

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

OK

PIT REMEDIATION AND CLOSURE REPORT

Operator : Questar Energy Company Telephone: (505) 326-9195

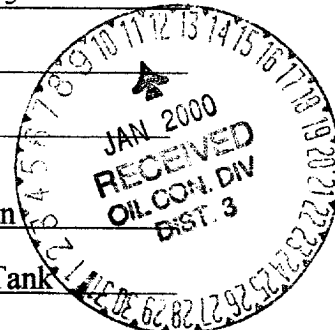
Address: P.O. Box 2330 Farmington, NM 87499

Facility Or: Butte 1-R
Well Name

Location: Unit or Qtr/Qtr Sec E Sec 19 T 30N R 13W County San Juan

Pit Type: Separator _____ Dehydrator _____ Other Separator/Production Tank

Land Type: BLM X State _____ Fee _____ Other _____



Pit Location: Pit dimensions: Length 18 ft, width 25 ft, depth 12 ft

(Attach diagram)

Reference: wellhead X other _____

Footage from reference: 50 ft

Direction from reference: 15 Degrees X East North X
of
West South _____

Depth to Ground Water: >100 feet
(vertical distance from
contaminants to seasonal
highwater elevation of
ground water)

_____	Less than 50 feet	(20 points)	
_____	50 ft to 99 feet	(10 points)	
<u>X</u>	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)	
<u>X</u>	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 200 feet	(20 points)	
_____	200 feet to 1000 feet	(10 points)	
<u>X</u>	Greater than 1000 feet	(0 points)	<u>0</u>

P:\pits\PrC@.WK3

RANKING SCORE (TOTAL POINTS): 0

Date Remediation Started: 1/14/98 Date Completed: 1/29/99

Excavation _____ Approx. cubic yards 183

Landfarmed X Insitu Bioremediation _____

Other _____

Remediation Method: Onsite X Offsite _____

(Check all appropriate
sections)

General Description of Remedial Action : On 1/14/98, the pit was sampled at a depth of 12 feet. A soil sample was obtained from the center bottom of the pit at a depth of 12 feet utilizing U.S.E.P.A. protocol and sent to On Site Technologies, Ltd. for GRO/DRO and BTEX analysis. Results provided concentrations below NMOCD guidelines. The landfarm was tested on 1/29/99 and provided concentrations below NMOCD guidelines.

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 Bottom

Sample depth 12 feet

Sample date 1/14/98

Sample time 11:15

Sample Results

Benzene(ppm) 0.002

Total BTEX (PPM) 0.056

Field Headspace (ppm) 281

TPH 45

Ground Water Sample: Yes _____ No X (if yes, attach sample results)

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

DATE 1-4-00 PRINTED NAME PHIL EMIG

SIGNATURE Phil Emig and TITLE SR. OPERATOR

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
Budget Bureau No. 1004-0135
Expires: September 30, 1990

SUNDRY NOTICES AND REPORTS ON WELLS

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

SUBMIT IN TRIPLICATE

1. Type of Well: oil well gas well **X** other
2. Name of Operator: **Questar Energy Company**
3. Address of Operator: **P.O. Box 2330 Farmington, NM 87499**
4. Location of Well: (Footage, Sec., T., R., M., or Survey Description)
Unit E Sec. 19 T 30 N R 13 W

5. Lease Designation and Serial No.
SF-078977

6. If Indian, Allottee or Tribe Name

7. If Unit or CA, Agmt. Design.:

8. Well Name and No.:
Butte #1R

9. API Well No.:
30-045-26794

10. Field & Pool/Exploratory Area:
Basin Dakota

11. County or Parish, State:
San Juan, New Mexico

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

TYPE OF SUBMISSION

☐ Notice of Intent
☒ Subsequent Report
☐ Final Abandonment Notice

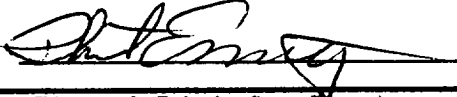
TYPE OF ACTION

☐ Abandonment ☐ Change of Plans
☐ Recompletion ☐ New Construction
☐ Plugging Back ☐ Non-Routine Fracturing
☐ Casing Repair ☐ Water Shut-Off
☐ Altering Casing ☐ Conversion to Injection
☒ Other: **Pit Closure**
(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:  **Phil Emig** Title: **Senior Operator**

Date: **1-4-00**

(This space for Federal or State office use)

Approved by _____ Title _____ Date _____
Conditions of approval, if any: _____

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

Location : <u>Butte 1- R</u>			
Quad : <u>E</u> Section : <u>19</u>			
Range : <u>13 W</u> Township: <u>30 N</u>			
Pit : Separator/Production Tank Reference : 50' N 15 E of wellhead Initial Size : 15' x 15' x 2' deep Final Size : 18' x 25' x 12' deep Yds. Excavated : 183 cy Depth to Groundwater: >100' Nearest Water Source: >1000' Nearest Surface Water: >1000' NMOCD Ranking Score: 0 TPH Closure Standard: 5000			
Sample #	Location	OVM	
1	C Btm @ 12'	281	
2	W Wall @ 6'	12.2	
3	S Wall @ 6'	18.3	
4	N Wall @ 6'	71.6	
5	E Wall @ 6'	62	
6			
7			
8			
9			
10			
11			
12			
Comments : 0' - 5' - Soil is moist, sand/clay. Gray staining is present along with a strong hydrocarbon odor. 5' - 12' - Soil is moist, compacted shale with light gray staining. A sample from the bottom @ 12' was sent to "On-Site" laboratories for 8015 (GRO/DRO) and 8020 (BTEX) analysis.			

