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District III
Rio Brazos, Artesia, NM 88221
DEPUTY OIL & GAS INSPECTOR

District III
1000 Rio Brazos Rd, Artesia, NM 88221
DEC 17 1998

State of New Mexico
Energy, Minerals and Natural Resources Department

OIL CONSERVATION DIVISION

2040 South Pacheco Street
Santa Fe, New Mexico 87505

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

PIT REMEDIATION AND CLOSURE REPORT

RECEIVED
JUL 31 1998

OIL CON. DIV.
DIST. 3

Operator: PNM Gas Services (Cross Timbers) **Telephone:** 324-3764
Address: 603 W. Elm Street Farmington, NM 87401
Facility or Well Name: M.N. Galt J #2
Location: Unit D Sec 6 T 27N R 10W County San Juan
Pit Type: Separator ☐ Dehydrator ☐ Other Drip
Land Type: BLM ☒ State ☐ Fee ☐ Other ☐

Pit Location: Pit dimensions: length 20 width 20 depth 3
(Attach diagram) Reference: wellhead ☒ other ☐
Footage from reference: 189'
Direction from reference: 75 Degrees ☒ East ☐ North ☒
of ☐ West ☐ South ☐

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) 0

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) 0

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) 0

RANKING SCORE (TOTAL POINTS): 0

Date Remediation Started: 4/29/98 Date Completed: 4/30/98Remediation Method: Excavation X Approx. Cubic Yard 12

(Check all appropriate sections)

Landfarmed X Amount Landfarmed (cubic yds) 12

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 8' X 8' X 5' 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 5'. See attached risk analysis and lab analysis form.Ground Water Encountered: No ✓ Yes _____ Depth _____

Final Pit Closure Sampling:

Sample Location Bottom of excavation.

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

Sample depth 5'Sample date 4/29/98 Sample time 10:30:00 AM

Sample Results

Benzene (ppm) 7.0000Total BTEX (ppm) *** 76.2000

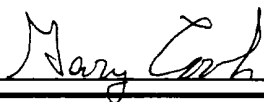
Field headspace (ppm) _____

TPH (ppm) 810.00 Method 8015Vertical 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 July 27, 1998

SIGNATURE _____

PRINTED NAME Gary Cook
AND TITLE Environmental Technician III

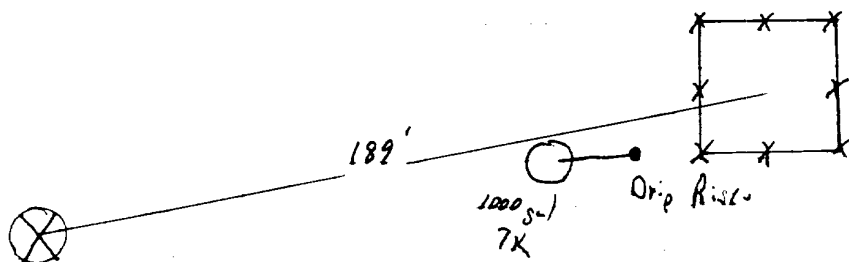
M. N. Galt "J" # 2

Cross Timbers

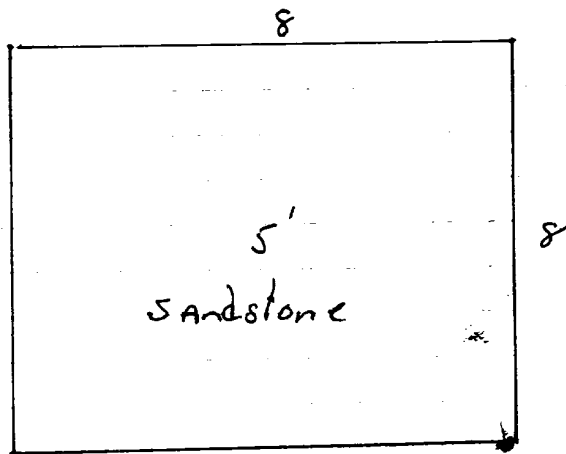
Sec. 6, 27N, 10W, D

4/29/98

Start of excavation:



End of excavation:



OFF: (505) 325-5667



LAB: (505) 325-1556

On Site Technologies, LTD.

