

District 1

P.O. Box 1980, Hobbs, NM

District 1

P.O. Drawer DD, Artesia, NM 88211

District DEPUTY OIL & GAS INSPECTOR

1000 Rio Brazos Rd, Aztec, NM 87410

JUN 24 1997

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 REPORTOperator: QUESTAR ENERGY Telephone: (505) 326-9195

Address: _____

Facility Or: FEDERAL #A-1Well Name 990' FSL & 1190' FWLLocation: Unit or Qtr/Qtr Sec "M" Sec 25 T 30N R 13W County SAN JUANPit Type: Separator ___ Dehydrator ___ Other ABANDONED SEPARATORLand Type: BLM /, State , Fee , Other Pit Location: Pit dimensions: length 28', width 28', depth 21' (avg)
(Attach diagram)Reference: wellhead X, other Footage from reference: 185'Direction from reference: 8 Degrees East North X
of
X West South **Depth To Ground Water:**(Vertical distance from
contaminants to seasonal
high water elevation of
ground water)

Less than 50 feet (20 points)

50 feet to 99 feet (10 points)

Greater than 100 feet (0 Points) 0**RECEIVED**
FEB 10 1997

Yes (20 points)

No (0 points) 0**Wellhead Protection Area:**(Less than 200 feet from a private
domestic water source, or; less than
1000 feet from all other water sources)**OIL CON. DIV.**
DIST. 3**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)

Greater than 1000 feet (0 points) 0**RANKING SCORE (TOTAL POINTS):** 0

Date Remediation Started: 14 Nov. 1996 Date Completed: _____

Remediation Method: Excavation ☒ Approx. cubic yards 610
(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: _____

EXCAVATED SOIL MIXED WITH COW MANURE AND
STOCKPILED INTO COMPOST ROW ON LOCATION.
LANDFARM (COMPOST) TESTED BELOW CLOSURE
STANDARDS 2/3/97.

Ground Water Encountered: No ☒ Yes _____ Depth _____

Final Pit: Sample location CENTER, BOTTOM OF P.T

Closure Sampling: _____
(If multiple samples, attach sample results and diagram of sample locations and depths)

Sample depth 19'

Sample date 15 Nov 1996 Sample time 16:10

Sample Results

Benzene(ppm) 0.04

Total BTEX(ppm) 50.89

Field headspace(ppm) _____

TPH 897

Ground Water Sample: Yes _____ No ☒ (If yes, attach sample results)

HEREBY CERTIFY THAT THE INFORMATION ABOVE IS TRUE AND COMPLETE TO THE BEST OF MY KNOWLEDGE AND BELIEF

DATE

SIGNATURE

PRINTED NAME
AND TITLE

Location: FEDERAL # A-1

Quad: "M" Section: 25

Range: 134J Township: BON

Pit: ABANDONED SEP

Reference: 185' N 80° W 20' W

Initial Size: 13' x 12' x 5' deep

Final Size:

28' x 28' x 11' deep

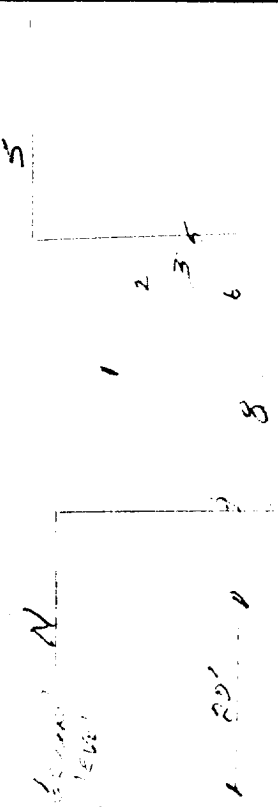
Yds. Excavated:

610 yds

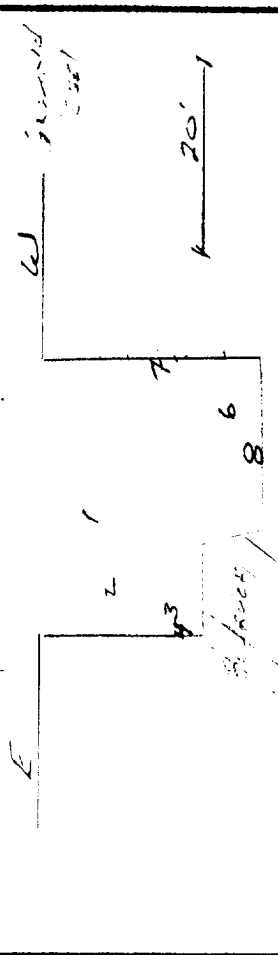
Comments: 6' to 10' W Brown, Sandy
W/ SOME CLAY MIXED @ 17'-23' IN DEPTH. TAIL
IS COARSE SAND W/ SOME FINESS. SAND GRAY
SHINY W/ IRON. FROM 6'-23' TO DEEPER IN
HAIR OF PIT SAMPLE #6 ANALYZED FOR 1976

