

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

Energy, Minerals and Natural Resources Department

OIL CONSERVATION DIVISION
P.O. Box 2088
Santa Fe, New Mexico 87504-2088

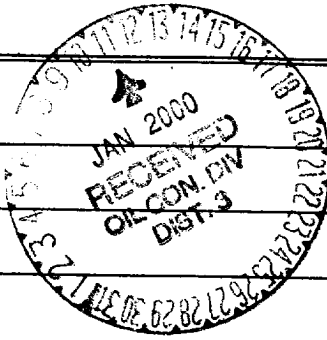
SUBMIT 1 COPY TO
APPROPRIATE
DISTRICT OFFICE
AND 1 COPY TO
SANTA FE OFFICE

(Revised 3/9/94)

PIT REMEDIATION AND CLOSURE REPORT

RLX-BTEX
50.8

Operator: QUESTAR ENERGY Telephone: (505) 326-9195
Address: _____
Facility Or: FEDERAL #A-1
Well Name 990' FSL & 1190' FWL
Location: Unit or Qtr/Qtr Sec "M" Sec 25 T 30N R 13W County SAN JUAN
Pit Type: Separator _____ Dehydrator _____ Other ABANDONED SEPARATOR
Land 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: Less than 50 feet (20 points)
(Vertical distance from 50 feet to 99 feet (10 points)
contaminants to seasonal Greater than 100 feet (0 Points) 0
high water elevation of
ground water)

Wellhead Protection Area: Yes (20 points)
(Less than 200 feet from a private No (0 points) 0
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, Greater than 1000 feet (0 points) 0
irrigation canals and ditches)

RANKING SCORE (TOTAL POINTS): 0

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

Remediation Method: Excavation X Approx. cubic yards 610
(Check all appropriate sections) Landfarmed X Insitu Bioremediation _____
Other _____

Remediation Location: Onsite X 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 ROWS ON LOCATION.
LANDFARM (COMPOST) TESTED BELOW CLOSURE
STANDARDS 2/3/97.

Ground Water Encountered: No X 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 X (If yes, attach sample results)

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

DATE 1-4-00

SIGNATURE Phil Emig PRINTED NAME AND TITLE PHIL EMIG SR. OPERATOR

Client: QUICKSAND EXPLORATION

Date Started: 13/12/16 Date Completed: 13/12/16

Location: FEDERAL # A-1

Quad: "M" Section: 25

Range: 136J Township: 30N

Pit: ARRANGEMENT SEP

Reference:

185' N/8°W of Wellhead

Initial Size:

15' x 12' x 3' deep

Final Size:

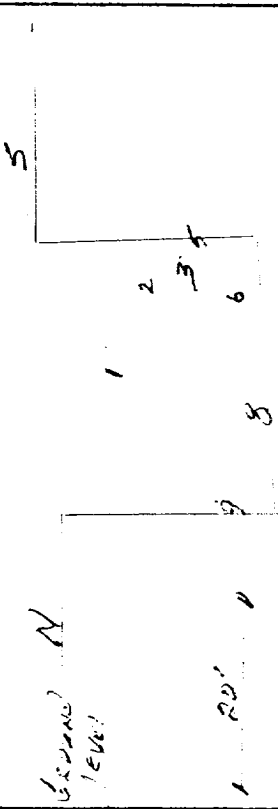
28' x 28' x 21' deep

Yds. Excavated:

