

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
bedrock

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

PIT REMEDIATION AND CLOSURE REPORT

R

NOV - 1 1983

OIL CON. DIV.
DMR 3

Operator: PNM Gas Services (Burlington) Telephone: 324-3764

Address: 603 W. Elm Street Farmington, NM 87401

Facility or Well Name: East #5

Location: Unit N Sec 24 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 20 ' width 20 ' depth 1 '

(Attach diagram) Reference: wellhead ☒ other

Footage from reference: 180'

Direction from reference: 45 Degrees ☒ East North ☒
of ☐ West South

Depth to Ground Water: Less than 50 feet (20 points)
50 feet to 99 feet (10 points)
(Vertical distance from contaminants to seasonal high water elevation of ground water) Greater than 100 feet (0 points) 0

Wellhead Protection Area: Yes (20 points)
(Less than 200 feet from a private domestic water source, or, less than 1,000 feet from all other water sources) No (0 points) 0

Distance to Surface Water: Less than 200 feet (20 points)
200 feet to 1,000 feet (10 points)
(Horizontal distance to perennial lakes, ponds, rivers, streams, creeks, irrigation canals and ditches) Greater than 1,000 feet (0 points) 0

RANKING SCORE (TOTAL POINTS): 0

East #5

Date Remediation Started: 05/26/1999

Date Completed: 05/26/1999

Remediation Method:

Excavation

X

Approx. Cubic Yard

760

(Check all appropriate sections)

Landfarmed

X

Amount Landfarmed (cubic yds)

630

Other

130 cu. yds. overburden.

Remediation Location:

Onsite

Offsite

X - East #13

(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 27' X 38' X 20' and landfarmed soil offsite at East #13 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 20'. 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

20'

Sample date

05/26/1999

Sample time

1:00:00 PM

Sample Results

Benzene (ppm)

6.4

Total BTEX (ppm)

213.4 ***

Field headspace (ppm)

TPH (ppm)

860.00

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

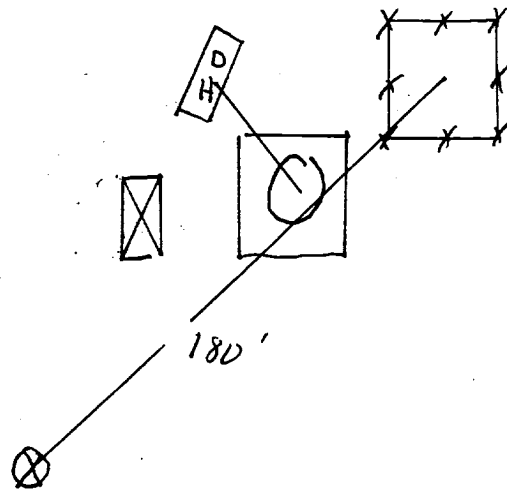
PRINTED NAME Maureen Gannon
AND TITLE Project Manager

