

District I
P O. Box 1980, Hobbs, NM

District II
P O. Drawer DD, Artesia, NM 88221

District III
1000 Rio Brazos Rd, Aztec, NM 87410

State of New Mexico
Energy, Minerals and Natural Resources Department

OIL CONSERVATION DIVISION

2040 South Pacheco Street
Santa Fe, New Mexico 87505

*Risk
below*

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

PIT REMEDIATION AND CLOSURE REPORT

Operator: <u>PNM Gas Services (Energen)</u>		Telephone: <u>324-3764</u>	
Address: <u>603 W. Elm Street Farmington, NM 87401</u>			
Facility or Well Name: <u>Taliaferro #3E</u>			
Location:	Unit <u>O</u>	Sec <u>31</u>	T <u>31 N</u> R <u>12 W</u> County <u>San Juan</u>
Pit Type:	Separator <input type="checkbox"/>	Dehydrator <input checked="" type="checkbox"/>	Other _____
Land Type:	BLM <input type="checkbox"/>	State <input type="checkbox"/>	Fee <input checked="" type="checkbox"/> Other _____
Pit Location: Pit dimensions: length <u>20</u> ' width <u>20</u> ' depth <u>3</u> '			
(Attach diagram)	Reference: wellhead <input checked="" type="checkbox"/> other _____		
Footage from reference: <u>116'</u>			
Direction from reference: <u>82</u> Degrees <input checked="" type="checkbox"/> East <input checked="" type="checkbox"/> North <input type="checkbox"/> West <input type="checkbox"/> South _____ of _____			
Depth to Ground Water:			
(Vertical distance from contaminants to seasonal high water elevation of ground water)		Less than 50 feet 50 feet to 99 feet Greater than 100 feet	(20 points) (10 points) (0 points) <u>10</u>
Wellhead Protection Area:			
(Less than 200 feet from a private domestic water source, or, less than 1,000 feet from all other water sources)		Yes No	(20 points) (0 points) <u>0</u>
Distance to Surface Water:			
(Horizontal distance to perennial lakes, ponds, rivers, streams, creeks, irrigation canals and ditches)		Less than 200 feet 200 feet to 1,000 feet Greater than 1,000 feet	(20 points) (10 points) (0 points) <u>0</u>
RANKING SCORE (TOTAL POINTS) :			<u>10</u>

Taliaferro #3E

Date Remediation Started: 06/01/1999

Date Completed: 06/02/1999

Remediation Method:

Excavation

X

Approx. Cubic Yard

155

(Check all appropriate sections)

Landfarmed

X

Amount Landfarmed (cubic yds)

155

Other

Remediation Location:

Onsite

X

Offsite

(i.e., landfarmed onsite, name and location of offsite facility)

Backfill Material Location:

General Description of Remedial Action:

Excavated contaminated soil to a pit size of 21' X 20' X 10' and landfarmed soil onsite within a bermed area at a depth of 6" to 12". Soil was aerated by disking/plowing until soil met regulatory levels.

*** Sandstone encountered at 10'. See attached risk analysis form.

Ground Water Encountered:

No



Yes



Depth

Final Pit Closure Sampling:

Sample Location

5 pt composite-bottom

(if multiple samples, attach sample result and diagram of sample locations and depths.)

Sample depth

10'

Sample date

06/02/1999

Sample time

8:45:00 AM

Sample Results

Benzene (ppm)

2

Total BTEX (ppm)

231 ***

Field headspace (ppm)

TPH (ppm)

750.00

Method

8015B

Vertical Extent (ft)

Risk Analysis form attached Yes



No

Ground Water Sample:

Yes



No



(If yes, see attached Groundwater Site Summary Report)

