JICARILLA APACHE TRIBE DEPUTY OIL & GAS INSPECTOR DULCE, NEW MEXICO 87528

DULCE, NEW MEXICO 87528

NATURAL RESOURCE DEPT

AND OIL & GAS ADMINISTRATION

AUG 2 4 1999

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PIT REMEDIATION AND CLOSURE REPORT

PIT REMEDIATION A	AND CLOSURE REPORT
1 1/2/ovel	
Operator: CONOCO INC	
Address: 3315 Bloomfield Hwy., Farming	
Facility or Well Name: AXI APACHE	K # 5 f)
	rzen RSW County R10 ARRIBA
Pit Type: Separator_X Dehydrator Other_	
Dana Typo-	
Pit Location: Pit dimensions: length_	(5 ¹ _, width_ 20 ¹ _, depth_ 6 ¹
	_, other
Footage from reference:	165'
Direction from reference:	65 Degrees X East North X of West South
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 Pon (Downgradient lakes, playas and livestock or wildlife watering ponds)	G. G
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)
ŗ,	RANKING SCORE (TOTAL POINTS):

CASSE SEP. PIT Date Completed: 7 10 98 Date Remediation Started: Approx. cubic yards _____50 Excavation X Remediation Method: eck all appropriate Insitu Bioremediation _____ Landfarmed \nearrow sections) Other _____ Onsite ____ Offsite _____ Remediation Location: (i.e. landfarmed onsite, name and location of offsite facility) General Description of Remedial Action: Excavation, REDROCK ROTTOM, RISK ASSESSED -Groundwater Encountered: No X Yes ____ Depth _____ Sample location see Attached Documents Final Pit: Closure Sampling: (if multiple samples, Sample depth 3 (WEST SIDEWRUL) attach sample results and diagram of sample locations and depths) Sample Results (ppb) _____ (ppm) ____ Water: Benzene Soil: Benzene (ppb) _____ Toluene (ppm) _____ Total BTEX Field Headspace (ppm) 89.3 (ppb) _____ Ethylbenzene (ppm) <u>24</u>(Total Xylenes (ppb) _____ TPH Groundwater Sample: Yes _____ No __ (If yes, attach sample results) I HEREBY CERTIFY THAT THE INFORMATION ABOVE IS TRUE AND COMPLETE TO THE BEST OF MY KNOWLEGE AND BELIEF 7/10/98 PRINTED NAME Jeffrey C. Blagg, P.E.# 11607 DATE SIGNATURE Jeffy C. Slogg AND TITLE President AFTER REVIEW OF THE PIT CLOSURE INFORMATION, PIT CLOSURE IS APPROVED IN ACCORDANCE TO THE JICARILLA APACHE TRIBE PIT CLOSURE ORDINANCE. APPROVED: YES X NO ___ (REASON) R.A. Attached CMa DATE: 9-9-98

. CONOCO				
CLIENT: AMOCO	PO BOX 87. BI	IGINEERING, LOOMFIELD,) 632-1199	NM 87413	C.G.C. NO: 6092
FIELD REPOR	RT: CLOSUR	E VERIF	ICATION	PAGE No:L ofL
LOCATION: NAME: RXI +	PACHE K WELL #:	SA PIT:	SEP	DATE STARTED: 718198 DATE FINISHED:
QUAD/UNIT: P SEC: 10 QTR/FOOTAGE: SE14	TWP: 76N RNG: 5LX	OTOR: JUC	TY: KP7 ST: IVAC	ENVIRONMENTAL SPECIALIST: NV
EXCAVATION APPROX	5 FT. x <u>zo</u> FT.	x6 FT.	DEEP. CUBIC	YARDAGE:
DISPOSAL FACILITY:	ON- TITE	REMEDIA CONTRACT *	TION METHO	RMATION: PC
TITLD NOTES & PEMA	RKS. PIT LOCATED A	APPROXIMATELY	165 FT	NGSE FROM WELLHEAD.
DEPTH TO GROUNDWATER: >1	NEAREST WATER SOU	RCE:	NEAREST SURFAL	CHECK ONE:
NMOCD RANKING SCORE: O	NMOCD TPH CLOSURE ON DESCRIPTION:	SID 3000 PPI	<u>-</u>	✓ PIT ABANDONED STEEL TANK INSTALLED
	Ly MOD. 70 DK.	YEU. BROWN		FIBERGLASS TANK INSTALLED
	- ALL DENT	MEN CONY NO	" - ~ 20 FE 12/2	TO PLASTIC
,	~~ 7 •			WEST TIDEWALL ZENT IN WEST SIDEWAU
BOTTOM - BEDA	ock (sandstone), r r win excavation	WED TO DK .	GRAY UERY	HARD, STRUNG HC
		en de doin	summer.	
BEDROCK RISK BOTTOM	Assessed	FIELD 418.1	CALCULATIONS	DILUTION READING CALC. ppm
SCALE	TIME SAMPLE I.D.	LAB NO: WEIGHT	(g) III. TRESIT	
O FT				
PIT PERIM	ETER PN		PIT	PROFILE
	<u>├</u> ———	OVM RESULTS	A	15', A'
15′	SAMPLE ID 1 E H	7 0.0		
0	2 € 4° 3 € 3° 4 € 3°	0.0 ' 89.3		SEDROCK
TO S A HEAD E 3	5 A 1 20 5 E 6	307		COROCK
WELL E P A				
	L	AB SAMPLES		
	SAMPLE OF 3			
	P	(80 <u>%</u>)		
TRAVEL NOTES.	1-1		718.498	
TRAVEL NOTES: CALLO	T: <u>718198</u>	ONSITE: _	1101178	

