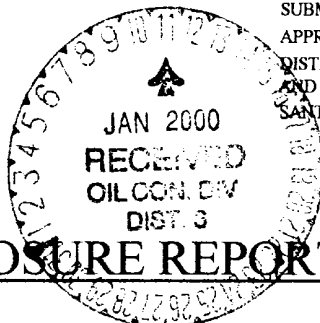


District I
P.O. Box 1980, Hobbs, NM
District II
P.O. Drawer DD, Artesia, NM 88211
District III
1000 Rio Brazos Rd, Aztec, NM 87410

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

PIT REMEDIATION AND CLOSURE REPORT

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

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

Facility Or: Knauff A #1E
Well Name

Location: Unit or Qtr/Qtr Sec P Sec 13 T 27N R 10W County San Juan

Pit Type: Separator X Dehydrator _____ Other _____

Land Type: BLM _____, State X, Fee _____, Other _____

Pit Location: Pit dimensions: Length 25 ft, width 25 ft, depth 13 ft
(Attach diagram)

Reference: wellhead X other _____

Footage from reference: 90 ft

Direction from reference: 60 Degrees _____ East North _____
of
X West South X

Depth to Ground Water:	<u>>100 feet</u>	_____	Less than 50 feet	(20 points)	
(vertical distance from		_____	50 ft to 99 feet	(10 points)	
contaminants to seasonal		<u>X</u>	Greater than 100 feet	(0 points)	<u>0</u>
highwater elevation of					
ground water)					

Wellhead Protection Area:		_____	Yes	(20 points)	
(less than 200 feet from a private		<u>X</u>	No	(0 points)	<u>0</u>
domestic water source, or: less than					
1000 feet from all other water sources).					

Distance to Surface Water:		_____	Less than 200 feet	(20 points)	
(Horizontal distance to perennial		_____	200 feet to 1000 feet	(10 points)	
lakes, ponds, rivers, streams, creeks,		<u>X</u>	Greater than 1000 feet	(0 points)	<u>0</u>
irrigation canals and ditches.)					

Date Remediation Started: 11/14/97 Date Completed: 1/28/99

Excavation _____ Approx. cubic yards 275

Landfarmed X Insitu Bioremediation _____

Other _____

Remediation Method: Onsite X Offsite _____

(Check all appropriate sections)

General Description of Remedial Action : On 11/14/97, the pit was excavated to a depth of 13 feet. A sample was obtained from the north wall of the pit at a depth of 10 feet utilizing U.S.E.P.A. protocol and sent to On Site Technologies, Ltd. for GRO/DRO and BTEX analysis. A sample was also obtained from the center bottom of the pit at a depth of 13 feet and submitted to On Site Technologies, Ltd. for GRO/DRO analysis. Results provided concentrations below NMOCD guidelines. On 1/28/99, the landfarm was tested 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 North Wall / Center Bottom

Sample depth 10 feet / 13 feet

Sample date 11/14/97

Sample time 15:18 / 14:36

Sample Results

Benzene(ppm) ND / NA

Total BTEX (PPM) 1.355 / NA

Field Headspace (ppm) 332 / 11.2

TPH 43.8 / ND

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 [Signature]

and TITLE Senior 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 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 P Sec. 13 T 27 N R 10 W

- 5. Lease Designation and Serial No.
NM 027
- 6. If Indian, Allottee or Tribe Name
- 7. If Unit or CA, Agmt. Design.:
- 8. Well Name and No.:
Knauff A #1E
- 9. API Well No.:
30-045-24480
- 10. Field & Pool/Exploratory Area:
Basin Dakota
- 11. County or Parish, State:
San Juan, New Mexico

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 Intent	<input type="checkbox"/> Abandonment <input type="checkbox"/> Change of Plans
<input checked="" type="checkbox"/> Subsequent Report	<input type="checkbox"/> Recompletion <input type="checkbox"/> New Construction
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Plugging Back <input type="checkbox"/> Non-Routine Fracturing
	<input type="checkbox"/> Casing Repair <input type="checkbox"/> Water Shut-Off
	<input type="checkbox"/> Altering Casing <input type="checkbox"/> Conversion to Injection
	<input checked="" type="checkbox"/> 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.)*

