

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

CA631 04  
SUBMIT 1 COPY TO  
NATURAL RESOURCE DEPT  
AND OIL & GAS ADMINISTRATION

PIT REMEDIATION AND CLOSURE REPORT

Operator: CONOCO, INC. Telephone: (505) 324-5884  
Address: 3315 Bloomfield Hwy., Farmington, NM 87401  
Facility or Well Name: JICARILLA BR E #14  
Location: Unit or Qtr/Qtr Sec 00 Sec 17 T25N R4W County RIO ARriba  
Pit Type: Separator ☒ Dehydrator ☐ Other ☐  
Land Type: RANGE

Pit Location: Pit dimensions: length 20', width 15', depth 6'  
(Attach diagram) Reference: wellhead ☒, other ☐  
Footage from reference: 24'  
Direction from reference: 47 Degrees ☒ East of North ☒  
West South

<b>Depth To Groundwater:</b> (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)	0
<b>Distance to an Ephemeral Stream</b> (Downgradient dry wash greater than ten feet in width)	Less than 100 feet (10 points) Greater than 100 feet (0 points)	0
<b>Distance to Nearest Lake, Playa, or Watering Pond</b> (Downgradient lakes, playas and livestock or wildlife watering ponds)	Less than 100 feet (10 points) Greater than 100 feet (0 points)	0
<b>Wellhead Protection Area:</b> (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)	0
<b>Distance To Surface Water:</b> (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)	0

RANKING SCORE (TOTAL POINTS): 0

Date Remediation Started: \_\_\_\_\_ Date Completed: 9/14/98

Remediation Method: Excavation ☒ Approx. cubic yards 40  
 (check all appropriate sections) Landfarmed ☒ Insitu Bioremediation \_\_\_\_\_  
 Other \_\_\_\_\_

Remediation Location: Onsite ☒ Offsite \_\_\_\_\_  
 (i.e. landfarmed onsite, name and location of offsite facility)

General Description of Remedial Action: Excavation, BEDROCK BOTTOM.Groundwater Encountered: No ☒ 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 3' (WEST SIDEWALL)Sample date 9/1 Sample time 1145

## Sample Results

Soil: Benzene	(ppm)	_____	Water: Benzene	(ppb)	_____
Total BTEX	(ppm)	_____	Toluene	(ppb)	_____
Field Headspace	(ppm)	<u>14.6</u>	Ethylbenzene	(ppb)	_____
TPH	(ppm)	<u>ND</u>	Total Xylenes	(ppb)	_____

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 KNOWLEDGE AND BELIEF

DATE 9/14/98 PRINTED NAME Jeffrey C. Blagg, P.E. #11607SIGNATURE 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 ☒ NO \_\_\_\_\_ (REASON) \_\_\_\_\_SIGNED: Ken C. Man DATE: 10-1-98

3003906035

CLIENT: <u>CONOCO</u>	BLAGG ENGINEERING, INC. P.O. BOX 87, BLOOMFIELD, NM 87413 (505) 632-1199	LOCATION NO: <u>CA631</u> C.O.C. NO: _____
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FIELD REPORT: CLOSURE VERIFICATION		PAGE No: <u>1</u> of <u>1</u>
LOCATION: NAME: <u>JICARUA BR</u> E WELL #: <u>14</u> PIT: <u>SEP</u>		DATE STARTED: <u>9/14/98</u>
QUAD/UNIT: <u>D</u> SEC: <u>17</u> TWP: <u>25N</u> RNG: <u>4W</u> PM: <u>NM</u> CNTY: <u>RA</u> ST: <u>NM</u>		DATE FINISHED: _____
QTR/FOOTAGE: <u>1003' FUL</u> <u>1940' FUL</u> CONTRACTOR: <u>JVC</u>		ENVIRONMENTAL SPECIALIST: <u>NV</u>

EXCAVATION APPROX. <u>20</u> FT. x <u>15</u> FT. x <u>6</u> FT. DEEP.	CUBIC YARDAGE: <u>40</u>
DISPOSAL FACILITY: <u>ON-SITE</u>	REMEDIALATION METHOD: <u>LANDFARM</u>
LAND USE: <u>RANGE</u>	LEASE: <u>CONTRACT #64</u> FORMATION: <u>PC</u>


