

District I

P.O. Box 1980, Hobbs, NM

District II

P.O. Drawer DD, Artesia, NM 88211

District III

1000 Rio Grande Rd, Las Alamos, NM 87801  
DEPUTY OIL & GAS INSPECTOR

State of New Mexico  
Energy, Minerals and Natural Resources Department

OIL CONSERVATION DIVISION

P.O. Box 2088

Santa Fe, New Mexico 87504-2088

SUBMIT 1 COPY TO  
APPROPRIATE  
DISTRICT OFFICE  
AND 1 COPY TO  
SANTA FE OFFICE

DEC 17 1998

## PTT REMEDIATION AND CLOSURE REPORT

Operator: QUESTAR ENERGY COMPANY Telephone: 326-9195

Address: POST OFFICE BOX 2330, FARMINGTON, NM 87499

Facility Or: AZTEC # 2E

Well Name

Location: Unit or Qtr/Qtr Sec G Sec 35 T 30 R 14 County SAN JUAN

Pit Type: Separator \_\_\_ Dehydrator \_\_\_ Other TANK DRAIN

Land Type: BLM \_\_\_, State \_\_\_, Fee \_\_\_, Other \_\_\_

Pit Location: Pit dimensions: length 12, width 12, depth 15  
(Attach diagram)

Reference: wellhead X, other \_\_\_

Footage from reference: 117'

Direction from reference: NORTH Degrees 45° East North \_\_\_  
of \_\_\_ West South \_\_\_

### Depth To Ground Water:

(Vertical distance from  
contaminants to seasonal  
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  
1000 feet from all other water sources)

RECEIVED  
JAN 22 1999  
OIL CON. DIV.  
DIST. 3

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 1000 feet (10 points)  
Greater than 1000 feet (0 points) 0

RANKING SCORE (TOTAL POINTS): 0

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OIL CON. DIV.  
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Less than 200 feet (20 points)  
200 feet to 1000 feet (10 points)  
Greater than 1000 feet (0 points) 0

RANKING SCORE (TOTAL POINTS): 0

Date Remediation Started: 11/8/94

Dated Completed: 10/23/95

Remediation Method: Excavation X  
(Check all appropriate sections)

Approx. cubic yards 80

Landfarmed X

Insitu Bioremediation     

Other LANDFARM INFORMATION- PLEASE SEE ATTACHED

Remediation Location: Onsite X Offsite       
(ie. landfarmed onsite, name and location of offsite facility)

General Description Of Remedial Action: EXCAVATED EARTHEN PIT AREA DIGGING IN CLAY SAND. EXCAVATED MATERIAL WAS SPREAD ON LOCATION IN SOIL FARMS. SOME EXTRA STOCKPILED

Ground Water Encountered: No X Yes      Depth     

Final Pit:  
Closure Sampling:  
(if multiple samples, attach sample results and diagram of sample locations and depths)

Sample location CENTER OF EARTHEN PIT

Sample depth 14-15'

Sample date 11/16/94

Sample time 15:00

Sample Results

Benzene(ppm) N/A

Total BTEX(ppm) N/A

Field headspace(ppm) 27 ppm(12')

TPH <5.0 ppm

Ground Water Sample: Yes      No X (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 Jan 19, 1998

SIGNATURE Shawn A. Adams

PRINTED NAME SHAWN A. ADAMS  
AND TITLE ENVIRONMENTAL CONSULTANT

10

[illegible]

OFF: (505) 325-8786



LAB: (505) 325-5667

**TOTAL PETROLEUM HYDROCARBONS**

Attn: *Shawn Adams*  
Company: *Contract Environmental Services, Inc.*  
Address: *P.O. Box 505*  
City, State: *Kirtland, NM 87417-0505*

Date: 11/17/94  
Lab ID: 2194  
Sample No. 4021  
Job No. 2-1000

Project Name: *Questar Energy Company*  
Project Location: *AZTE - 900 Aztec #2E Pit Soil Clearance*  
Sampled by: SA Date: 11/16/94 Time: 15:00  
Analyzed by: DLA Date: 11/17/94  
Type of Sample: *Soil*

**Laboratory Analysis**

| <b>Laboratory Identification</b> | <b>Sample Identification</b>                                                    | <b>Total Petroleum Hydrocarbons</b> |
|----------------------------------|---------------------------------------------------------------------------------|-------------------------------------|
| 4021-2194                        | <i>Questar Energy Company</i><br><i>AZTE - 900 Aztec #2E Pit Soil Clearance</i> | < 5.0 mg/kg                         |

**Method** - EPA Method 418.1 Total Petroleum Hydrocarbons

Approved by: *[Signature]*  
Date: 11/17/94

DATE: 11/8/90

LOCATION: AZTEC #20

SEC 35 T30N R14W

NOTES:

TANK PIT EXCAVATED FIRST, USING

CAT BACKHOE 4500 REMOVED 25' DEEP

DUG OUT CONTAINING AND TESTED SOIL

AT 6' DEPT. SOIL 10' DEPT.