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

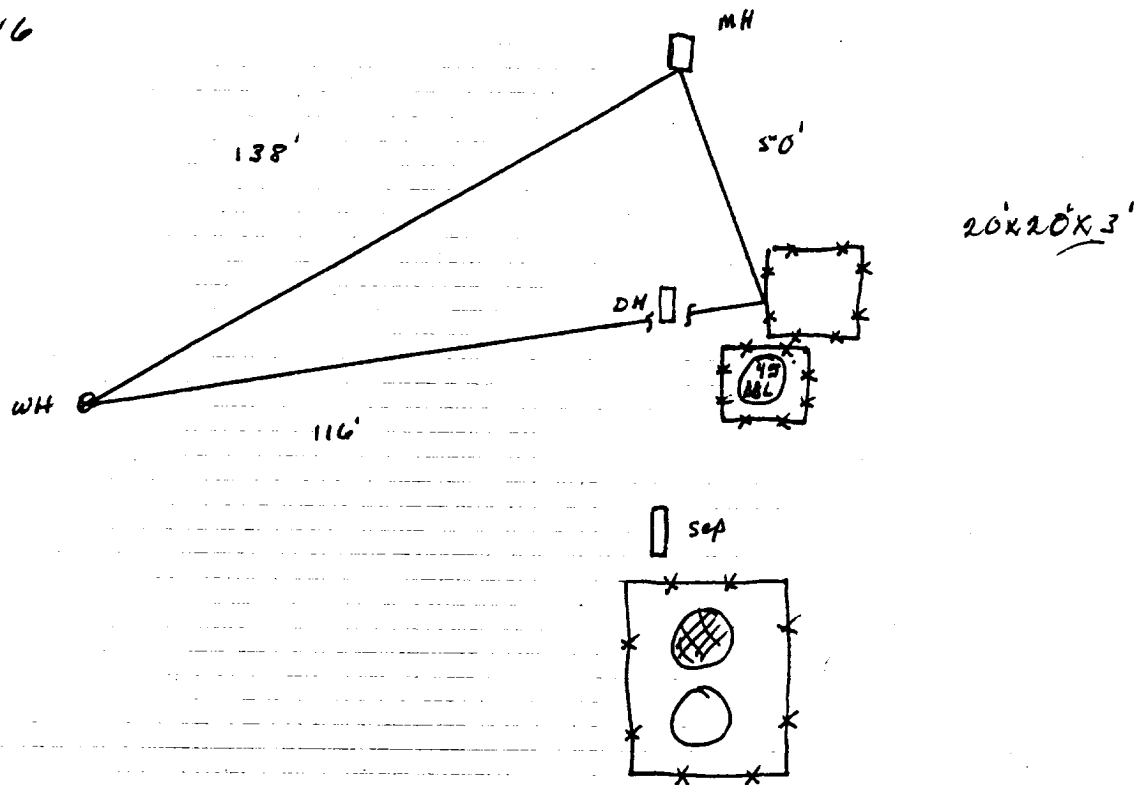
DATE January 24, 2000

SIGNATURE

Maureen Gannon

PRINTED NAME Maureen Gannon
AND TITLE Project Manager

Talioferro # 3E
 (O) 31-31N-12W
 ENERGEN
 4-1-94 at 1516

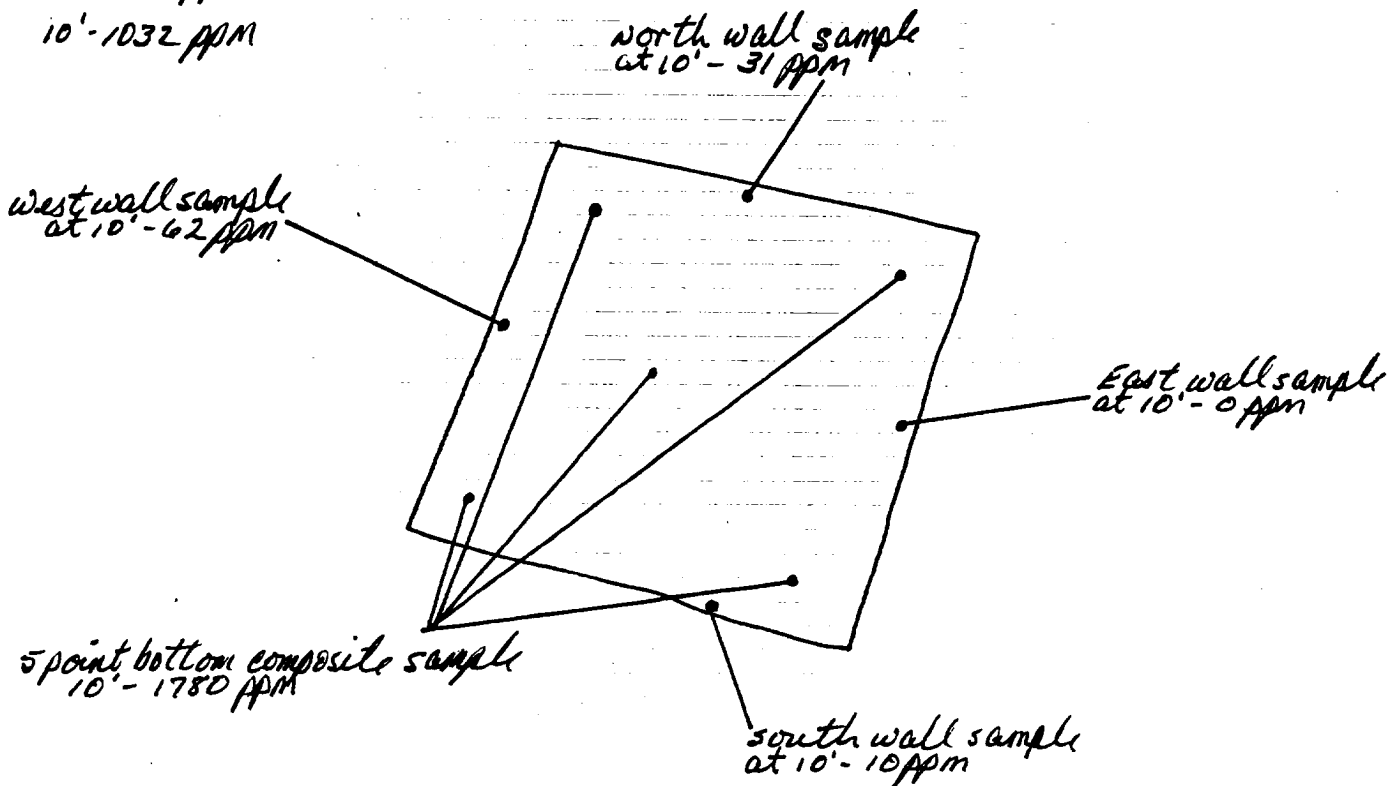


Excavation Sampling

21'(N+S) X 20'(E+W) X 10'(D)

PID Readings

5'-1382 ppm
 10'-1032 ppm



not to scale

OFF: (505) 325-5667



LAB: (505) 325-1556

On Site Technologies, LTD.

Date: 17-Jun-99

CLIENT: PNM - Public Service Company of NM

Project: PNM Pit Remediation

Lab Order: 9906011

CASE NARRATIVE

Samples were analyzed using the methods outlined in the following references:

Test Methods for Evaluating Solid Waste, Physical/Chemical Methods, SW846, 3rd Edition

All method blanks, laboratory spikes, and/or matrix spikes met quality assurance objectives.

OFF: (505) 325-5667



RH

LAB: (505) 325-1556

ANALYTICAL REPORT

Date: 17-Jun-99

Client:	PNM - Public Service Company of NM	Client Sample Info:	Taliaferro #3E
Work Order:	9906011	Client Sample ID:	9906020845; 5pt. Bottom Comp
Lab ID:	9906011-01A	Matrix:	SOIL
Project:	PNM Pit Remediation	Collection Date:	6/2/99 8:45:00 AM
		COC Record:	7632

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
DIESEL RANGE ORGANICS		SW8015B				Analyst: DC
T/R Hydrocarbons: C10-C28	750	25		mg/Kg	1	6/14/99
AROMATIC VOLATILES BY GC/PID		SW8021B				Analyst: DC
Benzene	2000	1000		µg/Kg	1000	6/11/99
Toluene	60000	2000		µg/Kg	1000	6/11/99
Ethylbenzene	13000	1000		µg/Kg	1000	6/11/99
m,p-Xylene	130000	2000		µg/Kg	1000	6/11/99
o-Xylene	26000	1000		µg/Kg	1000	6/11/99