FIELD NOTES & REMARKS:	PIT LOCATED APPROXIMATELY <u>24</u> FT. <u>N47E</u> FROM WELLHEAD.
DEPTH TO GROUNDWATER: <u>&gt;100'</u>	NEAREST WATER SOURCE: <u>&gt;1000'</u> NEAREST SURFACE WATER: <u>&gt;1000'</u>
NMOCB RANKING SCORE: <u>0</u>	NMOCB TPH CLOSURE STD: <u>5000</u> PPM
SOIL AND EXCAVATION DESCRIPTION:	CHECK ONE: <input checked="" type="checkbox"/> PIT ABANDONED <input type="checkbox"/> STEEL TANK INSTALLED <input type="checkbox"/> FIBERGLASS TANK INSTALLED

SIDEWALLS - OK. YELL. ORANGE SAND, NON COHESIVE, SLIGHTLY MOIST, FIRM TO DENSE, NO APPARENT STAINING OBSERVED, NO APPARENT HC ODOR WITH EXCAVATION OR IN ANY OF THE OVM SAMPLES.

BOTTOM - BEDROCK (SANDSTONE) OK. YELL. ORANGE TO BROWN VERY HARD, NO NOTICABLE STAINING OBSERVED, HC ODOR DETECTED WITH OVM SAMPLE.

BEDROCK BOTTOM

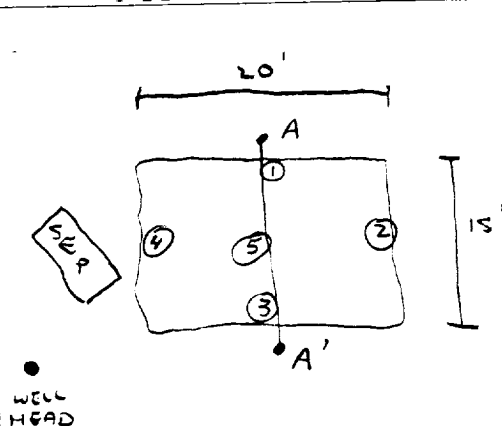
CLOSED

SCALE  
  
 0 FT

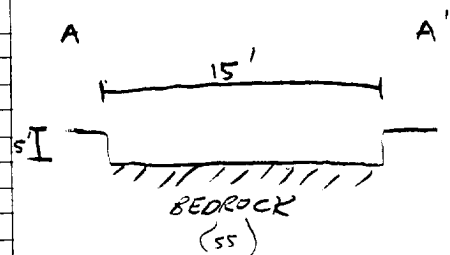
## FIELD 418.1 CALCULATIONS

TIME	SAMPLE I.D.	LAB No:	WEIGHT (g)	mL. FREON	DILUTION	READING	CALC. ppm
1145	(4) E3'	TPH-2033	5	20	1:1	5	ND

PIT PERIMETER	OVM RESULTS	PIT PROFILE
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SAMPLE ID	FIELD HEADSPACE PID (ppm)
1 E3'	0.0
2 E3'	0.0
3 E3'	0.0
4 E3'	14.6
5 E6'	87.1



LAB SAMPLES		
SAMPLE ID	ANALYSIS	TIME

TRAVEL NOTES: CALLOUT: \_\_\_\_\_ ONSITE: 9/14/98

# 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:	4 @ 3'	Date Analyzed:	09-14-98
Project Location:	Jicarilla BR E # 14	Date Reported:	09-14-98
Laboratory Number:	TPH-2033	Sample Matrix:	Soil

Parameter	Result, mg/kg	Detection Limit, mg/kg
Total Recoverable Petroleum Hydrocarbons	ND	20

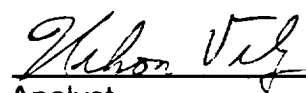
ND = Not Detectable at stated detection limits.


