3R - 333

REPORTS

DATE:
July 28, 1997

District I P.O. Box 1980, Hobbs, NM

rict II Drawer DD, Artesia, NM 88221

State of New Mexico
Energy, Minerals and Natural Resources Department

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

Operator:	PNM Gas	Services (Amoco) 1	elephone:	324-376	4		
Address:	603 W. Elm Str	eet Farmington, NM 8	37401			·		
Facility or W	ell Name: McC	oy A #1A	,				n	
Location:	Unit	F Sec _	<u>18</u> T	31 N F	R10 W	County	San Juan	·
Pit Type:	Separator	Dehydr	rator 🔽	Other	•	None		_
Land Type:	BLM	State :	Fee 💆	Other	•	No		
Pit Location:	Pit din	nensions: length	57 '	width	47 '	depth	8	
(Attach diagram	m) Refere	nce: wellhead	<u> </u>	other				
	Footage	e from reference:	120'					_
	Directi	on from reference: 80	Degrees	<u>~</u>	East	North	<u> </u>	
	٠,			•	West	of South		•
Depth to Gro	und Water:			in 50 feet to 99 feet			(20 points) (10 points)	
(Vertical distance from seasonal high water elev water		,	Greater than				(0 points)	20
	,	RECEIV	ED					
Wellhead Pro	tection Area:	JUL 31 199	7	Yes			(20 points)	
(Less than 200 feet from domestic water source, feet from all other wate	or, less than 1,000	Environmental Buil		No			(0 points)	
		On Conservation Di		200 G 4			(20 :)	
Distance to S (Horizontal distance to	urface Water:			an 200 feet 0 1,000 feet 1 1,000 feet			(20 points) (10 points) (0 points)	20
ponds, rivers, streams, canals and ditches			RANKIN	G SCORE	(TOTA	L POINTS)	:	60

eck all [Excavation - Landfarmed	X	Approx. Cub	ic Yard	794
ropriate	andfarmed	-			
	Januarannoa	X	Amount Land	dfarmed (cubic yd	s)
tions)	Other				
emediation Location: e., landfarmed onsite, name and cation of offsite facility)	Onsite	<u> </u>	Offsite	Tierra Environmen	ntal
ackfill Material Location:					
eneral Description of Reme	dial Action:	• .			
excavated contaminated soil to packfilled with clean fill and grant and grant and grant are some content of the	aded to surface.		led contaminated soil		andfarm. Pit was
round Water Encountered:	: No		Yes <u>✓</u>	Depth	8'
Final Pit Closure Sampling:	Sample Location	n Bottom of p	it.	<u> </u>	
if multiple samples, attach sample result and diagram of sample locations and depths.)	Sample depth Sample date	<u>8'</u> <u>2/7/96</u>	Sample	time 1	0:05:00 AM
•	Sample Results				
		e (ppm)	0.1935		
			4.1182	1	
		_	Madiad		
Vertical Extent (ft)	ırn		Assessment form attach	ned Yes	No 🔽
Ground Water Sample:	Yes	No No	,	ee attached Groun y Report)	dwater Site
Vertical Extent (ft)	Benzen Total B Field he TPH	adspace (ppm) 140.00 Risk A	4.1182 Method Assessment form attack	ee attached Groun	dwater Site

Same of #960207/005'
Taken on pottom of the
318.8.

95

. .

- 476'

OUT OF CONTAMINATED

Sample 760207 1031 Taken of Jaren comminto hale 3'B.S.

Meter House



LAB: (505) 325-5667

TOTAL PETROLEUM HYDROCARBONS

Attn:

Denver Bearden

Company: PNM Gas Services

Address:

603 W. Elm

City, State: Farmington, NM 87401

Date:

8-Feb-96

COC No .:

4511

Sample No.

10260

Job No.

