District DEPUTY CIL & GAS INSPECTOR P.O. Drawer DD. Artesie, NM 88221

District III 1000 Rio Brazos Rd. Alec. NM 87410

State of New Mexico Energy, Minerals and Natural Resources Department



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

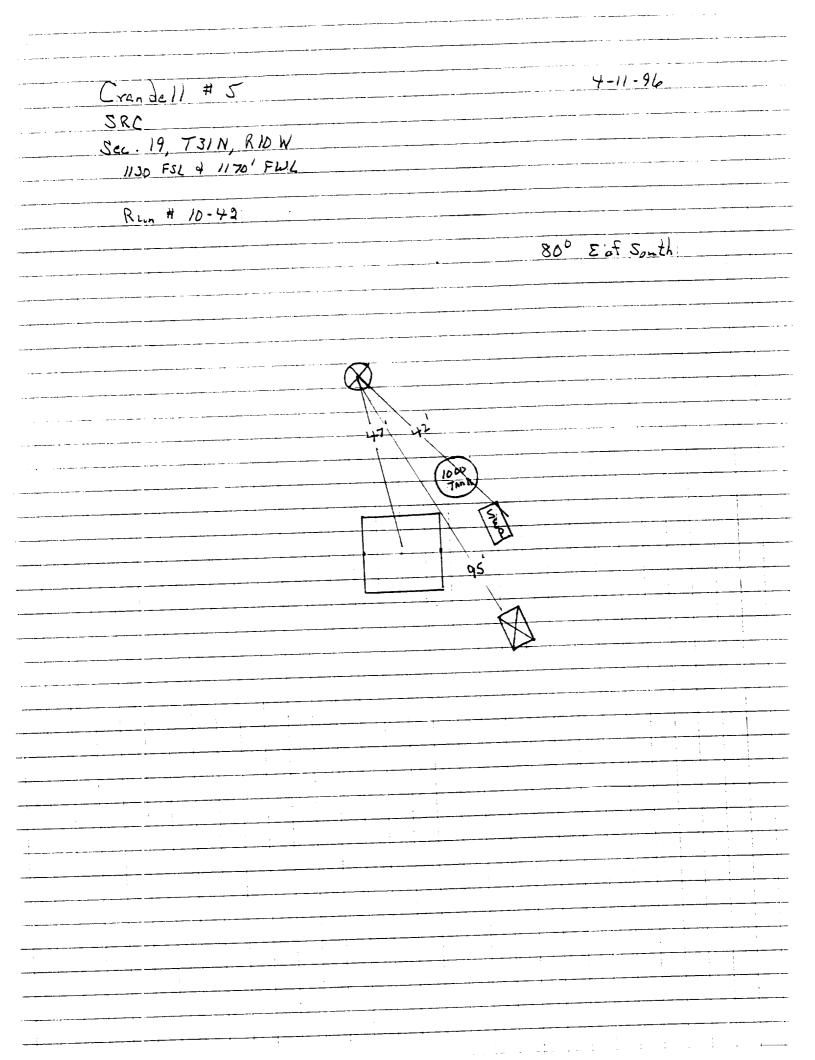
OIL CONSERVATION DIVISION

2040 South Pacheco Street Santa Fe, New Mexico 87505 OIL GOM. DIV

PIT REMEDIATION AND CLOSURE REPORT

Operator: PN	NM Gas Services (SRC	Telephone:	324-3764		
Address: 603 W.	Elm Street Farmington, NM 8740	01			_
Facility or Well Name	Crandell #5				
Location: Unit:		19 T. 31 N R.	10 W County	San Juan	-
Pit Type: Sepa	rator <u>v</u> Dehydrato	r Other	No		_
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: 47'				-
	Direction from reference: 80	Degrees 💌	East North		
		· 	of West South	<u>V.</u>	
Depth to Ground Wa (Vertical distance from contaminants seasonal high water elevation of grounder	10	Less than 50 feet 50 feet to 99 feet Greater than 100 feet		(20 points) (10 points) (0 points)	0
Wellhead Protection	Area:	Yes No		(20 points) (0 points)	0
domestic water source, or, less than feet from all other water sources)	0,000				
Distance to Surface \(\frac{1}{2}\)	ය .	Less than 200 feet 200 feet to 1,000 feet Greater than 1,000 feet		(20 points) (10 points) (0 points)	0
ponds, rivers, streams, creeks, irrigat canals and ditches	uon	RANKING SCORE	(TOTAL POINTS)	:	0

