

CA387

Denny E. Foust
DEPUTY OIL & GAS INSPECTOR

**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

MAY 04 1998

PIT REMEDIATION AND CLOSURE REPORT

Approved

Operator: CONOCO, INC. Telephone: (505) 324-5884

Address: 3315 Bloomfield Hwy., Farmington, NM 87401

Facility or Well Name: JICARILLA #1

Location: Unit or Qtr/Qtr Sec D Sec 30 T 26N R 4W County RIO ARriba

Pit Type: Separator X Dehydrator Other PRODUCTION TANK

Land Type: RANGE

Pit Location:
 (Attach diagram)

Pit dimensions: length 25', width 25', depth 19'

Reference: wellhead X, other

Footage from reference: 55

Direction from reference: 60 Degrees X East North
 West of 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)	<u>10</u>

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)	<u>0</u>

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)	<u>0</u>

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)	<u>0</u>

Distance To Surface Water:

(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)	<u>0</u>

RANKING SCORE (TOTAL POINTS): 10

Date Remediation Started: _____ Date Completed: 7-25-96

Remediation Method: Excavation X Approx. cubic yards 400
 (check all appropriate sections) Landfarmed X Insitu Bioremediation _____
 Other _____

Remediation Location: Onsite X Offsite _____
 (i.e. landfarmed onsite, name and location of offsite facility)

General Description of Remedial Action: Excavation

Groundwater Encountered: No X Yes _____ Depth _____

Final Pit: Sample location see Attached Documents

Closure Sampling: _____
 (if multiple samples, attach sample results and diagram of sample locations and depths)

Sample depth 20'

Sample date 7-25-96 Sample time _____

Sample Results

BTEX sample submitted	Soil: Benzene (ppm)	<u>.062</u>	Water: Benzene (ppb)	_____
	Total BTEX (ppm)	<u>6.77</u>	Toluene (ppb)	_____
	Field Headspace (ppm)	<u>381</u>	Ethylbenzene (ppb)	_____
	TPH (ppm)	<u>330</u>	Total Xylenes (ppb)	_____

Groundwater Sample: Yes _____ No X (If yes, attach sample results)

I HEREBY CERTIFY THAT THE INFORMATION ABOVE IS TRUE AND COMPLETE TO THE BEST OF MY KNOWLEDGE AND BELIEF

DATE 7-25-96 PRINTED NAME Jeffrey C. Blagg, P.E. #11607
 SIGNATURE Jeffrey C. Blagg 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) spec w/ Fertilizer

SIGNED [Signature] DATE: 7-29-96

CLIENT: <u>CONOCO</u>	BLAGG ENGINEERING, INC. P.O. BOX 87, BLOOMFIELD, NM 87413 (505) 632-1199	LOCATION NO: <u>CA387</u> C.D.C. NO: <u>4879</u>
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FIELD REPORT: PIT CLOSURE VERIFICATION

LOCATION: JICAILLA #1	PIT TYPE: SEP. / PROD.	DATE STARTED: 7-25-96
QUAD/UNIT: D SEC. 30 TWP. 26 N RNG. 4 W BM. NM CNTY. R.A. ST. NM		DATE FINISHED: _____
QTR/FOOTAGE: 790' FWL. 880' FWL	CONTRACTOR: ACME	ENVIRONMENTAL SPECIALIST: AEG

EXCAVATION APPROX. 25 FT. x 25 FT. x 19 FT. DEEP. CUBIC YARDS: ~ 400
DISPOSAL FACILITY: ON-SITE REMEDIATION METHOD: LANDFARM
LAND USE: RANGE LEASE: CONTRACT # 120 FORMATION: _____

FIELD NOTES & REMARKS: PIT LOCATED APPROXIMATELY 55 FEET S60°E FROM WELLHEAD.
DEPTH TO GROUNDWATER: >50' NEAREST WATER SOURCE: >1000' NEAREST SURFACE WATER: >1000'
NMOCD RANKING SCORE: 10 NMOCD TPH CLOSURE STD: 1000 PPM

SOIL AND EXCAVATION DESCRIPTION: PIT DISPOSITION: ABANDONED
SOIL CONSISTS OF MOIST, BROWN, SILTY SAND - ODOOR IN BOTTOM SAMPLE ONLY.
NO STAIN

FIELD 418.1 CALCULATIONS

FIELD 418.1 CALCULATIONS						
SAMPLE I.D.	LAB No:	WEIGHT (g)	mL. FREON	DILUTION	READING	CALC. ppm
CB@20'	1749	10.0	20.0	1	165	330

CLOSED

SCALE



0 5 10 FT

PIT PERIMETER

OVM RESULTS

PIT PROFILE

[illegible]

TRAVEL NOTES: CALLOUT: 7-24-96 ONSITE: 7-25-96 0900

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:	Conoco, Inc.	Project #:	
Sample ID:	Center Bottom @ 20'	Date Analyzed:	7-25-96
Project Location:	Jicarilla 1	Date Reported:	7-26-96
Laboratory Number:	TPH #1749	Sample Matrix:	Soil

Parameter	Result, mg/kg	Detection Limit, mg/kg
-----	-----	-----
Total Recoverable Petroleum Hydrocarbons	330	10

ND = Not Detectable at stated detection limits.

