

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
Bullock*

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

PIT REMEDIATION AND CLOSURE REPORT

Operator: PNM Gas Services (R.C. Resources) Telephone: 324-3764

Address: 603 W. Elm Street Farmington, NM 87401

Facility or Well Name: Taliaferro #5M

Location: Unit I Sec 30 T 31 N R 12 W County San Juan

Pit Type: Separator ☐ Dehydrator ☒ Other

Land Type: BLM ☐ State ☐ Fee ☒ Other

Pit Location: Pit dimensions: length 17' width 17' depth 3'

(Attach diagram) Reference: wellhead ☒ other

Footage from reference: 112'

Direction from reference: 30 Degrees ☐ East North ☒
of
☒ West South ☐

Depth to Ground Water: Less than 50 feet (20 points)
50 feet to 99 feet (10 points)
Greater than 100 feet (0 points) 10

(Vertical distance from contaminants to seasonal high water elevation of ground water)

Wellhead Protection Area: Yes (20 points)
No (0 points) 0

(Less than 200 feet from a private domestic water source, or, less than 1,000 feet from all other water sources)

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DIST. 3

Distance to Surface Water: Less than 200 feet (20 points)
200 feet to 1,000 feet (10 points)
Greater than 1,000 feet (0 points) 0

(Horizontal distance to perennial lakes, ponds, rivers, streams, creeks, irrigation canals and ditches)

RANKING SCORE (TOTAL POINTS): 10

Taliaferro #5M

Date Remediation Started: 06/03/1999

Date Completed: 06/07/1999

Remediation Method:

Excavation

☒

Approx. Cubic Yard

151

(Check all appropriate sections)

Landfarmed

☒

Amount Landfarmed (cubic yds)

151

Other

Remediation Location:

Onsite

☒

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 29.5' X 34.5' X 4' 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 4'. 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

4'

Sample date

06/07/1999

Sample time

8:00:00 AM

Sample Results

Benzene (ppm)

2.7

Total BTEX (ppm)

128.9 ***

Field headspace (ppm)

TPH (ppm)

570.00

Method

8015B

Vertical Extent (ft)

Risk Analysis form attached

Yes

☒

No

☐

Ground Water Sample:

Yes

☐

No

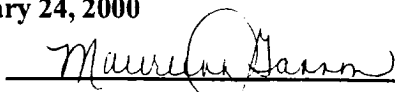
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(If yes, see attached Groundwater Site Summary Report)