Well Name:

Well Site location:

Pit Type:

Producing Formation:

Pit Category:

Horizonal Distance to Surface Water:

Vicinity Groundwater Depth:

Axi Apache K # 5A

Unit P, Sec. 10, T26N, R4W

Separator pit

Non Vulnerable

> 1000 ft.

> 100 ft.

RISK ASSESSMENT (Non Vulnerable Area)

Pit remediation activities were terminated when trackhoe encountered sandstone bedrock at 6 feet below grade.

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

- 1. Past production fluids were contained locally by a relatively shallow sandstone bedrock located 6 feet below grade. Groundwater levels located on or close to the well pad are estimated to be at a much greater depth below sandstone bedrock.
- 2. 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.
- 4. Well site located within the <u>non-vulnerable area</u> and is approximately 1.7 miles northeast of the nearest vulnerable area boundary (Tapacito Creek).

(Refer to <u>Lapis Point Quadrangle</u>, <u>New Mexico - Rio Arriba County</u>, 7.5 <u>Minute Series</u> (<u>Topographic</u>), 1963, (vulnerable area boundary developed by Mr. William C. Olson, <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 sandstone 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). CONOCO requests pit closure approval on this location.



EPA METHOD 8015 Modified Nonhalogenated Volatile Organics Total Petroleum Hydrocarbons

Client: Sample ID: Laboratory Number: Chain of Custody No: Sample Matrix: Preservative: Condition:	Blagg / CONOCO 4 @ 3' D596 6092 Soil Cool Cool and Intact	Project #: Date Reported: Date Sampled: Date Received: Date Extracted: Date Analyzed: Analysis Requested:	04034-10 07-09-98 07-08-98 07-09-98 07-09-98 07-09-98 8015 TPH
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Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	10.6	0.2
Diesel Range (C10 - C28)	230	0.1
Total Petroleum Hydrocarbons	241	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:

AXI Apache K #5A Separator Pit.

Stacy W Sendler

CHAIN OF CUSTODY RECORD

PARAT	ANALYSIS / PARAMETERS	AMETERS
Clier	rs	•; Remarks
NIN	o. of tainer	
Sample Sample Lab Number		
Identification Date Time		0
(4) @ 3 1/8/98 1230 D596 45012	\ \	(RESER), - COOL
		-
Relinquished by: (Signature) Date Time Re	Received by: (Signature)	Date Time ク.タ. 96 02 エゾ
	Received by: (Signature)	
Relinquished by: (Signature)	Received by: (Signature)	
EOVIDOTECH IO		Sample Receipt
		Y NA
5796 U.S. Highway 64	ighway 64	Received Intact
(505) 632-0615	2-0615	Cool - Ice/Blue Ice

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

	Telephone: (505) 324-5884
Address: 3315 Bloomfield Hwy., Farming	ton, NM 87401
Facility or Well Name: AXI APACHE	
Location: Unit or Qtr/Qtr Sec_P Sec_10 T_2	SN R SW County R/O ARRISH
Land Type: RANGE	
Date Remediation Started: 7/8/99 Remediation Method: Landfarmed Composted Other	Approx. cubic yards
	E' al Clesure Compling:
epth To Groundwater: (pts.)	Final Closure Sampling: Sampling Date: 5/12/99 Time: 1300
Distance to an Ephemeral Stream (pts.)	Sampling Date: 3112111 Time: 730
Distance to Nearest Lake, Playa, or Watering Pond (pts.)	Sample Results: Field Headspace (ppm) 0.0
Wellhead Protection Area: (pts.)	TPH (ppm) 828 Method 8015
Distance To SurfaceWater: (pts.)	Other
RANKING SCORE (TOTAL POINTS):	
I HEREBY CERTIFY THAT THE INFORMATION ABOV KNOWLEGE AND BELIEF	E IS TRUE AND COMPLETE TO THE BEST OF MY
DATE 5 /14 / 99 PRINTED	NAME Jeffrey C. Blagg, P.E. #11607
SIGNATURE Jeffy C. Blogg	AND TITLE President
AFTER REVIEW OF THE SOIL REMEDIATION INFORMACCORDANCE TO THE JICARILLA APACHE TRIBE P	MATION, ON-SITE REMEDIATION IS APPROVED IN IT CLOSURE ORDINANCE.
APPROVED: YES NO (REASON)	
SIGNED: DAT	E: <u>6-3-99</u>

