

JICARILLA APACHE TRIBE

ENVIRONMENTAL PROTECTION OFFICE

P.O. BOX 507
DULCE, NEW MEXICO 87528

SUBMIT ONE COPY
TO NATURAL
RESOURCE DEPT
AND OIL-GAS
ADMINISTRATION

PIT REMEDIATION AND CLOSURE REPORT

RECEIVED
APR 29 1999

OIL CON. DIV.
DIST. 3

Operator: PNM Gas Services (CONOCO) Telephone: 324-3764
Address: 603 W. Elm Street Farmington, NM 87401
Facility or Well Name: Axi Apache N12A
Location: Unit L Sec 11 T 25 N R 4 W County Rio Arriba
Pit Type: Separator ☒ Dehydrator ☐ Other _____
Land Type: Jicarilla Apache

Pit Location: Pit dimensions: Length 20 ' Width 20 ' Depth 3 '
(Attach diagram) Reference: Wellhead ☒ Other _____
Footage from reference: 93 '
Direction from reference: 68 degrees ☒ East or ☐ North
☐ West ☒ South

Depth to Ground Water:

~~Vertical distance from ground surface to~~
high water elevation of ground water)

Less than 50 feet (20 points)
50 feet to 99 feet (10 points)
Greater than 100 feet (0 points) 0

Wellhead Protection Area:

(Less than 200 feet from a private domestic water source,
or, less than 1,000 feet from all other water sources)

Yes (20 points)
No (0 points) 0

Distance to Surface Water:

(Horizontal distance to perennial lakes, ponds, rivers,
streams, creeks, irrigation canals and ditches)

Less than 200 feet (20 points)
200 feet to 1,000 feet (10 points)
Greater than 100 feet (0 points) 0

Distance to Ephemeral Stream (dry wash):

(Horizontal distance to all downgradient streams having a width
of at least 10 feet)

Less than or equal to 100 feet (10 points)
Greater than 100 feet (0 points) 0

Distance to Nearest Lake, Playa, or Watering Pond:

(Horizontal distance to all downgradient lakes, playas,
and livestock or wildlife water ponds)

Less than or equal to 100 feet (10 points)
Greater than 100 feet (0 points) 0

RANKING SCORE (TOTAL POINTS): 0

Date Remediation Started: 11/16/98

Date Completed: 12/6/98

Remediation Method: Excavation ☒

Approx. Cubic Yards 822 ^{lt}

(Check all appropriate sections) Landfarmed ☒

Amount Landfarmed (cubic yds) 822 ^{lt}

Other

Remediation Location: Onsite ☒

(i.e., landfarmed onsite, name and location of offsite facility)

Offsite soils were transported to TNT Commercial Landfarm on Hwy. 537

General Description of Remedial Action:

Removal of contaminated soil from all four sidewalls, as to get a below 100 ppm head space reading, walls are rock. Bottom is rock.

Final excavation dimensions: 13'(N&S)X18'(E&W)X3.5'(D)

Ground Water Encountered: No ☒ Yes ☐ Depth

Final Pit Closure Sampling:

Sample Location Composite of North, East, South, and West sidewalls (rock) and a three point composite of rock bottom.

(If multiple samples, attach sample result and diagram of sample locations and depths.)

Sample depth 3.5'

Sample date 11/16/98 Sample time 1340 1335

Sample Results

Soil: Benzene (ppm) 1600

Water: Benzene (ppb)

Total BTEX (ppm) 70.30

Toluene (ppb)

Field headspace (ppm) 627

Ethylbenzene (ppb)

TPH (ppm) 22000 Method 8015

Total Xylenes (ppb)

Vertical Extent (ft) 3.5'

Risk Analysis form attached: Yes ☒ No ☐

Ground Water Sample: Yes ☐ No ☒ (If yes, see attached Groundwater Site Summary Report)

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

DATE: 12-5-98

PRINTED NAME Ray Haston

SIGNATURE Ray Haston

TITLE Environmental Tech. III

AFTER REVIEW OF THE PIT CLOSURE INFORMATION, PIT CLOSURE IS APPROVED IN ACCORDANCE TO JICARILLA APACHE TRIBE PIT CLOSURE ORDINANCE:

APPROVED: YES ☒ NO ☐

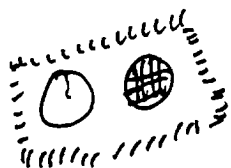
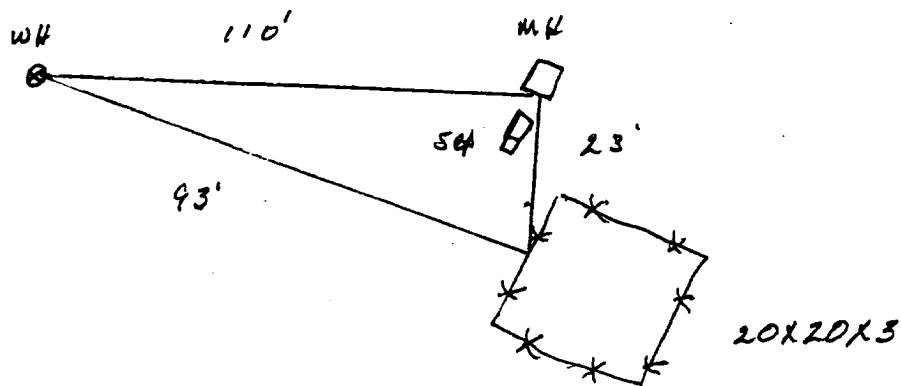
(REASON): R-A. Attached

SIGNATURE: Kent M... ..