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

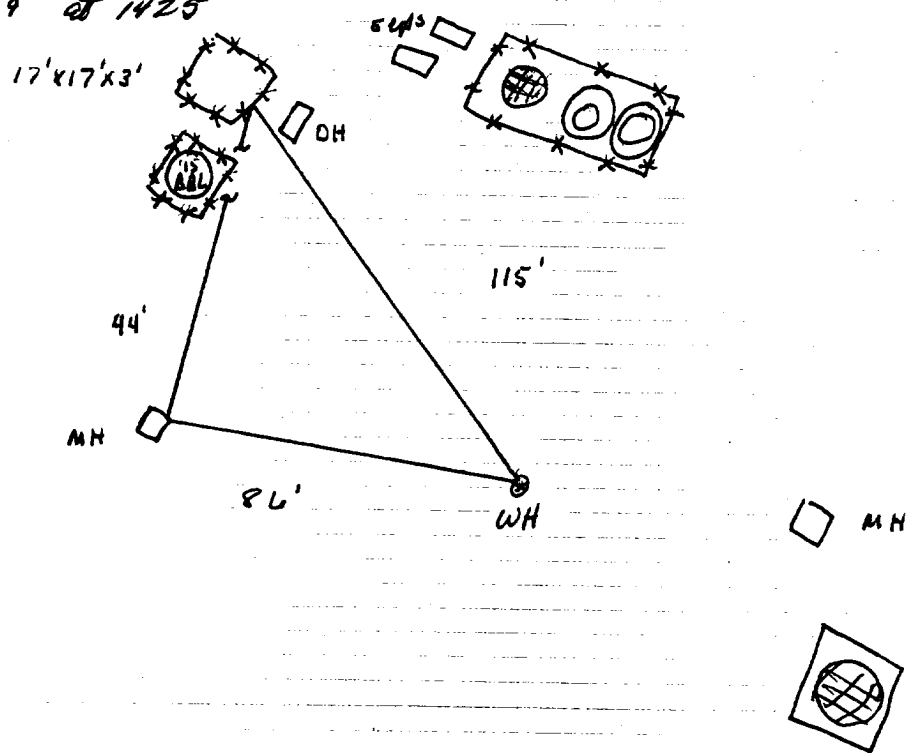
DATE January 24, 2000

SIGNATURE

PRINTED NAME Maureen Gannon
AND TITLE Project Manager

2

Talioferro #5M
(I) 30-31N-12W
R.C. Resources Corp
6-3-99 at 1425

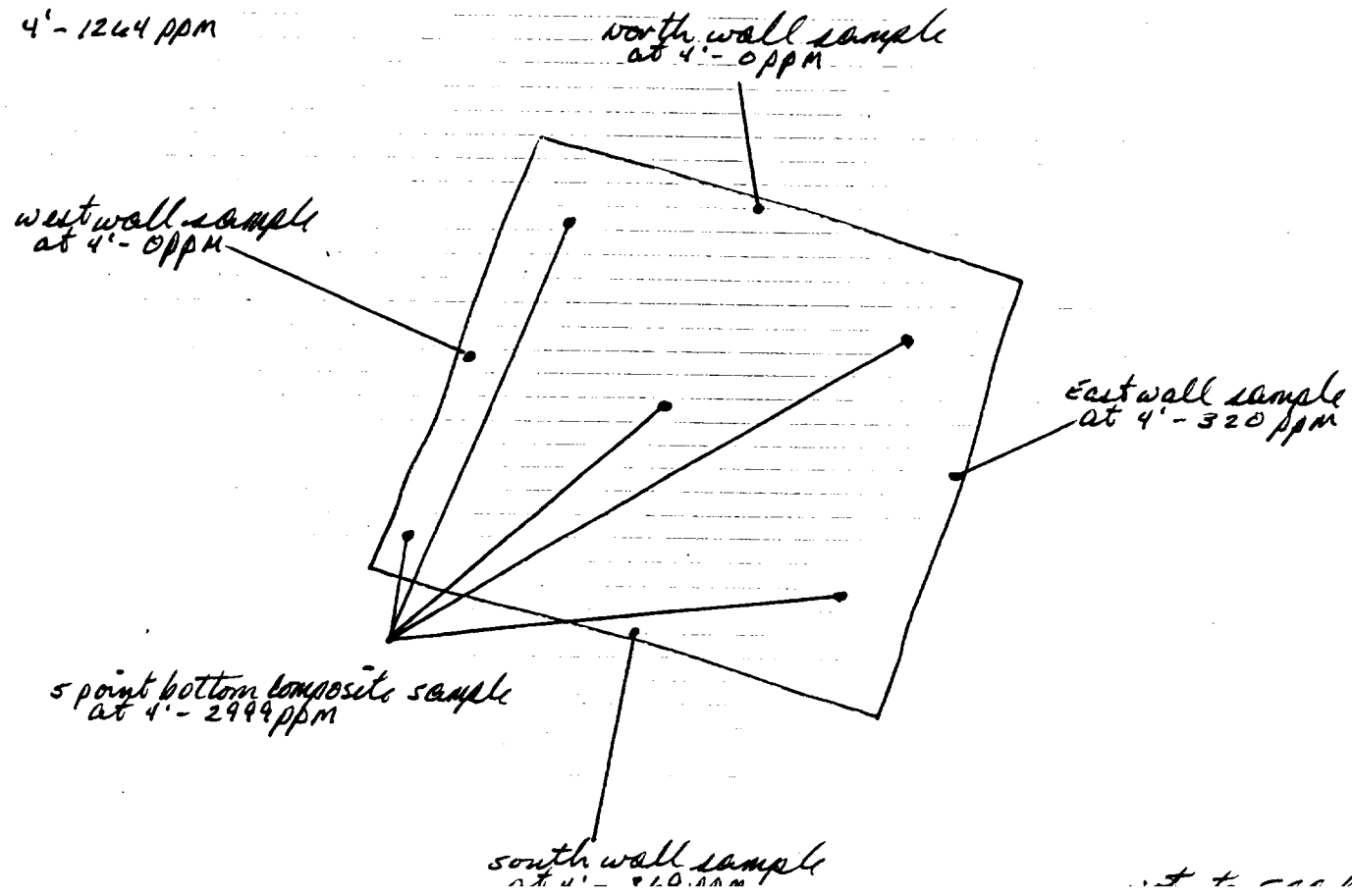


Excavation Sampling

29.5'(N+S) x 34.5'(E+W) x 4'(D)

