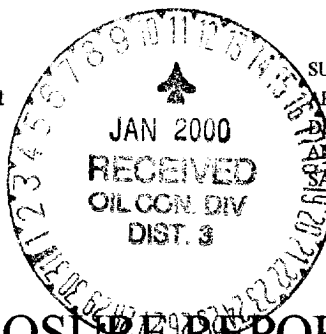


District I
P.O. Box 1980, Hobbs, NM
District II
P.O. Drawer DD, Artesia, NM 88211
District III
1000 Rio Brazos Rd, Aztec, NM 87410

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

RISK-BTEX

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

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

Facility Or: Lindrith #14
Well Name

Location: Unit or Qtr/Qtr Sec H Sec 4 T 26N R 7W County Rio Arriba

Pit Type: Separator Dehydrator Other Separator / Compressor

Land Type: BLM State X Fee Other

Pit Location: Pit dimensions: Length 30 ft width 45 ft depth 17 ft
(Attach diagram)

Reference: wellhead X other

Footage from reference: 110 ft

Direction from reference: 65 Degrees East North X
of
X West South

Depth to Ground Water: <u>>100'</u>	<u> </u> Less than 50 feet	(20 points)	
(vertical distance from	<u> </u> 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:			
(less than 200 feet from a private	<u> </u> Yes	(20 points)	
domestic water source, or: less than	<u>X</u> No	(0 points)	<u>0</u>
1000 feet from all other water sources).			

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

P:\pits\PrnC@.WK3

RANKING SCORE (TOTAL POINTS): 0

Date Remediation Started: 10/28/97 Date Completed: 2/3/99

Excavation _____ Approx. cubic yards 750

Landfarmed X Insitu Bioremediation _____

Other _____

Remediation Method: Onsite X Offsite _____

(Check all appropriate
sections)

General Description of Remedial Action : From 10/28/97 to 10/30/97, the pit was excavated to a depth of 17 feet. A sample was obtained from the south bottom of the pit at a depth of 18 feet utilizing U.S.E.P.A. protocol and sent to On Site Technologies, Ltd. for GRO/DRO and BTEX analysis. On 2/26/98, a risk assessment was performed. A test hole was dug 20' south of the pit to a depth of 20 feet. A sample from this depth provided a headspace concentration of 274 ppm. A second test hole was dug 25' south of the pit to a depth of 20 feet. A sample from this depth provided a headspace concentration of 0.3 ppm. On 2/3/99, 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 South Bottom

Sample depth 18 feet

Sample date 10/29/97

Sample time 15:08

Sample Results

Benzene(ppm) 0.557

Total BTEX (PPM) 72.095

Field Headspace (ppm) 510

TPH 712

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  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 H Sec. 4 T 26 N R 7 W

5. Lease Designation and Serial No.
NM-079161

6. If Indian, Allottee or Tribe Name

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

8. Well Name and No.:
Lindrith #14

9. API Well No.:
30-039-82400

10. Field & Pool/Exploratory Area:
Basin Dakota

11. County or Parish, State:
Rio Arriba, New Mexico

12. CHECK APPROPRIATE BOX(es) 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 _____
Conditions of approval, if any:

Title _____

Date _____

**Risk Assessment
Questar Energy Company
Lindrith #14**

Depth to Groundwater	>100'
Distance to Water Source	>1000'
Distance to Surface Water	>1000'
TPH Limit (ppm)	5000

The initial size of the pit was 25' x 35' x 3' deep. The stained soil was a silty sand / silty clay mix and was excavated to a final pit size of 30' x 45' x 17' deep. Excavated soil amounted to approximately 750 total cubic yards and was landfarmed on location.

From October 28 to October 30, 1997 Cimarron Oilfield Service Co. performed a pit closure verification. The pit was excavated to a depth of 17 feet. A soil sample from the south bottom at 18 feet provided a headspace concentration of 510 ppm and a Total Petroleum Hydrocarbon (TPH) concentration of 712 ppm. A BTEX analysis provided a benzene concentration of 0.557 and a total BTEX concentration of 62.095 ppm. No groundwater was encountered. Excavated soils were landfarmed on location.

A risk assessment was performed to establish lateral extent south of the associated pit. The risk assessment was performed on February 26, 1998 by Cimarron. A bore hole was established 20' south from the original pit to a depth of 20 feet. A sample from this depth provided a headspace concentration of 274 ppm. There was a definite hydrocarbon odor and staining at this depth. A second bore hole was established 25' south from the original pit to a depth of 20 feet. A sample from this depth provided a headspace concentration of 0.3 ppm. No hydrocarbon odor or staining was noticeable.

Landfarm sampling was provided by Cimarron on February 3, 1999. A 5-point sample was extracted and analyzed. Results of the sample provided a TPH concentration of 57 ppm and a headspace concentration of 4 ppm.

