PIT CLOSURE INFORMATION, PIT CLOSURE IS APPROVED IN ACCORDANCE. A APACHE TRIBE PIT CLOSURE ORDINANCE.
APPROVED: YES	NO (REASON)
"	
SIGNED:	Ma DATE:

	3003923655			
CLIENT: AMOCO P.O.	BLAGG ENGINEERING, INC. BOX 87, BLOOMFIELD, NM 87413 (505) 632-1199 LOCATION NO: 87563 C.D.C. NO:			
	CLOSURE VERIFICATION PAGE NO: _/ of _/ 148 WELL #: 32 PIT: SEP/PROD. DATE STARTED: 6/9/98 DATE FINISHED: ENVIRONMENTAL NV PAGE NO: _/ of _/ DATE STARTED: 6/9/98 DATE FINISHED: ENVIRONMENTAL SPECIALIST:			
QTR/FOOTAGE: NWIY NWIY	CONTRACTOR: PFS SPECIALIST: NV T. x _ 26 FT. x _ 15 FT. DEEP. CUBIC YARDAGE: Z50 CONTR. 148-1 REMEDIATION METHOD: LANDFARM TIC 148 FORMATION: DK			
LAND USE: RANGE	LEASE: QC NS8E FROM WELLHEAD.			
DEPTH TO GROUNDWATER: 700 N	SCRIPTION: CHECK UNE: PIT ABANDONED STEEL TANK INSTALLED FIBERGLASS TANK INSTALLED			
SIDEWALLS - MOSTLY DR. YELL BROWN SILTY SAND TO SILTY CLAY (SOUTH SIDEWALL), NON COHESIVE TO SWEHTLY COHESIVE SLIGHTLY MOIST, FIRM TO STIFF, NO APPARENT STAINING OR HE ODOR OBSERVED WIN EXCAVATION NO APPARENT HE DOOR IN ANY OF THE DUM SAMPLES.				
BOTTOM - BEDROCK (SHALE) VERY PARE DRANGE DUSKY LED IN COLOR, VERY HARD, NO APPARENT HE ODOR IN OUM JAMPLE.				
SCALE 10	FIELD 418.1 CALCULATIONS ME SAMPLE I.D. LAB NO: WEIGHT (g) ML. FREON DILUTION READING CALC. ppm 45 (1) 210' TPH-1988 5 20 1:1 4 ND			
O FT PIT PERIMETE	OVM RESULTS FIELD HEADSPACE			
26' A P S D A	1 & 10' 0.0 2 @ 10' 0.0 3 e 9' 0.0 4 e 10' 0.0 5 e 15' 0.0			
3	LAB SAMPLES SAMPLE ANALYSIS TIME			
TRAVEL NOTES: CALLOUT: _6	6/9/98 -marn. ONSITE: 6/9/98 - MORN.			

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:

4 @ 10'

Date Analyzed:

06 - 09 - 98

Project Location:

Jicarilla Contract 148 - 32

Date Reported:

06-09-98

Laboratory Number:

TPH-1988

Sample Matrix:

Soil

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

ND = Not Detectable at stated detection limits.

QA/QC:

 QA/QC Sample
 Duplicate
 %

 TPH mg/kg
 TPH mg/kg
 *Diff.

 ---- ---- 1684
 1712
 1.65

Method:

Modified Method 418.1, Petroleum Hydrocarbons, Total

Recoverable, Chemical Analysis of Water and Waste,

USEPA Storet No.4551, 1978

Comments:

Separator Pit - BJ563

Analyst

Review

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

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

Field TPH-Worksheet

Client: AMOCO Project #:

Sample ID: Date Analyzed: 06-09-98
Project Location: Jicarilla Contract 148 - 32 Date Reported: 06-09-98

Laboratory Number: TPH-1988 Sample Matrix: Soil

Sample Weight: 5.00 grams Volume Freon: 20.00 mL

Dilution Factor: 1 (unitless)
TPH Reading: 4 mg/kg

TPH Result:

Reported TPH Result:

Actual Detection Limit:

Reported Detection Limit:

16.0 mg/kg

16 mg/kg

20.0 mg/kg

QA/QC: Original Duplicate %
TPH mg/kg TPH mg/kg Diff.
----- ---- ---1684 1712 1.65

Comments: Separator Pit - BJ563