231000
231 ppm

Qualifiers:	PQL - Practical Quantitation Limit	S - Spike Recovery outside accepted recovery limits
	ND - Not Detected at Practical Quantitation Limit	R - RPD outside accepted recovery limits
	J - Analyte detected below Practical Quantitation Limit	E - Value above quantitation range
	B - Analyte detected in the associated Method Blank	Surr: - Surrogate

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- TECHNOLOGY BLENDING INDUSTRY WITH THE ENVIRONMENT -

1 of 1

OFF: (505) 325-5667



LAB: (505) 325-1556

ANALYTICAL REPORT

Date: 17-Jun-99

Client:	PNM - Public Service Company of NM	Client Sample Info:	Taliaferro #3E
Work Order:	9906011	Client Sample ID:	9906020850; 4pt. Wall Comp
Lab ID:	9906011-02A	Matrix:	SOIL
Project:	PNM Pit Remediation	Collection Date:	6/2/99 8:50:00 AM
		COC Record:	7632

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
DIESEL RANGE ORGANICS		SW8015B				Analyst: DC
T/R Hydrocarbons: C10-C28	ND	25		mg/Kg	1	6/9/99

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

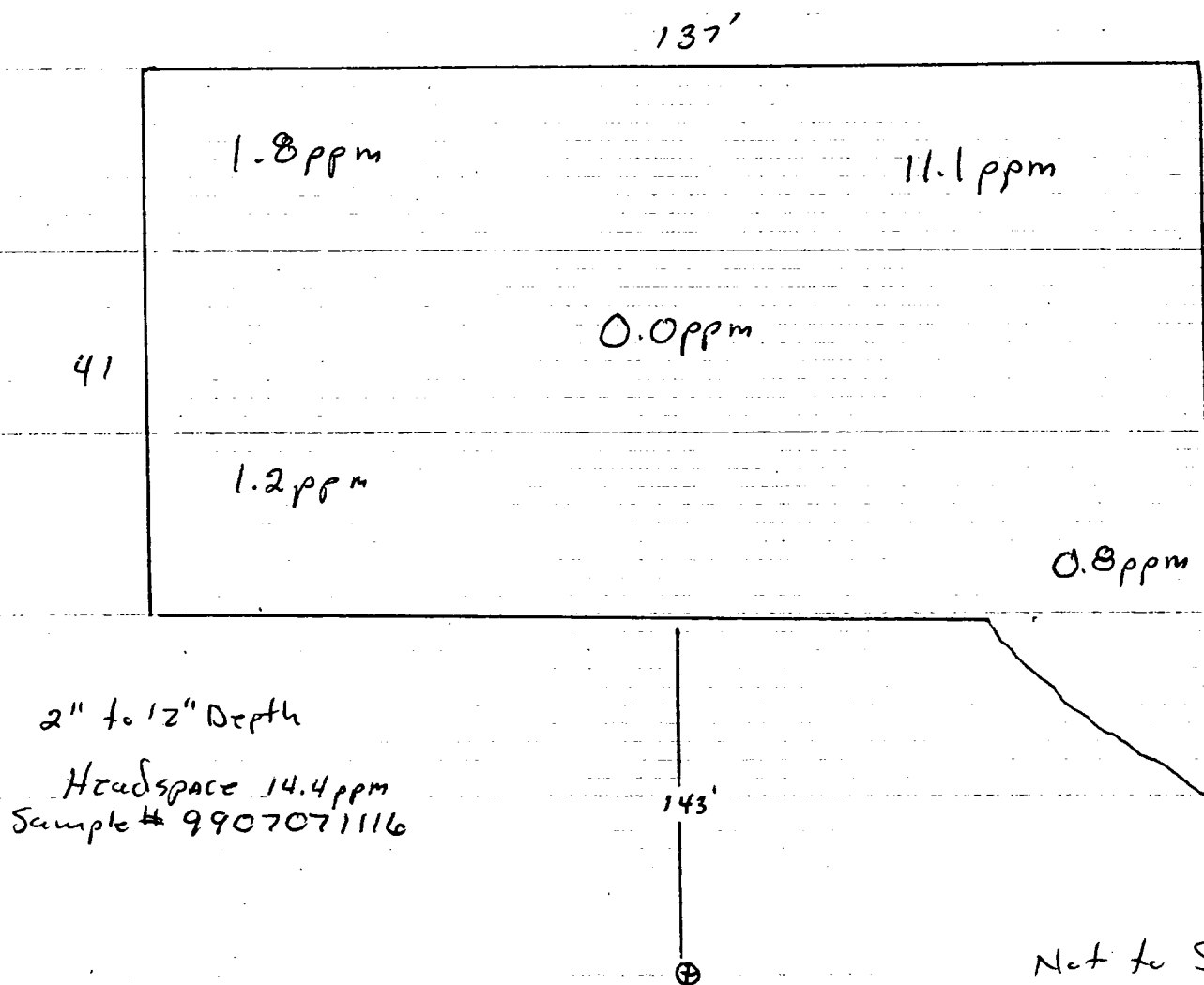
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1 of 1

