JICARILLA APACHE TRIBE
DEPUTYOIL & GAS INSPECTOR

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

NATURAL RESOURCE DEPT AND OIL & GAS ADMINISTRATION

AUG 2 4 1999

PIT REMEDIATION AND CLOSURE REPORT

1) y have a Co	
Operator: CONOCO, INC.	Telephone: (505) 324-5884
Address: 3315 Bloomfield Hwy., Farmingt	on, NM 87401
Facility or Well Name: AXI APROPE	K # 6A
Location: Unit or Qtr/Qtr Sec Sec 9 T_	60 RS10 County KID HERIER
Pit Type: Separator <u> Dehydrator</u> Other	
Lune Type	
l • • • · .	other
Footage from reference: 7	
Direction from reference:	7 Degrees 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 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) \supset 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):

	7171aR
Date Remediation Sta	rted: Date Completed:7 7 98
Remediation Method:	Excavation Approx. cubic yards
ck all appropriate sections)	Landfarmed X Insitu Bioremediation
	Other
THEREFORE NO	Onsite X Offsite Of Remedial Action: Excavation, Excautions must be because of the Annuary with conducted with the detection. The Annuary with conducted with the detection. The Annuary with conducted with the detection.
Oldina water Biotes	
Final Pit: Closure Sampling:	Sample location see Attached Documents
(if multiple samples, attach sample results	Sample depth 7 (WEST SIDEWALL)
and diagram of sample locations and depths)	Sample date 7/2/98 Sample time
	Sample Results
	Soil: Benzene (ppm) Water: Benzene (ppb)
	Total BTEX (ppm) Toluene (ppb)
	Field Headspace (ppm) 2,767 Ethylbenzene (ppb)
	TPH (ppm) 10H Total Xylenes (ppb)
1)	e: Yes No _× (If yes, attach sample results)
I HEREBY CERTIFY KNOWLEGE AND I	Y THAT THE INFORMATION ABOVE IS TRUE AND COMPLETE TO THE BEST OF MY BELIEF
	7/7/98 DRINGED NAME Jeffrey C. Blagg, P.E.# /1607
DATE	My C. Slogg AND TITLE President
SIGNATURE	E THE DIT CLOSURE INFORMATION, PIT CLOSURE IS APPROVED IN ACCORDANCE
TO THE JICARILL	F THE PIT CLOSURE INFORMATION, PIT CLOSURE IS APPROVED IN ACCORDANCE A APACHE TRIBE PIT CLOSURE ORDINANCE.
APPROVED: YES	X NO (REASON) R.A. Attached
SIGNED:	CMa DATE: 9-9-98

BLAGG ENGINEERING, INC. P.O. BOX 87, BLOOMFIELD, NM 87413 (505) 632-1199	C.O.C. NO:
FIELD REPORT: CLOSURE VERIFICATION	PAGE No:l_ ofl_
LOCATION: NAME: AXI APACHE K WELL #: 6A PIT: SEP QUAD/UNIT: O SEC: 9 TWP: Z6N RNG: 5W PM:NM CNTY: RA ST: NM QTR/FOOTAGE: SE14 SW14 CONTRACTOR: JVC	DATE STARTED: 7/7/98 DATE FINISHED: ENVIRONMENTAL NV
EXCAVATION APPROX. 16 FT. x 17 FT. x 11 FT. DEEP. CUBIC DISPOSAL FACILITY: 0N-SITE REMEDIATION METHOL LAND USE: RANGE LEASE: CONTRACT #151 FOR	D: LONDFAIGN. RMATION: MU
SOIL AND EXCAVATION DESCRIPTION:	CHECK ONE: PIT ABANDONED STEEL TANK INSTALLED FIBERGLASS TANK INSTALLED
EXECUTION CONSIST OF MOSTLY BEDROCK (SHALE) OVERAL OUTRY RED TO MED. GRAT IN COLOR FRIMBLE TO U OBVIOUS STRINING OR HE ODOR OBSERVED WIND ENTRY EAST, A WEST SIDEWALL OUT OUT JAMPLES CONSIST OF BEDINOK, THEREFORE WITH CONTINUED.	KERINTING STRIKE
EXCAUATION REDROCK REPROCK FIELD 418.1 CALCULATIONS	
SCALE TIME SAMPLE I.D. LAB NO: WEIGHT (g) mL. FREON D OPIS OFF	ILUTION READING CALC. ppm
PIT PERIMETER IN RESULTS PIT SAMPLE FIELD HEADSPACE PID (SPER) 1 2 7 202	PROFILE A'
LAB SAMPLES SAMPLE ANALYSIS TIME	SEDSOCK 2 I
TRAVEL NOTES: CALLOUT: 7/2/98 ONSITE: 7/7/98	

Well Name:

Well Site location:

Pit Type:

Producing Formation:

Pit Category:

Horizonal Distance to Surface Water:

Vicinity Groundwater Depth:

Axi Apache K # 6A Unit O, Sec. 9, T26N, R4W

Separator pit

Non Vulnerable > 1000 ft.

> 100 ft.

RISK ASSESSMENT (Non Vulnerable Area)

Pit remediation activities were terminated when trackhoe encountered shale bedrock at 11 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 11 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.
- 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.
- Well site located within the <u>non-vulnerable area</u> and is approximately 1.7 miles northwest of the nearest vulnerable area boundary (Tapacito Creek).

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

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). CONOCO requests pit closure approval on this location.

