

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
Behak

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

R
Nov - 1 1999

PIT REMEDIATION AND CLOSURE REPORT

OIL CON. DIV.
DIST. 3

Operator: PNM Gas Services (Burlington)		Telephone: 324-3764	
Address: 603 W. Elm Street Farmington, NM 87401			
Facility or Well Name: Dusenberry #1A			
Location:	Unit <u>M</u>	Sec <u>6</u>	T <u>31 N</u> R <u>11 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>21</u> ' width <u>21</u> ' depth <u>3</u> '		
(Attach diagram)	Reference: wellhead <input checked="" type="checkbox"/> other _____		
	Footage from reference: <u>90</u> '		
	Direction from reference: <u>10</u> Degrees <input checked="" type="checkbox"/> East <input type="checkbox"/> North <input type="checkbox"/> South <input checked="" type="checkbox"/>		
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) <u>0</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 (20 points)			
No (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 (20 points)			
200 feet to 1,000 feet (10 points)			
Greater than 1,000 feet (0 points) <u>0</u>			
RANKING SCORE (TOTAL POINTS): <u>0</u>			

Dusenberry #1A

Date Remediation Started: 05/13/1999

Date Completed: 05/13/1999

Remediation Method: Excavation ☒ Approx. Cubic Yard 348
(Check all appropriate sections) Landfarmed ☒ Amount Landfarmed (cubic yds) 348
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 42' X 28' X 8' 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.

***Bedrock encountered at 8'. 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 8'

Sample date 05/13/1999 Sample time 3:25:00 PM

Sample Results

Benzene (ppm) 4.9

Total BTEX (ppm) 94.8 ***

Field headspace (ppm) _____

TPH (ppm) 370.00 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

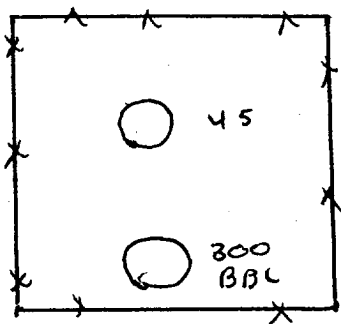
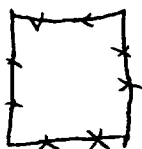
DATE October 28, 1999

SIGNATURE Maureen Gannon

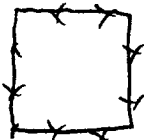
PRINTED NAME Maureen Gannon
AND TITLE Project Manager

Dusenberry # 1A
Sec-6 T-31N R-11W
Burlington

Site Drawing



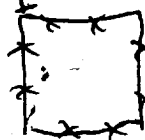
SEP



well head

90'

