

Terry L. Frost
DEPUTY OIL & GAS INSPECTOR

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

CA580 OK-RSK
SUBMIT 1 COPY TO
NATURAL RESOURCE DEPT
AND OIL & GAS ADMINISTRATION

AUG 24 1999

PIT REMEDIATION AND CLOSURE REPORT

HAPP OVER
Operator: CONOCO, INC. Telephone: (505) 324-5884
Address: 3315 Bloomfield Hwy., Farmington, NM 87401
Facility or Well Name: AXI APACHE K #5
Location: Unit or Qtr/Qtr Sec H Sec 10 T 26N R 5W County RIO ARIZONA
Pit Type: Separator ☒ Dehydrator ☐ Other ☐
Land Type: RANGE

Pit Location: Pit dimensions: length 21', width 15', depth 8'
(Attach diagram) Reference: wellhead ☒, other ☐
Footage from reference: 93'
Direction from reference: 25 Degrees ☒ East of North ☒
West 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)	<u>0</u>
	Greater than 1000 feet	(0 points)	

RANKING SCORE (TOTAL POINTS): 0

CA580

SEP. PIT

Date Remediation Started: _____

Date Completed: 7/7/98Remediation Method: Excavation ☒
(check all appropriate sections)Approx. cubic yards 80Landfarmed ☒

Insitu Bioremediation _____

Other _____

Remediation Location:

Onsite ☒ Offsite _____(i.e. landfarmed onsite,
name and location of
offsite facility)General Description of Remedial Action: Excavation, EXCAVATION MOSTLY BEDROCK,THEREFORE NO TPH ANALYSIS WAS CONDUCTED. RISK ASSESSED.

Groundwater Encountered:

No ☒ Yes _____ Depth _____

Final Pit:

Closure Sampling:

(if multiple samples,
attach sample results
and diagram of sample
locations and depths)Sample location see Attached DocumentsSample depth 1' (NORTH SIDEWALK).Sample date 7/7/98 Sample time 1005

Sample Results

Soil: Benzene (ppm) _____

Water: Benzene (ppb) _____

Total BTEX (ppm) _____

Toluene (ppb) _____

Field Headspace (ppm) 165.0

Ethylbenzene (ppb) _____

TPH (ppm) NA

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)

RA Attached

SIGNED:

Jeffrey C. Blagg

DATE:

9-9-98

CLIENT: CONOCO	BLAGG ENGINEERING, INC. P.O. BOX 87, BLOOMFIELD, NM 87413 (505) 632-1199	LOCATION NO: CAS80 C.D.C. NO: _____
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FIELD REPORT: CLOSURE VERIFICATION

LOCATION: NAME: AXI APACHE K WELL #: 5 PIT: SEP. QUAD/UNIT: H SEC: 10 TWP: 26N RNG: SW PM, NM CNTY: RA ST: NM DTP/FOOTAGE: SE14 NE14 CONTRACTOR: JVC	DATE STARTED: 7/2/98 DATE FINISHED: _____ ENVIRONMENTAL SPECIALIST: NV
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EXCAVATION APPROX. 21 FT. x 15 FT. x 8 FT. DEEP. CUBIC YARDAGE: 50

DISPOSAL FACILITY: ON-SITE REMEDIATION METHOD: LANDFARM

LAND USE: RANGE LEASE: CONTRACT #151 FORMATION: PC

PIT NOTES & REMARKS: PIT LOCATED APPROXIMATELY 93 FT. N25E FROM WELLHEAD

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

MODE PANING SCOPE: 0 MODE TPH CLOSURE SET: 5000 PPM

SOIL AND EXCAVATION DESCRIPTION:

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

EXCAVATION CONSIST OF MOSTLY BEDROCK / SHALE / LIMESTONE VERY HARD
 CLAY TO MOD. YELL. BROWN IN COLOR, VERY HARD FROM 3' BELOW
 GRADE TO PIT BOTTOM, NO APPARENT HC DOOR OR TRAILING OBSERVED
 THIS EXCAVATION, STRONG HC DOOR IN NORTH SIDE WALL DUE TO PLATE
 ONLY ALL OUM SAMPLES COLLECTED FROM BEDROCK, THEREFORE NO
 THE RESULTS WERE CALCULATED.

EXCAVATION MUSTLY BEDROCK

RISK ASSESSED

SCALE

0 FT

PIT PERIMETER

TO WELL HEAD

FIELD 418.1 CALCULATIONS

TIME	SAMPLE ID	LAB No.	WEIGHT (g)	mL FREON	DILUTION	READING	CALC. ppm
1005							

OVM RESULTS

SAMPLE ID	FIELD HEADSPACE PD (ppm)
1 @ 4'	165.0
2 @ 4'	41.0
3 @ 4'	0.0
4 @ 4'	0.0
5 @ 8'	105.9

PIT PROFILE

BEDROCK
SHALE / LIMESTONE

LAB SAMPLES

SAMPLE	ANALYSIS	TIME

TRAVEL NOTES: CALLOUT: 7/2/98 ONSITE: 7/7/98

Well Name:**Well Site location:****Pit Type:****Producing Formation:****Pit Category:****Horizontal Distance to Surface Water:****Vicinity Groundwater Depth:****Axi Apache K # 5**

Unit H, Sec. 10, T26N, R4W

Separator pit

Non Vulnerable

> 1000 ft.

> 100 ft.

RISK ASSESSMENT (Non Vulnerable Area)

Pit remediation activities were terminated when trackhoe encountered shale/sandstone bedrock at 8 feet below grade.

