

District I  
P.O. Box 1980, Hobbs, NM  
District II  
P.O. Drawer DD, Artesia, NM 88211  
District III  
1000 Rio Brazos Rd, Aztec, NM 87410

State of New Mexico  
Energy, Minerals and Natural Resources Department

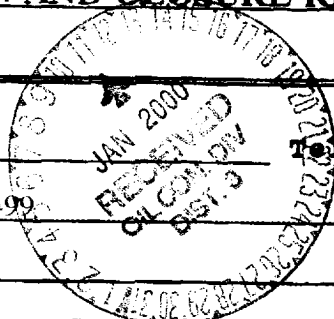
OIL CONSERVATION DIVISION  
P.O. Box 2088  
Santa Fe, New Mexico 87504-2088

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

(Revised 3/9/94)

## PIT REMEDIATION AND CLOSURE REPORT

OK



Operator: Questar Energy Company Telephone: (505) 326-9195  
Address: P.O. Box 2330 Farmington, NM 87499  
Facility Or: Butte I-E  
Well Name \_\_\_\_\_  
Location: Unit or Qtr/Qtr Sec M Sec/8 T 30N R 13W County San Juan  
Pit Type: Separator X Dehydrator \_\_\_\_\_ Other \_\_\_\_\_  
Land Type: BLM \_\_\_\_\_, State \_\_\_\_\_, Fee \_\_\_\_\_, Other Private

Pit Location: Pit dimensions: length 20', width 20', depth 5'  
(Attach diagram) Reference: wellhead X, other \_\_\_\_\_  
Footage from reference: 90'  
Direction from reference: 15 Degrees \_\_\_\_\_ East North X  
of  
X West South \_\_\_\_\_

|   |   |
|---|---|
| <b>Depth To Ground Water:</b><br>(Vertical distance from<br>contaminants to seasonal<br>high water elevation of<br>ground water)                          | Less than 50 feet (20 points)<br>50 feet to 99 feet (10 points)<br>Greater than 100 feet (0 Points) <u>0</u>      |
| <b>Wellhead Protection Area:</b><br>(Less than 200 feet from a private<br>domestic water source, or; less than<br>1000 feet from all other water sources) | Yes (20 points)<br>No (0 points) <u>0</u>   |
| <b>Distance To Surface Water:</b><br>(Horizontal distance to perennial<br>lakes, ponds, rivers, streams, creeks,<br>irrigation canals and ditches)        | Less than 200 feet (20 points)<br>200 feet to 1000 feet (10 points)<br>Greater than 1000 feet (0 points) <u>0</u> |
| <b>RANKING SCORE (TOTAL POINTS):</b> <u>0</u>   |   |

Date Remediation Started: January 15, 1998 Date Completed: February 2, 1998

Remediation Method: Excavation  Approx. cubic yards 44  
(Check all appropriate sections) Landfarmed  Insitu Bioremediation   
Other \_\_\_\_\_

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

General Description Of Remedial Action: Landfarmed on location, closed 2/2/98.

Ground Water Encountered: No  Yes  Depth \_\_\_\_\_

Final Pit: Sample location West wall  
Closure Sampling: \_\_\_\_\_  
(if multiple samples, attach sample results and diagram of sample locations and depths)

Sample depth 3'

Sample date 1/15/98 Sample time 1041

Sample Results

Benzene (ppm) \_\_\_\_\_

Total BTEX (ppm) \_\_\_\_\_

Field headspace (ppm) 1.4

TPH ND

Ground Water 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 8-24-99

SIGNATURE Phil Emig

PRINTED NAME AND TITLE

Phil Emig Senior Operator

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

FORM APPROVED  
Budget Bureau No. 1004-0135  
Expires: March 31, 1993

**SUNDRY NOTICES AND REPORTS ON WELLS**

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir.  
Use "APPLICATION FOR PERMIT—" for such proposals