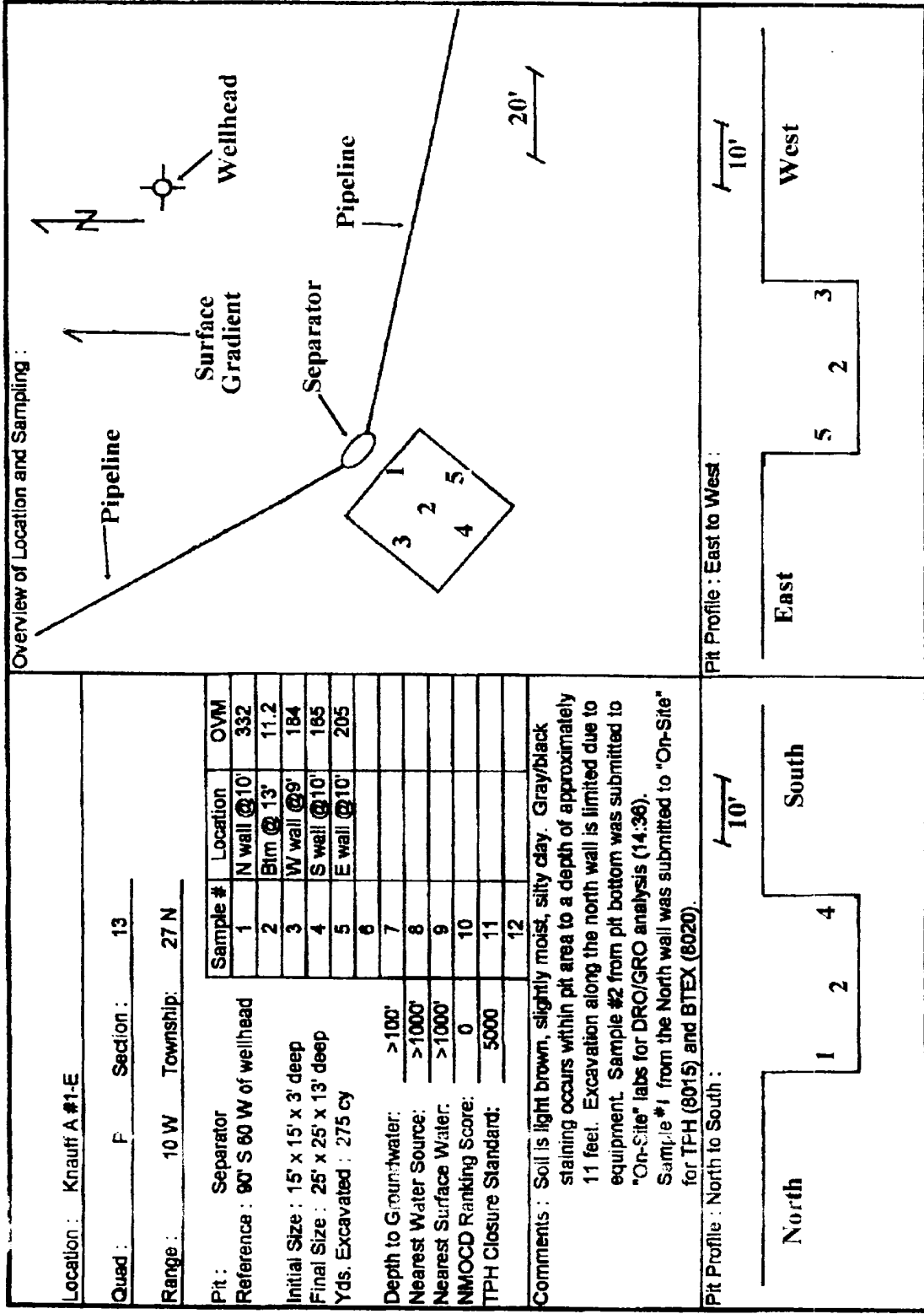
The pit associated with the subject well has been closed and replaced with a fiberglass tank. Details of the closure are attached.