DH



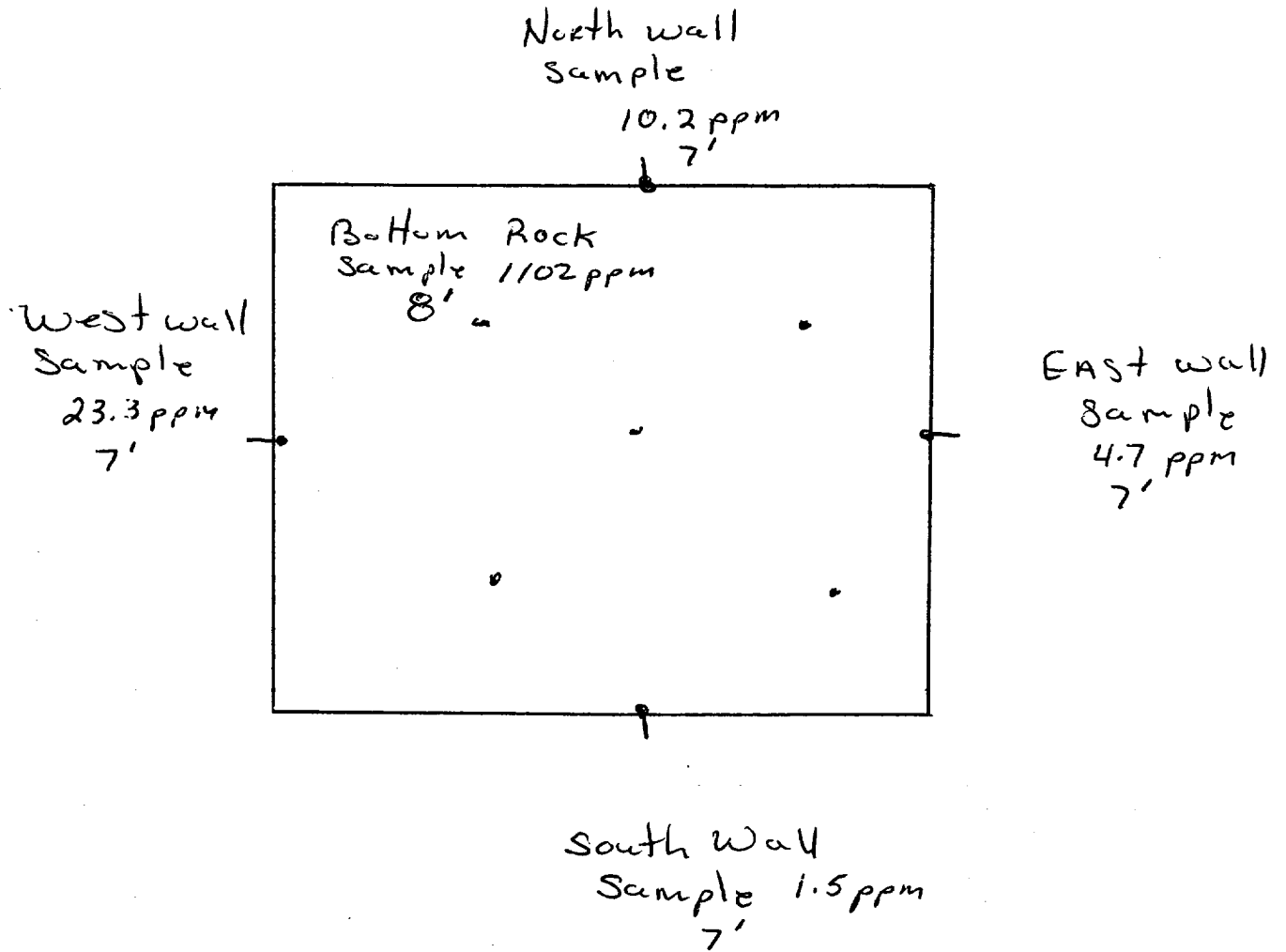
meter house

Not to Scale

Dusenberry #1A
Sec - 6 T-31N R-11W UL-M
Burlington

42' x 28' x 8'
348 cu yds

EXCAVATION DRAWING



Not to Scale

OFF: (505) 325-5667



LAB: (505) 325-1556

On Site Technologies, LTD.

Date: 26-May-99

CLIENT: PNM - Public Service Company of NM
Project: Dusenberry #1A
Lab Order: 9905057

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.

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OFF: (505) 325-5667



LAB: (505) 325-1556

ANALYTICAL REPORT

Date: 26-May-99

Client: PNM - Public Service Company of NM
Work Order: 9905057
Lab ID: 9905057-02A **Matrix:** SOIL
Project: Dusenberry #1A

Client Sample Info: Dusenberry #1A
Client Sample ID: 9905131525; 5pt Comp
Collection Date: 5/13/99 3:25:00 PM
COC Record: 7619

(bottom
at 8')

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
DIESEL RANGE ORGANICS		SW8015B				
T/R Hydrocarbons: C10-C28	370	25		mg/Kg	1	5/20/99
AROMATIC VOLATILES BY GC/PID		SW8021B				
Benzene	4900	500		µg/Kg	500	5/19/99
Toluene	30000	1000		µg/Kg	500	5/19/99
Ethylbenzene	4900	500		µg/Kg	500	5/19/99
m,p-Xylene	45000	1000		µg/Kg	500	5/19/99
o-Xylene	10000	500		µg/Kg	500	5/19/99

94800
94.8 ppm

Analyst: DC

Analyst: DM

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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- TECHNOLOGY BLENDING INDUSTRY WITH THE ENVIRONMENT -

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OFF: (505) 325-5667



LAB: (505) 325-1556

ANALYTICAL REPORT

Date: 26-May-99

Client:	PNM - Public Service Company of NM	Client Sample Info:	Dusenberry #1A
Work Order:	9905057	Client Sample ID:	9905131520; 4pt Comp (walls)
Lab ID:	9905057-01A	Matrix:	SOIL
Project:	Dusenberry #1A	Collection Date:	5/13/99 3:20:00 PM
		COC Record:	7619

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
DIESEL RANGE ORGANICS		SW8015B				Analyst: DC
T/R Hydrocarbons: C10-C28	ND	25		mg/Kg	1	5/20/99