Sample #	Location	OVM
1	34227'	312
2	34227'	252
3	34227'	337
4	34227'	0.7
5	34227'	522
6	34227'	347
7	34227'	507
8	34227'	133
9		
10		
11		
12		

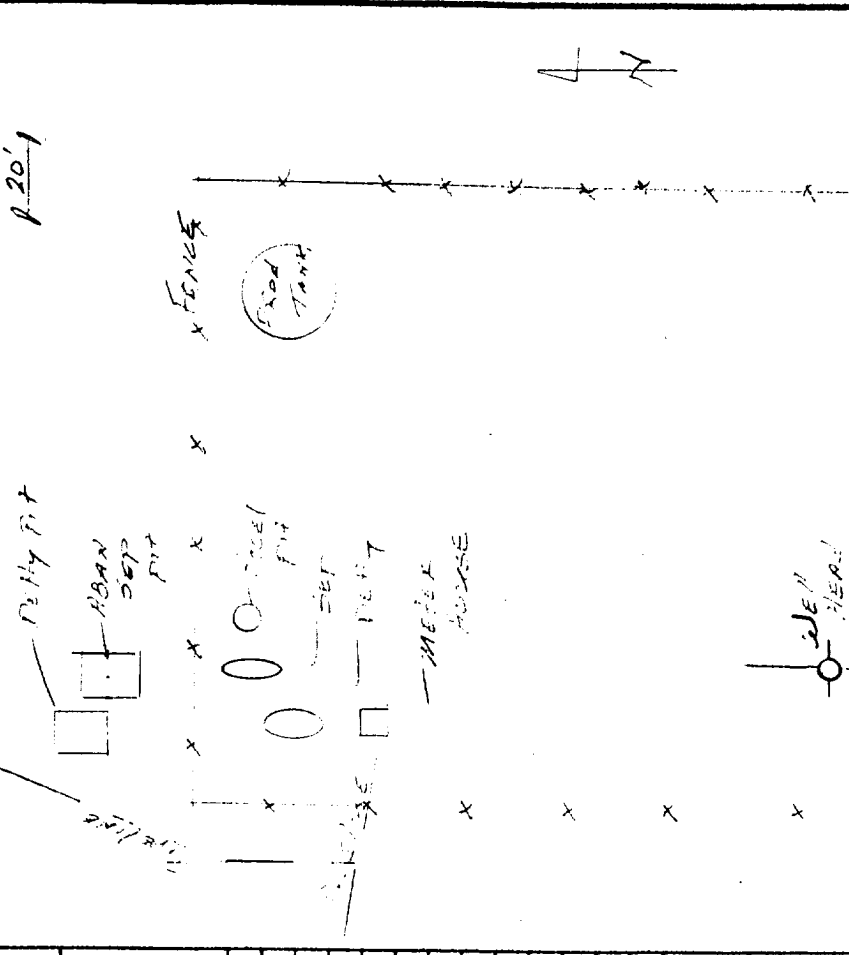
Pit Profile : North to South :



Pit Profile : East to West :



Overview of Location and Sampling :



PIT CLOSURE EXCAVATION LOG

Client : Questar Energy

Location Name : Federal # A - 1

Pit : Abandoned Separator

Quad/Unit "M"

Sec.: 25

Twn. : 30 N

Rng. : 13 W

County : San Juan

State : NM

NMPM

NMOCD Closure Std.: 5000 ppm

Pit Size :

Initial : 15' x 12' X 3' deep

Final :

28' x 28' x 21' deep avg. Total Cu. Yds: 610

Field Testing Equipment : Environmental Instruments ; PID Model # 580 D Remediation Method : Composted