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:



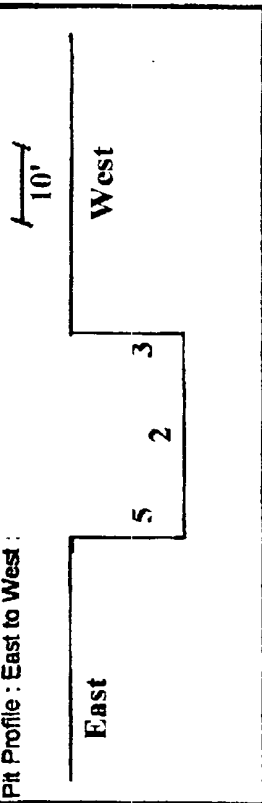
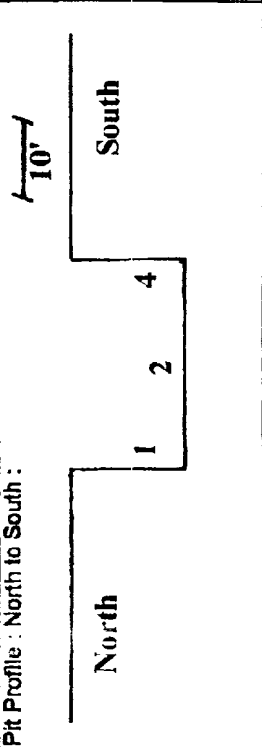
Location : Knauff A #1-E
 Quad : F Section : 13

Range : 10 W Township: 27 N

Sample #	Location	OVM
1	N wall @10'	332
2	Blm @ 13'	11.2
3	W wall @9'	184
4	S wall @10'	185
5	E wall @10'	205
6		
7		
8		
9		
10		
11		
12		

Pit : Separator
 Reference : 90' S 60 W of wellhead
 Initial Size : 15' x 15' x 3' deep
 Final Size : 25' x 25' x 13' deep
 Yds. Excavated : 275 cy
 Depth to Groundwater: >100'
 Nearest Water Source: >1000'
 Nearest Surface Water: >1000'
 NMOCD Ranking Score: 0
 TPH Closure Standard: 5000

Comments : Soil is light brown, slightly moist, silty clay. Gray/black staining occurs within pit area to a depth of approximately 11 feet. Excavation along the north wall is limited due to equipment. Sample #2 from pit bottom was submitted to "On-Site" labs for DRO/GRO analysis (14.36). Sample #1 from the North wall was submitted to "On-Site" for TPH (8015) and BTEX (6020).



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: *24-Nov-97*
 COC No.: *6582*
 Sample No.: *16878*
 Job No.: *2-1000*

Project Name: **Questar Energy - Knauff A #1-E Separator Pit**
 Project Location: **Center Bottom @ 13'**
 Sampled by: *FM* Date: *14-Nov-97* Time: *14:36*
 Analyzed by: *DC/HR* GRO Date: *20-Nov-97*
 Sample Matrix: *Soil* DRO Date: *20-Nov-97*

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	1,995	10.2	15%
<i>Diesel Range (C10 - C28)</i>	ND	ppm	200	207	3.4	15%

Matrix Spike

Parameter	1- Percent Recovered	2 - Percent Recovered	Limit	RPD	RPD Limit
<i>Gasoline Range (C5-C9)</i>	99	100	(80-120)	1	20%
<i>Diesel Range (C10-C28)</i>	93	108	(75-125)	12	20%

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

Approved by: *[Signature]*
 Date: *11/24/97*

P.O. BOX 2606 • FARMINGTON, NM 87409

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-Nov-97*
 COC No.: *6582*
 Sample No.: *16879*
 Job No.: *2-1000*

Project Name: **Questar Energy - Knauff A #1-E Separator Pit**
 Project Location: **North Wall @ 10'**

Sampled by: *FM* Date: *14-Nov-97* Time: *15:18*
 Analyzed by: *DC/HR* GRO Date: *24-Nov-97*
 Sample Matrix: *Soil* DRO Date: *18-Nov-97*

Laboratory Analysis

Parameter	Results as Received	Unit of Measure	Limit of Quantitation	Unit of Measure
<i>Gasoline Range Organics (C5 - C9)</i>	<i>13.8</i>	<i>mg/kg</i>	<i>12.5</i>	<i>mg/kg</i>
<i>Diesel Range Organics (C10 - C28)</i>	<i>30</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>1,866</i>	<i>3.5</i>	<i>15%</i>
<i>Diesel Range (C10 - C28)</i>	<i>ND</i>	<i>ppm</i>	<i>200</i>	<i>201</i>	<i>0.7</i>	<i>15%</i>

