

Denny E. Faust
DEPUTY OIL & GAS INSPECTOR

AUG 24 1999

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

CA 634

OK

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

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 BR B # 4
Location: Unit or Qtr/Qtr Sec D Sec 34 T 25N R 4W County RIO ARriba
Pit Type: Separator Dehydrator Other COMPRESSOR
Land Type: RANGE

Pit Location:
(Attach diagram)

Pit dimensions: length 17', width 16', depth 7'
Reference: wellhead X, other
Footage from reference: 23'
Direction from reference: 27 Degrees X East of 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>0</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)	<u>0</u>
Greater than 1000 feet	(0 points)	

RANKING SCORE (TOTAL POINTS): 0

Date Remediation Started: _____ Date Completed: 9/15/98

Remediation Method: Excavation ☒ Approx. cubic yards 50
(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

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 8' (PIT BOTTOM)

Sample date 9/15/98 Sample time 0915

Sample Results

Soil: Benzene	(ppm)	_____	Water: Benzene	(ppb)	_____
Total BTEX	(ppm)	_____	Toluene	(ppb)	_____
Field Headspace	(ppm)	<u>0.0</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 9/15/98 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 ☒ NO _____ (REASON) _____

SIGNED: Kenn C. Marshall DATE: 10-1-98

SOCIAL SECURITY

CLIENT:CONOCO

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

LOCATION NO: LAC34

C.D.C. NO:

FIELD REPORT: CLOSURE VERIFICATION

PAGE No: 1 of 1

LOCATION: NAME: TICARILLA BR 8 WELL #: 4 PIT: COMPR.
QUAD/UNIT: D SEC: 34 TWP: 25N RNG: 4W PM: NM CNTY: RA ST: NM
QTR/FOOTAGE: 1170'FWL|925'FWL CONTRACTOR: JVC

DATE STARTED: 9/15/98
DATE FINISHED: _____
ENVIRONMENTAL SPECIALIST: NV

EXCAVATION APPROX. 17 FT. x 16 FT. x 7 FT. DEEP. CUBIC YARDAGE: 50
DISPOSAL FACILITY: ON-SITE REMEDIATION METHOD: LANDFARM
LAND USE: RANGE LEASE: CONTRACT #66 FORMATION: PC

FIELD NOTES & REMARKS:
DEPTH TO GROUNDWATER: >100' NEAREST WATER SOURCE: >1000' NEAREST SURFACE WATER: >1000'
NMDCD RANKING SCORE: 0 NMDCD TPH CLOSURE STD.: 5000 PPM
SOIL AND EXCAVATION DESCRIPTION:

OK. YELL. ORANGE SAND, NON COHESIVE SLIGHTLY MOIST FIRM, NO APPARENT STAINING OR HC ODOR OBSERVED DETECTED W/LN EXCAVATION, NO APPARENT HC ODOR IN ANY OF THE DUM SAMPLES.

CHECK ONE :
☒ PIT ABANDONED
☐ STEEL TANK INSTALLED
☐ FIBERGLASS TANK INSTALLED

SCALE
0 FT

CLOSED

TIME

SAMPLE I.D.

LAB No:

WEIGHT (g)

mL. FREON

DILUTION

READING

CALC. ppm

0915

⑤ @ 8'

TPH-7034

5

20

1:1

4

ND

OVM RESULTS

PIT PERIMETER

A N ↓ DOWN SLOPE DIRECTION

WELL HEAD ●

16'
A

①

④ ③ ②

⑦

17'

FIELD HEADSPACE PID (ppm)

SAMPLE ID

1 e 4'

2 e 4'

3 e 4'

4 e 4'

5 e 8'

0.0

0.0

0.0

0.0

0.0

LAB SAMPLES

SAMPLE ID

ANALYSIS

TIME

PIT PROFILE

A

17'

A'

7'

TRAVEL NOTES:

CALLOUT:

ONSITE: 9/15/98 - MORN.

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:	5 @ 8'	Date Analyzed:	09-15-98
Project Location:	Jicarilla BR B # 4	Date Reported:	09-15-98
Laboratory Number:	TPH-2034	Sample Matrix:	Soil

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

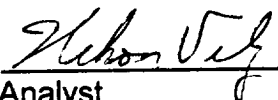
ND = Not Detectable at stated detection limits.