CA583

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: Conoco, Inc. Telephone: (505) 324-5884
Address: 3315 Bloomfield Hwy., Farmington, NM 87401
Facility or Well Name: AXI APACHE K # 6A
Location: Unit or Qtr/Qtr Sec O Sec 9 T 26N R SW County LIO ARRIBA
Land Type: RANGE
Date Remediation Started: 7/7/98 Date Completed: 5/4/99 Remediation Method: Landfarmed
epth To Groundwater: (pts.) O Final Closure Sampling:
Distance to an Ephemeral Stream (pts.) 0 Sampling Date: 5/12/99 Time: 1130
Distance to Nearest Lake, Playa, or Watering Pond (pts.) Wellhead Protection Area: (pts.) Distance To SurfaceWater: (pts.) RANKING SCORE (TOTAL POINTS):
HEREBY CERTIFY THAT THE INFORMATION ABOVE IS TRUE AND COMPLETE TO THE BEST OF MY KNOWLEGE AND BELIEF
DATE S 14 99 PRINTED NAME Jeffrey C. Blagg, P.E. #11607 SIGNATURE Jeffrey C. Blagg AND TITLE President
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)
SIGNED: Lee Manuel DATE: 6-3-99

CLIENT _CONOCO

BLAGG ENGINEERING, INC. P.O. BOX 87, BLOOMFIELD, NM 87413 (505) 632-1199

LOCATION NO. CAS83 C.D.C. ND: 6659

FIELD	REPORT:	LANDFARM/COMPOST	PILE	CLOSURE	VERIFICATION
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_i i = Tini <u>name</u>				WELL #: 64		rs: 5 EP.		DATE STARTED:	
QUAD UNIT: 0	SEC: 9	TWP:	262	RNG: SW	PM: Nm	CNTY: RA	ST: NM	ENVIRONMENTAL	
JTP/FU <u>DTAGE</u>				CONTRACTOR:				SPECIALIST:	NV_

SOL REMEDIATION:

REMEDIATION SYSTEM: LANDFRRM

APPROX. CUBIC YARDAGE: 110

RANGE LAND USE:

LIFT DEPTH (ft):

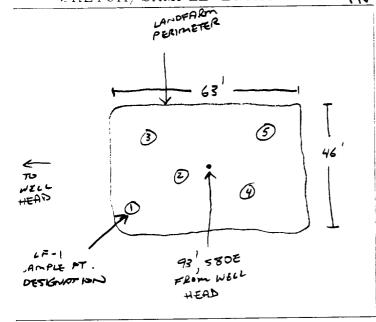
FELD NOTES & REMARKS:

MOLI FAMENS SCORE ____ NMOCD TPH CLOSURE STD: 5000 PPM 7/7/98

MOSTLY DUSKY RED TO DR. YELL. BROWN SILTY ELAY, NON COHESIVE TO SLIGHTLY COHESIVE, NUTTLY ORY FIRM TAMPLING DEPTHS RONGE FROM 6 TO 12 INCHES , NO NOTICEPBLE DISCOLURATION OBSERVED NO APPARENT HE ODUR DETECTED WIN OUM SAMPLE, COLLECTED 5 PT. COMPOSITE SAMPLE FOR LAB ANALYSIS.

		FI	ELD 418.1 C	<u>alculation</u>	<u>S</u>		
SAMP. TIME	SAMPLE I.D.	LAB No:	WEIGHT (g)	mL. FREON	DILUTION	READING	CALC. ppm
						 	-
	1 2 4		i			: <u>. </u>	i

SKETCH/SAMPLE LOCATIONS



)VM	RESULTS	Lab	SAMPLE

SAMPLE ID	FIELD HEADSPACE PID (ppm)	SAMPLE ID	ANALYSIS	TIME	RESULTS
LF-1	0.0	LF-1	TPH (8015)	1130	NO
······································			-	!	

SCALE

FT

TRAVEL NOTES:

CALLOUT: _

5/12/99 ONSITE



EPA METHOD 8015 Modified Nonhalogenated Volatile Organics Total Petroleum Hydrocarbons

Parameter		Concentration (mg/Kg)	Det. Limit (mg/Kg)
Condition:	Cool and Intact	Alialysis Requested.	
Preservative:	-	Analysis Requested:	8015 TPH
•	Cool	Date Analyzed:	05-14-99
Sample Matrix:	Soil	Date Extracted:	05-13-99
Chain of Custody No:	6659	Date Received:	05-13-99
aboratory Number:	F224	Date Sampled:	05-12-99
Sample ID:	LF - 1	Date Reported:	05-14-99
Client:	Blagg / CONOCO	Project #:	403410

(mg/Kg)	(mg/Kg)
ND	0.2
ND	0.1
ND	0.2
	ND ND

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 #6 A Landfarm. 5 Pt. Composite.

Analyst Property

Stacy W Sendler

2	Cool - Ice/Blue Ice		(505) 632-0615	(505)				
7	Received Intact	1	5796 U.S. Highway 64	5796 U.S.				
٧ ٧ ٧/A								
Sample Receipt	Sampl	3	LCH D	FOVIDOTECH				
		ure)	Received by: (Signature)				nature)	Relinquished by: (Signature)
		ure) (Received by: (Signature)				nature)	Relinquished by: (Signature)
99		ure) Chleucen	Received by: (Signature)	Date, Time 5/13/99 0733			nature)	Relinquished by: (Signature)
Date Time			Bood by: (Signat	Time				
Vcool	REEV							
Carrie	J 73.			2012	7004	//30	5/12/99	CF-1
l			Co	Sample Matrix	Lab Number	Sample Time	Sample Date	Sample No./ Identification
			No. of ntainer	014804				NIN
Remarks			_		9			Sampler:
	METERS	ANALYSIS / PARAMETERS		THE K #6A	AXI AMCHE		000000	Client / Project Name
				مراه حصره ا	Project Location			Olima / Project Mono