DISTRICT DEPUTY OIL & GAS INSPECTOR

the constitution in the second section

District III
P O Drawer DD, Artesia, NM 88221
District III

District III
1000 Rio Brazos Rd. Aztec. NM 87410

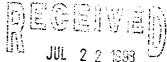
State of New Mexico
Energy, Minerals and Natural Resources Department

OIL CONSERVATION DIVISION

2040 South Pacheco Street Santa Fe, New Mexico 87505

PIT REMEDIATION AND CLOSURE REPORT

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

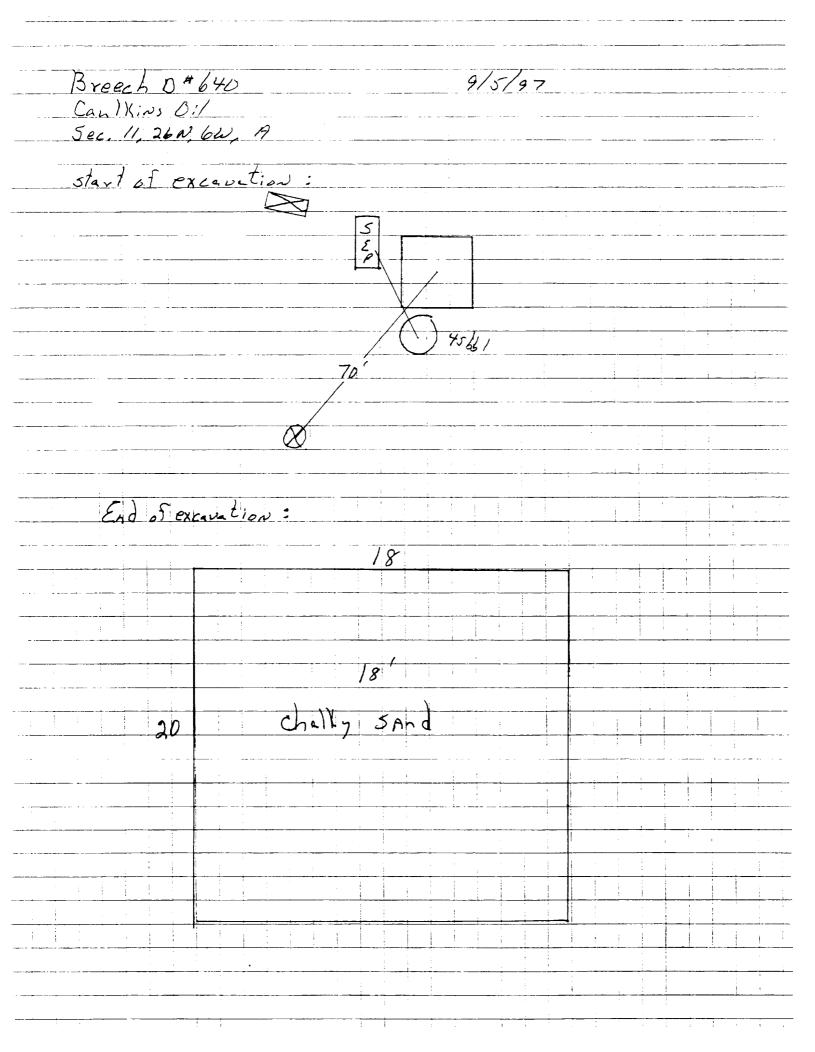


OIL COM. DIV.