CLIENT: CONOCO

BLAGG ENGINEERING, INC.

LOCATION NO: CA586

P.O. BOX 87, BLOOMFIELD, NM 87413 (505) 632-1199	C.D.	C. N□:	6660
FIELD REPORT: LANDFARM/COMPOST PILE CLOSURE	VERI	FICAT	TION
LOCATION: NAME: PXI APACHE K WELL #: SA PITS: SEP.	DATE STAR	,	
QUAD/UNIT: P SEC: 10 TWP: 26N RNG: 5W PM: NM CNTY: RA ST: NM -	ENVIRONME SPECIALIST:		
SOIL REMEDIATION:			
REMEDIATION SYSTEM: LANDFARM APPROX. CUBIC Y.	ARDAGE	50	<u> </u>
LAND USE: RANGE LIFT DEPTH (ft):	1-1.5		
FELD NOTES & REMARKS:			,
DEPTH TO GROUNDWATER: NEAREST WATER SOURCE: >1000' NEAREST SURFACE	WATER: _	>100	
NMOCD RANKING SCORE: NMOCD TPH CLOSURE STD: 5000 PPM 7/8/98	ean later	ro m	ロスア
OX. YELL. BROWN SAND TO SILTY JAND, NON COHESING, SLIGHTLY I FIRM, SAMPLING DEPTHS RANGE FROM 6 TO 12 INCHES, NO APP.	ORBUT O	15001	earlen
OBSTERVED NO APPARENT HE ODER IN OUM SAMPLE CILECTED S	جهر د	sodula.	7-5
SAMPLE FOR UP ANALYSIS.			
(CONTES)			
FIELD 418.1 CALCULATIONS SAMP. TIME SAMPLE I.D. LAB No: WEIGHT (g) ML. FREON DILUTION READIN	G CALC. F	pm	
GIZERGII (CAMDIE I OCATIONS)			
SKETCH/SAMPLE LOCATIONS			
Teur HEAD			
arime	LAB SA	,	
ID PID (ppm) ID	ANALYSIS	1300	RESULTS 828
T	(8015)	1300	B C D
(F-1) Z9'			
SAMPUE 3 Q	-		
DESKRATION			
SCALE			
100 5 300			
FROM WELL O FT			



E:PA METHOD 8015 Modified Nonhalogenated Volatile Organics Total Petroleum Hydrocarbons

Parameter		Concentration (mg/Kg)	Det. Limit (mg/Kg)
lient: ample ID: aboratory Number: hain of Custody No: ample Matrix: reservative: condition:	Blagg / CONOCO LF - 1 F225 6660 Soil Cool	Project #: Date Reported: Date Sampled: Date Received: Date Extracted: Date Analyzed: Analysis Requested:	403410 05-14-99 05-12-99 05-13-99 05-13-99 05-14-99 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,

828

SW-846, USEPA, December 1996.

Comments:

AXI Apache K #5 A Landfarm. 5 Pt. Composite.

Analyst A. Opense

Stacy W Sendler

0.2

CHAIN OF CUSTODY RECORD

ENVIRC 5796 U Farmington, (50)	Relinquished by: (Signature)	Relinquished by: (Signature)					12-1 Shzh 1300 Faas 5016	Sample No./ Sample Sample Lab Number Sample Identification Date Time	017 E07	Client No.	Client / Project Name Project Location LANDFACT PROJECT LOCATION LANDFACT AXT APACHE K #5A
ENVIROTECH INC. 5796 U.S. Highway 64 Farmington, New Mexico 87401 (505) 632-0615	Received by: (Signature)	Received by: (Signature)	Received by: (Signature)					N	o. of taine		ANALYSIS / PARAMETERS
Sample Receipt Y N N/A Received Intact Cool - Ice/Blue Ice		3./5.77 /5.5	_			Preserv cool	5 PT. ComposITE			Remarks	ETERS