QA/QC:	QA/QC Sample TPH mg/kg	Duplicate TPH mg/kg	% *Diff.
	-----	-----	-----
	4,440	3,640	20

*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: Separator/Production Pit

R. E. O'Neil
Analyst

J. C. Blagg
Review

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8020 AROMATIC VOLATILE ORGANICS

Client:	Blagg / Conoco	Project #:	04034
Sample ID:	C.B. @ 20'	Date Reported:	07-26-96
Laboratory Number:	A417	Date Sampled:	07-25-96
Chain of Custody:	4879	Date Received:	07-26-96
Sample Matrix:	Soil	Date Analyzed:	07-26-96
Preservative:	Cool	Date Extracted:	07-26-96
Condition:	Cool & Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	62.1	17.5
Toluene	267	16.7
Ethylbenzene	172	15.2
p,m-Xylene	4,990	21.6
o-Xylene	1,280	10.4
Total BTEX	6,770	

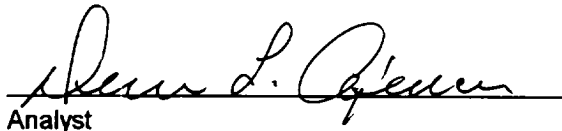
ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	Trifluorotoluene	100 %
	Bromofluorobenzene	100 %

References: Method 5030, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, July 1992.

Method 8020, Aromatic Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, Sept. 1994.

Comments: Jicarilla #1, Prod./Sep. Pit.


Analyst


Review

ENVIROTECH INC.
5796 U.S. Highway 64-3014
Farmington, New Mexico 87401
(505) 632-0615

CA387

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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: <u>Conoco, Inc.</u> Telephone: <u>(505) 324-5884</u>	
Address: <u>3315 Bloomfield Hwy., Farmington, NM 87401</u>	
Facility or Well Name: <u>JICARILLA #1</u>	
Location: Unit or Qtr/Qtr Sec <u>D</u> Sec <u>30</u> T <u>26N</u> R <u>4W</u> County <u>RIO ARriba</u>	
Land Type: <u>RANGE</u>	
Date Remediation Started: <u>7/25/96</u> Date Completed: <u>8/22/97</u>	
Remediation Method: Landfarmed <input checked="" type="checkbox"/> Approx. cubic yards <u>400</u> Composted <input type="checkbox"/> Other <input type="checkbox"/>	
Depth To Groundwater: (pts.) <u>10</u> Distance to an Ephemeral Stream (pts.) <u>0</u> Distance to Nearest Lake, Playa, or Watering Pond (pts.) <u>0</u> Wellhead Protection Area: (pts.) <u>0</u> Distance To Surface Water: (pts.) <u>0</u> RANKING SCORE (TOTAL POINTS): <u>10</u>	Final Closure Sampling: Sampling Date: <u>8/20/97</u> Time: <u>0925</u> Sample Results: Field Headspace (ppm) <u>0.0</u> TPH (ppm) <u>4.6</u> Method <u>8015</u> Other <input type="checkbox"/>
I HEREBY CERTIFY THAT THE INFORMATION ABOVE IS TRUE AND COMPLETE TO THE BEST OF MY KNOWLEDGE AND BELIEF	
DATE <u>8/22/96</u> PRINTED NAME <u>Jeffrey C. Blagg, P.E. #11607</u>	
SIGNATURE <u>Jeffrey C. Blagg</u> AND TITLE <u>President</u>	
AFTER REVIEW OF THE SOIL REMEDIATION INFORMATION, ON-SITE REMEDIATION IS APPROVED IN ACCORDANCE TO THE JICARILLA APACHE TRIBE PIT CLOSURE ORDINANCE.	
APPROVED: YES <input checked="" type="checkbox"/> NO <input type="checkbox"/> (REASON) <input type="checkbox"/>	
SIGNED: <u>Keith C. Mammill</u> DATE: <u>9-2-97</u>	

CLIENT: <u>CONOCO</u>	BLAGG ENGINEERING, INC. P.O. BOX 87, BLOOMFIELD, NM 87413 (505) 632-1199	LOCATION NO: <u>CA387</u> C.O.C. NO: <u>5390</u>
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FIELD REPORT: LANDFARM/COMPOST PILE CLOSURE VERIFICATION

LOCATION: NAME: <u>JICARILLA</u>	WELL #: <u>1</u>	PITS: <u>SEP/PROD</u>	DATE STARTED: <u>8/20/97</u>
QUAD/UNIT: <u>D</u> SEC: <u>30</u> TWP: <u>26N</u> RNG: <u>4W</u> PM: <u>NM</u> CNTY: <u>RA</u> ST: <u>NM</u>			DATE FINISHED: _____
UTM/EQUIDAGE: <u>790' FNL</u> <u>880' FWL</u> CONTRACTOR: <u>ACME</u>			ENVIRONMENTAL SPECIALIST: <u>NV</u>

