

MAY 04 1998

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

CA 382

**RANKING SCORE (TOTAL POINTS):** 10

Date Remediation Started: \_\_\_\_\_ Date Completed: 7-9-96Remediation Method: Excavation X Approx. cubic yards 1800  
(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: LANDFARMGroundwater Encountered: No X Yes \_\_\_\_\_ Depth \_\_\_\_\_Final Pit: Sample location CENTER BOTTOM

## Closure Sampling:

(if multiple samples, \_\_\_\_\_)

attach sample results \_\_\_\_\_

and diagram of sample locations and depths) Sample depth 23'Sample date 7-9-96 Sample time \_\_\_\_\_

## Sample Results

Soil: Benzene (ppm) \_\_\_\_\_ Water: Benzene (ppb) \_\_\_\_\_

Total BTEX (ppm) \_\_\_\_\_ Toluene (ppb) \_\_\_\_\_

Field Headspace (ppm) 54 Ethylbenzene (ppb) \_\_\_\_\_TPH (ppm) 24 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 7-9-96 PRINTED NAME R. E. O'NEILSIGNATURE R. E. O'Neil AND TITLE FIELD ENGINEER

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) \_\_\_\_\_SIGNED: R. E. O'Neil DATE: 7-9-96



**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	Project #:	
Sample ID:	Center Bottom @ 23'	Date Analyzed:	7-9-96
Project Location:	Jicarilla E 10E	Date Reported:	7-9-96
Laboratory Number:	TPH-1737	Sample Matrix:	Soil

Parameter -----	Result, mg/kg -----	Detection Limit, mg/kg -----
Total Recoverable Petroleum Hydrocarbons	<b>24</b>	<b>10</b>

ND = Not Detectable at stated detection limits.

QA/QC:	QA/QC Sample TPH mg/kg -----	Duplicate TPH mg/kg -----	% *Diff. -----
	724	568	24

\*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 Tank Pit - CA382

R. E. O'Neil  
Analyst

William V. Felt  
Review

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

CA382

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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 E #10E  
Location: Unit or Qtr/Qtr Sec B Sec 22 T 26N R 4W County RIO ARriba  
Land Type: RANGE

Date Remediation Started: 7/9/96 Date Completed: 8/27/97  
Remediation Method: Landfarmed X Approx. cubic yards 1,800  
Composted         
Other       

Depth To Groundwater: (pts.) 10  
Distance to an Ephemeral Stream (pts.) 0  
Distance to Nearest Lake, Playa, or Watering Pond (pts.) 0  
Wellhead Protection Area: (pts.) 0  
Distance To Surface Water: (pts.) 0  
RANKING SCORE (TOTAL POINTS): 10

**Final Closure Sampling:**

Sampling Date: 8/22/97 Time: 1055  
Sample Results:  
Field Headspace (ppm) 0.0  
TPH (ppm) 5.7 Method 8015  
Other       

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

DATE 8/27/97 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 X NO        (REASON)       

SIGNED: Kenneth C. Marshall DATE: 9-2-97

CLIENT CONOCOBLAGG ENGINEERING, INC.  
P.O. BOX 87, BLOOMFIELD, NM 87413  
(505) 632-1199LOCATION NO: CA382C.D.C. NO: 5395

## FIELD REPORT: LANDFARM/COMPOST PILE CLOSURE VERIFICATION

LOCATION NAME JICARILLA E WELL #: 10E PITS: SEP/PROD.DATE STARTED: 8/22/97QUAD/UNIT B SEC: 22 TWP: 26N RNG: 4W PM: NM CNTY: RA ST: NM

DATE FINISHED: \_\_\_\_\_

EASTING: NW/4 NE/4 CONTRACTOR: ACMEENVIRONMENTAL  
SPECIALIST: NV

## FIELD EVALUATION:

REMEDIATION SYSTEM: LANDFARMEDAPPROX. CUBIC YARDAGE: 1,800LAND USE: RANGELIFT DEPTH (ft): 12"-24"

## FIELD NOTES &amp; REMARKS:

DEPTH TO GROUNDWATER <100' NEAREST WATER SOURCE: >1000' NEAREST SURFACE WATER: >1000'NUMBER PAVING SCOPE 10 NUMBER TPH CLOSURE STD 1000 PPM

7/9/96

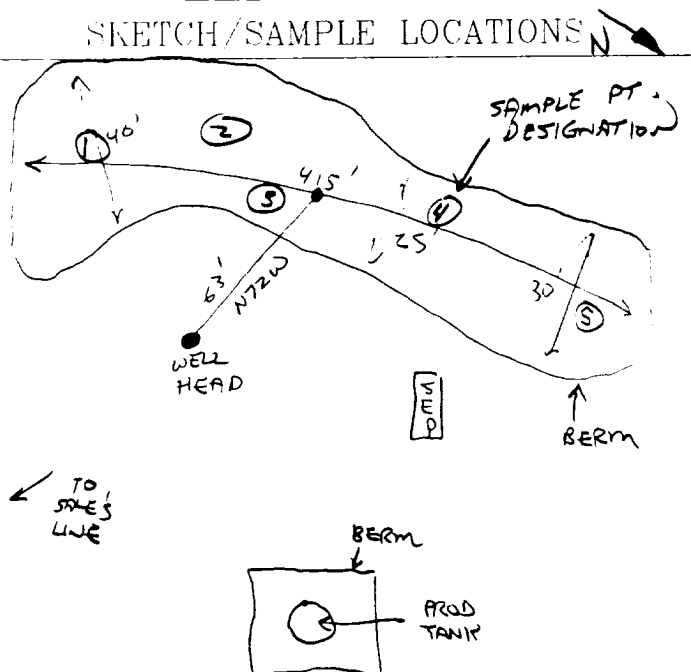
DK. YELL. BROWN SAND NON COHESIVE SLIGHTLY MOIST, FIRM, NO  
APPARENT DISCOLORATION OBSERVED WITHIN ANY OF THE SAMPLE PTS.,  
NO APPARENT HC ODOR IN OUR SAMPLE, 5 PT. COMPOSITE COLLECTED  
FOR LAB ANALYSIS.

CLOSED

## FIELD 4181 CALCULATIONS

SAMPLE TIME	SAMPLE ID	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	7 PH (8015)	1055	5.7

## SCALE



0

FT

## TRAVEL NOTES:

CALLOUT: NAONSITE: 8/22/97

# ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

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

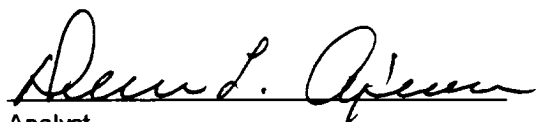
Client:	Blagg / Conoco	Project #:	04034-10
Sample ID:	LF - 1	Date Reported:	08-25-97
Laboratory Number:	B913	Date Sampled:	08-22-97
Chain of Custody No:	5395	Date Received:	08-22-97
Sample Matrix:	Soil	Date Extracted:	08-25-97
Preservative:	Cool	Date Analyzed:	08-25-97
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

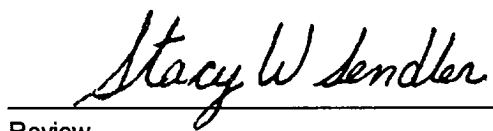
Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	4.6	0.2
Diesel Range (C10 - C28)	1.1	0.1
Total Petroleum Hydrocarbons	5.7	0.2

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 E #10E Landfarm. 5 Pt. Composite.

  
Analyst

  
Review

(505) 632-0615