Having determined lateral and vertical extent as well as achieving action levels below NMOCD and BLM requirements, this pit should be considered to have reached "final closure". Questar Energy Company has removed and remediated all soils to the extent practical. Based on this information and the physical location of the pit, there is little to no risk to human health or environment.

Location: Lindirith #14		Overview of Pit Location and Sampling :		Depth (ft)		Bore #1	Bore #2	Bore #3	Bore #4
Quad: H	Section: 4			1					
Township: 26N	Range: 7W			2	3	4	5	6	7
Pit: Sep./Compressor	Sample #	Location	OVM	TPH	10	11	12	13	14
Reference: 110' North 65° West of wellhead	1	BH#1@20'	274		15	16	17	18	19
	2	BH#2@20'	0.3		20				
	3	BH#3@18'	0.0						
	4	BH#4@20'	0.0						
Pit Size: 0	5								
	6								
	7								
	8								
	9								
	10								
	11								
	12								
Depth to Groundwater: >100'	Soil Type: Silty sand								
Ranking Score: 0	Bedrock Encountered: No								
Closure Standard: 5000	Groundwater Encountered: No								
Comments: A Geo Probe was utilized to drill four bore holes in the pit area.									
Bore Hole #1: A test hole was drilled to 20' below ground level. The soil was moist and there was a definite hydrocarbon odor and staining.									
The hole was drilled approximately 20' from the current pit center. Field headspace result was 274 ppm.									
Bore Hole #2: The Geo Probe was moved 5' further south to drill bore hole #2. The soil was dry, sandy clay. No hydrocarbon odor or staining was noticeable. A sample was taken at 20' and tested using the field headspace analysis. Test results showed 0.3 ppm.									
Bore Hole #3: The bore hole was drilled on the west side of the pit approximately 25' from the center of the pit to a depth of 18' deep. Field headspace result was 0.0 ppm.									
Bore Hole #4: The bore hole was drilled on the east side of the pit approximately 25' from the center of the pit to a depth of 20'. Field headspace result was 0.0 ppm.									

Location : Lindrith 14		Overview of Location and Sampling :																																								
Quad : SE/NE Section : 4																																										
Range : 7 W Township: 28 N																																										
Pit : Separator/Compressor Reference : 110' N 65' W of wellhead Initial Size : 25' x 35' x 3' deep Final Size : 30' x 45' x 17' deep Yds. Excavated : 750 cy																																										
Depth to Groundwater: >100' Nearest Water Source: >1000' Nearest Surface Water: >1000' NMOCD Ranking Score: 0 TPH Closure Standard: 5000																																										
Comments : Soil is dry, silty sand/silty clay mix. Odor is observed. Gray/black staining occurs primarily in the first 14', but scattered thru 14' and 18'. Sample from the south bottom was sent to "On-Site" for TPH (8015) and BTEX (8020) analysis.																																										
<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>S Btm @ 18'</td><td>510</td></tr> <tr><td>2</td><td>S wall @ 14'</td><td>188</td></tr> <tr><td>3</td><td>W wall @ 14'</td><td>458</td></tr> <tr><td>4</td><td>N wall @ 14'</td><td>13</td></tr> <tr><td>5</td><td>E wall @ 14'</td><td>483</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	S Btm @ 18'	510	2	S wall @ 14'	188	3	W wall @ 14'	458	4	N wall @ 14'	13	5	E wall @ 14'	483	6			7			8			9			10			11			12			Pit Profile : East to West : North South	
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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: *7-Nov-97*
COC No.: *6548*
Sample No.: *16692*
Job No.: *2-1000*

Project Name: *Questar Energy*
Project Location: *Lindrith 14 Sep/Comp Pit; S Btm @ 18'*
Sampled by: *VC* Date: *29-Oct-97* Time: *15:08*
Analyzed by: *DC/HR* GRO Date: *5-Nov-97*
Sample Matrix: *Soil* DRO Date: *6-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>471</i>	<i>mg/kg</i>	<i>125</i>	<i>mg/kg</i>
<i>Diesel Range Organics (C10 - C28)</i>	<i>241</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>2,084</i>	<i>14.6</i>	<i>15%</i>
<i>Diesel Range (C10 - C28)</i>	<i>ND</i>	<i>ppm</i>	<i>200</i>	<i>181</i>	<i>9.7</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>100</i>	<i>(80-120)</i>	<i>2</i>	<i>20%</i>
<i>Diesel Range (C10-C28)</i>	<i>72</i>	<i>72</i>	<i>(75-125)</i>	<i>1</i>	<i>20%</i>

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

Approved by: *[Signature]*
Date: *11/7/97*

P.O. BOX 2606 • FARMINGTON, NM 87499

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: *31-Oct-97*
COC No.: *6548*
Sample No.: *16692*
Job No.: *2-1000*