Date: 15-May-98

CLIENT: PNM - Public Service Company of NM

Project: M.N Galt "J" #2

Lab Order: 9804058

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: 15-May-98

Client:	PNM - Public Service Company of NM	Client Sample Info:	M.N. Galt "J" #2
Work Order:	9804058	Client Sample ID:	9804291030; Bottom @ 5ft.
Lab ID:	9804058-01A	Matrix:	SOIL
Project:	M.N Galt "J" #2	Collection Date:	4/29/98 10:30:00 AM
		COC Record:	7121

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
DIESEL RANGE ORGANICS		SW8015				Analyst: HR
T/R Hydrocarbons: C10-C28	810	50		mg/Kg	2	5/13/98
BTEX		SW8020A				Analyst: DC
Benzene	7000	500		µg/Kg	500	5/6/98
Toluene	31000	1000		µg/Kg	500	5/6/98
Ethylbenzene	3300	500		µg/Kg	500	5/6/98
m,p-Xylene	28000	1000		µg/Kg	500	5/6/98
o-Xylene	6900	500		µg/Kg	500	5/6/98

76200
76.20 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

1 of 1

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- TECHNICAL BLENDING INDUSTRY WITH THE ENVIRONMENT -

OFF: (505) 325-5667



LAB: (505) 325-1556

ANALYTICAL REPORT

Date: 15-May-98

Client:	PNM - Public Service Company of NM	Client Sample Info:	M.N. Galt "J" #2
Work Order:	9804058	Client Sample ID:	9804291035; Walls @ 3ft.
Lab ID:	9804058-02A	Matrix:	SOIL
Project:	M.N Galt "J" #2	Collection Date:	4/29/98 10:35:00 AM
		COC Record:	7121

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
DIESEL RANGE ORGANICS		SW8015				Analyst: HR
T/R Hydrocarbons: C10-C28	600	25		mg/Kg	1	5/13/98
BTEX		SW8020A				Analyst: DC
Benzene	ND	2		µg/Kg	2	5/6/98
Toluene	ND	4		µg/Kg	2	5/6/98
Ethylbenzene	2.4	2		µg/Kg	2	5/6/98
m,p-Xylene	4.6	4		µg/Kg	2	5/6/98
o-Xylene	ND	2		µg/Kg	2	5/6/98
	7					
	•007 ppm					

Qualifiers:

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Surrogate

1 of 1

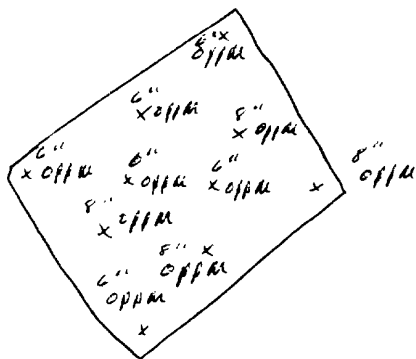
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• TOWN AND PLANNING DEPARTMENT • FARMINGTON, NM •

M.N. Galt J#2
 NW/4 NW/4
 (D) G-27N-10W
 Saw Furan
 Cross Timbers
 Lab Sample # 9805210800
 Field head space - 8.2 ppm



6" - 8"



OFF: (505) 325-5667



LAB: (505) 325-1556

On Site Technologies, LTD.

Date: 29-May-98

CLIENT: PNM - Public Service Company of NM

Project: Landfarm Composites

Lab Order: 9805071

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: 29-May-98

Client:	PNM - Public Service Company of NM	Client Sample Info:	Galt J#2 Landfarm
Work Order:	9805071	Client Sample ID:	9805210800
Lab ID:	9805071-04A	Matrix:	SOIL
Project:	Landfarm Composites	Collection Date:	5/21/98 8:00:00 AM
		COC Record:	5221

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
DIESEL RANGE ORGANICS		SW8015				Analyst: DC
T/R Hydrocarbons: C10-C28	280	25		mg/Kg	1	5/27/98

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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Phone: (505) 325-5667 Fax: (505) 325-5668

OFF: (505) 325-5667



LAB: (505) 325-1556

ANALYTICAL REPORT

Date: 29-May-98

Client:	PNM - Public Service Company of NM	Client Sample Info:	Galt RHJ#2 Landfarm
Work Order:	9805071	Client Sample ID:	9805210805
Lab ID:	9805071-05A	Matrix:	SOIL
Project:	Landfarm Composites	Collection Date:	5/21/98 8:05:00 AM
		COC Record:	5221

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
DIESEL RANGE ORGANICS		SW8015				Analyst: DC
T/R Hydrocarbons: C10-C28	320	25		mg/Kg	1	5/27/98

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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TEL: (505) 325-5667 FAX: (505) 325-5668



Environmental Services

Well Name:	M.N. Galt J #2
Well Legals:	Unit D, Sec 6, T27N, R10W
Pit Type:	Drip
Horizontal Distance to Surface Water:	Less than 200 feet
Groundwater Depth:	Less than 50 feet

RISK ANALYSIS

PNM requests closure of their former pit on the M.N. Galt J #2 well site using a limited risk analysis based on the following conditions:

1. Groundwater is estimated to be at a depth of 30 feet based upon the elevation of the site and the elevation of the nearest "listed" or "named" wash (Kutz Wash Canyon). (Reference: topographic map.)
2. PNM excavated 12 cubic yards of soil from the former pit. Subsurface lateral contamination has been remediated (see attached analytical results). Source removal minimizes the possibility of surface water contamination.
3. Sandstone was encountered at 5 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 M.N. Galt J #2 well site poses minimal threat to groundwater, human health and the environment based upon our past experience in excavating over 800 pits.