Matrix Spike

Parameter	1- Percent Recovered	2- Percent Recovered	Limit	RPD	RPD Limit
<i>Gasoline Range (C5-C9)</i>	<i>95</i>	<i>99</i>	<i>(80-120)</i>	<i>4</i>	<i>20%</i>
<i>Diesel Range (C10-C28)</i>	<i>110</i>	<i>113</i>	<i>(75-125)</i>	<i>2</i>	<i>20%</i>

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

Approved by: *[Signature]*
 Date: *11/26/97*

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: *24-Nov-97*
 COC No.: *6582*
 Sample No.: *16879*
 Job No.: *2-1000*

Project Name: ***Questar Energy - Knauff A #1-E Separator Pit***
 Project Location: ***North Wall @ 10'***
 Sampled by: *FM* Date: *14-Nov-97* Time: *15:18*
 Analyzed by: *DC* Date: *18-Nov-97*
 Sample Matrix: *Soil*

Laboratory Analysis

Parameter	Results as Received	Unit of Measure	Limit of Quantitation	Unit of Measure
<i>Benzene</i>	ND	ug/kg	25	ug/kg
<i>Toluene</i>	139	ug/kg	25	ug/kg
<i>Ethylbenzene</i>	110	ug/kg	25	ug/kg
<i>m,p-Xylene</i>	861	ug/kg	25	ug/kg
<i>o-Xylene</i>	245	ug/kg	25	ug/kg
	TOTAL	1355		ug/kg

ND - Not Detected at Limit of Quantitation

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

Approved by: *JGC*
 Date: *11/24/97*

<p>Overview of Landfarm and Sampling :</p>																																								
<p>Location : Knauff A #1E</p> <p>Quad : N Section : 13</p> <p>Township: 27N Range: 10W</p> <p>Pits : Separator & Production Tank</p> <p>Reference : 100' South of wellhead</p> <p>Size: 25' x 20' x 1' deep</p> <p>Yds : 514 cubic yards</p> <p>3 5 - Point Composite(s)</p>	<p>The diagram shows a Production Tank on the left, connected by a Pipeline to a Separator. A Wellhead is located to the right of the Separator. A North arrow is at the top. A Surface Gradient arrow points from the wellhead area towards the top right. A grid of sample locations is shown with numbers 1, 2, and 3 in a 3x3 arrangement. The word 'Landfarm' is written below the grid.</p>																																							
<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th>Sample #</th> <th>Location</th> <th>OVM</th> </tr> </thead> <tbody> <tr><td>1</td><td>Comp. 1</td><td>2</td></tr> <tr><td>2</td><td>Comp. 2</td><td>1</td></tr> <tr><td>3</td><td>Comp. 3</td><td>1</td></tr> <tr><td>4</td><td></td><td></td></tr> <tr><td>5</td><td></td><td></td></tr> <tr><td>6</td><td></td><td></td></tr> <tr><td>7</td><td></td><td></td></tr> <tr><td>8</td><td></td><td></td></tr> <tr><td>9</td><td></td><td></td></tr> <tr><td>10</td><td></td><td></td></tr> <tr><td>11</td><td></td><td></td></tr> <tr><td>12</td><td></td><td></td></tr> </tbody> </table>	Sample #	Location	OVM	1	Comp. 1	2	2	Comp. 2	1	3	Comp. 3	1	4			5			6			7			8			9			10			11			12			
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12																																								
<p>Comments: Soil is damp, gray sandy clay with no staining or hydrocarbon odor. A sample from Composite # 1 was sent to "On-Site Technologies, Ltd." for 8015 GRO/DRO analysis.</p>																																								
<p>Environmental Specialist : RB</p>																																								



ANALYTICAL REPORT

Date: 23-Feb-99

Client:	Cimarron Oilfield Service	Client Sample Info:	Questar
Work Order:	9902021	Client Sample ID:	Knauff 1E LF
Lab ID:	9902021-01A	Matrix:	SOIL
Project:	Knauff 1E LF	Collection Date:	1/29/99 11:00:00 AM
		COC Record:	5687

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