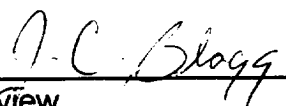
QA/QC:	QA/QC Sample TPH mg/kg	Duplicate TPH mg/kg	% *Diff.
	236	220	7.02

*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: Compressor Pit - CA634


Analyst


Review

BLAGG ENGINEERING, INC.

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

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

Field TPH-Worksheet

Max Characters:

Client:

Conoco

Project #:

Sample ID:

5 @ 8'

Date Analyzed:

09-15-98

Project Location:

Jicarilla BR B # 4

Date Reported:

09-15-98

Laboratory Number:

TPH-2034

Sample Matrix:

Soil

Sample Weight:

5.00 grams

Volume Freon:

20.00 mL

Dilution Factor:

1 (unitless)

TPH Reading:

4 mg/kg

TPH Result:

16.0 mg/kg

Reported TPH Result:

16 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.

236

220

7.02

Comments:

*****Max Characters*****

Comments:

Compressor Pit - CA634

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

CA634

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 BR B #4</u>	
Location: Unit or Qtr/Qtr Sec <u>D</u> Sec <u>34</u> T5N R4W County <u>LIO ARIZONA</u>	
Land Type: <u>RANGE</u>	
Date Remediation Started: <u>9/15/98</u> Date Completed: <u>5/14/99</u>	
Remediation Method: Landfarmed <input checked="" type="checkbox"/> Approx. cubic yards <u>50</u> Composted <input type="checkbox"/> Other <input type="checkbox"/>	
Depth To Groundwater: (pts.) <u>0</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>0</u>	Final Closure Sampling: Sampling Date: <u>5/12/99</u> Time: <u>1425</u> Sample Results: Field Headspace (ppm) <u>0.0</u> TPH (ppm) <u>1.1</u> Method <u>8015</u> Other _____
I HEREBY CERTIFY THAT THE INFORMATION ABOVE IS TRUE AND COMPLETE TO THE BEST OF MY KNOWLEDGE AND BELIEF	
DATE <u>5/14/99</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) _____	
SIGNED: <u>Ken C. Mamm</u> DATE: <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>CA634</u> C.D.C. NO: <u>6661</u>
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FIELD REPORT: LANDFARM/COMPOST PILE CLOSURE VERIFICATION

LOCATION NAME: <u>JICARILLA BR</u>	B WELL #: <u>4</u>	PITS: <u>COMPR.</u>	DATE STARTED: <u>5/12/99</u>
QUAD/UNIT: <u>D</u>	SEC: <u>34</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 NW1/4	NW1/4	CONTRACTOR: <u>JVC</u>	ENVIRONMENTAL SPECIALIST: <u>NV</u>

SOIL REMEDIATION:

REMEDICATION SYSTEM: LANDFARM APPROX. CUBIC YARDAGE: 50

LAND USE: RANGE LIFT DEPTH (ft): 2

FIELD NOTES & REMARKS:

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

WELL PAINING SCORE: 0 NMDCD TPH CLOSURE STD: 5000 PPM 9/15/98

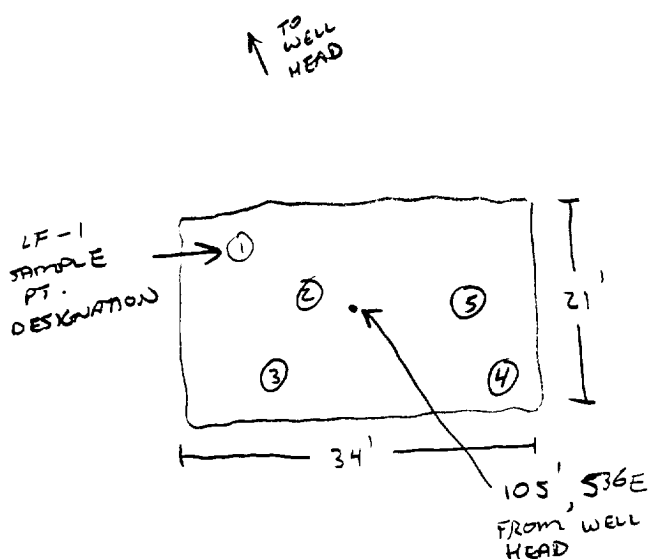
MOD. TO DR. YELL. BROWN SAND, NON COHESIVE, SLIGHTLY MOIST, FIRM, SAMPLING DEPTHS RANGE FROM 8 TO 18 INCHES, NO APPARENT DISCOLORATION OBSERVED, NO APPARENT HC ODOR DETECTED W/IN OVM SAMPLE, COLLECTED 5 PT. COMPOSITE SAMPLE FOR LAB ANALYSIS.