5. Lease Designation and Serial No.  
**14-20-151-9**

6. If Indian, Allottee or Tribe Name

**SUBMIT IN TRIPLICATE**

7. If Unit or CA, Agreement Designation

**NA**

1. Type of Well  
 Oil Well  Gas Well  Other

8. Well Name and No.

**Butte 1-E**

2. Name of Operator  
**Questar Energy Company**

9. API Well No.  
**30-045-25390**

3. Address and Telephone No.  
**P.O. Box 2330, Farmington, New Mexico 87499 (505) 326 - 9195**

10. Field and Pool, or Exploratory Area  
**Basin Dakota**

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

11. County or Parish, State  
**San Juan**

**Quad. M, Section 8, Township 30N, Range 13W**

12. CHECK APPROPRIATE BOX(es) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

| TYPE OF SUBMISSION                                    | TYPE OF ACTION   |
|---|--|
| <input type="checkbox"/> Notice of Interest           | <input type="checkbox"/> Abandonment                         |
| <input checked="" type="checkbox"/> Subsequent Report | <input type="checkbox"/> Recompletion                        |
| <input type="checkbox"/> Final Abandonment Notice     | <input type="checkbox"/> Plugging Back                       |
|   | <input type="checkbox"/> Casing Repair                       |
|   | <input type="checkbox"/> Altering Casing                     |
|   | <input checked="" type="checkbox"/> Other <b>Pit Closure</b> |
|   | <input type="checkbox"/> Change of Plans                     |
|   | <input type="checkbox"/> New Construction                    |
|   | <input type="checkbox"/> Non-Routine Fracturing              |
|   | <input type="checkbox"/> Water Shut-Off                      |
|   | <input type="checkbox"/> Conversion to Injection             |
|   | <input type="checkbox"/> Dispose Water                       |

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)\*

The pit associated with the subject well has been closed and replaced with a fiberglass tank.  
Details of the closure are attached.

14. I hereby certify that the foregoing is true and correct

Signed *[Signature]*  
(This space for Federal or State office use)

Title *Senior Operator*

Date *8-24-99*

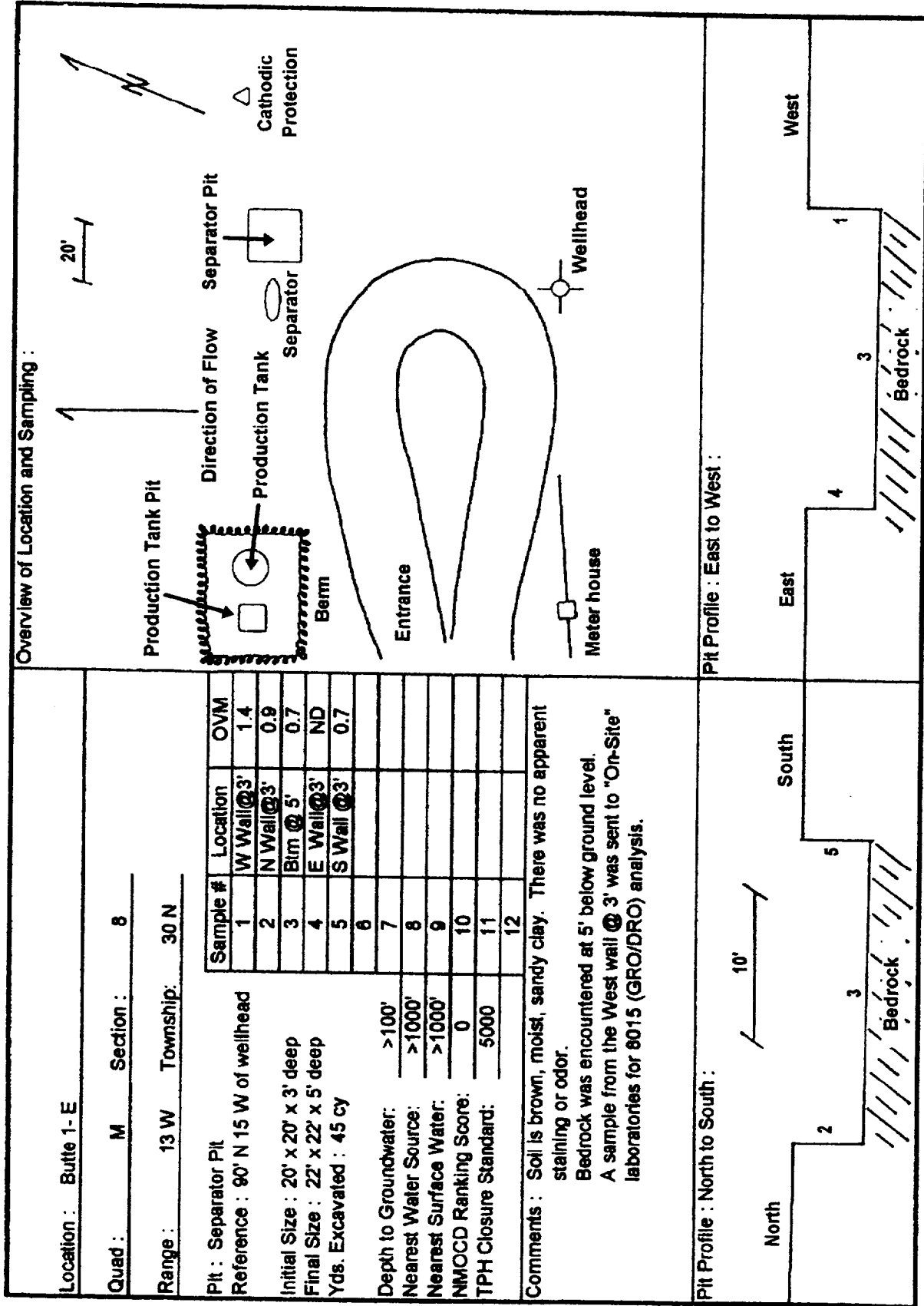
Approved by \_\_\_\_\_  
Conditions of approval, if any:

