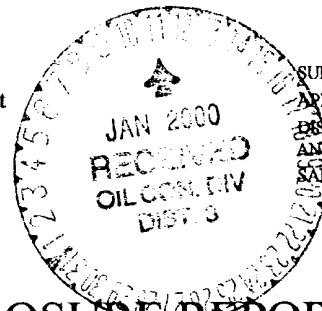


District I
P.O. Box 1980, Hobbs, NM
District II
P.O. Drawer DD, Artesia, NM 88211
District III
1000 Rio Brazos Rd, Aztec, NM 87410

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 Dehydrator Other Production Tank

Land Type: BLM State X Fee Other

Pit Location: Pit dimensions: Length 26 ft, width 20 ft, depth 13 ft
(Attach diagram)

Reference: wellhead X other

Footage from reference: 100 ft

Direction from reference: Degrees X East North
of
 West South

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

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

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

P:\pits\PrrC@WK3

RANKING SCORE (TOTAL POINTS): 0

Date Completed: 1/28/99

Excavation

Approx. cubic yards	239
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Landfarmed X

In situ Bioremediation

Other _____

Remediation Method: Onsite X Offsite

(Check all appropriate sections)

General Description of Remedial Action : On 11/14/97 to 11/17/97, the pit was excavated to a depth of 13 feet. A sample was obtained from the west wall of the pit at a depth of 9 feet utilizing U.S.E.P.A. protocol and sent to On Site Technologies, Ltd. for GRO/DRO analysis. Results provided concentrations below NMOC guidelines. On 1/28/99, the landfarm was tested and provided concentrations below NMOC guidelines.

Ground Water Encountered: No **X** 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 9 feet

Sample date 11/17/97

Sample time 14:40

Sample Results

Benzene(ppm)	0.422
--------------	-------

Total BTEX (PPM)	23.033
------------------	--------

Field Headspace (ppm) 344

TPH 748

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 **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 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

☐ Notice of Intent

X Subsequent Report

☐ Final Abandonment Notice

TYPE OF ACTION

☐ Abandonment

☐ Recompletion

☐ Plugging Back

☐ Casing Repair

☐ Altering Casing

X Other: **Pit Closure**

☐ Change of Plans

☐ New Construction

☐ Non-Routine Fracturing

☐ Water Shut-Off

☐ Conversion to Injection

(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:

Overview of Location and Sampling :

Location : Knauff A #1-E

Quad : P Section : 13

Range : 10 W Township : 27 N

Pit : Production Tank

Reference : 100' E of wellhead

Initial Size : 15' x 10' x 2' deep

Final Size : 26' x 20' x 13' deep

Yds. Excavated : 238 cy

Depth to Groundwater : >100'

Nearest Water Source : >1000'

Nearest Surface Water : >1000'