PID Readings

4' - 1264 ppm



OFF: (505) 325-5667



LAB: (505) 325-1556

On Site Technologies, LTD.

Date: 23-Jun-99

CLIENT: PNM - Public Service Company of NM

Project: Taliaferro #5M & #6

Lab Order: 9906024

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.

RH

OFF: (505) 325-5667



LAB: (505) 325-1556

ANALYTICAL REPORT

Date: 23-Jun-99

Client:	PNM - Public Service Company of NM	Client Sample Info:	Taliaferro #5M
Work Order:	9906024	Client Sample ID:	9906070800; 5pt. Bottom Comp
Lab ID:	9906024-01A	Matrix:	SOIL
Project:	Taliaferro #5M & #6	Collection Date:	6/7/99 8:00:00 AM
		COC Record:	7634

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
DIESEL RANGE ORGANICS						
T/R Hydrocarbons: C10-C28	570	25		mg/Kg	1	Analyst: DC 6/16/99
AROMATIC VOLATILES BY GC/PID						
Benzene	2700	1000		µg/Kg	1000	Analyst: DC 6/10/99
Toluene	29000	2000		µg/Kg	1000	6/10/99
Ethylbenzene	7200	1000		µg/Kg	1000	6/10/99
m,p-Xylene	74000	2000		µg/Kg	1000	6/10/99
o-Xylene	16000	1000		µg/Kg	1000	6/10/99

128900
128.9 ppm

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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OFF: (505) 325-5667



LAB: (505) 325-1556

ANALYTICAL REPORT

Date: 23-Jun-99

Client:	PNM - Public Service Company of NM	Client Sample Info:	Taliaferro #5M
Work Order:	9906024	Client Sample ID:	9906070805; 4pt. Wall Comp
Lab ID:	9906024-02A	Matrix:	SOIL
Project:	Taliaferro #5M & #6	Collection Date:	6/7/99 8:05:00 AM
		COC Record:	7634

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
DIESEL RANGE ORGANICS		SW8015B				Analyst: DC
T/R Hydrocarbons: C10-C28	ND	25		mg/Kg	1	6/14/99