East # 5
Burlington
Sec. 24, 31 N, 12 W, N

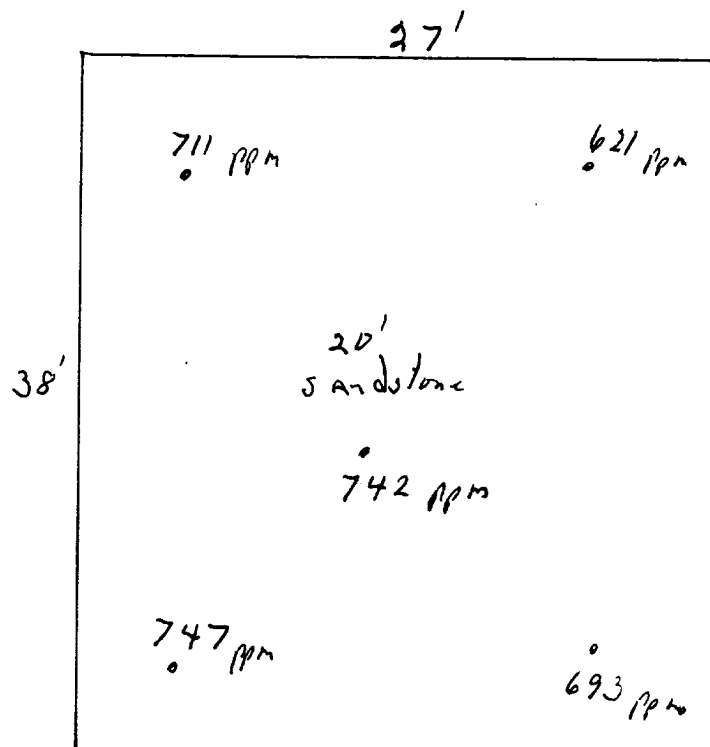
5/26/99



Site diagram:



End of excavation:



not to scale

OFF: (505) 325-5667



LAB: (505) 325-1556

On Site Technologies, LTD.

Date: 08-Jun-99

CLIENT: PNM - Public Service Company of NM

Project: East #5 & #5A

Lab Order: 9905096

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



LARY

LAB: (505) 325-1556

ANALYTICAL REPORT

Date: 08-Jun-99

Client:	PNM - Public Service Company of NM	Client Sample Info:	East #5
Work Order:	9905096	Client Sample ID:	9905261300; Bottom @ 20ft. - 5 ft. Composite
Lab ID:	9905096-01A	Matrix:	SOIL
Project:	East #5 & #5A	Collection Date:	5/26/99 1:00:00 PM
		COC Record:	7600

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
DIESEL RANGE ORGANICS		SW8015B				Analyst: DC
T/R Hydrocarbons: C10-C28	860	25		mg/Kg	1	6/3/99
AROMATIC VOLATILES BY GC/PID		SW8021B				Analyst: DC
Benzene	6400	1000		µg/Kg	1000	6/1/99
Toluene	40000	2000		µg/Kg	1000	6/1/99
Ethylbenzene	11000	1000		µg/Kg	1000	6/1/99
m,p-Xylene	140000	2000		µg/Kg	1000	6/1/99
o-Xylene	16000	1000		µg/Kg	1000	6/1/99

213400
213.4 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

OFF: (505) 325-5667



LAB: (505) 325-1556

ANALYTICAL REPORT

Date: 08-Jun-99

Client:	PNM - Public Service Company of NM	Client Sample Info:	East #5
Work Order:	9905096	Client Sample ID:	9905261305; Walls @ 15ft.
Lab ID:	9905096-02A	Matrix:	SOIL
Project:	East #5 & #5A	Collection Date:	5/26/99 1:05:00 PM
		COC Record:	7600

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
DIESEL RANGE ORGANICS						
		SW8015B				Analyst: DC
T/R Hydrocarbons: C10-C28	ND	25		mg/Kg	1	6/3/99
AROMATIC VOLATILES BY GC/PID		SW8021B				Analyst: DM
Benzene	ND	1		µg/Kg	1	5/28/99
Toluene	ND	2		µg/Kg	1	5/28/99
Ethylbenzene	1.5	1		µg/Kg	1	5/28/99
m,p-Xylene	39	2		µg/Kg	1	5/28/99
o-Xylene	4.1	1		µg/Kg	1	5/28/99

44.6
•0446 ppm

Qualifiers:

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B - Analyte detected in the associated Method Blank