NMOCD Ranking Score : 0

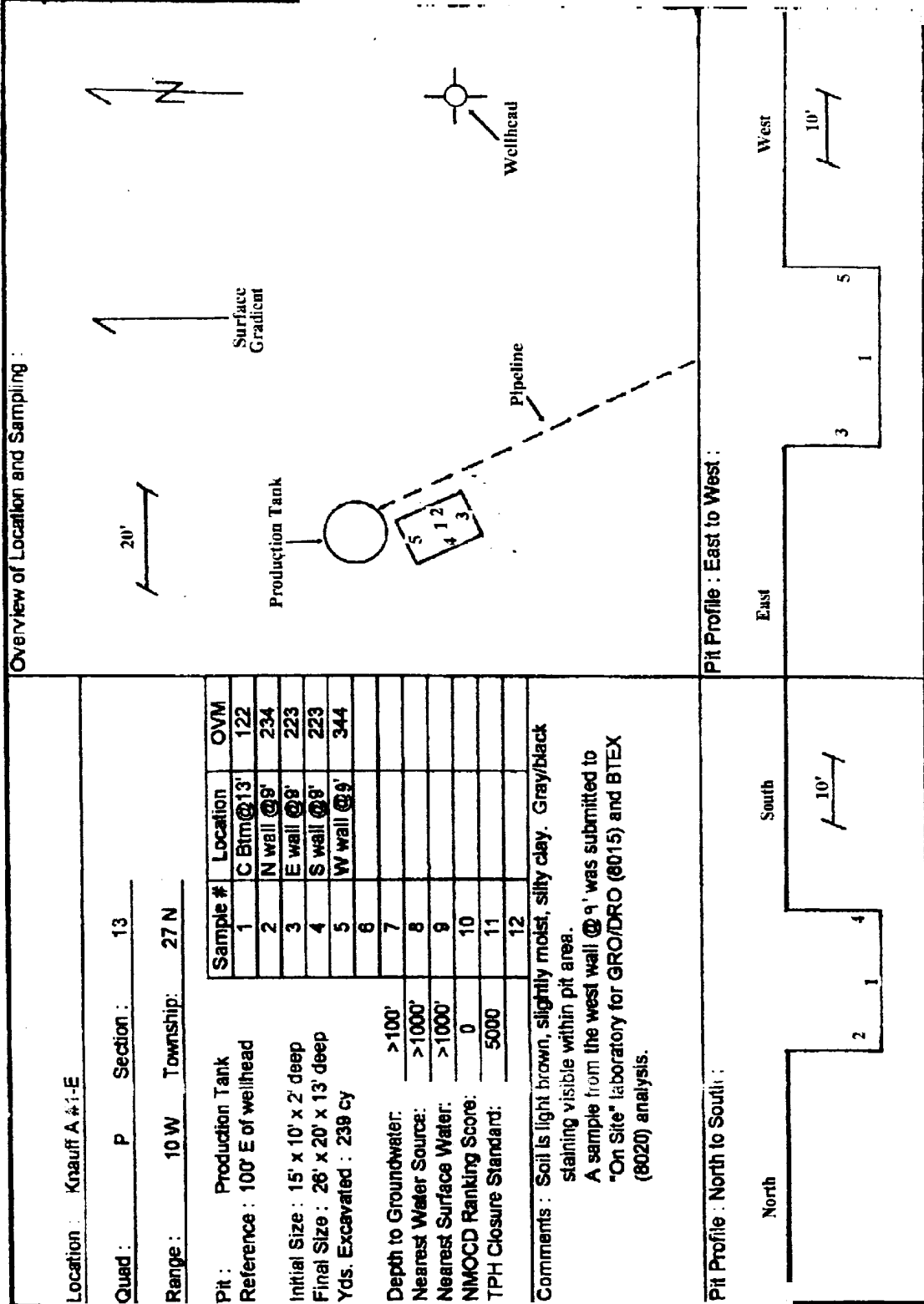
TPH Closure Standard : 5000

Comments : Soil is light brown, slightly moist, silty clay. Gray/black staining visible within pit area.

A sample from the west wall @ 9' was submitted to

"On Site" laboratory for GRO/DRO (8015) and BTEX

(8020) analysis.



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.: *6585*
Sample No.: *16890*
Job No.: *2-1000*

Project Name: *Questar Energy - Knauff A #1-E Production Tank Pit*

Project Location: *West Wall @ 9'*

Sampled by: *FM* Date: *17-Nov-97* Time: *14:40*

Analyzed by: *DC/HR* GRO Date: *19-Nov-97*

Sample Matrix: *Soil* DRO Date: *25-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>186</i>	<i>mg/kg</i>	<i>25</i>	<i>mg/kg</i>
<i>Diesel Range Organics (C10 - C28)</i>	<i>562</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.: *Q554-STD*

DRO QC No.: *Q555-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>2,702</i>	<i>2,702</i>	<i>0.0</i>	<i>15%</i>
<i>Diesel Range (C10 - C28)</i>	<i>ND</i>	<i>ppm</i>	<i>200</i>	<i>194</i>	<i>2.8</i>	<i>15%</i>

Matrix Spike

Parameter	1 - Percent Recovered	2 - Percent Recovered	Limit	RPD	RPD Limit
<i>Gasoline Range (C5-C9)</i>	<i>81</i>	<i>71</i>	<i>(80-120)</i>	<i>14</i>	<i>20%</i>
<i>Diesel Range (C10-C28)</i>	<i>89</i>	<i>92</i>	<i>(75-125)</i>	<i>3</i>	<i>20%</i>

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

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

P.O. BOX 2606 • FARMINGTON, NM 87499

- TECHNOLOGY BLENDING INDUSTRY WITH THE ENVIRONMENT -

P.O. BOX 2606 • FARMINGTON, NM 87499
- TECHNOLOGY BLENDING INDUSTRY WITH THE ENVIRONMENT -

CHAIN OF CUSTODY RECORD

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TECHNOLOGIES, LTD.

657 W. Maple • P. O. Box 2606 • Farmington NM 87499
LAB: (505) 325-5667 • FAX: (505) 325-6256

Purchase Order No.:		Job No.	
Name: Phil Enz		Title:	
Company: QUESTAR		Company: Frank Mc Donald	
Address:		Mailing Address:	
City, State, Zip:		City, State, Zip:	
Telephone No.:		Telefax No.:	

Sampling Location: KNAUFF A # 1-E Production Tank Pit			
Sampler: Frank Mc Donald			
Sample Identification West Wall @ 9 feet		SAMPLE DATE 11/18/97	SAMPLE TIME 14:40
Matrix Soil		PRES.	

REPORT TO		RESULTS TO	
Name: Frank Mc Donald		Name: Frank Mc Donald	
Company: QUESTAR		Company: Frank Mc Donald	
Address:		Mailing Address:	
City, State, Zip:		City, State, Zip:	
Telephone No.:		Telefax No.:	

ANALYSIS REQUESTED		LAB ID	
Number of Containers 1		Date/Time 11/18/97 14:15	
Received by: [Signature]		Date/Time 11/18/97 14:15	
Received by: [Signature]		Date/Time 11/18/97 14:15	
Received by: [Signature]		Date/Time 11/18/97 14:15	
Rush		Special Instructions:	

Relinquished by: [Signature]		Date/Time 11/18/97 14:15	
Relinquished by:		Date/Time	
Relinquished by:		Date/Time	
Method of Shipment:		Date 11/18/97	
Authorized by: [Signature]		Date 11/18/97	

(Client Signature Must Accompany Request)

Distribution: White – On Site Yellow – LAB Pink – Sampler Goldenrod – Client

OFF: (505) 325-5667



LAB: (505) 325-1556

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				
T/R Hydrocarbons: C10-C28	ND	25		mg/Kg	1	Analyst: HR 2/19/99
GASOLINE RANGE ORGANICS		SW8015				
T/R Hydrocarbons: C6-C10	ND	0.18		mg/Kg	1	Analyst: HR 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

1 of 1

P.O. BOX 2606 • FARMINGTON, NM 87499

- TECHNOLOGY BLENDING INDUSTRY WITH THE ENVIRONMENT -

CHAIN OF CUSTODY RECORD

7500

Date: 2/3/99

Page 1 of 1

557 W. Maple • P. O. Box 2606 • Farmington NM 87499
LAB: (505) 325-5667 • FAX: (505) 325-6256

[illegible]

Distribution:	White – On Site	Yellow – LAB	Pink – Sampler	Goldenrod – Client
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