QA/QC:	QA/QC Sample TPH mg/kg	Duplicate TPH mg/kg	% *Diff.
	-----	-----	----
	236	220	7.02

\*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 Pit - CA631

  
Analyst

  
Review

# BLAGG ENGINEERING, INC.

P.O. Box 87, Bloomfield, New Mexico 87413

Phone: (505)632-1199 Fax: (505)632-3903

## Field TPH-Worksheet

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Max Characters:

Client:

Conoco

Project #:

Sample ID:

4 @ 3'

Date Analyzed:

09-14-98

Project Location:

Jicarilla BR E # 14

Date Reported:

09-14-98

Laboratory Number:

TPH-2033

Sample Matrix:

Soil

Sample Weight:

5.00 grams

Volume Freon:

20.00 mL

Dilution Factor:

1 (unitless)

TPH Reading:

5 mg/kg

TPH Result:

20.0 mg/kg

Reported TPH Result:

20 mg/kg

Actual Detection Limit:

20.0 mg/kg

Reported Detection Limit:

20 mg/kg

QA/QC:

Original  
TPH mg/kg

Duplicate  
TPH mg/kg

%  
Diff.

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236

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220

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7.02

Comments:

\*\*\*\*\*Max Characters\*\*\*\*\*

Comments:

Separator Pit - CA631

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

CA631

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

**ON-SITE SOIL REMEDIATION REPORT**

<b>Operator:</b> <u>Conoco, Inc.</u> <b>Telephone:</b> <u>(505) 324-5884</u>	
<b>Address:</b> <u>3315 Bloomfield Hwy., Farmington, NM 87401</u>	
<b>Facility or Well Name:</b> <u>JICARILLA BR E #14</u>	
<b>Location:</b> Unit or Qtr/Qtr Sec <u>D</u> Sec <u>17</u> T <u>25N</u> R <u>4W</u> County <u>RIO ARIZONA</u>	
<b>Land Type:</b> <u>RANGE</u>	
<b>Date Remediation Started:</b> <u>9/14/98</u> <b>Date Completed:</b> <u>4/19/99</u>	
<b>Remediation Method:</b> Landfarmed <input checked="" type="checkbox"/> <b>Approx. cubic yards</b> <u>40</u>	
Composted <input type="checkbox"/>	
Other <input type="checkbox"/>	
<b>Depth To Groundwater:</b> (pts.) <u>0</u>	<b>Final Closure Sampling:</b>
<b>Distance to an Ephemeral Stream</b> (pts.) <u>0</u>	<b>Sampling Date:</b> <u>4/15/99</u> <b>Time:</b> <u>1045</u>
<b>Distance to Nearest Lake, Playa, or Watering Pond</b> (pts.) <u>0</u>	<b>Sample Results:</b>
<b>Wellhead Protection Area:</b> (pts.) <u>0</u>	<b>Field Headspace (ppm)</b> <u>33.7</u>
<b>Distance To Surface Water:</b> (pts.) <u>0</u>	<b>TPH (ppm)</b> <u>2.6</u> <b>Method</b> <u>8015</u>
<b>RANKING SCORE (TOTAL POINTS):</b> <u>0</u>	<b>Other</b> _____
<b>I HEREBY CERTIFY THAT THE INFORMATION ABOVE IS TRUE AND COMPLETE TO THE BEST OF MY KNOWLEDGE AND BELIEF</b>	
<b>DATE</b> <u>4/19/99</u>	<b>PRINTED NAME</b> <u>Jeffrey C. Blagg, P.E. #11607</u>
<b>SIGNATURE</b> <u>Jeffrey C. Blagg</u>	<b>AND TITLE</b> <u>President</u>
<b>AFTER REVIEW OF THE SOIL REMEDIATION INFORMATION, ON-SITE REMEDIATION IS APPROVED IN ACCORDANCE TO THE JICARILLA APACHE TRIBE PIT CLOSURE ORDINANCE.</b>	
<b>APPROVED:</b> YES <input checked="" type="checkbox"/> NO <input type="checkbox"/> (REASON) _____	
<b>SIGNED:</b> <u>Ken C. M... ..</u>	<b>DATE:</b> <u>6-3-99</u>

CLIENT <u>CONOCO</u>	BLAGG ENGINEERING, INC. P.O. BOX 87, BLOOMFIELD, NM 87413 (505) 632-1199	LOCATION NO: <u>CA631</u> C.O.C. NO: <u>6652</u>
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# FIELD REPORT: LANDFARM/COMPOST PILE CLOSURE VERIFICATION

