SUBMIT 1 COPY TO

### Jenny & Toust JICARILLA APACHE TRIBE DEPUTYOIL & GAS INSPECTOR NVIRONMENTAL PROTECTION OFFICE PO ROX 507 P.O. BOX 507

NATURAL RESOURCE DEPT

MAY 0 4 1998

DULCE, NEW MEXICO 87528

AND OIL & GAS ADMINISTRATION

	PIT	REME	DIATION	AND	CLOSURE	REPORT
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and the state of the first state of the stat							
Operator: CONOCO, INC.	Telephone: (505) 324-5884						
Address: 3315 Bloomfield Hwy., Farmington, NM 87401							
Facility or Well Name: TICARILLA K # 15E							
Location: Unit or Qtr/Qtr Sec A Sec TZ	-50 RSW County RIO ARRIBA						
Pit Type: Separator X Dehydrator Other							
Land Type: RANGE							
Pit Location:  (Attach diagram)  Reference: wellhead X  Footage from reference: /Z  Direction from reference: 5	other						
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):						

Date Remediation Started: 8-17-95. Date Completed:
pemediation Method: Excavation X Approx. cubic yards 700
neck all appropriate sections)  Landfarmed  Insitu Bioremediation
Other
Remediation Location:  (i.e. landfarmed onsite, name and location of offsite facility)  Onsite X Offsite
General Description of Remedial Action: Excavation, MOST OF EXCAUATION CONSIST
OF SHALE BEDROCK.
Groundwater Encountered: No X Yes Depth
Sample location   See Attached Documents
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
DATE 8-21-96. PRINTED NAME Jeffrey C. Blagg, P.E.# 11607
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: YESX NO (REASON)
SIGNED: 10 DATE: 8-21-96

BLAGG ENGINEERING, INC. P.O. BOX 87, BLOOMFIELD, NM 87413 (505) 632-1199	C.D.C. ND:
FIELD REPORT: CLOSURE VERIFICATION	PAGE No: of/
	DATE STARTED: 8/21/96 DATE FINISHED:
c = c =	ENVIRONMENTAL SPECIALIST: NV
EXCAVATION APPROX. 37 FT. x 40 FT. x 17 FT. DEEP. CUBIC DISPOSAL FACILITY: 60-517E REMEDIATION METHOD LAND USE: RANGE LEASE: CONTRACT # 145 FOR:	: LANDFARMED
FIELD NOTES & REMARKS: PIT LOCATED APPROXIMATELY /25 FT. 5	53E FROM WELLHEAD.
DEPTH TO GROUNDWATER: >100 / NEAREST WATER SOURCE: 71000 / NEAREST SURFACE	WATER: 3/000/ CHECK DNE :
	PIT ABANDONED
ENTIRE EXERNATION DESCRIPTION:  ENTIRE EXERNATION CONSIST OF BEDROCK ALL OWN S  COMPOSED OF DUSKY RED SHALE, SOFT (TOP) TO HARD (TOW)	STEEL TANK INSTALLED
APPREENT HC OOK DETECTED IN OUM SAMPLES.  BOTTOM - BEDROCK, SHALE, HARD, VERY PALE PROMEE IN COLON  DUE TO ENTIRE EXCOUNTION CONSISTING MOSTLY OF B  ANALYSIS WAS CONDUCTED.  FIELD 418.1 CALCULATIONS  BEDROCK  TIME SAMPLE I.D. LAB NO: WEIGHT (g) ML. FREON DILL  SCALE  O FT  PIT PERIMETER N  RESULTS  OVM  RESULTS	EUROCIE, NO TAM
SAMPLE FIELD HEADSPACE PID (ppm)  10 12' 0,0  20 13' 0,0  30 13' 15.4  40 12' 12.3  50 17' 5.2  FILL MATERIAL  A  LAB SAMPLES  SAMPLE SIMPLES  SAMPLE NALYSIS TIME  DIRECTION  FILL MATERIAL	BEDROCK  FILL  MATERIAL  37'  7 II
TRAVEL NOTES: CALLOUT: 8/20/96 MORN. ONSITE: 8/21/96 MOR	ev.

Well Name:

Well Site location:

Pit Type:

Producing Formation:

Pit Category:

Horizonal Distance to Surface Water:

Vicinity Groundwater Depth:

Jicarilla K # 15E

Unit A, Sec. 1, T25N, R5W

Separator Pit Basin Dakota

Non Vulnerable > 1000 ft.

- 1000 f

> 100 ft.

#### **RISK ASSESSMENT**

Pit remediation activities were terminated when trackhoe encountered sandstone bedrock at 17 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 17 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 (steel tank installed). Prior discharge into the pit is believed to be under 5 barrels per day.
- 4. All OVM samples collected were well below the 100 ppm NMOCD standards for closure.

Based upon the information given, we conclude that the sandstone bottom creates enough of a 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.