Project Name: *Questar Energy*
Project Location: *Lindrith 14 Sep/Comp Pit; S. Btm @ 18'*
Sampled by: *VC* Date: *29-Oct-97* Time: *15:08*
Analyzed by: *DC* Date: *30-Oct-97*
Sample Matrix: *Soil*

Laboratory Analysis

Parameter	Results as Received	Unit of Measure	Limit of Quantitation	Unit of Measure
<i>Benzene</i>	<i>557</i>	<i>ug/kg</i>	<i>500</i>	<i>ug/kg</i>
<i>Toluene</i>	<i>7516</i>	<i>ug/kg</i>	<i>500</i>	<i>ug/kg</i>
<i>Ethylbenzene</i>	<i>4333</i>	<i>ug/kg</i>	<i>500</i>	<i>ug/kg</i>
<i>m,p-Xylene</i>	<i>42271</i>	<i>ug/kg</i>	<i>500</i>	<i>ug/kg</i>
<i>o-Xylene</i>	<i>7417</i>	<i>ug/kg</i>	<i>500</i>	<i>ug/kg</i>
	<i>TOTAL</i>	<i>62095</i>		<i>ug/kg</i>

ND - Not Detected at Limit of Quantitation

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

Approved by: *[Signature]*
Date: *10/31/97*

for EPA Method 8020

Reference Standard QC No.: 0529/30-QC

[illegible]

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

Date Started: February 3, 1999 Date Completed: February 3, 1999

Location: Lindriith #14

Quad: H Section: 4

Township: 26N Range: 7W

Pits: Separator / Compressor

Reference: 50' North 85° East of wellhead

Size: 15' x 50' x 1' deep

Yds: 750 cubic yards

4 5 - Point Composite(s)

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

Overview of Landfarm and Sampling :

Comments: Soil is dry, silty sand / silty clay mix with no visible staining or hydrocarbon odor.

A sample from Composite #1 was sent to "On-Site Technologies, Ltd." for 8015 GRO/DRO analysis.

Environmental Specialist : RB

OFF: (505) 325-5667



LAB: (505) 325-1556

ANALYTICAL REPORT

Date: 25-Feb-99

Client:	Cimarron Oilfield Service	Client Sample Info:	Lindrith #14 Landfarm
Work Order:	9902044	Client Sample ID:	Lindrith #14 Comp #1
Lab ID:	9902044-01A	Matrix:	SOIL
Project:	Lindrith #14 Landfarm	Collection Date:	2/3/99 9:45:00 AM
		COC Record:	5691

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
DIESEL RANGE ORGANICS		SW8015				Analyst: DC
T/R Hydrocarbons: C10-C28	57	25		mg/Kg	1	2/23/99
GASOLINE RANGE ORGANICS		SW8015				Analyst: HR
T/R Hydrocarbons: C6-C10	ND	0.18		mg/Kg	1	2/12/99

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

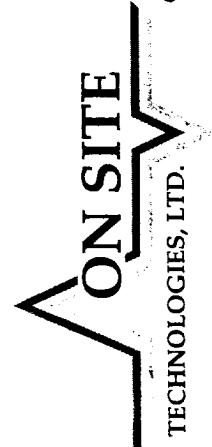
Surr: - Surrogate

1 of 1

P.O. BOX 2606 • FARMINGTON, NM 87499

- TECHNOLOGY BLENDING INDUSTRY WITH THE ENVIRONMENT -

CHAIN OF CUSTODY RECORD



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

Date: _____

Purchase Order No.:		Job No. <u>Landfill #14</u>		Name <u>Ronnie Benson</u>		Title																																																																																																							
SEND INVOICE TO		Name <u>Phil Emig</u>		Company <u>Cimarron</u>		Mailing Address																																																																																																							
		Company <u>QUESTAC</u>		City, State, Zip		Telephone No.																																																																																																							
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Sampling Location:				ANALYSIS REQUESTED																																																																																																									
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Sampler: <u>Ronnie Benson</u>		Number of Containers		<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <th colspan="2">SAMPLE IDENTIFICATION</th> <th colspan="2">SAMPLE</th> <th rowspan="2">MATRIX</th> <th rowspan="2">PRES.</th> <th rowspan="2">LAB ID</th> </tr> <tr> <th colspan="2"></th> <th>DATE</th> <th>TIME</th> </tr> <tr><td colspan="2"></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td colspan="2"></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td colspan="2"></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td colspan="2"></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td colspan="2"></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td colspan="2"></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td colspan="2"></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td colspan="2"></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td colspan="2"></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td colspan="2"></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td colspan="2"></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td colspan="2"></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td colspan="2"></td><td></td><td></td><td></td><td></td><td></td></tr> </table>				SAMPLE IDENTIFICATION		SAMPLE		MATRIX	PRES.	LAB ID			DATE	TIME																																																																																											
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Authorized by:		Date		(Client Signature <u>Must</u> Accompany Request)																																																																																																									