

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 581

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

PIT REMEDIATION AND CLOSURE REPORT

Apache
Operator: CONOCO, INC. Telephone: (505) 324-5884
Address: 3315 Bloomfield Hwy., Farmington, NM 87401
Facility or Well Name: AXI APACHE K # 4
Location: Unit or Qtr/Qtr Sec M Sec 3 T 26N R 5W County RIO ARriba
Pit Type: Separator ☒ Dehydrator ☐ Other ☐
Land Type: RANGE

Pit Location:
(Attach diagram)

Pit dimensions: length 21', width 15', depth 7'
Reference: wellhead ☒, other ☐
Footage from reference: 85'
Direction from reference: 37 Degrees ☐ East of North ☒
☒ West of South ☐

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)	
Greater than 1000 feet	(0 points)	<u>0</u>

RANKING SCORE (TOTAL POINTS): 0

CA581

SEP PIT

Date Remediation Started: _____ Date Completed: 7/7/98

Remediation Method: Excavation ☒ Approx. cubic yards 60
ck 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 1/2'

Sample date 7/7/98 Sample time 1035

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 7/7/98 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: Ken C. M...ll DATE: 9-9-98

CLIENT CONOCOBLAGG ENGINEERING, INC.
P.O. BOX 87, BLOOMFIELD, NM 87413
(505) 632-1199LOCATION NO: CA581

C.D.C. NO. _____

FIELD REPORT: CLOSURE VERIFICATION

PAGE No: 1 of 1LOCATION: NAME: AXI APACHE K WELL #: 4 PIT: SEP
QUAD/UNIT: M SEC: 3 TWP: 26N RNG: 5W PM: NM CNTY: RA ST: NM
SITE FOOTAGE: SW/4 SW/4 CONTRACTOR: JVCDATE STARTED: 7/7/98
DATE FINISHED: _____ENVIRONMENTAL
SPECIAL ST: NVEXCAVATION APPROX 21 FT. x 15 FT x 7 FT. DEEP. CUBIC YARDAGE: 60DISPOSAL FACILITY: ON-SITE REMEDIATION METHOD: LANDFARMLAND USE: RANGE LEASE CONTRACT #151 FORMATION: MU/PCFIELD NOTES & REMARKS: PIT LOCATED APPROXIMATELY 85 FT N37W FROM WELLHEAD.DEPTH TO GROUNDWATER: >100' NEAREST WATER SOURCE: >1000' NEAREST SURFACE WATER: >1000'MAGNETIC RANGING SCORE: 0 NMED. TPH CLOSURE LTD: 5000 RPM

SOIL AND EXCAVATION DESCRIPTION

CHECK ONE

☒ PIT ABANDONED☐ STEEL TANK INSTALLED☐ FIBERGLASS TANK INSTALLED

DK. YELL. ORANGE SAND FROM GRADE TO 4' BELOW GRADE, NON COHESIVE, SLIGHTLY MOIST, FIRM, NO APPARENT STAINING OR HC ODOR OBSERVED, SOME BEDROCK (SANDSTONE) OBSERVED WITH INTERVAL, FROM 4' BELOW GRADE TO PIT BOTTOM - MOD. GRAIN BEDROCK (SANDSTONE) VERY HARD, NO APPARENT HC ODOR IN ANY OF THE OVM SAMPLES.

BOTTOM - MED GRAY BEDROCK (SANDSTONE), VERY HARD.

BEDROCK
BOTTOM

CLOSED

FIELD 4181 CALCULATIONS

TIME	SAMPLE ID.	LAB No.	WEIGHT (g)	mL FREON	DILUTION	READING	CALC. ppm
1035	① @ 3 1/2'	TPH-2001	5	20	1:1	4	ND

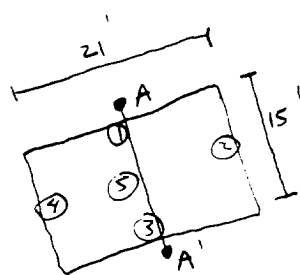
SCALE

0 FT

PIT PERIMETER

OVM
RESULTS

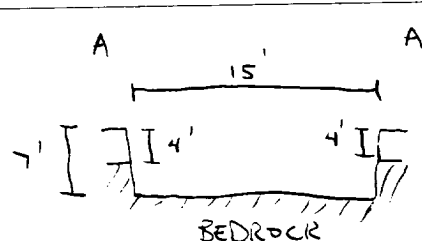
PIT PROFILE

TO
WELL
HEAD

SAMPLE	FIELD HEADSPACE P.D. (pans)
1 @ 3 1/2'	0.0
2 @ 3'	0.0
3 @ 4'	0.0
4 @ 3 1/2'	0.0
5 @ 7'	32.4

LAB SAMPLES

SAMPLE	ANALYSIS	TIME



TRAVEL NOTES:

CALLOUT: 7/2/98ONSITE: 7/2/98

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
Sample ID: 1 @ 3.5'
Project Location: Axi Apache K # 4
Laboratory Number: TPH-2001

Project #:
Date Analyzed: 07-07-98
Date Reported: 07-07-98
Sample Matrix: Soil

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

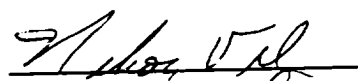
ND = Not Detectable at stated detection limits.