2-1000

Project Name:

PNM Gas Services - McCoy #A1A

Project Location:

9602071005; Center of Pit - 8ft. depth

Date:

7-Feb-96 Time:

10:05

Sampled by: Analyzed by: RB DC

Date:

8-Feb-96

Type of Sample:

Soil

Laboratory Analysis

Laboratory		Total Petroleum
Identification	Sample Identification	Hydrocarbons
	PNM Gas Services - McCoy #A1A	
10260-4511	9602071005; Center of Pit - 8ft. depth	140 mg/kg

Quality Assurance Report

Laboratory Identification	Analyzed Value	Acceptable Range	Units of Measure
Laboratory Fortified Blank Soil - QCBS2	<25	<25	mg/kg
Laboratory Fortified Spike Soil - QCSS1	915	828 - 1024	mg/kg

Method - EPA Method 418.1 Total Petroleum Hydrocarbons

Approved by:

Date:



LAB: (505) 325-5667

AROMATIC VOLATILE ORGANICS

Attn:

Denver Bearden

Date:

8-Feb-96

Company: PNM Gas Services

COC No.:

4511

Address:

10260

603 W. Elm

Sample No. Job No.

2-1000

City, State: Farmington, NM 87401

PNM Gas Services - McCoy #1A1

Project Name: **Project Location:**

9602071005; Center of Pit - 8ft. depth

Sampled by:

RB

Date:

7-Feb-96 Time:

10:00

Analyzed by:

DC

Date:

8-Dec-96

Type of Sample:

Soil

Aromatic Volatile Organics

Component		Result	Units of Measure	Detection Limit	Units of Measure
Benzene		193.5	ug/kg	0.2	ug/kg
Toluene		1470.6	ug/kg	0.2	ug/kg
Ethylbenzene		181.7	ug/k g	0.2	ug/kg
m,p-Xylene		1945.6	ug/kg	0.2	ug/kg
o-Xylene		326.8	ug/kg	0.2	ug/kg
	TOTAL	4118.2	ug/kg		

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

Approved by:

P. O. BOX 2606 • FARMINGTON, NM 87499

- Technology Blending Industry with the Environment -



LAB: (505) 325-5667

AROMATIC VOLATILE ORGANICS

Attn:

Denver Bearden

Date:

8-Feb-96

Company:

PNM Gas Services

COC No.:

Address:

Sample No.

4511 10261

City, State: Farmington, NM 87401

603 W. Elm

Job No.

2-1000

Project Name:

PNM Gas Services - McCoy #A1A

Project Location:

9602071031; Bottom of Pit - Standing Liquid

10:31

Sampled by:

RB

Date:

7-Feb-96 Time:

Analyzed by:

DC

Date:

7-Feb-96

Type of Sample:

Liquid

Aromatic Volatile Organics

Component		Result	Units of Measure	Detection Limit	Units of Measure
Benzene		1420.8	ug/L	0.2	ug/L
Toluene		7997.6	ug/L	0.2	ug/L
Ethylbenzene		724.7	ug/L	0.2	ug/L
m,p-Xylene		8817.3	ug/L	0.2	ug/L
o-Xylene		1683.9	ug/L	0.2	ug/L
	TOTAL	20644.3	ug/L		2 1

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

Approved by: 2/8/96

P. O. BOX 2606 • FARMINGTON, NM 87499

- TECHNOLOGY BLENDING INDUSTRY WITH THE ENVIRONMENT -

PNMGS Well Site: McCoy A1A

Groundwater Site Summary Report

Quarter/Year: 3rd 1996 through 2nd 1997

Copies: WFS(1)
Operator (1)

NMOCD District Office (1) NMOCD Santa Fe (1)

Operator: Amoco

Sec: 18 Twn: 31 Rng: 10 Unit: F

Canyon: Animas River

Vulnerable Class: Original

OCD Ranking: 40

Lead Agency: NMOCD

Topo Map: previously submitted

Well Completion Diagram: previously submitted

Site Map with Analysis: Figure 1

Groundwater Contour Map: Figure 2 (May 1996)

Groundwater Hydrograph Figure 3

Analytical Results: attached

Activities for Second Quarter (April through June) 1997:

PNM conducted groundwater sampling for benzene, toluene, ethylbenzene, and xylenes (BTEX) at the McCoy A1A well site on May 20, 1997. Prior to sampling, water level measurements were taken in each of the five monitoring wells. Groundwater sampling was conducted in strict compliance with EPA protocol. PNM delivered the samples to OnSite Technologies, Farmington, New Mexico, for chemical analyses of BTEX using EPA Method 8020.