DATE: 12-21-98

Avi Apache N12A
 (L) 11-25N-4W
 CONOCO
 11-16-98

↑
N



SEP

Ex. sampling

13'(N+S) x 13'(E+W) x 3.5'(D)

3.5' sample 348 ppm

west wall sample
at 3.5' - 394 ppm (Rock)

north wall sample
at 3.5' - 188 ppm (Rock)

east wall sample
at 3.5' - 987 ppm (Rock)

south wall sample
at 3.5' - 730 ppm (Rock)

5 point bottom composite sample
at 3.5' - 627 ppm (Rock)

not to scale

OFF: (505) 325-5667



LAB: (505) 325-1556

ANALYTICAL REPORT

Date: 02-Dec-98

Client:	PNM - Public Service Company of NM	Client Sample Info:	Axi Apache N-12A
Work Order:	9811073	Client Sample ID:	9811161335; 3pt. Comp. Bottom
Lab ID:	9811073-03A	Matrix:	SOIL
Project:	Jicarilla Pit Remediation	Collection Date:	11/16/98 1:35:00 PM
		COC Record:	5775

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
DIESEL RANGE ORGANICS		SW8015				Analyst: HR
T/R Hydrocarbons: C10-C28	22000	25		mg/Kg	10	11/25/98
BTEX		SW8020A				Analyst: HR
Benzene	1600	100		µg/Kg	100	11/24/98
Toluene	16000	200		µg/Kg	100	11/24/98
Ethylbenzene	4100	100		µg/Kg	100	11/24/98
m,p-Xylene	39000	200		µg/Kg	100	11/24/98
o-Xylene	9600	100		µg/Kg	100	11/24/98

70,300

70.300 ppm

Qualifiers:

PQL - Practical Quantitation Limit

ND - Not Detected at Practical Quantitation Limit

J - Analyte detected below Practical Quantitation Limit

B - Analyte detected in the associated Method Blank

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

Surr: - Surrogate

1 of 1

P.O. BOX 2606 • FARMINGTON, NM 87499

- TECHNOLOGY BLENDING INDUSTRY WITH THE ENVIRONMENT -

OFF: (505) 325-5667



LAB: (505) 325-1556

ANALYTICAL REPORT

Date: 02-Dec-98

Client:	PNM - Public Service Company of NM	Client Sample Info:	Axi Apache N-12A
Work Order:	9811073	Client Sample ID:	9811161340; 4pt. Comp. Walls
Lab ID:	9811073-04A	Matrix:	SOIL
Project:	Jicarilla Pit Remediation	Collection Date:	11/16/98 1:40:00 PM
		COC Record:	5775

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
DIESEL RANGE ORGANICS		SW8015				Analyst: HR
T/R Hydrocarbons: C10-C28	19000	25		mg/Kg	10	11/25/98
BTEX		SW8020A				Analyst: HR
Benzene	1500	100		µg/Kg	100	11/25/98
Toluene	15000	200		µg/Kg	100	11/25/98
Ethylbenzene	3800	100		µg/Kg	100	11/25/98
m,p-Xylene	34000	200		µg/Kg	100	11/25/98
o-Xylene	8800	100		µg/Kg	100	11/25/98

63100
63.100 ppm

Qualifiers:

PQL - Practical Quantitation Limit

ND - Not Detected at Practical Quantitation Limit

J - Analyte detected below Practical Quantitation Limit

B - Analyte detected in the associated Method Blank

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

Surr: - Surrogate

1 of 1

P.O. BOX 2606 • FARMINGTON, NM 87499

- TECHNOLOGY BLENDING INDUSTRY WITH THE ENVIRONMENT -



Environmental Services

Well Name:	Axi Apache N #12A
Well Legals:	Unit L, Sec 11, T25N, R4W
Pit Type:	Separator
Horizontal Distance to Surface Water:	Greater than 1,000 feet
Groundwater Depth:	Greater than 100 feet

RISK ANALYSIS

PNM requests closure of their former pit on the Axi Apache N #12A well site using a limited risk analysis based on the following conditions:

1. Groundwater is estimated to be at a depth of 358 feet based upon the elevation of the site and the elevation of the nearest "listed" or "named" wash. (Reference: Schmitz Ranch, NM series 7.5 minute topographic map.)
2. The site is located outside of the "vulnerable area" as defined under OCC Order No. R-7940-C.
3. PNM excavated 22 cubic yards of soil from the former pit. Subsurface lateral contamination has been remediated (see attached map and analytical results for the side wall profiles). Source removal minimizes the possibility of surface water contamination.
4. Rock was encountered at 3.5 feet below ground surface. Bedrock/sandstone provides a barrier between remaining contamination and groundwater. Vertical migration through bedrock or sandstone to groundwater is unlikely.
5. PNM excavated and performed remediation to the maximum depth and horizontal extent practicable.

PNM believes their former pit on the Axi Apache N #12A well site poses minimal threat to groundwater, human health and the environment based upon our past experience in excavating over 800 pits.