SOIL REMEDIATION:

REMEDIATION SYSTEM: LANDFARMED APPROX. CUBIC YARDAGE: 400
 LAND USE: RANGE LIFT DEPTH (ft): 12"-24"

FIELD NOTES & REMARKS:

DEPTH TO GROUNDWATER: <100' NEAREST WATER SOURCE: >1000' NEAREST SURFACE WATER: >1000'
 NMOCB PAKING SCORE: 10 NMOCB TPH CLOSURE STD: 1000 PPM

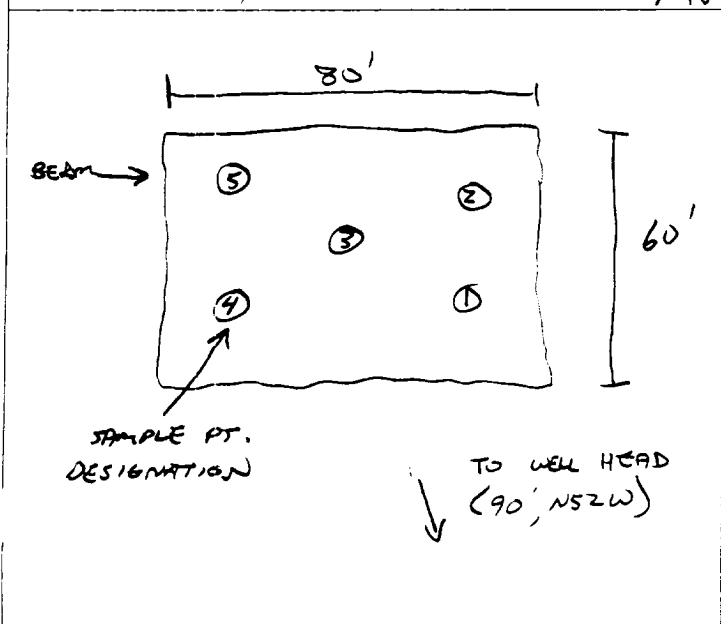
MOSTLY DR. YELL. BLOWN SAND, NON COHESIVE, SLIGHTLY MOIST, FIRM,
 NO APPARENT DISCOLORATION OBSERVED IN ANY OF THE SAMPLE PTS,
 NO APPARENT HC ODOR IN OVM SAMPLE. 5 PT. COMPOSITE
 COLLECTED FOR LAB ANALYSIS.

CLOSED

FIELD 418.1 CALCULATIONS

SAMP. TIME	SAMPLE I.D.	LAB No:	WEIGHT (g)	mL. FREON	DILUTION	READING	CALC. ppm

SKETCH/SAMPLE LOCATIONS



OVM RESULTS

LAB SAMPLES

SAMPLE ID	FIELD HEADSPACE PID (ppm)	SAMPLE ID	ANALYSIS	TIME	RESULTS
LF-1	0.0	LF-1	TPH (8015)	0925	4.6

SCALE

0 FT

TRAVEL NOTES: CALLOUT: NA ONSITE: 8/20/97

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified Nonhalogenated Volatile Organics Total Petroleum Hydrocarbons

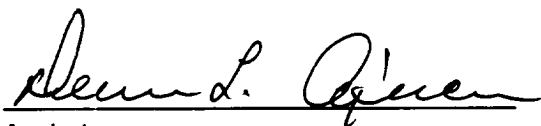
Client:	Blagg / Conoco	Project #:	04034-10
Sample ID:	LF - 1	Date Reported:	08-21-97
Laboratory Number:	B906	Date Sampled:	08-20-97
Chain of Custody No:	5390	Date Received:	08-20-97
Sample Matrix:	Soil	Date Extracted:	08-20-97
Preservative:	Cool	Date Analyzed:	08-21-97
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

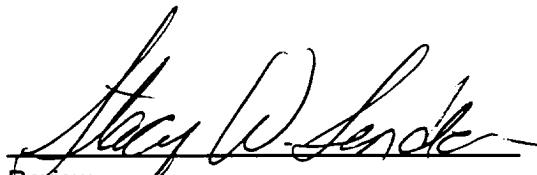
Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	4.6	0.2
Diesel Range (C10 - C28)	ND	0.1
Total Petroleum Hydrocarbons	4.6	0.2

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 #1 Landfarm. 5 pt. Composite.


Analyst


Review

CHAIN OF CUSTODY RECORD

Client/Project Name				Project Location				CHAIN OF CUSTODY RECORD											
Bisset/Canoco				LANDFARM				ANALYSIS/PARAMETERS											
Sampler: (Signature) Nelson VLF				Chain of Custody Tape No. SIERRA #1															
Sample No./ Identification	Sample Date	Sample Time	Lab Number	Sample Matrix	No. of Containers	Remarks													
LF-1	8/20/97	0925	B906	SOIL	1	PREPARED - COOL 5 PT. COMPOSITE													
					</														