Results:

Figure 1 is a site map of the McCoy A1A well site and includes the groundwater analytical results for the past four quarters. BTEX has not been detected in groundwater samples taken from each of the wells over four consecutive calendar quarters. Figure 2 is a groundwater contour map of the site for the month of May. The groundwater flow has shifted slightly (approximately 15°) from the southwest to a more westerly direction. Figure 3 is the hydrograph (water level versus time) for the site. Water levels rose at the site once again due to an increase in precipitation during the second quarter of this year.

Future Actions:

Consistent with PNM's San Juan Basin Groundwater Management Plan, we request closure of the McCoy A1A well site with the second quarter 1997 filing of the San Juan Pit Closure Reports. This request is based upon the analytical data collected over the last year at the site. BTEX concentrations have been consistently below WQCC standards for four consecutive quarters.

Public Service Company of New Mexico - Gas Services

Environmental Services Division - Alvarado Square, MS-0408 Albuquerque, NM 87158

Contact: Maureen Gannon

Telephone: 505-241-2974

PNMGS: mcAlAcls.doc

21-Jul-97

Figure 1. McCoy A1A Site Map With Analytical Results (Concentrations in ppb)

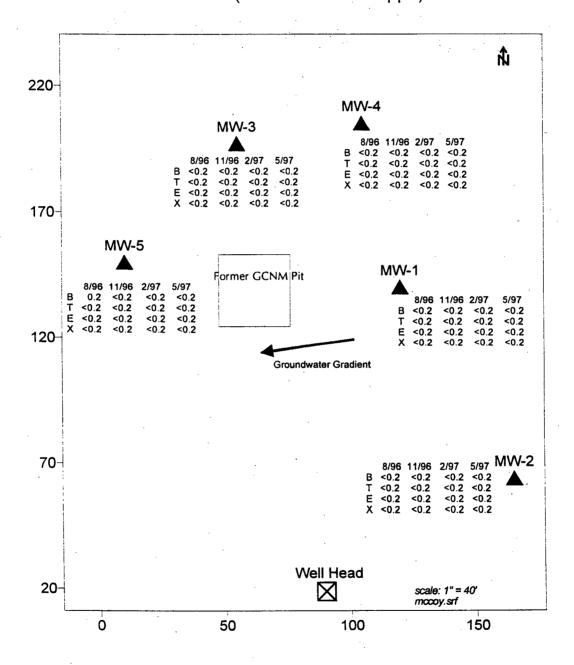
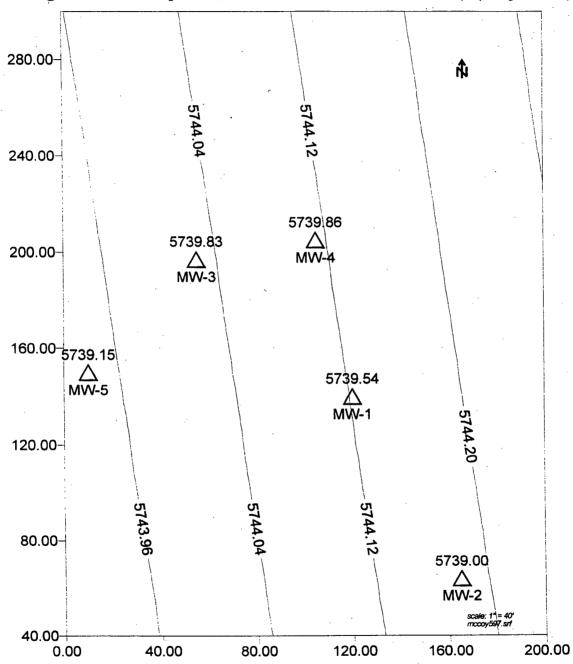
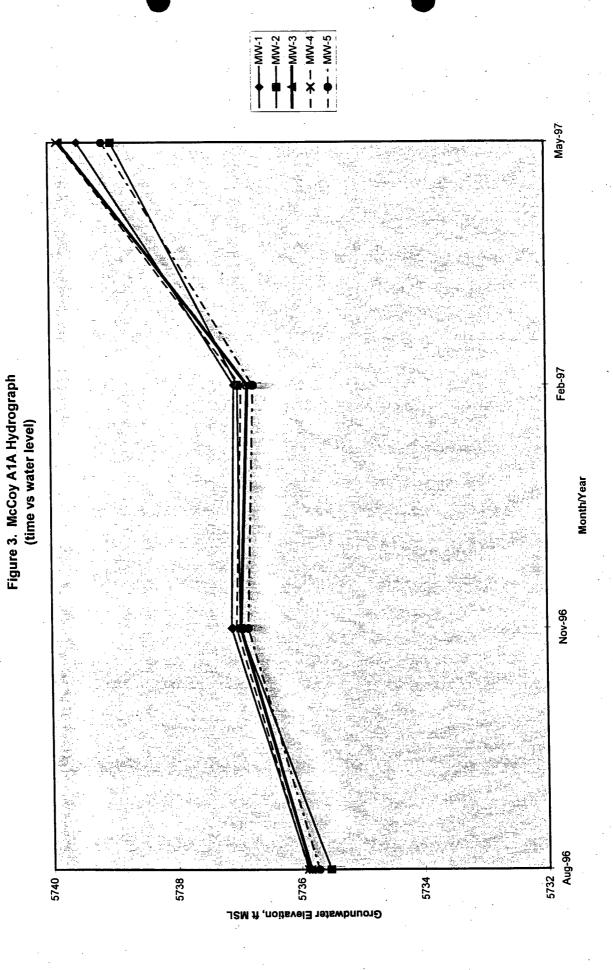