Overview of Location and Sampling :

The map shows a rectangular pit with a berm on its left side. To the right of the pit is a separator and a wellhead. A large curved arrow indicates the 'Direction of Flow' from the pit towards the separator and wellhead. A scale bar indicates 20 feet. A north arrow points towards the top right. A road labeled 'To Landfarm' is shown on the left.

Pit Profile : North to South :

The profile shows a cross-section of the pit. The top is labeled 'North' and the bottom 'South'. The depth is marked as 10 feet. The profile shows a 1-foot bedrock layer at the bottom, followed by a layer of soil (labeled 3) and a layer of compacted shale (labeled 4). The total depth is 10 feet.

Pit Profile : East to West :

The profile shows a cross-section of the pit. The top is labeled 'East' and the bottom 'West'. The depth is marked as 10 feet. The profile shows a 1-foot bedrock layer at the bottom, followed by a layer of soil (labeled 5) and a layer of compacted shale (labeled 2). The total depth is 10 feet.

Environmental Specialist : VC

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: *16-Jan-98*
 COC No.: *6805*
 Sample No.: *17331*
 Job No.: *2-1000*

Project Name: *Questar Energy - Butte 1-R*
 Project Location: *Bottom @ 12'*
 Sampled by: *VC*
 Analyzed by: *DC/HR*
 Sample Matrix: *Soil*

Date: *14-Jan-98* Time: *11:15*
 GRO Date: *15-Jan-98*
 DRO Date: *16-Jan-98*

Laboratory Analysis

Parameter	Results as Received	Unit of Measure	Limit of Quantitation	Unit of Measure
<i>Gasoline Range Organics (C5 - C9)</i>	<i>1.0</i>	<i>mg/kg</i>	<i>0.5</i>	<i>mg/kg</i>
<i>Diesel Range Organics (C10 - C28)</i>	<i>44</i>	<i>mg/kg</i>	<i>5</i>	<i>mg/kg</i>

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>	<i>ND</i>	<i>ppb</i>	<i>1,801</i>	<i>1,633</i>	<i>9.8</i>	<i>15%</i>
<i>Diesel Range (C10 - C28)</i>	<i>ND</i>	<i>ppm</i>	<i>200</i>	<i>213</i>	<i>6.1</i>	<i>15%</i>

Matrix Spike

Parameter	1 - Percent Recovered	2 - Percent Recovered	Limit	RPD	RPD Limit
<i>Gasoline Range (C5-C9)</i>	<i>90</i>	<i>94</i>	<i>(80-120)</i>	<i>4</i>	<i>20%</i>
<i>Diesel Range (C10-C28)</i>	<i>97</i>	<i>100</i>	<i>(75-125)</i>	<i>4</i>	<i>20%</i>

Method: SW-846 EPA Method 8015A mod. - Nonhalogenated Volatile Hydrocarbons by Gas ChromatographyApproved by: *DC*Date: *1/16/98***P.O. BOX 2606 • FARMINGTON, NM 87499**

- TECHNOLOGY BLENDING INDUSTRY WITH THE ENVIRONMENT -

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: **20-Jan-98**
COC No.: **6805**
Sample No.: **17331**
Job No.: **2-1000**

Project Name: **Questar Energy - Butte 1-R**

Project Location: **Bottom @ 12'**

Sampled by: **VC** Date: **14-Jan-98** Time: **11:15**

Analyzed by: **DC** Date: **16-Jan-98**

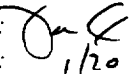
Sample Matrix: **Soil**

Laboratory Analysis

Parameter	Results as Received	Unit of Measure	Limit of Quantitation	Unit of Measure
<i>Benzene</i>	2	ug/kg	1	ug/kg
<i>Toluene</i>	5	ug/kg	2	ug/kg
<i>Ethylbenzene</i>	8	ug/kg	1	ug/kg
<i>m,p-Xylene</i>	24	ug/kg	2	ug/kg
<i>o-Xylene</i>	17	ug/kg	1	ug/kg
	<i>TOTAL</i>	56		ug/kg

ND - Not Detected at Limit of Quantitation

Method - SW-846 EPA Method 8020A Aromatic Volatile Organics by Gas Chromatography

Approved by: 
Date: **1/20/98**

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- TECHNOLOGY BLENDING INDUSTRY WITH THE ENVIRONMENT -

OFF: (505) 325-5667



LAB: (505) 325-1556

ANALYTICAL REPORT

Date: 23-Feb-99

Client:	Cimarron Oilfield Service	Client Sample Info:	Questar
Work Order:	9902023	Client Sample ID:	Butte 1R LF Comp #2
Lab ID:	9902023-01A	Matrix:	SOIL
Project:	Butte 1-R LF	Collection Date:	1/29/99 10:00:00 AM
		COC Record:	5690

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
DIESEL RANGE ORGANICS		SW8015				Analyst: HR
T/R Hydrocarbons: C10-C28	ND	25		mg/Kg	1	2/19/99
GASOLINE RANGE ORGANICS		SW8015				Analyst: HR
T/R Hydrocarbons: C6-C10	ND	0.18		mg/Kg	1	2/6/99

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

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