No past or future threat to surface water or groundwater is likely based on the following considerations:

1. Past production fluids were contained locally by a relatively shallow shale/sandstone bedrock located 8 feet below grade. Groundwater levels located on or close to the well pad are estimated to be at a much greater depth below shale/sandstone bedrock.
2. Topographic information does not indicate off site lateral fluid migration near the earthen pit.
3. Daily discharge into the earthen pit has been terminated (pit abandoned). Prior discharge into the pit is believed to be under 5 barrels per day.
4. Well site located within the **non-vulnerable area** and is approximately 2.0 miles south of the nearest vulnerable area boundary (Cereza Creek wash).

(Refer to Vigas Canyon Quadrangle, New Mexico - Rio Arriba County, 7.5 Minute Series (Topographic), 1963, (vulnerable area boundary developed by Mr. William C. Olson, Hydrogeologist, Environmental Bureau, New Mexico Oil Conservation Division).

Based upon the information given, we conclude that the subsurface lateral impact from the earthen pit is very limited and that the shale/sandstone bottom creates enough of an impermeable barrier as to subdue impact to groundwater below it (please refer to AMOCO's report "Post Excavation Pit Closure Investigation Summary, July, 1995", with cover letter dated November 30, 1995). CONOCO requests pit closure approval on this location.

CA565

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

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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: AXI APACHE K #5
Location: Unit or Qtr/Qtr Sec H Sec 10 T 26N R 5W County RIO ARIZONA
Land Type: RANGE

Date Remediation Started: 7/7/98 Date Completed: 5/14/99
Remediation Method: Landfarmed ☒ Approx. cubic yards 80
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: 0830
Sample Results:
Field Headspace (ppm) 0.0
TPH (ppm) 1.2 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 ☒ 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>CAS65</u> C.O.C. NO: <u>6656</u>
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FIELD REPORT: LANDFARM/COMPOST PILE CLOSURE VERIFICATION

LOCATION NAME: <u>AXI APACHE</u>	K WELL #: <u>5</u>	PITS: <u>SEP.</u>	DATE STARTED: <u>5/12/99</u>
QUAD UNIT: <u>H</u>	SEC: <u>10</u>	TWP: <u>26N</u>	RNG: <u>5W</u>
PMNM CNTY: <u>RA</u>	ST: <u>NM</u>	DATE FINISHED: _____	
STR/FOOTAGE: <u>SE/4 NE/4</u>	CONTRACTOR: <u>JUC</u>	ENVIRONMENTAL SPECIALIST: <u>NU</u>	

SOIL REMEDIATION:

REMEDICATION SYSTEM: LANDFARM

APPROX. CUBIC YARDAGE: 80

LAND USE: RANGE

LIFT DEPTH (ft): 1-1.5

FIELD NOTES & REMARKS:

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

NMOC RANKING SCORE: 0 NMOC TPH CLOSURE STD: 5000 PPM 7/7/98

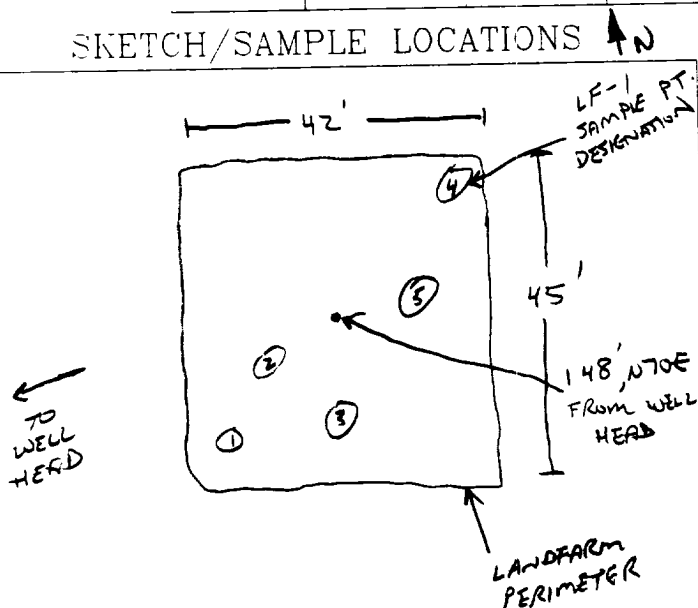
MOSTLY OK. YELL. BROWN SILTY SAND W/ SHALE FRAGMENTS, NOW COHESIVE TO COHESIVE, SLIGHTLY MOIST, FIRM SAMPLING DEPTHS RANGE FROM 6 TO 12 INCHES, NO APPARENT DISCOLORATION OBSERVED, NO APPARENT HC OR DR DETECTED IN OVM SAMPLE, COLLECTED 5 PT. COMPOSITE SAMPLE FOR LAB ANALYSIS.

CLOSED

FIELD 4181 CALCULATIONS

SAMP. 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	TPH (8015)	0830	1.2

SCALE



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
Sample ID: LF - 1
Laboratory Number: F221
Chain of Custody No: 6656
Sample Matrix: Soil
Preservative: Cool
Condition: Cool and Intact


Project #: 403410
Date Reported: 05-14-99
Date Sampled: 05-12-99
Date Received: 05-13-99
Date Extracted: 05-13-99
Date Analyzed: 05-14-99
Analysis Requested: 8015 TPH

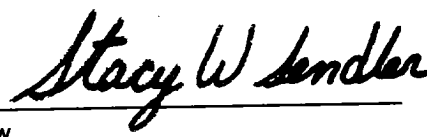
Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	1.2	0.2
Diesel Range (C10 - C28)	ND	0.1
Total Petroleum Hydrocarbons	1.2	0.2

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 #5 Landfarm. 5 Pt. Composite.


Analyst


Review

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