EXCAVATION LOG

Date	Excavation Direction	Soil Deviation	Staining	Sample Number	Sample Type	Sample Location	Sample Depth	Test	Results (ppm)
11/14/96	Vertical	None	Black - Gray	1	grab	CTR	7'	F. Headspace	312
11/14/96	South & East	None	Black - Gray	2	grab	SE Comer	9'	F. Headspace	252
11/14/96	South & East	Coarse Sand	Black - Gray	3	grab	SE Comer	14'	F. Headspace	337
11/14/96	Vertical	Bedrock	No	N/A	N/A	N/A	17'	N/A	N/A
11/15/96	East	None	No Stain	4	grab	East Wall	15'	F. Headspace	0.7
11/15/96	South	None	Black - Gray	5	grab	South Wall	15'	F. Headspace	344
11/15/96	Vertical & West	Coarse Sand	Black - Gray	6	grab	Bottom	19'	F. Headspace	347
								TPH	
								BTEX	
11/18/96	West	None	Black - Gray	7	grab	West Wall	12'	F. Headspace	207
11/18/96	Vertical & North	Coarse Sand	Black - Gray	8	grab	Bottom	23'	F. Headspace	284
11/18/96	North	None	Black - Gray	9	grab	North Wall	17'	F. Headspace	170

Comments / Recommendations :

Environmental Specialist: 

[illegible]

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

OFF: (505) 325-5667



LAB: (505) 325-1556

TOTAL PETROLEUM HYDROCARBONS

Attn: *Phil Emig*
Company: *Questar Energy Company*
Address: *P.O. Box 2330*
City, State: *Farmington, NM 87499*

Date: *18-Nov-96*
COC No.: *6192*
Sample No. *12883*
Job No. *2-1000*

Project Name: *Questar Energy Company - Federal A-1 (Abandoned Sep. Pit)*
Project Location: *Bottom @ 19'*
Sampled by: *NR* Date: *15-Nov-96* Time: *NR*
Analyzed by: *DC* Date: *18-Nov-96*
Sample Matrix: *Soil*

Laboratory Analysis

<i>Parameter</i>	<i>Result</i>	<i>Detection Limit</i>	<i>Unit of Measure</i>	<i>Method</i>
<i>Total Petroleum Hydrocarbons, TPH</i>	<i>897</i>	<i>25</i>	<i>mg/kg</i>	<i>EPA Method 418.1</i>

Quality Assurance Report

Laboratory Fortified Blank/Spike Soil

<i>Laboratory Identification</i>	<i>Analyzed Value</i>	<i>Acceptable Range</i>	<i>Unit of Measure</i>
<i>Laboratory Fortified Blank Soil - QCBS2</i>	<i>< 25</i>	<i>< 25</i>	<i>mg/kg</i>
<i>Laboratory Fortified Spike Soil - QCSS1</i>	<i>892</i>	<i>828 - 1024</i>	<i>mg/kg</i>

Duplication

<i>Laboratory Identification</i>	<i>(% RSD)</i>	<i>Limit (% RSD)</i>
<i>12884-4365</i>	<i><0.1</i>	<i>15.0</i>

Approved by: *[Signature]*

Date: *11/18/96*

OFF: (505) 325-5667



LAB: (505) 325-1556

AROMATIC VOLATILE ORGANICS

Attn: *Phil Emig*
Company: *Questar Energy Company*
Address: *P.O. Box 2330*
City, State: *Farmington, NM 87499*

Date: 18-Nov-96
COC No.: 6192
Sample No. 12883
Job No. 2-1000

Project Name: *Questar Energy Company - Federal A-1 (Abandoned Sep. Pit)*
Project Location: *Bottom @ 19'*
Sampled by: NR Date: 15-Nov-96 Time: NR
Analyzed by: DC Date: 18-Nov-96
Sample Matrix: *Soil*

Laboratory Analysis

<i>Component</i>	<i>Result</i>	<i>Units of Measure</i>	<i>Detection Limit</i>	<i>Units of Measure</i>
<i>Benzene</i>	37.1	ug/kg	0.2	ug/kg
<i>Toluene</i>	1107.1	ug/kg	0.2	ug/kg
<i>Ethylbenzene</i>	3837.0	ug/kg	0.2	ug/kg
<i>m,p-Xylene</i>	42075.6	ug/kg	0.2	ug/kg
<i>o-Xylene</i>	3837.6	ug/kg	0.2	ug/kg
	TOTAL	50894.4	ug/kg	