Accavation $\frac{x}{x}$ and $\frac{x}{x}$ ther		Approx. Cubic Y Amount Landfart		240
<u> </u>		Amount Landfari	ned (cubic yds)	200
ther				
Onsite X		Offsite		
ial Action:				
size of 18'x20'x18' ar meets regulatory lev	nd landfarmed soil onsite rels.	within a bermed area	at a depth of 6" to 1	2". Soil will be
			Donat	
No	Yes Yes		Depth _	
Sample Location	5 pt. composite-4 si	de walls and center of	pit bottom	
Sample depth	18'			
Sample date	4/11/96	Sample time	2:0	0:00 PM
Sample Results				
Benzene	(ppm)	0.0751		
Total BTE	X (ppm)	35.8438		
Field heads	space (ppm)			
ТРН _	3000.00	Method	418.1	
	Risk Assessi	nent form attached	Yes	No <u></u>
Yes	No 🔽	(If	yes, attach sampl	e results)
	No No Sample Location Sample depth Sample Results Benzene Total BTE Field heads TPH Yes	No Yes No Yes No Sample Location 5 pt. composite 4 signature Sample depth 18' Sample date 4/11/96 Sample Results Benzene (ppm) Total BTEX (ppm) Field headspace (ppm) TPH 3000.00 Risk Assessing Yes No Yes	No Yes	No Yes Depth No Yes Depth ample Location 5 pt. composite 4 side walls and center of pit bottom Sample depth 18' Sample Results Benzene (ppm) 0.0751 Total BTEX (ppm) 35.8438 Field headspace (ppm) TPH 3000.00 Method 418.1 Risk Assessment form attached Yes





OFF: (505) 325-8786

LAB: (505) 325-5667

TOTAL PETROLEUM HYDROCARBONS

Attn:

Denver Bearden

Date:

14-Apr-96

Company: PNM Gas Services

COC No.:

4603

Address:

603 W. Elm

Sample No. Job No.

10629

City, State: Farmington, NM 87401

2-1000

PNM Gas Services - Crandell #5

9604111400; 5pt. Composite, 4 Walls & Bottom, 18' 11-Apr-96 Time:

14:00

Sampled by:

Project Name:

Project Location:

GC

Date: Date:

14-Apr-96

Analyzed by: Type of Sample: DC Soil

Laboratory Analysis

		Total Petroleum
Laboratory Identification	· Sample Identification	Hydrocarbons
identification	PNM Gas Services - Crandell #5	3,000 mg/kg
10629-4603	9604111400; 5pt. Composite, 4 Walls & Battom, 18'	0,000 mg/mg

Quality Assurance Report

	Analyzed Value	Acceptable Range	Units of Measure
Laboratory Identification	< 25	< 25	mg/kg
Laboratory Fortified Blank Soil - QCBS2 Laboratory Fortified Spike Soil - QCSS1	913	828 - 1024	mg/ kg

Method - EPA Method 418.1 Total Petroleum Hydrocarbons

Approved by:

P. O. BOX 2606 • FARMINGTON, NM 87499



OFF (505) 325-8786

LAB: (505) 325-5667

AROMATIC VOLATILE ORGANICS

Attn:

Denver Bearden

Date:

15-Apr-96

Company: PNM Gas Services

COC No.:

4603

Address

603 W. Elm

Sample No.

10629

City, State: Farmington, NM 87401

Job No.

2-1000

Project Name:

PNM Gas Services - Crandell #5

Project Location:

9604111400; 5pt. Composite, 4 Walls & Bottom, 18' Date:

11-Apr-96 Time:

14:00

Sampled by: Analyzed by: GC DC

Date:

14-Apr-96

Type of Sample:

Soil

Aromatic Volatile Organics

Component		Result	Units of Measure	Detection Limit	Units of Measure
Benzene		75.1	ug/ kg	0.2	ug/ kg
Toluene		9326.9	ug/ kg	0.2	ug/ kg
Ethylbenzene		2787.8	ug/ kg	0.2	ug/ kg
m,p-Xylene		19051.9	ug/ kg	0.2	ug/ kg
o-Xylene		4602.1	ug/ kg	0.2	ug/ kg
	TOTAL	35843.8	ug/ kg		

