

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

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

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OIL CON. DIV.
DIST. 2

PIT REMEDIATION AND CLOSURE REPORT

Operator: PNM Gas Services (Cross Timbers) Telephone: 324-3764

Address: 603 W. Elm Street Farmington, NM 87401

Facility or Well Name: R.P. Hargrave K #1

Location: Unit M Sec 16 T 27 N R 10 W County San Juan

Pit Type: Separator Dehydrator Other None

Land Type: BLM ☒ State ☐ Fee ☐ Other No

Pit Location: Pit dimensions: length 20 width 20 depth 3

(Attach diagram) Reference: wellhead ☒ other

Footage from reference: 220'

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

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

(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)

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): 20

R.P. Hargrave K #1

Date Remediation Started: 4/30/98

Date Completed: 5/4/98

Remediation Method: Excavation ☒

Approx. Cubic Yard 320

(Check all appropriate sections)

Landfarmed ☒

Amount Landfarmed (cubic yds) 320

Other

Remediation Location: Onsite ☒

Offsite

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

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Backfill Material Location:

OIL CON. DIV.
DKT. 3

General Description of Remedial Action:

Excavated contaminated soil to a pit size of 37' x 39' x 6' 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 6'. 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 6'

Sample date 5/4/98

Sample time 12:30:00 PM

Sample Results

Benzene (ppm) 0.1300

Total BTEX (ppm) 12.3300

Field headspace (ppm)

TPH (ppm) 300.00 *** Method 8015

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 29, 1998

PRINTED NAME Maureen Gannon
AND TITLE Project Manager

SIGNATURE

Maureen Gannon



Environmental Services

Well Name:	RP Hargrave K #1
Well Legals:	Unit M, Sec 16, T27N, R10W
Pit Type:	None
Horizontal Distance to Surface Water:	Greater than 1,000 feet
Groundwater Depth:	Less than 50'

RISK ANALYSIS

PNM requests closure of their former pit on the RP Hargrave K #1 well site using a limited risk analysis based on the following conditions:

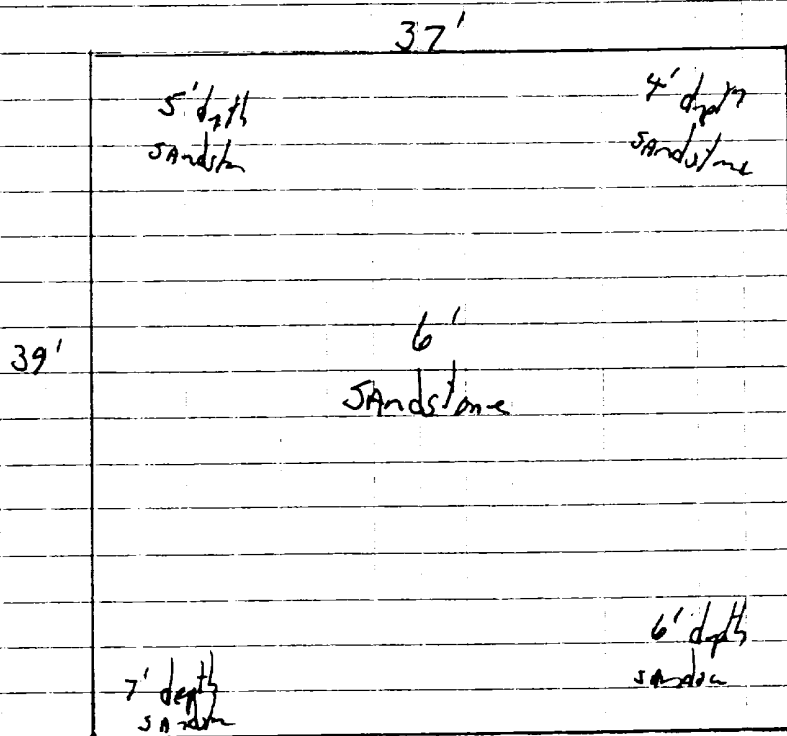
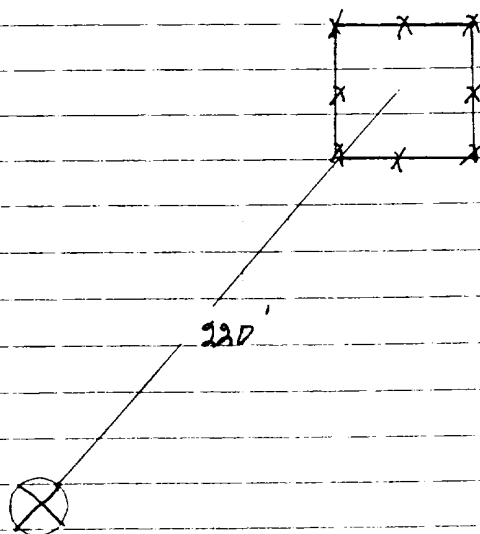
1. Groundwater is estimated to be at a depth of 46 feet based upon the elevation of the site and the elevation of the nearest "listed" or "named" river. (Reference: East Fork Kutz Canyon, NM topographic map.)
2. The site is not located within 200 feet of a domestic water well and is not within 1,000 feet of any other water source.
3. PNM excavated 320 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.
4. Sandstone was encountered at 6 feet below ground surface. Bedrock/sandstone provides a barrier between remaining contamination and groundwater. Vertical migration through bedrock or sandstone to groundwater is unlikely.
5. PNM excavated and performed remediation to the maximum depth and horizontal extent practicable.

PNM believes their former pit on the RP Hargrave K #1 well site poses minimal threat to groundwater, human health and the environment based upon our past experience in excavating over 800 pits.

R.P. Hargrave KA1
Cross Timbers
Sec 16, 27N, 10W, m

4/30/98

sketch:





OFF: (505) 325-5667

LAB: (505) 325-1556

On Site Technologies, LTD.

Date: 15-May-98

CLIENT: PNM - Public Service Company of NM
Project: R.P. Hargrave K #1
Lab Order: 9805010

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:	R.P. Hargrave K#1
Work Order:	9805010	Client Sample ID:	9805041230; Bottom @ 6ft.
Lab ID:	9805010-01A	Matrix:	SOIL
Project:	R.P. Hargrave K #1	Collection Date:	5/4/98 12:30:00 PM
		COC Record:	7128

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
DIESEL RANGE ORGANICS		SW8015				Analyst: HR
T/R Hydrocarbons: C10-C28	300	25		mg/Kg	1	5/13/98
BTEX		SW8020A				Analyst: DC
Benzene	130	50		µg/Kg	50	5/6/98
Toluene	1600	100		µg/Kg	50	5/6/98
Ethylbenzene	1100	50		µg/Kg	50	5/6/98
m,p-Xylene	7700	100		µg/Kg	50	5/6/98
o-Xylene	1800	50		µg/Kg	50	5/6/98

12330
12.330 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

1 of 1

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OFF: (505) 325-5667



LAB: (505) 325-1556

ANALYTICAL REPORT

Date: 15-May-98

Client:	PNM - Public Service Company of NM	Client Sample Info:	R.P. Hargrave K#1
Work Order:	9805010	Client Sample ID:	9805041235; Walls @ 3ft.
Lab ID:	9805010-02A	Matrix:	SOIL
Project:	R.P. Hargrave K #1	Collection Date:	5/4/98 12:35:00 PM
		COC Record:	7128

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

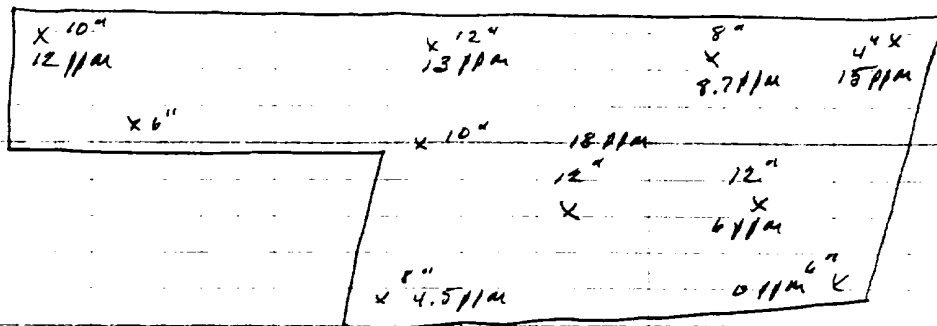
Qualifiers:	PQL - Practical Quantitation Limit	S - Spike Recovery outside accepted recovery limits
	ND - Not Detected at Practical Quantitation Limit	R - RPD outside accepted recovery limits
	J - Analyte detected below Practical Quantitation Limit	E - Value above quantitation range
	B - Analyte detected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

RP. Haw Grove K#1
(M)-16-27N-10
~~AMOD~~ Cross Timbers
San Juan County
Lab Sample # 9805280810
Field Head Space 0 ppm

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MH

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⊙ WH

OFF: (505) 325-5667

ON SITE

LAB: (505) 325-1556

TECHNOLOGIES, LTD.

On Site Technologies, LTD.

Date: 03-Jun-98

CLIENT: PNM - Public Service Company of NM

Project: Landfarm Compositess

Lab Order: 9805082

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

ON SITE

TECHNOLOGIES, LTD.

LAB: (505) 325-1556

ANALYTICAL REPORT

Date: 03-Jun-98

Client:	PNM - Public Service Company of NM	Client Sample Info:	R.P. Hargrave K #1
Work Order:	9805082	Client Sample ID:	9805250810; Landfarm
Lab ID:	9805082-02A	Matrix:	SOIL
Project:	Landfarm Compositess	Collection Date:	5/25/98 8:10:00 AM
		COC Record:	5223

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
DIESEL RANGE ORGANICS		SW8015				Analyst: HR
T/R Hydrocarbons: C10-C28	29	25		mg/Kg	1	6/1/98

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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