Depth Soil intervals

6' 2500

12' 27

BACKHOE SOIL SAMPLES AT START OF TANK

TOOK 4 OR 5 SOIL SAMPLES TO 1' IN

ANALYZED FOR TPH AND PCB U.S.

AT CRUSON LAB. AZTE-100 (ANALYZED TANK PIT

EXPLANATION)

[SOIL PPM]

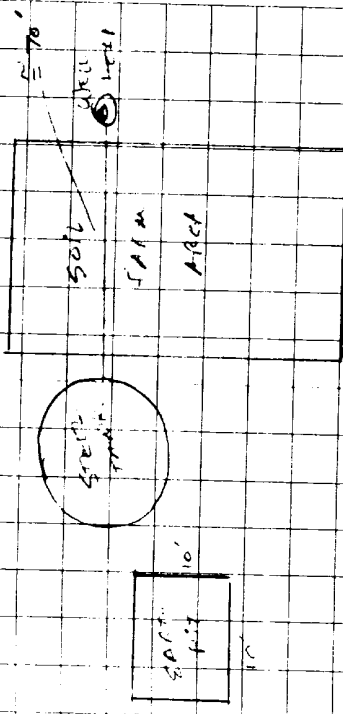
SOIL 2 SILTY SAND, SOME CLAY, CLAY

4 SOIL, STRONG IN OODOR

6

8

10. SOIL, STRONG IN OODOR



Spilled out soil tank on surface.  
Tank final clearance soil sample 400-0415

[SOIL LOG]

1' - CLAY SAND, NO. 800, FINE GRAINED SAND,  
H.C. PLASTIC CLAY, SLIGHTLY MOIST, SOME  
HYDROCARBONS TO BE.

1' - CLAY SAND, LT. TAN, FINE GRAINED SAND,  
HIGH PLAST, SLIGHT MOIST, SLIGHTLY  
HYDROCARBONS TO BE.

DATE: 1/10/01

LOCATION: TWIN CREEK E.

FEDERAL CV'S

ANALYZE

NOTES: FINISH EXCAVATION AND  
SPREADING OF SOIL ON TWIN CREEK  
WELL. GOT APTER (TANK PIT)  
DEEPEN EXCAVATION, TAKE  
CLEANANCE SOIL SAMPLE 14'-15'

PIT - 900 (APRIL 20 PIT) SOIL CLEANANCE

25.0 PPM

Questar Energy Company

**Landfarm Information - Aztec # 2E**

|          |                   |                        |               |                         |
|----------|-------------------|------------------------|---------------|-------------------------|
| 10/23/95 | <u>Sample No.</u> | <u>Description</u>     | <u>Method</u> | <u>Results (PPM)</u>    |
|          | Azte - 300        | Soil Farm Clearance S. | 418.1         | Gas < 5.0<br>Die 780.2  |
|          | Azte - 301        | Soil Farm Clearance S. | 418.1         | Gas < 5.0<br>Die 1461.8 |
|          | Azte - 302        | Soil Farm Clearance N. | 8015 M        | Gas < 5.0<br>Die 649.2  |



OFF: (505) 325-8786



LAB: (505) 325-5667

### TOTAL PETROLEUM HYDROCARBONS

Attn: Shawn Adams  
Company: Contract Environmental Services, Inc.  
Address: P.O. Box 505  
City, State: Kirtland, NM 87417

Date: 30-Oct-95  
COC No.: 3189  
Sample No. 8881  
Job No. 2-1000

Project Name: **Questar Energy Corporation - Aztec #2E**  
Project Location: **AZTE-300 Soil Farm Clearance**  
Sampled by: SA Date: 23-Oct-95 Time: 15:46  
Analyzed by: DC Date: 24-Oct-95  
Type of Sample: Soil

#### Laboratory Analysis

| Analyte                  | Result | Units of Measure | Detection Limit | Units of Measure |
|--------------------------|--------|------------------|-----------------|------------------|
| Gasoline Range (C5 - C9) | < 5.0  | mg/kg            | 5.0             | mg/kg            |
| Diesel Range (C10 - C28) | 780.2  | mg/kg            | 5.0             | mg/kg            |
|                          | TOTAL  | 780.2            |                 | mg/kg            |

#### Quality Assurance Report

GRO QC No.: 0429-STD  
DRO QC No.: 0430-STD

#### Calibration Check

| Analyte                  | Method Blank | Units of Measure | True Value | Analyzed Value | % Diff | Limit |
|--------------------------|--------------|------------------|------------|----------------|--------|-------|
| Gasoline Range (C5 - C9) | < 1          | ppm              | 1,351      | 1,450          | 7.3    | 15%   |
| Diesel Range (C10 - C28) | < 5          | ppm              | 2,000      | 2,073          | 3.6    | 15%   |

#### Matrix Spike

| Analyte                | 1 - Percent Recovered | 2 - Percent Recovered | Limit    | %RSD | Limit |
|------------------------|-----------------------|-----------------------|----------|------|-------|
| Gasoline Range (C5-C9) | 104                   | 106                   | (70-130) | 1    | 20%   |
| Diesel Range (C10-C28) | 86                    | 84                    | (70-130) | 2    | 20%   |

Method - SW-846 EPA Method 8015A mod. - Nonhalogenated Volatile Hydrocarbons by Gas Chromatography

Approved by: *Ja4*  
Date: 10/30/95

P. O. BOX 2606 • FARMINGTON, NM 87499

- TECHNOLOGY BLENDING INDUSTRY WITH THE ENVIRONMENT -

OFF: (505) 325-8786



LAB: (505) 325-5667

**TOTAL PETROLEUM HYDROCARBONS**

Attn: *Shawn Adams*  
 Company: *Contract Environmental Services, Inc.*  
 Address: *P.O. Box 505*  
 City, State: *Kirtland, NM 87417*

Date: *30-Oct-95*  
 COC No.: *3189*  
 Sample No. *8882*  
 Job No. *2-1000*

Project Name: *Questar Energy Corporation - Aztec #2E*  
 Project Location: *AZTE-301 Soil Farm Clearance*  
 Sampled by: SA Date: *23-Oct-95* Time: *15:46*  
 Analyzed by: DC Date: *24-Oct-95*  
 Type of Sample: *Soil*

**Laboratory Analysis**

| Analyte                  | Result | Units of Measure | Detection Limit | Units of Measure |
|--------------------------|--------|------------------|-----------------|------------------|
| Gasoline Range (C5 - C9) | < 5.0  | mg/kg            | 5.0             | mg/kg            |
| Diesel Range (C10 - C28) | 1461.8 | mg/kg            | 5.0             | mg/kg            |
|                          | TOTAL  | 1461.8           |                 | mg/kg            |

**Quality Assurance Report**GRO QC No.: *0429-STD*DRO QC No.: *0430-STD***Calibration Check**

| Analyte                  | Method Blank | Units of Measure | True Value | Analyzed Value | % Diff | Limit |
|--------------------------|--------------|------------------|------------|----------------|--------|-------|
| Gasoline Range (C5 - C9) | < 1          | ppm              | 1,351      | 1,450          | 7.3    | 15%   |
| Diesel Range (C10 - C28) | < 5          | ppm              | 2,000      | 2,073          | 3.6    | 15%   |

**Matrix Spike**

| Analyte                | 1 - Percent Recovered | 2 - Percent Recovered | Limit    | %RSD | Limit |
|------------------------|-----------------------|-----------------------|----------|------|-------|
| Gasoline Range (C5-C9) | 104                   | 106                   | (70-130) | 1    | 20%   |
| Diesel Range (C10-C28) | 86                    | 84                    | (70-130) | 2    | 20%   |

**Method** - SW-846 EPA Method 8015A mod. - Nonhalogenated Volatile Hydrocarbons by Gas Chromatography

Approved by: *Jalt*  
 Date: *10/30/95*

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- TECHNOLOGY BLENDING INDUSTRY WITH THE ENVIRONMENT -

OFF: (505) 325-8786



LAB: (505) 325-5667

## TOTAL PETROLEUM HYDROCARBONS

Attn: **Shawn Adams**  
Company: **Contract Environmental Services, Inc.**  
Address: **P.O. Box 505**  
City, State: **Kirtland, NM 87417**

Date: **30-Oct-95**  
COC No.: **3189**  
Sample No.: **8883**  
Job No.: **2-1000**

Project Name: **Questar Energy Corporation - Aztec #2E**

Project Location: **AZTE-302 Soil Farm Clearance**

Sampled by: **SA**

Date: **23-Oct-95** Time: **15:46**

Analyzed by: **DC**

Date: **30-Oct-95**

Type of Sample: **Soil**

### Laboratory Analysis

| Analyte                  | Result       | Units of Measure | Detection Limit | Units of Measure |
|--------------------------|--------------|------------------|-----------------|------------------|
| Gasoline Range (C5 - C9) | < 5.0        | mg/kg            | 5.0             | mg/kg            |
| Diesel Range (C10 - C28) | 649.2        | mg/kg            | 5.0             | mg/kg            |
|                          | <b>TOTAL</b> | <b>649.2</b>     |                 | <b>mg/kg</b>     |

### Quality Assurance Report

GRO QC No.: **0429-STD**

DRO QC No.: **0430-STD**

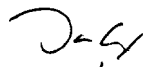
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| Analyte                  | Method Blank | Units of Measure | True Value | Analyzed Value | % Diff | Limit |
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