S - Spike Recovery outside accepted recovery limits

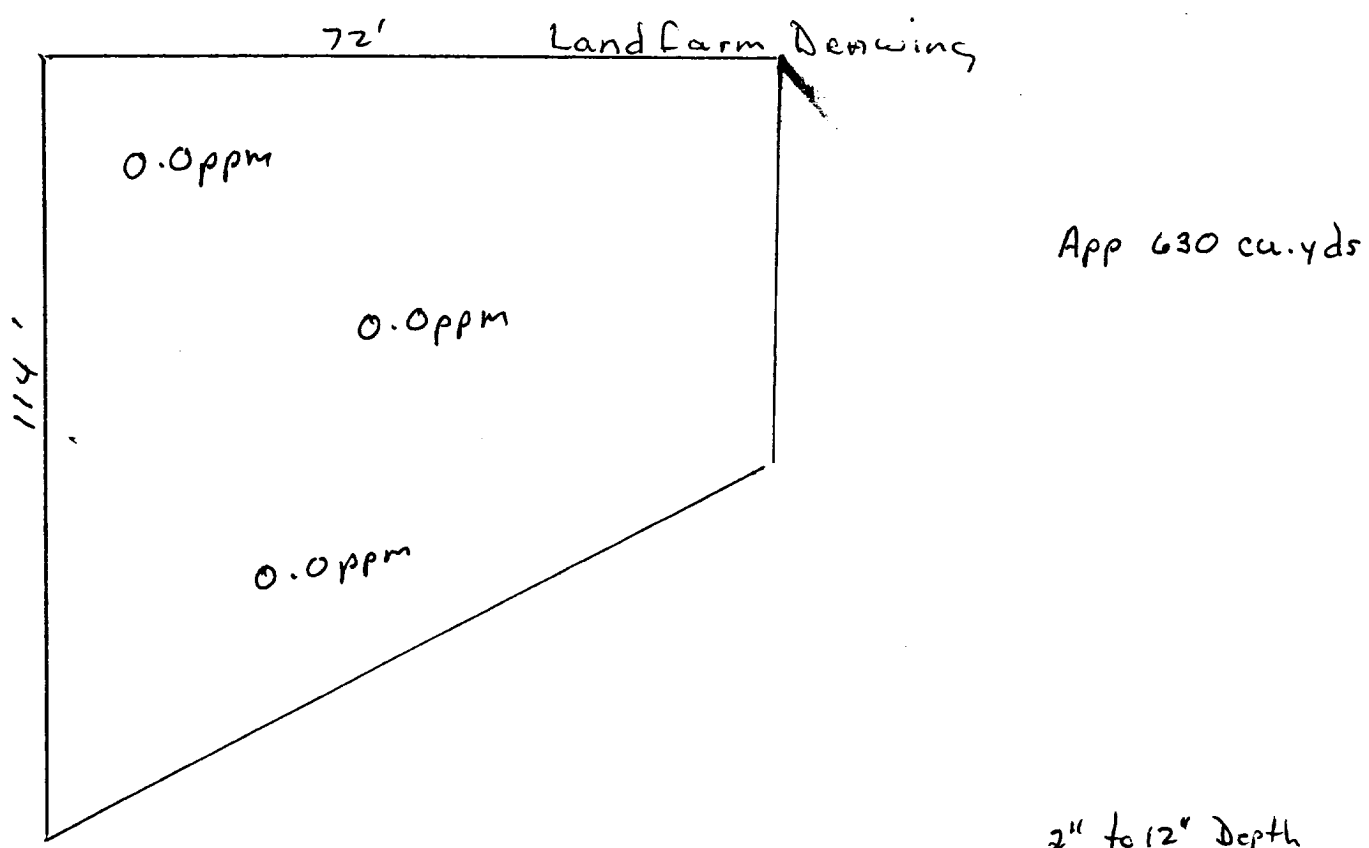
R - RPD outside accepted recovery limits