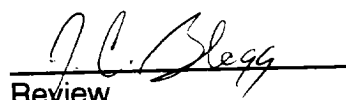
QA/QC:	QA/QC Sample TPH mg/kg	Duplicate TPH mg/kg	% *Diff.
	1684	1712	1.65

*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 - CA581


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:

Sample ID:

Project Location:

Laboratory Number:

CONOCO

1 @ 3.5'

Axi Apache K # 4

TPH-2001

Project #:

Date Analyzed:

Date Reported:

Sample Matrix:

07-07-98

07-07-98

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.
	----- 1684	----- 1712	----- 1.65

Comments: *****Max Characters*****

Comments: Separator Pit - CA581

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

CAS83

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: AXI APACHE K #4

Location: Unit or Qtr/Qtr Sec M Sec 3 T 26N R 5W County RIO ARriba

Land Type: RANGE

Date Remediation Started: 7/7/98 Date Completed: 5/14/99

Remediation Method: Landfarmed ✓ Approx. cubic yards 60

Composted

Other

Depth To Groundwater: (pts.) 0

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): 0

Final Closure Sampling:

Sampling Date: 5/12/99 Time: 0930

Sample Results:

Field Headspace (ppm) 0.0

TPH (ppm) 0.9 Method 8015

Other

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

DATE 5/14/99 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: K. C. M... DATE: 6-3-99

CLIENT <u>CONOCO</u>	BLAGG ENGINEERING, INC. P.O. BOX 87, BLOOMFIELD, NM 87413 (505) 632-1199	LOCATION NO. <u>CA583</u> C.O.C. NO. <u>6657</u>
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FIELD REPORT: LANDFARM/COMPOST PILE CLOSURE VERIFICATION

LOCATION NAME: <u>AXI APACHE</u>	K WELL #: <u>4</u>	PITS: <u>SEP.</u>	DATE STARTED: <u>5/12/99</u>
QUAD UNIT <u>M</u> SEC: <u>3</u> TWP: <u>26N</u> RNG: <u>5W</u> PM: <u>NM</u> CNTY: <u>RA</u> ST: <u>NM</u>	DATE FINISHED: _____		ENVIRONMENTAL SPECIALIST: <u>NV</u>
DEPT. FOOTAGE: <u>SW1/4 SW1/4</u>	CONTRACTOR: <u>JVC</u>		

SOIL REMEDIATION:

REMEDICATION SYSTEM: LANDFARM APPROX. CUBIC YARDAGE: 60
 LAND USE: RANGE LIFT DEPTH (ft): 1-1.5

FIELD NOTES & REMARKS:

DEPTH TO GROUNDWATER: >100' NEAREST WATER SOURCE: >1000' NEAREST SURFACE WATER: >1000'
 NMEDD RAINING SCORE: 0 NMEDD TPH CLOSURE STD: 5000 PPM 7/7/98

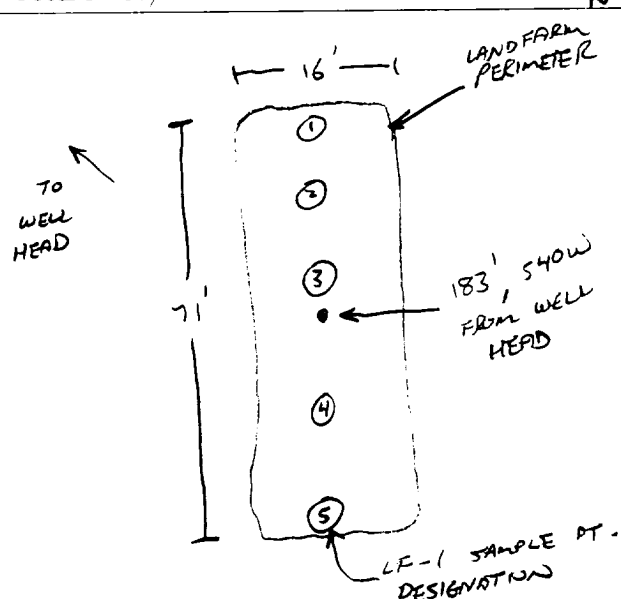
OK. YELL. ORANGE SAND w/ BEDROCK FRAGMENTS, NON COHESIVE, SLIGHTLY MOIST, FIRM,
 SAMPLING DEPTHS RANGE FROM 6 TO 12 INCHES, NO APPARENT DISCOLORATION
 OBSERVED, NO APPARENT HK ODOR DETECTED IN OVM SAMPLE, COLLECTED 5 FT.
 COMPOSITE SAMPLE FOR LAB ANALYSIS.

CLOSED

FIELD 4181 CALCULATIONS

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

SKETCH/SAMPLE LOCATIONS

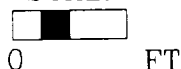


OVM RESULTS

LAB SAMPLES

SAMPLE ID	FIELD HEADSPACE PID (ppm)	SAMPLE ID	ANALYSIS	TIME	RESULTS
LF-1	0.0	LF-1	TPH (8015)	0930	0.9

SCALE



TRAVEL NOTES:	CALLOUT: <u>NA</u>	ONSITE: <u>5/12/99</u>
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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified Nonhalogenated Volatile Organics Total Petroleum Hydrocarbons

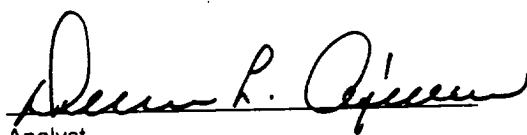
Client:	Blagg / CONOCO	Project #:	403410
Sample ID:	LF - 1	Date Reported:	05-14-99
Laboratory Number:	F222	Date Sampled:	05-12-99
Chain of Custody No:	6657	Date Received:	05-13-99
Sample Matrix:	Soil	Date Extracted:	05-13-99
Preservative:	Cool	Date Analyzed:	05-14-99
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	ND	0.2
Diesel Range (C10 - C28)	0.9	0.1
Total Petroleum Hydrocarbons	0.9	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: AXI Apache K #4 Landfarm. 5 Pt. Composite.


Analyst


Review

6657

[illegible]