LOCATION: NAME <u>JICARILLA BR E</u> WELL #: <u>14</u> PITS: <u>SEP</u>	DATE STARTED: <u>4/15/99</u>
QUAD: <u>UNIT D</u> SEC: <u>17</u> TWP: <u>25N</u> RNG: <u>4W</u> PM: <u>NM</u> CNTY: <u>RA</u> ST: <u>NM</u>	DATE FINISHED: _____
STR/FOOTAGE <u>NW 1/4 NW 1/4</u> CONTRACTOR: <u>JVC</u>	ENVIRONMENTAL SPECIALIST: <u>NV</u>

## SOIL REMEDIATION:

REMEDICATION SYSTEM: LANDFARM APPROX. CUBIC YARDAGE: 40

LAND USE: RANGE LIFT DEPTH (ft): 1-1.5

## FIELD NOTES & REMARKS:

DEPTH TO GROUNDWATER >100' NEAREST WATER SOURCE: >1000' NEAREST SURFACE WATER >1000'

SMELL RANKING SCORE 0 NMCD TPH CLOSURE STD: 5000 PPM 9/14/98

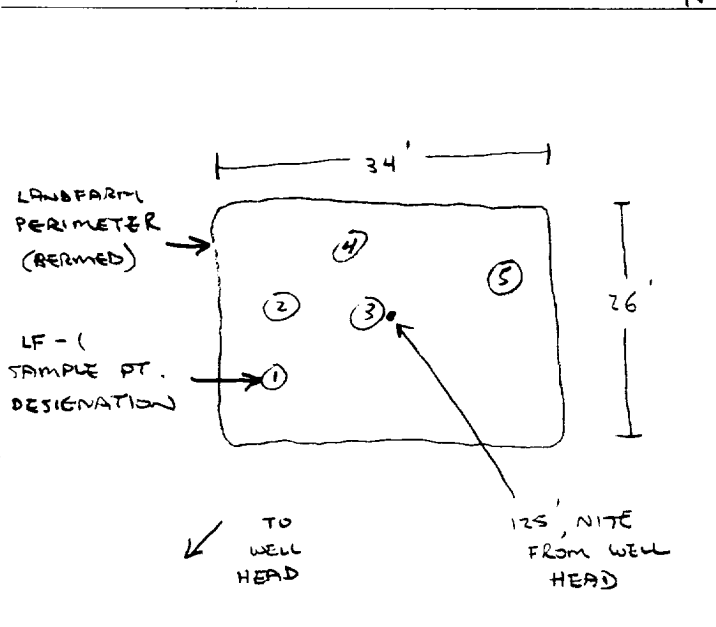
SOIL MOSTLY OR. YELL. ORANGE TO DUSKY RED SAND TO SILTY SAND, NON COHESIVE, SLIGHTLY MOIST, FIRM, SAMPLING DEPTHS RANGE FROM 6 TO 12 INCHES, NO APPARENT STAINING OBSERVED, SLIGHT HC ODOR DETECTED IN COMPOSITE OVM SAMPLE, COLLECTED 5 PT. COMPOSITE SAMPLE FOR LAB ANALYSIS.

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	33.7	LF-1	TPH (8015)	1045	2.6

## SCALE



TRAVEL NOTES: CALLOUT: NA ONSITE: 4/15/99

# ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

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

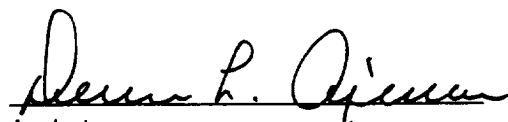
Client:	Blagg / CONOCO	Project #:	403410
Sample ID:	LF - 1	Date Reported:	04-19-99
Laboratory Number:	F045	Date Sampled:	04-15-99
Chain of Custody No:	6652	Date Received:	04-16-99
Sample Matrix:	Soil	Date Extracted:	04-16-99
Preservative:	Cool	Date Analyzed:	04-17-99
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

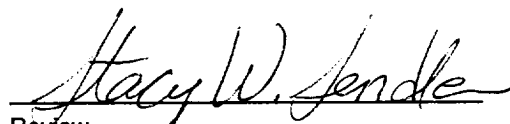
Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	2.4	0.2
Diesel Range (C10 - C28)	0.2	0.1
Total Petroleum Hydrocarbons	2.6	0.2

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: Jicarilla BR E #14 Landfarm. 5 Pt. Composite.

  
Analyst

  
Review



6652

[illegible]