Figure 2. McCoy A1A Groundwater Countour Map (May 1997)







LAB: (505) 325-1556

ANALYTICAL REPORT

Attn:

Denver Bearden

Date:

28-May-97

Company:

PNM Gas Services

COC No.:

5557

Address:

Sample No.:

14661

603 W. Elm

City, State: Farmington, NM 87401

Job No.:

2-1000

Project Name:

PNM Gas Services - McCoy A1A

Project Location:

9705201330; MW-1 MS/MG

Date:

20-May-97 Time:

13:30

Sampled by: Analyzed by:

DC

Date:

22-May-97

Sample Matrix:

Liquid

Parameter		Results as Received	Unit of Measure	Limit of Quantitation	Unit of Measure
Benzene		ND	ug/L	0.2	ug/L
Toluene		ND	ug/L	0.2	ug/L
Ethylbenzene		ND	ug/L	0.2	ug/L
m,p-Xylene		ND	ug/L	0.2	ug/L
o-Xylene		ND	ug/L	0.2	ug/L
	TOTAL	ND	uo/I		

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

Denver Bearden

Date:

28-May-97

Company: PNM Gas Services

COC No.:

5557

Address:

14662

City, State: Farmington, NM 87401

603 W. Elm

Sample No.: Job No.:

2-1000

Project Name:

PNM Gas Services - McCoy A1A

Project Location:

9705201400; MW-2

20-May-97 Time:

14:00

Sampled by: Analyzed by:

DC

Date: Date:

22-May-97

Sample Matrix:

Liquid .

MS/MG

Parameter	Results as Received	Unit of Measure	Limit of Quantitation	Unit of Measure
Benzene	ND	ug/L	0.2	ug/ L
Toluene	ND	ug/L	0.2	ug/L
Ethylbenzene	ND	ug/L	0.2	ug/L
m,p-Xylene	ND	ug/L	0.2	ug/L
o-Xylene	ND	ug/L	0.2	ug/L
TOTAL	ND	ug/ L		

ND - Not Detected at Limit of Quantitation

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

P.O. BOX 2606 • FARMINGTON, NM 87499

- TECHNOLOGY BLENDING INDUSTRY WITH THE ENVIRONMENT -



LAB: (505) 325-1556

ANALYTICAL REPORT

Attn:

Denver Bearden

Date:

28-May-97

Company: PNM Gas Services

COC No.:

5557

Address:

603 W. Elm

Sample No.:

14663

City, State: Farmington, NM 87401

Job No.:

2-1000

Project Name:

PNM Gas Services - McCoy A1A

Project Location: Sampled by:

9705201430; MW-3

Date:

20-May-97 Time:

14:30

Analyzed by:

DC

Date:

22-May-97

Sample Matrix:

Liquid

MS/MG

Parameter		Results as Received	Unit of Measure	Limit of Quantitation	Unit of Measure
Benzene		ND	ug/L	0.2	ug/L
Toluene		ND	ug/L	0.2	ug/L
Ethylbenzene	-	ND	ug/L	0.2	ug/L
m,p-Xylene		ND	ug/L	0.2	ug/L
o-Xylene		ND	ug/L	0.2	ug/L
	70741	ND	ug/I		

ND - Not Detected at Limit of Quantitation

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

Approved By:

P.O. BOX 2606 • FARMINGTON, NM 87499



LAB: (505) 325-1556

ANALYTICAL REPORT

Denver Bearden

Date:

28-May-97

Company:

PNM Gas Services

COC No.:

5557

Address:

603 W. Elm

Sample No.:

14664

City, State: Farmington, NM 87401

Job No.:

2-1000

Project Name:

PNM Gas Services - McCoy A1A

Project Location:

9705201500; MW-4

Sampled by:

MS/MG

Date: Date: 20-May-97 Time:

22-May-97

15:00

Analyzed by: Sample Matrix: DC Liquid

Parameter	Results as Received	Unit of Measure	Limit of Quantitation	Unit of Measure
Benzene	ND	ug/L	0.2	ug/L
Toluene	ND	ug/L	0.2	ug/L
Ethylbenzene	ND	ug/ L	0.2	ug/L
m,p-Xylene	ND	ug/L	0.2	ug/L
o-Xylene	ND	ug/L	0.2	ug/L
TOTAL	ND	ug/L		

ND - Not Detected at Limit of Quantitation

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

Approved By: Date:



LAB: (505) 325-1556

TECHNOLOGIES, LTD.

ANALYTICAL REPORT

Attn:

Denver Bearden

Date:

28-May-97

Company: PNM Gas Services

COC No.:

5557

Address:

603 W. Elm

Sample No.:

14665

City, State: Farmington, NM 87401

Job No.:

2-1000

PNM Gas Services - McCoy A1A

Project Name: **Project Location:**

9705201530; MW-5

20-May-97 Time:

Sampled by: Analyzed by: MS/MG DC

Date: Date:

22-May-97

15:30

Sample Matrix:

Liquid .

Parameter	Results as Received	Unit of Measure	Limit of Quantitation	Unit of Measure
Benzene	ND	ug/ L	0.2	ug/L
Toluene	ND	ug/L	0.2	ug/L
Ethylbenzene	ND	ug/L	0.2	ug/L
m,p-Xylene	ND	ug/L	0.2	ug/L
o-Xylene	ND	ug/L	0.2	ug/L
TOTAL	ND	ug/L		

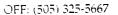
ND - Not Detected at Limit of Quantitation

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

Approved By:

Date:

TECHNOLOGY BLEMPING FACUSTR, WITH THE ENVIRON





LAB: (505) 325-1556

TECHNOLOGIES, LTD.