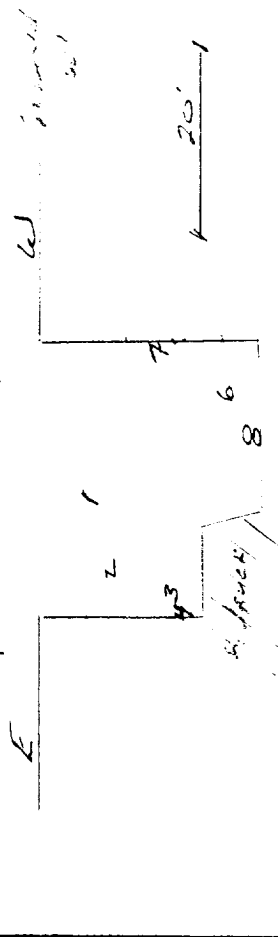
610 yds

Comments: 6' to 10' water table but Brown, Sandy
W/ SOME CLAY MIXED @ 17'-23' in depth. Soil
IS COARSE SAND W/ SOME PEBBLES. BLACK GRAY
STAINING OCCURS FROM 6'-23'. PEDESTAL ON EAST
WALL. PIT SAMPLE #6 ANALYZED FOR 71 H+
2018.

Pit Profile: North to South:



Pit Profile: East to West:



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: 

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

Component	Result	Units of Measure	Detection Limit	Units of Measure
<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: 
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

(Signature)

Client: Luperón

Date Started: 3 Feb 97

Date Completed: 3 Feb 97

Location: Federal A #1

Quad: 1" N" Section: 25

Township: 30N Range: 13W

Pit: ABAND SEP

Reference: 75' W of WEN HEAD

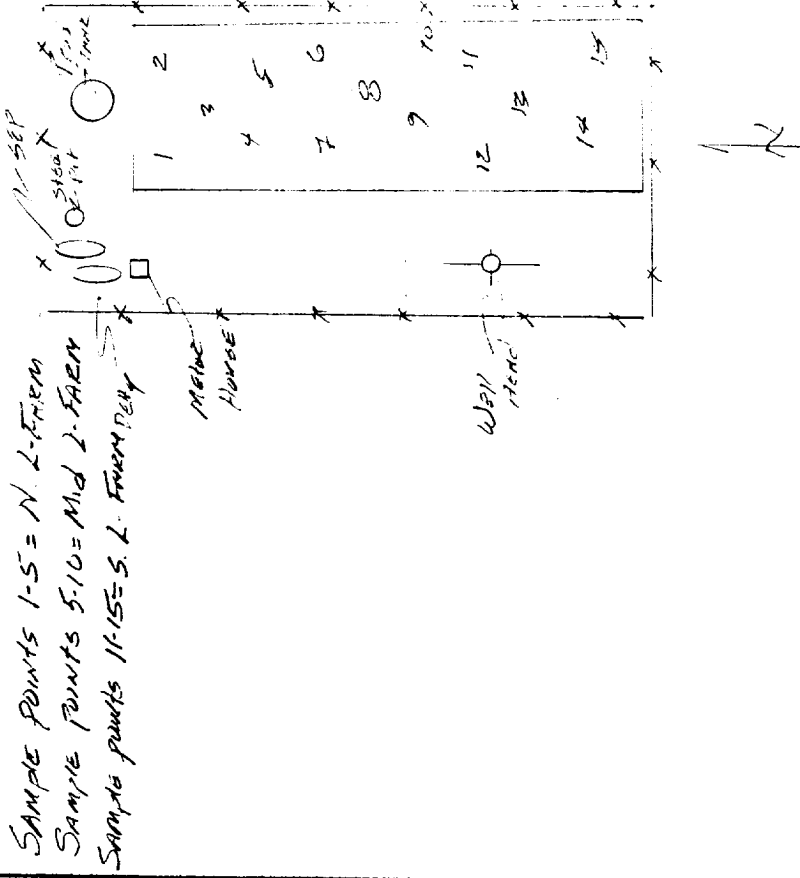
Size: 90' x 300' x 8"

Yds: 610 14 yds

3-5 Point Composite

Sample #	Location	OVM
1	N. L. Farm	22.9
2	Mid L. Farm	31.5
3	S. L. Farm	29.7
4		
5		
6		
7		
8		
9		
10		
11		
12		

Overview of Landfarm and Sampling:



Comments: TPD 218.1 on Mid L. Farm

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: *[Signature]*
Date: *2/4/97*

P.O. BOX 2606 • FARMINGTON, NM 87499

- TECHNOLOGY BLENDING INDUSTRY WITH THE ENVIRONMENT -

6289

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

[illegible]