TALIAferro #3E
SEC-31 T-31N R-12W UL-0
Energen

LAND FARM DRAWING

App 155 cu yds



OFF: (505) 325-5667



LAB: (505) 325-1556

On Site Technologies, LTD.

Date: 20-Jul-99

CLIENT: PNM - Public Service Company of NM
Project: Taliaferro 5M, 2 & 3E LF
Lab Order: 9907012

CASE NARRATIVE

Samples were analyzed using the methods outlined in the following references:

Test Methods for Evaluating Solid Waste, Physical/Chemical Methods, SW846, 3rd Edition

All method blanks, laboratory spikes, and/or matrix spikes met quality assurance objectives.

OFF: (505) 325-5667



Roy

LAB: (505) 325-1556

ANALYTICAL REPORT

Date: 20-Jul-99

Client:	PNM - Public Service Company of NM	Client Sample Info:	Taliaferro #3E LF
Work Order:	9907012	Client Sample ID:	9907071116 5pt Comp
Lab ID:	9907012-03A	Matrix:	SOIL
Project:	Taliaferro 5M, 2 & 3E LF	Collection Date:	7/7/99 11:16:00 AM
		COC Record:	7729

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
DIESEL RANGE ORGANICS		SW8015B				Analyst: DC
T/R Hydrocarbons: C10-C28	ND	25		mg/Kg	1	7/19/99

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

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- TEMPORARILY RELOCATED TO 1000 N. 10TH ST. FARMINGTON, NM 87401 -



Environmental Services

Well Name:	Taliaferro #3E
Well Legals:	Unit O, Sec 31, T31N, R12W
Pit Type:	Dehydrator
Horizontal Distance to Surface Water:	Greater than 1,000 feet
Groundwater Depth:	50 feet to 99 feet

RISK ANALYSIS

PNM requests closure of their former pit on the Taliaferro #3E well site using a limited risk analysis based on the following conditions:

1. Groundwater is estimated to be at a depth of 66 feet based upon the elevation of the site and the elevation of the nearest "listed" or "named" wash. (Reference: Farmington North, NM series 7.5 minute topographic map.)
2. PNM excavated 155 cubic yards of soil from the former pit. Source removal minimizes the possibility of surface water contamination.
3. Sandstone was encountered at 10 feet below ground surface. Bedrock/sandstone provides a barrier between remaining contamination and groundwater. Vertical migration through bedrock or sandstone to groundwater is unlikely.
4. PNM excavated and performed remediation to the maximum depth and horizontal extent practicable.

PNM believes that their former pit on the Taliaferro #3E well site poses minimal threat to groundwater, human health and the environment based upon our past experience in excavating over 1,000 pits.