CLOSED

FIELD 418.1 CALCULATIONS

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

SKETCH/SAMPLE LOCATIONS ↑ N



OVM RESULTS

LAB SAMPLES

SAMPLE ID	FIELD HEADSPACE PID (ppm)	SAMPLE ID	ANALYSIS	TIME	RESULTS
LF-1	0.0	LF-1	TPH (8015)	1425	1.1

SCALE

0 FT

TRAVEL NOTES: CALLOUT: NA ONSITE: 5/12/99

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified Nonhalogenated Volatile Organics Total Petroleum Hydrocarbons

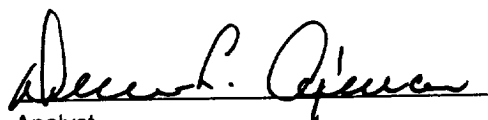
Client:	Blagg / CONOCO	Project #:	403410
Sample ID:	LF - 1	Date Reported:	05-14-99
Laboratory Number:	F226	Date Sampled:	05-12-99
Chain of Custody No:	6661	Date Received:	05-13-99
Sample Matrix:	Soil	Date Extracted:	05-13-99
Preservative:	Cool	Date Analyzed:	05-14-99
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	1.1	0.2
Diesel Range (C10 - C28)	ND	0.1
Total Petroleum Hydrocarbons	1.1	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 B #4 Landfarm. 5 Pt. Composite.


Analyst


Review

6661

ENVIROTECH INC.

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA Method 8015 Modified Nonhalogenated Volatile Organics Total Petroleum Hydrocarbons

Quality Assurance Report

Client:	QA/QC	Project #:	N/A
Sample ID:	05-14-TPH QA/QC	Date Reported:	05-14-99
Laboratory Number:	F221	Date Sampled:	N/A
Sample Matrix:	Methylene Chloride	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	05-14-99
Condition:	N/A	Analysis Requested:	TPH

	I-Cal Date	I-Cal RF:	C-Cal RF:	% Difference	Accept. Range
Gasoline Range C5 - C10	03-15-99	4.4525E-002	4.4401E-002	0.28%	0 - 15%
Diesel Range C10 - C28	03-15-99	4.1817E-002	4.1709E-002	0.26%	0 - 15%

Blank Conc. (mg/L - mg/Kg)	Concentration	Detection Limit
Gasoline Range C5 - C10	ND	0.2
Diesel Range C10 - C28	ND	0.1
Total Petroleum Hydrocarbons	ND	0.2

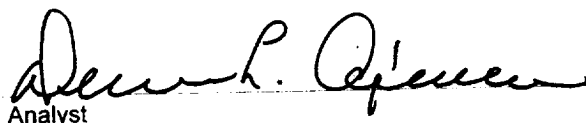
Duplicate Conc. (mg/Kg)	Sample	Duplicate	% Difference	Accept. Range
Gasoline Range C5 - C10	1.2	1.2	0.0%	0 - 30%
Diesel Range C10 - C28	ND	ND	0.0%	0 - 30%

Spike Conc. (mg/Kg)	Sample	Spike Added	Spike Result	% Recovery	Accept. Range
Gasoline Range C5 - C10	1.2	250	251	100%	75 - 125%
Diesel Range C10 - C28	ND	250	250	100%	75 - 125%

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: QA/QC for samples F221 - F226 and F237 - F238.


Analyst


Review