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

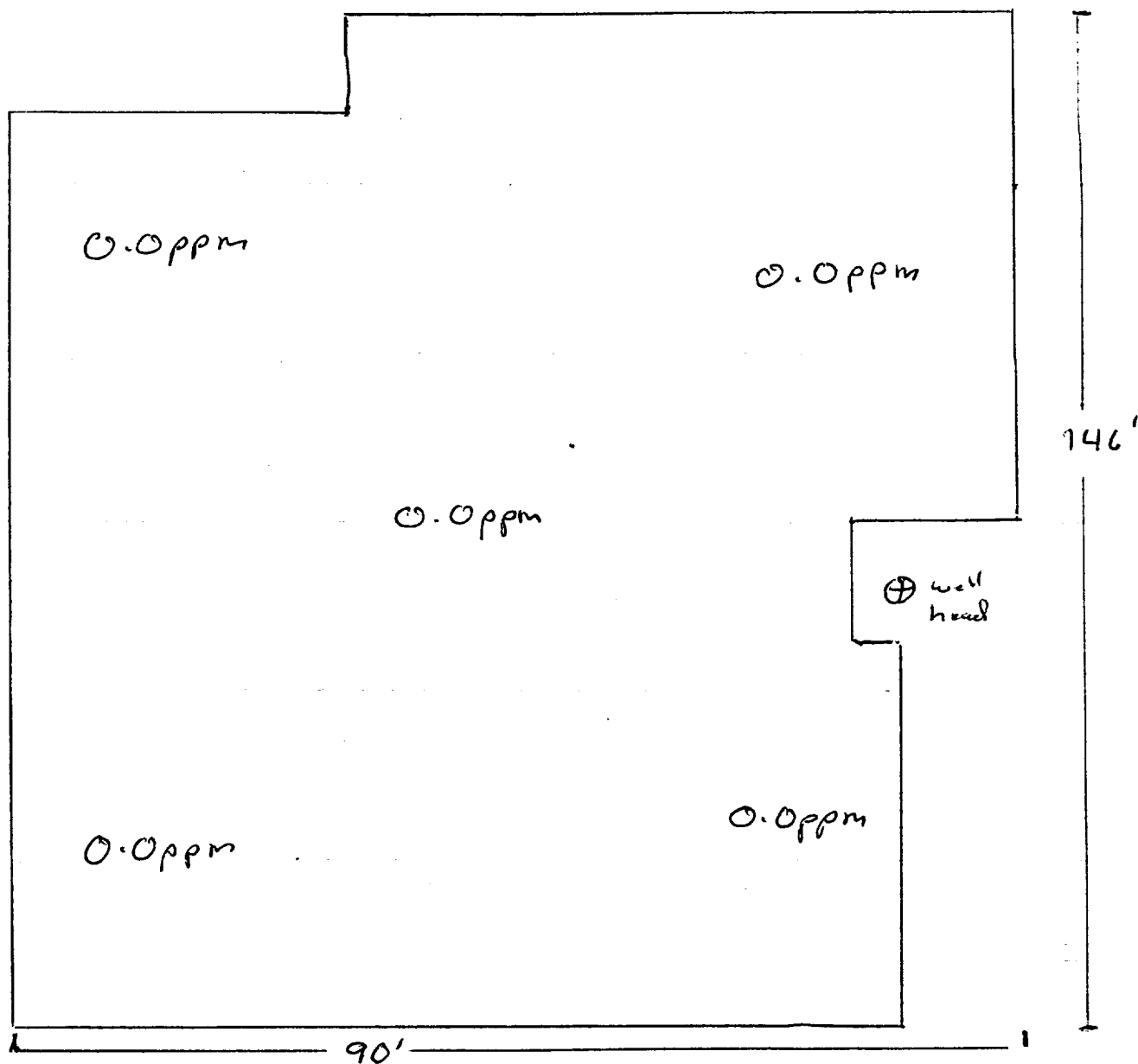
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- TECHNOLOGY BLENDING INDUSTRY WITH THE ENVIRONMENT -

Dusenberry # 1A
Sec-6 T-31N R-11W
Burlington

LANDFARM DRAWING

APP 348 cu. yds



2" to 12" Depth
H. S. 8.5 ppm
Sample # 9907070929

Not To Scale

OFF: (505) 325-5667



LAB: (505) 325-1556

On Site Technologies, LTD.

Date: 22-Jul-99

CLIENT: PNM - Public Service Company of NM
Project: Dusenbery, Grenier & Horton LF
Lab Order: 9907013

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.

Ron

OFF: (505) 325-5667



LAB: (505) 325-1556

ANALYTICAL REPORT

Date: 22-Jul-99

Client:	PNM - Public Service Company of NM	Client Sample Info:	Dusenbery 1A LF
Work Order:	9907013	Client Sample ID:	9907070929; 5pt Comp
Lab ID:	9907013-03A	Matrix:	SOIL
Project:	Dusenbery, Grenier & Horton LF	Collection Date:	7/7/99 9:29:00 AM
		COC Record:	7032

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



Environmental Services

Well Name:	Dusenberry #1A
Well Legals:	Unit M, Sec 6, T31N, R11W
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 Dusenberry #1A well site using a limited risk analysis based on the following conditions:

1. Groundwater is estimated to be at a depth of 178 feet based upon the elevation of the site and the elevation of the nearest "listed" or "named" wash. (Reference: Adobe Downs Ranch, NM series 7.5 minute topographic map.)
2. PNM excavated 348 cubic yards of soil from the former pit. Subsurface lateral contamination has been remediated (see attached map and analytical results for the side wall profiles). Source removal minimizes the possibility of surface water contamination.
3. Rock was encountered at 8 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 their former pit on the Dusenberry #1A well site poses minimal threat to groundwater, human health and the environment based upon our past experience in excavating over 1,000 pits.