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

Approved by: *[Signature]*
Date: 11/18/96

OFF: (505) 325-5667



LAB: (505) 325-1556

QUALITY ASSURANCE REPORT
for EPA Method 8020

Date Analyzed: 18-Nov-96

Internal QC No.: 0515-QC

Surrogate QC No.: 0516-QC

Reference Standard QC No.: 0417-QC

Method Blank

Analyte	Result	Units of Measure
Average Amount of All Analytes In Blank	<0.2	ppb

Calibration Check

Analyte	Units of Measure	True Value	Analyzed Value	% Diff	Limit
Benzene	ppb	20.0	19.3	4	15%
Toluene	ppb	20.0	19.8	1	15%
Ethylbenzene	ppb	20.0	20.1	0	15%
m,p-Xylene	ppb	40.0	39.7	1	15%
o-Xylene	ppb	20.0	19.9	0	15%

Matrix Spike

Analyte	1 - Percent Recovered	2 - Percent Recovered	Limit	%RSD	Limit
Benzene	118	110	(39-150)	5	20%
Toluene	120	112	(46-148)	5	20%
Ethylbenzene	122	113	(32-160)	5	20%
m,p-Xylene	118	110	(35-145)	5	20%
o-Xylene	115	107	(35-145)	5	20%

Surrogate Recoveries

Laboratory Identification	S1 Percent Recovered	S2 Percent Recovered
Limit Percent Recovery	(70-130)	
12883-6192	93	

S1: Fluorobenzene

Co. Code: C I H O I - 1-800-321-2537

ONE CALL REQUEST

Company: QUESTAR ENERGY

Foreman: Phil Emig Phone: 326-9195

Location: FEDERAL A-1

Range: 13W

Township: 30N

Section: 25

Quarter: "M"

Directions: FROM COLLEGE DR. & PINON HILLS BLVD
N ON COLLEGE DR 1 MILE PAST PINON HILLS
TO LOCATION

Reason for call: Pit Excavation - ENVIRONMENTAL - Remediation
CIVIL ENGINE LOCATION
Meter# _____ Area _____

Person Calling: FRANK McDONALD Phone #: _____

ID# 96111108040029

Work done by: Cimarron Oilfield Service, Co.

Notify: CITY OF FARMINGTON

PWM

Williams Field Services

Location: <u>Federal A #1</u> Quad: <u>" M "</u> Section: <u>25</u> Township: <u>30 N</u> Range: <u>13 W</u> Pit: <u>ABAND SEP</u> <u>LANDFARM</u> Reference: <u>75' W of WEL HEAD</u> Size: <u>70' X 300' X 8"</u> Yds: <u>610 14 45</u> <u>3-5</u> Point Composite		Overview of Landfarm and Sampling: Sample points 1-5 = N L-FARM Sample points 6-10 = Mid L-FARM Sample points 11-15 = S L-FARM																																						
<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>N L-FARM</td><td>20.7</td></tr> <tr><td>2</td><td>Mid L-FARM</td><td>31.5</td></tr> <tr><td>3</td><td>S L-FARM</td><td>29.7</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	N L-FARM	20.7	2	Mid L-FARM	31.5	3	S L-FARM	29.7	4			5			6			7			8			9			10			11			12			Comments: <u>TPH 2087 in N. Farm</u>
Sample #	Location	OVM																																						
1	N L-FARM	20.7																																						
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6289

Date: 5 Feb 97

TECHNOLOGIES, LTD.

[illegible]

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

ON SITE
TECHNOLOGIES, LTD.

657 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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OFF: (505) 325-5667



LAB: (505) 325-1556

ANALYTICAL REPORT

Attn: **Phil Emig**
Company: **Questar Energy Company**
Address: **P.O. Box 2330**
City, State: **Farmington, NM 87499**

Date: **4-Feb-97**
COC No.: **6289**
Sample No.: **13623**
Job No.: **2-1000**

Project Name: **Questar Energy - Fed. #A-1**
Project Location: **Mid L-Farm**
Sampled by: **FM**
Analyzed by: **DC**
Sample Matrix: **Soil**

Date: **3-Feb-97** Time: **14:47**
Date: **4-Feb-97**

Laboratory Analysis

Parameter	Result	Detection Limit	Unit of Measure	Method
Total Petroleum Hydrocarbons, TPH	262	25	mg/kg	EPA Method 418.1

Quality Assurance Report

Laboratory Fortified Blank/Spike Soil

Laboratory Identification	Analyzed Value	Acceptable Range	Unit of Measure
Laboratory Fortified Blank Soil - QCBS2	< 25	< 25	mg/kg
Laboratory Fortified Spike Soil - QCSS1	900	828 - 1024	mg/kg

Duplication

Laboratory Identification	(% RSD)	Limit (% RSD)
13623-6289	3.8	15.0

Approved by: 
Date: **2/4/97**

Date: 2 Feb 77

657 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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