## 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: JICARILLA K #15 E					
Location: Unit or Qtr/Qtr Sec A Sec / TZSN R SW County RIO ACRIBA					
Land Type: RANGE					
Date Remediation Started: 8/21/96 Date Completed: 8/18/97					
Remediation Method: Landfarmed Approx. cubic yards 200					
Composted					
Other					
pth To Groundwater: (pts.) O Final Closure Sampling:					
Distance to an Ephemeral Stream (pts.) 0 Sampling Date: 8/15/97 Time: 1030					
Distance to Nearest Lake, Playa. Sample Results:					
or Watering Pond (pts.) O Field Headspace (ppm) 45.8					
Wellhead Protection Area: (pts.) O TPH (ppm) 104 Method 8015					
Distance To SurfaceWater: (pts.) Other					
RANKING SCORE (TOTAL POINTS):					
I HEREBY CERTIFY THAT THE INFORMATION ABOVE IS TRUE AND COMPLETE TO THE BEST OF MY					
KNOWLEGE AND BELIEF					
DATE S/18/97 PRINTED NAME Jeffrey C. Blagg, P.E. #11607					
SIGNATURE Jeffy C. Blogg 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 X NO (REASON)					
SIGNED: Low DATE: 9-2-97					

P.O. BOX 87, BI	GINEERING, INC.  LOCATION NO. CA 412  632-1199  C.O.C. NO. 5377
FIELD REPORT: LANDFARM/COM	MPOST PILE CLOSURE VERIFICATION
QUAD UNIT: A SEC: / TWP: 250 RNG: 5W	PM: NM CNTY: RA ST:NM DATE FINISHED:
UTP/FUULTAGE: NELY NELY CONTRACTOR	
SOIL REMEDIATION:	
REMEDIATION SYSTEM: LANDFARM	APPROX. CUBIC YARDAGE:
LAND USE: RANGE	LIFT DEPTH (ft): 12" 24"
FIELD NOTES & REMARKS:	
	E: >1000 NEAREST SURFACE WATER: >1000
MMOLD PANKING SCOPE: NMOCD TPH CLOSURE ST	-
MUSTLY DK. YELL. BROWN TO DUS	RY RED FAND TO SILTY CLAY NON COHESIVE TO
COHESIVE (SILTY CLAY) SLIGHTLY	MOIST FILM SOME BEDROCK, SUCHT HE ODDR
IN OUM SAMPLE. 5 PT. COMPO	ISTY COLLECTED FOR LAB ANALYSIS.
CORED	
	81 CALCULATIONS
SAMP. TIME SAMPLE I.D. LAB No: WEIGHT	T (g) mL. FREON DILUTION READING CALC. ppm
SKETCH/SAMPLE LOCATIONS AN	
JAMPLE PT.  DESIGNATION	
BESW DESIGNATION	OVM RESULTS LAB SAMPLES
	SAMPLE FIELD HEADSPACE SAMPLE ANALYSIS TIME RESULTS
	LF-1 45.8 LF-1 (8015) 1030 104
(3) 120' 22'	
3	
10 WELL	
(100', N48É)	SCALE
(100,100)	0 FT
UNIXAUEN MOUNTSU.	, ,
TRAVEL NOTES: CALLOUT: NA	ONSITE:



#### **EPA METHOD 8015 Modified Nonhalogenated Volatile Organics Total Petroleum Hydrocarbons**

Client:	Blagg / Conoco	Project #:	04034-10
Sample ID:	LF - 1	Date Reported:	08-18-97
Laboratory Number:	B861	Date Sampled:	08-15-97
Chain of Custody No:	5377	Date Received:	08-15-97
Sample Matrix:	Soil	Date Extracted:	08-18-97
Preservative:	Cool	Date Analyzed:	08-18-97
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)	
Gasoline Range (C5 - C10)	0.8	0.2	
Diesel Range (C10 - C28)	103	0.1	
Total Petroleum Hydrocarbons	104	0.2	

ND - Parameter not detected at the stated detection limit.

References:

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

SW-846, USEPA, July 1992.

Comments:

Jicarilla K #15E Landfarm. 5 Pt. Composite.

# CHAIN OF CUSTODY RECORD

	Relinquished by: (Signature)	Relinquished by: (Signature)	Relinquished by: (Stanature)		7E-1 8/18	Sample No./ Sample Identification Date	This Vel	Client/Project Name  SURSS CON OCC  Sampler: (Signature)
		ING.	3		197 1030	nple Sa		000
					>30	Sample Time		
		8/			X 85-1	Lab Number	Chain of Custody Lape No.	Project Location  TICANULA
ENVIROTECH INC. 57% U.S. Highway 64-3014 Farmington, New Mexico 87401 (505) 632-0615		8/5/97 14/8			50/2	Sample Matrix	04034~10	K #15t
ECH INC. hway 64-3014 v Mexico 87401 2-0615	Received by: (Signature)	Received by: (Signature)	le vece ; und		- 4	No. o Contain		
			Ceres ( 5 ha hand					ANALYSIS/PARAMETERS
		1-15-97 14.8			S PT. COMPOSITE	PRESERV COOL	Remarks	RS