E - Value above quantitation range

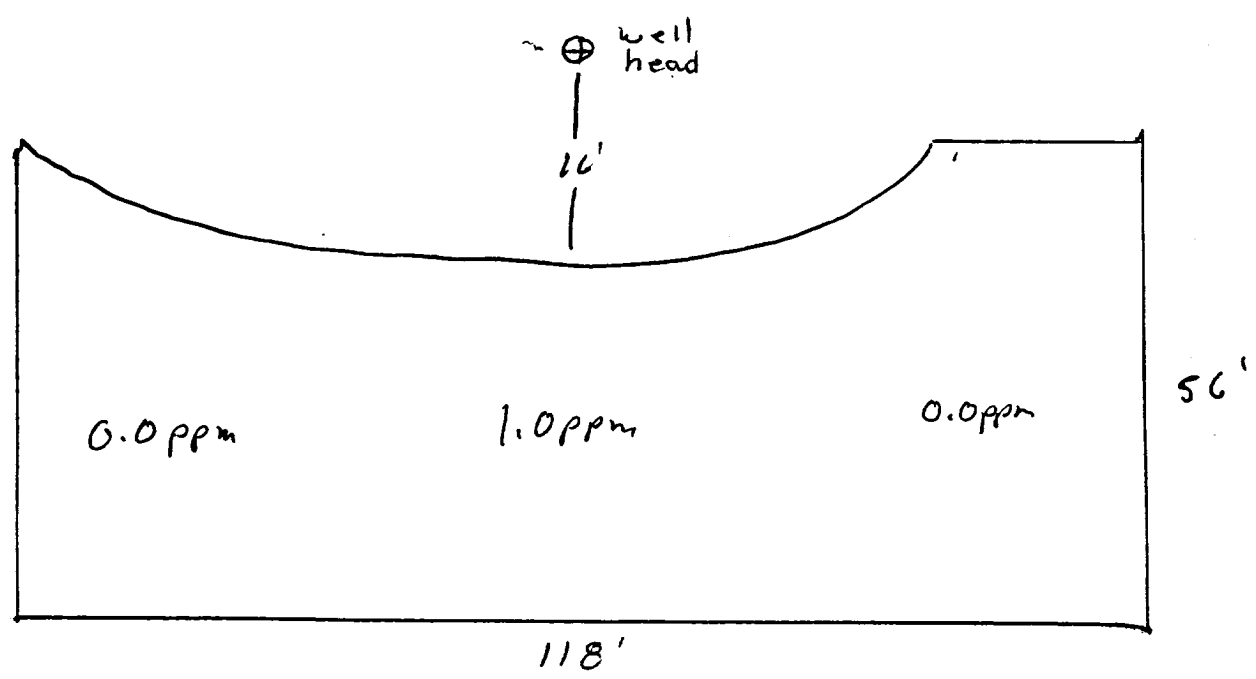
Surr: - Surrogate

1 of 1

EAST 5
SEC-24 T-31N R-12W UL-N
Burlington



2" to 12" Depth
Headspace 5.3 ppm
Sample # 9907120855



Not to Scale

OFF: (505) 325-5667



LAB: (505) 325-1556

On Site Technologies, LTD.

Date: 23-Jul-99

CLIENT: PNM - Public Service Company of NM

Project: PNM Pit Remediation Landfarms

Lab Order: 9907027

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



LAB: (505) 325-1556

ANALYTICAL REPORT

Date: 23-Jul-99

Client:	PNM - Public Service Company of NM	Client Sample Info:	East 5 LF
Work Order:	9907027	Client Sample ID:	9907120855; 6pt. Comp
Lab ID:	9907027-05A	Matrix:	SOIL
		Collection Date:	7/12/99 8:55:00 AM
Project:	PNM Pit Remediation Landfarms	COC Record:	7484

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
DIESEL RANGE ORGANICS		SW8015B				Analyst: DC
T/R Hydrocarbons: C10-C28	ND	25		mg/Kg	1	7/22/99

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:	East #5
Well Legals:	Unit N, Sec 24, 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 East #5 well site using a limited risk analysis based on the following conditions:

1. Groundwater is estimated to be at a depth of 197 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 760 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. Sandstone was encountered at 20 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 East #5 well site poses minimal threat to groundwater, human health and the environment based upon our past experience in excavating over 1,000 pits.