PORT

District I
P.O. Box 1981 Hobbs, NM
District II
P.O. Draw DEPARS V. MI 88221
GAS INSPECTOR

District III
1000 Rio Brazos Rd, Aztec, NM 87410
5 SEP 0 3 1999

State of New Mexico
Energy, Minerals and Natural Resources Department

OIL CONSERVATION DIVISION

2040 South Pacheco Street Santa Fe, New Mexico 87505

PIT REMEDIATION AND CLOSURE REPORT

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

Bolroge

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·	0000	MI CON DE
Operator:	PNM Gas Services (Burlington) Telephone:	324-3764 DIST. 3
Address:	603 W. Elm Street Farmington, NM 87401	· Constant
Facility or W	ell Name: Culpepper Martin #5 GC	
Location:	Unit <u>M</u> Sec <u>22</u> T <u>32 N</u> 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	0 depth 3
(Attach diagrar	n) Reference: wellhead 🔽 other	
	Footage from reference: 68'	
	Direction from reference: 80 Degrees Ea	ast North 🔽
	<u>✓</u> w	of Test South
Depth to Grou (Vertical distance from a seasonal high water eleva water	50 feet to 99 feet ontaminants to Greater than 100 feet	(20 points) (10 points) (0 points)
Wellhead Prof	Yes a private r, less than 1,000	(20 points) (0 points) 0
Distance to Su (Horizontal distance to pponds, rivers, streams, creanals and ditches	200 feet to 1,000 feet erennial lakes, Greater than 1,000 feet	(20 points) (10 points) (0 points) 0
	RANKING SCORE (TOTAL POINTS):

Culpepper Martin #5 GC		
Date Remediation Started: 05/04/1999		Date Completed: 05/04/1999
Remediation Method:	Excavation X	Approx. Cubic Yard 254
(Check all appropriate	Landfarmed x	Amount Landfarmed (cubic yds) 194
sections)	Other 60 cu yds overburden	· · · · · · · · · · · · · · · · · · ·
Remediation Location: (i.e., landfarmed onsite, name and location of offsite facility)	Onsite X	Offsite
Backfill Material Location:		
General Description of Ren	nedial Action:	
Excavated contaminated soi	I to pit size of 25' X 25' X 11' and landfar	med soil onsite within a bermed area at a depth of 6" to
	king/plowing until soil met regulatory leve at 11'. See attached risk analysis form ar	
Sandstone encountered a	at 11. See attached risk analysis form ar	id lab analysis.
Ground Water Encountered	d: No Ye	Depth
Final Pit Closure Sampling:	Sample Location 5 pt. composite	- bottom.
(if multiple samples, attach sample result and diagram of	Sample depth 11'	
sample locations and dépths.)	Sample date <u>05/04/1999</u>	Sample time 8:15:00 AM
	Sample Results	
	Benzene (ppm)2.	600
	Total BTEX (ppm)	66.300 ***
	Field headspace (ppm)	
	TPH (ppm) 610.00	Method 8015B
Vertical Extent (ft)	Risk A	Analysis form attached Yes No
Ground Water Sample:	Yes No	(If yes, see attached Groundwater Site Summary Report)
I HEREBY CERTIFY THA KNOWLEDGE AND MY E	T THE INFORMATION ABOVE IS TR BELIEF	RUE AND COMPLETE TO THE BEST OF MY
DATE July 27, 1999	· ·	PRINTED NAME Maureen Gannon
SIGNATURE MULL	Harrow	AND TITLE Project Manager

Culpeppe- Ma-tin #5
BR
Sec. 31,32N, 12W, C

Sile diagram:

5/3/9 1

End of excavation:

25'
10' depth
5 Andstone
675 pm
75 pm
75 pm

 \bowtie

LAB: (505) 325-1556

On Site Technologies, LTD.

CLIENT:

PNM - Public Service Company of NM

Project:

Culpepper Martin #5

Lab Order:

9905023

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.





LAB: (505) 325-1556

ANALYTICAL REPORT

Date: 14-May-99

Client:

PNM - Public Service Company of NM

Work Order:

9905023

9903023

9905023-01A

Matrix: SOIL

Lab ID: Project:

Culpepper Martin #5

Client Sample Info: Culpepper Martin #5

Client Sample ID: 9905040815; Bottom @ 11ft

Collection Date: 5/4/99 8:15:00 AM

COC Record: 7587

mg/Kg	1	Analyst: DC
mg/Kg	1	E440400
		5/13/99
		Analyst: DC
μg/Kg	1000	5/10/99
μg/Kg	1000	5/10/99
μg/Kg	1000	5/10/99
μ g/Kg	1000	5/10/99
μg/Kg	1000	5/10/99
	µg/Kg µg/Kg µg/Kg	μg/Kg 1000 μg/Kg 1000 μg/Kg 1000

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



LAB: (505) 325-1556

ANALYTICAL REPORT

Date: 14-May-99

Client:

PNM - Public Service Company of NM

Work Order:

9905023

9905023-02A

Matrix: SOIL

Lab ID: Project:

Culpepper Martin #5

Client Sample Info: Culpepper Martin #5

Client Sample ID: 9905040820; Walls @ 6ft

Collection Date: 5/4/99 8:20:00 AM

COC Record: 7587

Parameter	Result	PQL	Qual Units	 DF	Date Analyzed
DIESEL RANGE ORGANICS	SW80		•		Analyst: DC
T/R Hydrocarbons: C10-C28	ND	25	mg/Kg	1	5/10/99

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

Sec- 22 Burli	7-32N R-12W UC-M				
ي د د در د در د در ما ده دستمست					· · · · · · · · · · · · · · · · · · ·
	LANdfaem	DRAWIN	es App	194 cu	y ds
	2.3 ppm	U.Oppm			
	5.4ppm		48		
	4.3 ррт	3.6ppm			
	60'	//2′			
	2" to 12" Depth Hendspace reading 7. Sample # 990624092:	9 ppm			4

LAB: (505) 325-1556

On Site Technologies, LTD.

CLIENT:

PNM - Public Service Company of NM

Project:

Culpepper Martin 5, 1A, 15A & 4A LF

Lab Order:

9906073

CASE NARRATIVE

Date: 07-Jul-99

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.



LAB: (505) 325-1556

ANALYTICAL REPORT

Date: 07-Jul-99

Client:

PNM - Public Service Company of NM

Work Order:

9906073

Lab ID:

9906073-01A

Matrix: SOIL

Project:

Culpepper Martin 5, 1A, 15A & 4A LF

Client Sample Info: Culpepper Martin 5 LF

Client Sample ID: 9906240922; 5pt Comp

Collection Date: 6/24/99 9:22:00 AM

COC Record: 7723

Parameter	Result	PQL	Qual Units	 DF	Date Analyzed
DIESEL RANGE ORGANICS T/R Hydrocarbons: C10-C28	SV ND	V8015B 25	mg/Kg	1	Analyst: DC 7/2/99

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 I



Well Name:

Well Legals:

Pit Type:

Horizontal Distance to Surface Water:

Groundwater Depth:

Culpepper Martin #5 GC Unit M, Sec 22, T32N, R12W Dehydrator Greater than 1,000 feet Greater than 100 feet

RISK ANALYSIS

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

- 1. Groundwater is estimated to be at a depth of 327 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 254 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 11 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 Culpepper Martin #5 well site poses minimal threat to groundwater, human health and the environment based upon our past experience in excavating over 1,000 pits.