Method - SW-846 EPA Method 8020 Aromatic Volatile Organics by Gas Chromatography

Approved by: Jack
Date: 4/15/96

P.O. BOX 2606 • FARMINGTON, NM 87499

Crandell # 5 Land Farming ON Location 43' 106

Meridian O:1 Sec. 19, T31, N, RIDW Run #10-41 LAND FARMED ON-Location 300 yards Compassite Sample # 9405/408/5 Soil Vaper Head-Space Reading = 77./ ppm 2.4 3.1. 2.7 3.1. 5Ample digit 31-10* deep		1011 #5			5-	14.96		
Land Farmed On-Location 200 yards Compassile Sample # 9605/408/5 Soil Vapa- Head-Space Reading = 77./ ppm	mevidi.	0:1 مه	0.0.1					
Land Farmed On-Location 200 yards Compassile Sample # 9605/408/5 Soil Vapa- Head-Space Reading = 77./ ppm	Sec. #	11,131,N 11,-41	KIDW					
Compasite Sample # 9605/40815 Soil Vape- Head-Space Reading = 77.1 ppm 2.4 3.1. 1.7 7.1	T(R)	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,						
Compasite Sample # 9605/40815 Soil Vape- Head-Space Reading = 77.1 ppm 2.4 3.1. 1.7 7.1		/ \ =		0 / 1.			· · · · · · · · · · · · · · · · · · ·	
50:1 Vapa - Head-Space Reading = 77.1 ppm:		LAnd F	Armed	ON-LOCATI	0/- لمه	6 yards		
50:1 Vapa - Head-Space Reading = 77.1 ppm:		Compas	sile SAM	ole # 960	05140815			
2.4 3.). 91 6.7 2.4								
		Soil	Vapor H	ead- Space	Reading =	77.1	Rom	
								1
6.7 2.4 • • • • • • • • • • • • • • • • • • •			2.4	3.1.	\ 		·	
			•	91	\\			-
					-			
			6.7	2.4	1 1			
JAMPIE depth 21-12th deep			• !	•		:		
Sample depth 21-13th deep						- 		
Sample depth 31-131 deep								
Sample depth 2"-13th deep			1.7	7.7	1		· i	
Sample depth 2"-12" deep						- 		
Sample depth 2"-12" deep								
Sample depth 21-13th deep			!		· · · · · · · · · · · · · · · · · · ·			
Sample depth 21-12th deep			-			· :	· · · · · · · · · · · · · · · · · · ·	!
Sample depth 2 - 13 deep	<u> </u>) 11 011	- 12 k			
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		1	· · · · · · · · · · · · · · · · · · ·			:	· · · · · · · · · · · · · · · · · · ·	



LAB: (505) 325-5667

Diesel Range Organics

Attn:

Denver Bearden

Company: PNM Gas Services

Address:

603 W. Elm

City, State: Farmington, NM 87401

Date:

16-May-96

COC No .:

4642

Sample No.

10884

Job No.

2-1000

Project Name:

PNM Gas Services - Crandell #5 Land Farm 9695140815; 6pt. Composite, 2"-12" deep

Project Location: Sampled by:

GC

Date:

14-May-96 Time:

8:15

Analyzed by:

HR

Date:

15-May-96

Sample Matrix:

Sol

Laboratory Analysis

Parameter	Result	Unit of Measure	Detection Limit	Unit of Measure
Diesel Range Organics (C10 - C28)	230.8	mg/kg	5.0	mg/kg

Quality Assurance Report

DRO QC No.:

0475-QC

Calibration Check

Parameter	Method Blank	Unit of Measure	True Value	Analyzed Value	% Diff	Limit
Diesel Range (C10 - C28)	<5.0	ppm	2,000	1,816	9.2	15%

Matrix Soike

'				
7 - Percent	2 - Percent		!	
Recovered	Recovered	Limit	%RSD_	Limit
		1		
88	96	(70-130)	6	20%
	Recovered	7- Percent 2 - Percent Recovered Recovered	7- Percent 2 - Percent Recovered Recovered Limit	7- Percent 2 - Percent Recovered Limit %RSD

Method - SW-846 EPA Method 8015A mod. - Nonhalogenated Volatile Hydrocarbons by Gas Chromatography

Approved by:

P. O. BOX 2606 • FARMINGTON, NM 87499