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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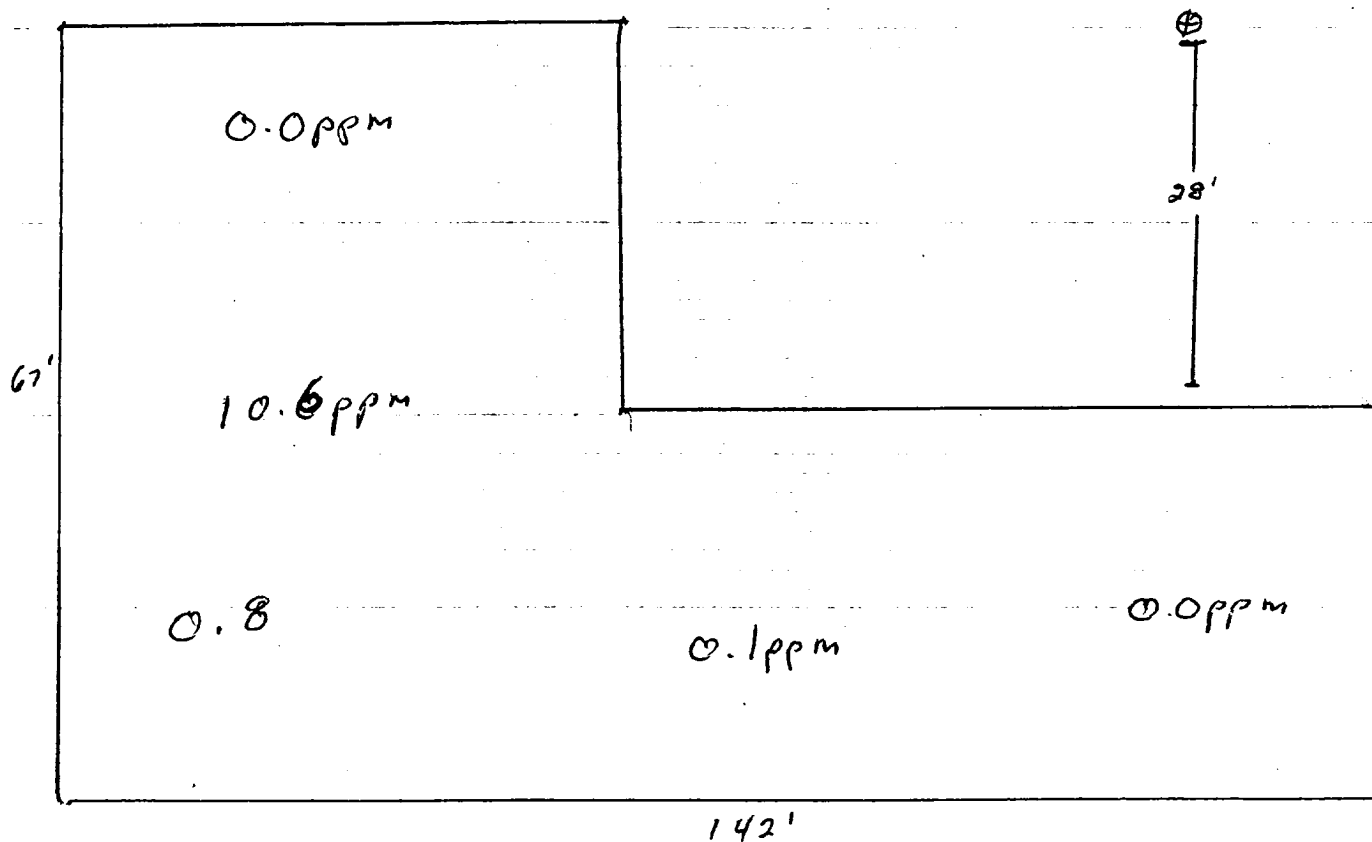
Taliaferro #5M
Sec-30 T-31N R-12W 46-I
R.C. Resources Corp

LANDFARM DRAWING

APP 150 cu. yds

2" to 12" Depth

Headspace 19.6
Sample # 9907071007



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.

Roy

OFF: (505) 325-5667



LAB: (505) 325-1556

ANALYTICAL REPORT

Date: 20-Jul-99

Client:	PNM - Public Service Company of NM	Client Sample Info:	Taliaferro #5M LF
Work Order:	9907012	Client Sample ID:	9907071007 5pt Comp
Lab ID:	9907012-01A	Matrix:	SOIL
Project:	Taliaferro 5M, 2 & 3E LF	Collection Date:	7/7/99 10:07:00 AM
		COC Record:	7729

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
DIESEL RANGE ORGANICS		SW8015B				Analyst: DC
T/R Hydrocarbons: C10-C28	39	25		mg/Kg	1	7/19/99

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

1 of 1

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TECHNICAL SERVICE DEPARTMENT (505) 325-1556 FAX (505) 325-1557



Environmental Services

Well Name:	Taliaferro #5M
Well Legals:	Unit I, Sec 30, T31N, R12W
Pit Type:	Dehydrator
Horizontal Distance to Surface Water:	Greater than 1,000 feet
Groundwater Depth:	Greater than 100 feet

RISK ANALYSIS

PNM requests closure of their former pit on the Taliaferro #5M well site using a limited risk analysis based on the following conditions:

1. Groundwater is estimated to be at a depth of 58 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 151 cubic yards of soil from the former pit. Source removal minimizes the possibility of surface water contamination.
3. Sandstone was encountered at 4 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 #5M well site poses minimal threat to groundwater, human health and the environment based upon our past experience in excavating over 1,000 pits.