ANALYTICAL REPORT

Attn:

Denver Bearden

Date:

28-May-97

Company: PNM Gas Services

COC No.:

5557

Address:

603 W. Elm

Sample No.:

14666

City, State: Farmington, NM 87401

Job No.:

2-1000

Project Name:

PNM Gas Services - McCoy A1A

Project Location:

9705201600; MW-6 MS/MG

Date:

20-May-97 Time:

Sampled by: Analyzed by:

DC

Date:

22-May-97

16:00

Sample Matrix:

Liquid

	Results as	Unit of	Limit of	Unit of
Parameter	Received		Quantitation	Measure
Benzene	ND	· ug/L	0.2	ug/L
Toluene	ND	ug/L	0.2	ug/L
Ethylbenzene	ND	ug/L	0.2	ug/L
m,p-Xylene	ND	ug/L	0.2	ug/L
o-Xylene	ND	ug/ L	0.2	ug/L
TOTAL	ND	ug/ L		•

ND - Not Detected at Limit of Quantitation

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

Approved By

P.O. BOX 2606 • FARMINGTON, NM 87499



LAB: (505) 325-1556

QUALITY ASSURANCE REPORT

for EPA Method 8020

Date Analyzed: 22-May-97

Internal QC No.:

Surrogate QC No.:

0528-STD

Reference Standard QC No.: 0529/30-QC

Method Blank

		Unit of
Parameter	Result	Measure
Average Amount of All Analytes In Blank	<0.2	ppb

Calibration Check

	Unit of	True	Analyzed	. `	
Parameter	Measure	Value	Value	% Diff	Limit
Benzene	ppb	20.0	17.7	11	15%
Toluene	ppb	20.0	18.1	9	15%
Ethylbenzene	ppb	20.0	18.3	9	15%
m,p-Xylene	ppb	40.0	35.0	13	15%
o-Xylene	ppb	20.0	18.2	9	15%

Matrix Snike

IVIAUIX Spike						
Parameter	1- Percent Recovered	2 - Percent Recovered	Limit	%RSD	Limit	
Benzene	96	80	(39-150)	7	20%	
Toluene	97	85	(46-148)	7	20%	
Ethylbenzene	95	83	(32-160)	6	20%	
m,p-Xylene	94	81	(35-145)	6	20%	
o-Xylene	95	83	(35-145)	6	20%	

Surrogate Recoveries

Surrogate Recoveries					
I ah asatam, Idantifiantiam	S1 Percent	S2 Percent	I ah asadam i Idandiffa di an	S1 Percent	S2 Percent Recovered
Laboratory Identification	Recovered	Recovered	Laboratory Identification	Recovered	Recovered
Limit Percent Recovered	(70-130)		Limit Percent Recovered	(70-130)	
14661-5557	87				
14662-5557	95				
14663-5557	95			1	
14664-5557	102				
14665-5557	95				(m)
14666-5557	95				5/2810r-

S1: Flourobenzene

CHAIN OF CU! JDY RECORD

Date: 5/20/97

657 W. Maple • P. O. Box 2606 • Farmington NM 87499 LAB: (505) 325-5667 • FAX: (505) 325-6256

ON SITE

TECHNOLOGIES, LTD.

Date/Time 5/10/57 [53] 14661-5557 Results to be sent LAB ID to both parties. 1-1662 14663 17006 17664 14665 10 Working Days | Special Instructions: Date/Time Date/Time Telefax No. Alverado Square, Mail Stop 0408 ANALYSIS REQUESTED Title Albuquerque, NM 87158 **PNM Gas Services** Maureen Gannon 505-848-2974 24-48 Hours Mailing Address Telephone No. City, State, Zip Company Name Date/Time 6 20/97 1534 Received by: Received by: Distribution: White - On Site Yellow - LAB Pink - Sampler × Rush RESULTS TO Containers N Number of HZO NCE MATRIX PRES. D H 11.0 324-3763 Sampler Wash Street and Machen Harry TIME Date/Time Date/Time Dept. Date. DATE (Client Signature Must Accompany Request) Job No. mwz mus City, State, Zip Farmington, NM 87401 MUC mm5 m / MWY Relinquished by: Malaulu Januar **PNM Gas Services** 603 W. Elm Street **Denver Bearden** SAMPLE IDENTIFICATION 4404 Wa 9705201330 Mecay A1A 97520 1530 910520 1500 9705201400 970520 430 9705201600 Method of Shipment: Purchase Order No.: Company Sampling Location: Address Relinquished by: Relinquished by: Name Authorized by: INVOICE SEND

Goldenrod - Client