Title \_\_\_\_\_

Date \_\_\_\_\_

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

\*See instruction on Reverse Side



Location : Butte 1- E

Quad : M Section : 8

Range : 13 W Township: 30 N

Pit : Separator Pit

Reference : 90' N 15' W of wellhead

Initial Size : 20' x 20' x 3' deep

Final Size : 22' x 22' x 5' deep

Yds. Excavated : 45 cy

Depth to Groundwater: >100'

Nearest Water Source: >1000'

Nearest Surface Water: >1000'

NMOC Ranking Score: 0

TPH Closure Standard: 5000

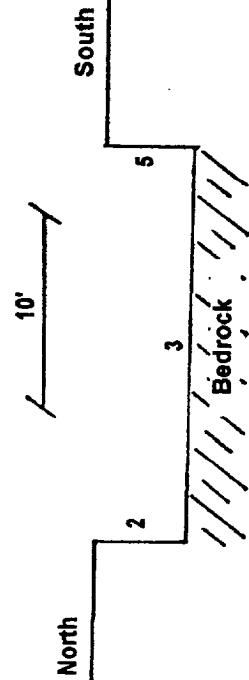
| Sample # | Location    | OVM |
|----------|-------------|-----|
| 1        | W Wall @ 3' | 1.4 |
| 2        | N Wall @ 3' | 0.9 |
| 3        | Btm @ 5'    | 0.7 |
| 4        | E Wall @ 3' | ND  |
| 5        | S Wall @ 3' | 0.7 |
| 6        |             |     |
| 7        |             |     |
| 8        |             |     |
| 9        |             |     |
| 10       |             |     |
| 11       |             |     |
| 12       |             |     |

Comments : Soil is brown, moist, sandy clay. There was no apparent staining or odor.

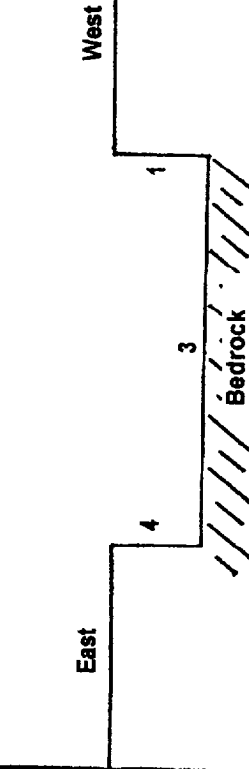
Bedrock was encountered at 5' below ground level.

A sample from the West wall @ 3' was sent to "On-Site" laboratories for 8015 (GRO/DRO) analysis.

Pit Profile : North to South :



Pit Profile : East to West :



OFF: (505) 325-5667



LAB: (505) 325-1556

**ANALYTICAL REPORT**

Attn: *Frank McDonald*  
 Company: *Cimmaron Oilfield Service*  
 Address: *P.O. Box 3235*  
 City, State: *Farmington, NM 87401*

Date: *26-Jan-98*  
 COC No.: *6809*  
 Sample No.: *17336*  
 Job No.: *2-1000*

Project Name: *Questar Energy - Butte 1-E*  
 Project Location: *Sep. Pit; W. Wall @ 3'*  
 Sampled by: *VC* Date: *15-Jan-98* Time: *10:41*  
 Analyzed by: *DC* GRO Date: *20-Jan-98*  
 Sample Matrix: *Soil* DRO Date: *23-Jan-98*

**Laboratory Analysis**

| Parameter                                | Results as Received | Unit of Measure | Limit of Quantitation | Unit of Measure |
|--|---------------------|-----------------|-----------------------|-----------------|
| <i>Gasoline Range Organics (C5 - C9)</i> | ND                  | mg/kg           | 0.5                   | mg/kg           |
| <i>Diesel Range Organics (C10 - C28)</i> | ND                  | mg/kg           | 5                     | mg/kg           |

ND - Not Detected at Limit of Quantitation

**Quality Assurance Report**

GRO QC No.: 0554-STD  
 DRO QC No.: 0555-STD

**Continuing Calibration Verification**

| Parameter                       | Method Blank | Unit of Measure | True Value | Analyzed Value | RPD | RPD Limit |
|---------------------------------|--------------|-----------------|------------|----------------|-----|-----------|
| <i>Gasoline Range (C5 - C9)</i> | ND           | ppb             | 1,801      | 1,907          | 5.7 | 15%       |
| <i>Diesel Range (C10 - C28)</i> | ND           | ppm             | 200        | 183            | 9.1 | 15%       |

**Matrix Spike**

| Parameter                     | 1 - Percent Recovered | 2 - Percent Recovered | Limit    | RPD | RPD Limit |
|-------------------------------|-----------------------|-----------------------|----------|-----|-----------|
| <i>Gasoline Range (C5-C9)</i> | 86                    | 80                    | (80-120) | 6   | 20%       |
| <i>Diesel Range (C10-C28)</i> | 92                    | 94                    | (75-125) | 2   | 20%       |

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

Approved by: *[Signature]*  
 Date: *1/27/98*

**P.O. BOX 2606 • FARMINGTON, NM 87499**

- TECHNOLOGY BLENDING INDUSTRY WITH THE ENVIRONMENT -



**Overview of Landfarm and Sampling :**

20'

North

Production Tank

Separator

Fiberglass Pit

Wellhead

| Sample # | Location | OVM |
|----------|----------|-----|
| 1        | Comp 1   | 0   |
| 2        |          |     |
| 3        |          |     |
| 4        |          |     |
| 5        |          |     |
| 6        |          |     |
| 7        |          |     |
| 8        |          |     |
| 9        |          |     |
| 10       |          |     |
| 11       |          |     |
| 12       |          |     |

Location : Butte 1-E

Quad : M Section : 8

Township: 30N Range: 13W

Pit : Separator

Reference : 150' N50E  
Of wellhead

Size : 35'x35'x1' deep

Yds : 21 cubic yards

1 - 5 - Point Composite

Comments : Damp sandy silt no HC odor or staining, large chunks of sand stone mixed with soil.  
0"-1" Light brown, dry crust, sandy  
1"-8" Damp, sandy silt, brown to grey with clay streaks

Environmental Specialist :



**ANALYTICAL REPORT**

Attn: *Frank McDonald*  
 Company: *Cimmaron Oilfield Service*  
 Address: *P.O. Box 3235*  
 City, State: *Farmington, NM 87401*

Date: *3-Feb-98*  
 COC No.: *6842*  
 Sample No.: *17458*  
 Job No.: *2-1000*

Project Name: **Questar Energy - Butte 1-E**  
 Project Location: **Landfarm**  
 Sampled by: *BS* Date: *2-Feb-98* Time: *12:00*  
 Analyzed by: *DC* GRO Date: *2-Feb-98*  
 Sample Matrix: *Soil* DRO Date: *2-Feb-98*

**Laboratory Analysis**

| Parameter                                | Results as Received | Unit of Measure | Limit of Quantitation | Unit of Measure |
|--|---------------------|-----------------|-----------------------|-----------------|
| <i>Gasoline Range Organics (C5 - C9)</i> | ND                  | mg/kg           | 0.5                   | mg/kg           |
| <i>Diesel Range Organics (C10 - C28)</i> | 34                  | mg/kg           | 5                     | mg/kg           |

ND - Not Detected at Limit of Quantitation

**Quality Assurance Report**

GRO QC No.: 0554-STD  
 DRO QC No.: 0555-STD

**Continuing Calibration Verification**

| Parameter                       | Method Blank | Unit of Measure | True Value | Analyzed Value | RPD | RPD Limit |
|---------------------------------|--------------|-----------------|------------|----------------|-----|-----------|
| <i>Gasoline Range (C5 - C9)</i> | ND           | ppb             | 1,801      | 1,685          | 6.7 | 15%       |
| <i>Diesel Range (C10 - C28)</i> | ND           | ppm             | 200        | 195            | 2.4 | 15%       |

**Matrix Spike**

| Parameter                     | 1 - Percent Recovered | 2 - Percent Recovered | Limit    | RPD | RPD Limit |
|-------------------------------|-----------------------|-----------------------|----------|-----|-----------|
| <i>Gasoline Range (C5-C9)</i> | 62                    | 57                    | (70-130) | 8   | 20%       |
| <i>Diesel Range (C10-C28)</i> | 95                    | 95                    | (75-125) | 0   | 20%       |

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

Approved by: *[Signature]*  
 Date: *2/3/98*

P.O. BOX 2606 • FARMINGTON, NM 87499

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