17.17			நாதா அ
Operator:	PNM Gas Services (Caulkins) Telephone: 324-3764	
Address:	603 W. Elm Street Farmington, NM 8740	01	
Facility or We	ell Name: Breech D #640		
Location:	Unit A Sec 1	1 T 26 N R 6 W County	Rio Arriba
Pit Type:	Separator 🗸 Dehydrato	Other	
Land Type:	BLM State	Fee Other	
Pit Location:	Pit dimensions: length	20 width 20 depth	3
(Attach diagrar	m) Reference: wellhead 💉	other	
	Footage from reference:	70'	
	Direction from reference: 45	Degrees <u>v</u> East North	<u> Ž</u>
		of West South	
Depth to Grou	contaminants to	Less than 50 feet 50 feet to 99 feet Greater than 100 feet	(20 points) (10 points) (0 points)
Wellhead Pro (Less than 200 feet from domestic water source, ofeet from all other water)	n a private or, less than 1,000	Yes No	(20 points) (0 points) 0
Distance to St	urface Water: perennial lakes. creeks, irrigation	Less than 200 feet 200 feet to 1,000 feet Greater than 1,000 feet	(20 points) (10 points) (0 points)
canals and ditches		RANKING SCORE (TOTAL POINTS)): . o

eech D #640			Data Camaratatada	
Date Remediation Started:	9	/5/97	Date Completed:	9/5/97
Remediation Method:	Excavation	X	Approx. Cubic Yard	240
heck all opropriate	Landfarmed	X	Amount Landfarmed (cub	oic yds)
ections)	Other			
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 a pit size of 2	20' X 18' X 18' and land	Ifarmed soil onsite within a berm	ed area at a depth of 6"
to 12". Soil was aerated by o	lisking/plowing u	ntil soil met regulatory	levels.	
	t drilling to 40'. L	ab analysis of bottom I	nole sample showed results to b	e below regulatory
guidelines.				
Ground Water Encountere	d: No	₹	es Dep	eth
Final Pit Closure Sampling:	Sample Locati	on 40' drilling du	ring vertical extent determination	i
(if multiple samples, attach sample result and diagram of	Sample depth	40'		
sample locations and depths.)	Sample date	11/17/97	Sample time	1:00:00 PM
	Sample Resul	ts		
	Benze	ene (ppm) <0	.0010	
	Total	BTEX (ppm)	0.0070	
	Field l	neadspace (ppm)		
	TPH (ppm)	< 5.00	Method 801	15
Vertical Extent (ft) 40'		Ris	k Analysis form attached Yes	No <u></u>
Ground Water Sample:	Yes _	No	(If yes, see attached (Summary Report)	Groundwater Site
I HEREBY CERTIFY THA KNOWLEDGE AND MY		MATION ABOVE IS	TRUE AND COMPLETE TO T	HE BEST OF MY
DATE April 29, 1998 SIGNATURE	moon g	Samon	AND THE T	aureen Gannon oject Manager

Ly Kathy Luckson





LAB: (505) 325-1556

ANALYTICAL REPORT

Attn:

Denver Bearden

Date:

10-Sep-97

Company: PNM Gas Services

COC No.:

5**99**7

Address:

603 W. Elm

Sample No.:

16081

City, State: Farmington, NM 87401

Job No.:

2-1000

Project Name:

PNM Gas Services - Breech D #640

Project Location:

9709051000; Bottom @ 18'

Date:

5-Sep-97 Time:

10:00

Sampled by: Analyzed by: GC DC/HR

Date:

9-Sep-97

Sample Matrix:

Soil

Laboratory Analysis

Parameter	Results as	Unit of	Limit of	Unit of
	Received	Measure	Quantitation	Measure
Diesel Range Organics (C10 - C28)	332	mg/kg	5	mg/kg

ND - Not Detected at Limit of Quantitation

Quality Assurance Report

DRO QC No.: 0555-STD

Continuing Calibration Verification

	Method	Unit of	True	Analyzed		RPD
Parameter	Blank	Measure	Value	Value	RPD	Limit
Diesel Range (C10 - C28)	ND	ppm	200	190	5.1	15%

Matrix Snike

Matrix Opine					
	1- Percent	2 - Percent			RPD
Parameter	Recovered	Recovered Limit		RPD	Limit
Diesel Range (C10-C28)	82	77	(70-130)	6	20%

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

Approved by:

P.O. BOX 2606 • FARMINGTON, NM 87499



LAB: (505) 325-1556

ANALYTICAL REPORT

Attn:

Denver Bearden

Date:

10-Sep-97

Company: PNM Gas Services

COC No.:

5997

Address:

603 W. Elm

16081

Sample No.:

City, State: Farmington, NM 87401

Job No.:

2-1000

Project Name:

PNM Gas Services - Breech D #640

Project Location:

9709051000; Bottom @ 18'

Date:

5-Sep-97 Time:

10:00

Sampled by: Analyzed by: GC DC

Date:

9-Sep-97

Sample Matrix:

Soil

Laboratory Analysis

Parameter		Results as Received		Limit of Quantitation	Unit of Measure
Benzene		ND	ug/kg	1000	ug/kg
Toluene		10695	ug/kg	1000	ug/kg
Ethylbenzene		5931	ug/kg	1000	ug/kg
m,p-Xylene		63351	ug/kg	1000	ug/kg
o-Xylene		18816	ug/kg	1000	ug/kg
	TOTAL	98792	ug/kg		•

ND - Not Detected at Limit of Quantitation

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



LAB: (505) 325-1556

ANALYTICAL REPORT

Attn:

Denver Bearden

Date:

10-Sep-97

Company: PNM Gas Services

COC No.:

5**99**7

Address:

603 W. Elm

Sample No.:

16082

City, State: Farmington, NM 87401

Job No.:

2-1000

Project Name:

PNM Gas Services - Breech D #640

Project Location:

9709051015: Walls @ 15'

Date:

5-Sep-97 Time:

10:15

Sampled by: Analyzed by:

DC/HR

Date:

9-Sep-97

Sample Matrix:

Soil

Laboratory Analysis

Parameter	Results as	Unit of	Limit of	Unit of
	Received	Measure	Quantitation	Measure
Diesel Range Organics (C10 - C28)	ND	mg/kg	5	mg/kg

ND - Not Detected at Limit of Quantitation

Quality Assurance Report

DRO QC No.: 0555-STD

Continuing Calibration Verification

Parameter	Method Blank	Unit of Measure	True Value	Analyzed Value	RPD	RPD Limit
Diesel Range (C10 - C28)	ND	ppm	200	190	5.1	15%

Matrix Spike

Parameter	1- Percent Recovered	2 - Percent Recovered	Limit	RPD	RPD Limit
Diesel Range (C10-C28)	82	77	(70-130)	6	20%

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





LAB: (505) 325-1556

ANALYTICAL REPORT

Attn:

Denver Bearden

Date:

9-Sep-97

Company: PNM Gas Services

COC No.:

5997

Address:

603 W. Elm

Sample No.:

16082

City, State: Farmington, NM 87401

Job No.:

2-1000

Project Name:

PNM Gas Services - Breech D #640

Project Location:

9709051015; Walls @ 15'

Sampled by:

GC

Date: Date: 5-Sep-97 Time: 8-Sep-97

10:15

Analyzed by: Sample Matrix: DC Soil

Laboratory Analysis

Parameter		Results as Received	Unit of Measure	Limit of Quantitation	Unit of Measure
Benzene		ND	ug/kg	2	ug/kg
Toluene		ND	ug/kg	2	ug/kg
Ethylbenzene		ND	ug/kg	2	ug/kg
m,p-Xylene		ND	ug/kg	2	ug/kg
o-Xylene		ND	ug/kg	2	ug/kg
	TOTAL	ND	ug/kg		

ND - Not Detected at Limit of Quantitation

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



OFF: (505) 325-5667 LAB: (505) 325-1556

ANALYTICAL REPORT

Attn:

Denver Bearden

Date:

24-Nov-97

Company: PNM Gas Services

COC No.:

7092

Address:

603 W. Elm

Sample No.:

16886

City, State: Farmington, NM 87401

Job No.:

2-1000

Project Name:

PNM Gas Services - Breech D #640

Project Location:

9711171300; 40' depth

17-Nov-97 Time:

13:00

Sampled by: Analyzed by: GC DC/HR Date: Date:

20-Nov-97

Sample Matrix:

Soil

Laboratory Analysis

Parameter	Results as	Unit of	Limit of	Unit of
	Received	Measure	Quantitation	Measure
Diesel Range Organics (C10 - C28)	ND	mg/kg	5	mg/kg

ND - Not Detected at Limit of Quantitation

Quality Assurance Report

DRO QC No.: 0555-STD

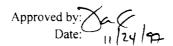
Continuing Calibration Verification

Parameter	Method Blank	Unit of Measure	True Value	Analyzed Value	RPD	RPD Limit
Diesel Range (C10 - C28)	ND	ppm	200	207	3.4	15%

Matrix Spike

Parameter	1- Percent Recovered	2 - Percent Recovered	Limit	RPD	RPD Limit
Diesel Range (C10-C28)	93	108	(70-130)	12	20%

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





LAB: (505) 325-1556

ANALYTICAL REPORT

Attn:

Denver Bearden

Date: 24-Nov-97

Company: PNM Gas Services

COC No.:

70**9**2

Address:

603 W. Elm

Sample No.:

16886

City, State: Farmington, NM 87401

Job No.:

2-1000

Project Name:

PNM Gas Services - Breech D #640

Project Location:

9711171300; 40' depth

17-Nov-97 Time:

13:00

Sampled by: Analyzed by: GC DC Date: Date:

18-Nov-97

Sample Matrix:

Soil

Laboratory Analysis

		Results	Unit of	Limit of	Unit of	
Parameter		as Received	Measure	Quantitation	Measure	
0					,	
Benzene		ND	ug/kg	1	ug/kg	
Toluene		1	ug/kg	1	ug/kg	
Ethylbenzene		2	ug/kg	1	ug/kg	
m,p-Xylene		3	ug/kg	1	ug/kg	
o-Xylene		1	ug/kg	1	ug/kg	
	TOTAL	7	ug/kg			

ND - Not Detected at Limit of Quantitation

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

9-24-97 @0900

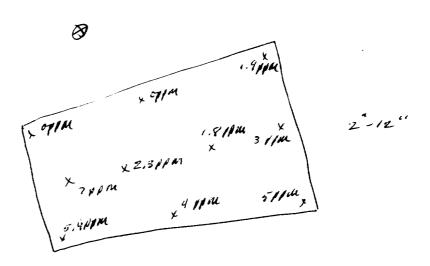
Breech #440

Coulkins
(A) 11-26xi-6xi
Ric Arriba

Sample # 9709240900

Land Larm Luld head space 9 pm







LAB: (505) 325-1556

ANALYTICAL REPORT

Attn:

Denver Bearden

Date:

30-Sep-97

Company: PNM Gas Services

COC No.:

5674

Address:

603 W. Elm

16312

Sample No.:

City, State: Farmington, NM 87401

Job No.:

2-1000

Project Name:

PNM Gas Services - Breech #640 Landfarm

Project Location:

9709240900; Composite

RH

Date:

24-Sep-97 Time:

9:00

Sampled by: Analyzed by:

HR/DC

Date:

29-Sep-97

Sample Matrix:

Soil

Laboratory Analysis

Parameter	Results as	Unit of	Limit of	Unit of	
	Received	Measure	Quantitation	Measure	
Diesel Range Organics (C10 - C28)	ND	mg/kg	5	mg/kg	

ND - Not Detected at Limit of Quantitation

Quality Assurance Report

DRO QC No.: 0555-STD

Continuing Calibration Verification

Parameter	Method Blank	Unit of Measure	True Value	Analyzed Value	RPD	RPD Limit
Diesel Range (C10 - C28)	ND	ppm	200	182	9.4	15%

Matrix Spike

	1- Percent	2 - Percent			RPD		
Parameter	Recovered	Recovered	Limit	RPD	Limit		
Diesel Range (C10-C28)	89	98	(70-130)	9	20%		

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

Approved by: