

3R - 328

# REPORTS

DATE:

July 27, 1998

Public Service Company  
of New Mexico  
603 W. Elm - P.O. Box 4750  
Farmington, NM 87499  
505 950-1997  
Fax 505 325-7365

July 27, 1998

Oil Conservation Division  
Attention: Bill Olson  
2040 South Pacheco  
Santa Fe, NM 87505

RECEIVED

JUL 31 1998



Gas Services

Subject: OCD Closure Reports  
2nd Reporting Quarter, 1998

ENVIRONMENTAL BUREAU  
OIL CONSERVATION DIVISION

Dear Mr. Olson:

PNM Gas Services is submitting closure reports to the Oil Conservation Division for the sites listed below.

- |                       |                            |                          |
|-----------------------|----------------------------|--------------------------|
| 1. Breech D #345 Drip | 12. Knauff B #1E           | 23. McDaniel B #1        |
| 2. Davis #13          | 13. Kutz J Federal #2      | 24. Miller #1E           |
| 3. Davis #18          | 14. Kutz J Federal #2 Drip | 25. Miller ML Drip       |
| 4. Davis #3           | 15. Kutz Wash Drip         | 26. Patterson B Com #1A  |
| 5. Davis #7           | 16. Largo S;ur A #1 Drip   | 27. Patterson B Com #1E  |
| 6. Eaton Federal #1E  | 17. Lunt #62R              | 28. R.P. Hargrave F #2   |
| 7. EH Pipken #10      | 18. Lunt #62R Drip         | 29. R.P. Hargrave F #3   |
| 8. EH Pipken #8       | 19. Lunt #63 Drip          | 30. Richardson #8        |
| 9. Johnson #1R        | 20. Lunt #64 Drip          | 31. Richardson #8E       |
| 10. Johnson Com B #1  | 21. Lybrook Federal 19-1   | 32. Witt #1 (Burlington) |
| 11. Johnson Com B #1E | 22. M.N. Galt J #2         | 33. Witt #1 (Dugan)      |

We are also submitting the following groundwater sites for closure:

1. Breech #354
2. Mangum #1

If you have any questions, please call me at 324-3764.

Sincerely,

A handwritten signature in cursive script that reads "Kathy Juckes".

Kathy Juckes  
Staff Assistant III

cc: Denny Foust  
BLM - Farmington  
Williams Field Services

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

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

ENVIRONMENTAL BUREAU  
OIL CONSERVATION DIVISION

PIT REMEDIATION AND CLOSURE REPORT

APPROVED

Operator: PNM Gas Services ( Burlington ) Telephone: 324-3764

Address: 603 W. Elm Street Farmington, NM 87401

Facility or Well Name: Mangum #1

Location: Unit I Sec 29 T 29 N R 11 W County San Juan

Pit Type: Separator ☒ Dehydrator ☐ Other                     

Land Type: BLM ☐ State ☐ Fee ☒ Other No

Pit Location: Pit dimensions: length 15 width 15 depth 3

(Attach diagram) Reference: wellhead ☒ other                     

Footage from reference: 35'

Direction from reference: 45 Degrees ☐ East North ☒  
of ☒ West South ☐

<b>Depth to Ground Water:</b>	Less than 50 feet	(20 points)	
	50 feet to 99 feet	(10 points)	
	Greater than 100 feet	( 0 points)	<u>20</u>

(Vertical distance from contaminants to  
seasonal high water elevation of ground  
water)

<b>Wellhead Protection Area:</b>	Yes	(20 points)	
	No	( 0 points)	<u>0</u>

(Less than 200 feet from a private  
domestic water source, or; less than 1,000  
feet from all other water sources)

<b>Distance to Surface Water:</b>	Less than 200 feet	(20 points)	
	200 feet to 1,000 feet	(10 points)	
	Greater than 1,000 feet	( 0 points)	<u>10</u>

(Horizontal distance to perennial lakes,  
ponds, rivers, streams, creeks, irrigation  
canals and ditches)

**RANKING SCORE (TOTAL POINTS) :** 30

Mangum #1

Date Remediation Started: 3/16/97

Date Completed: 3/18/97

## Remediation Method:

Excavation ☒

Approx. Cubic Yard 313

(Check all appropriate sections)

Landfarmed ☒

Amount Landfarmed (cubic yds)

Other

## Remediation Location:

Onsite

Offsite

Hauled 273 cu yds to Tierra Environmental.

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

## Backfill Material Location:

## General Description of Remedial Action:

Excavated contaminated soil to a pit size of 44' X 32' X 6' and transported soil to Tierra Environmental.

## Ground Water Encountered:

No

☐

Yes

☒

Depth

4'

## Final Pit Closure Sampling:

Sample Location

Closure soil sample was not taken. See attached excavation work sheet and groundwater report.

(if multiple samples, attach sample result and diagram of sample locations and depths.)

Sample depth

Sample date

Sample time

Sample Results

Benzene (ppm)

Total BTEX (ppm)

Field headspace (ppm)

TPH (ppm)

Method

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 July 27, 1998

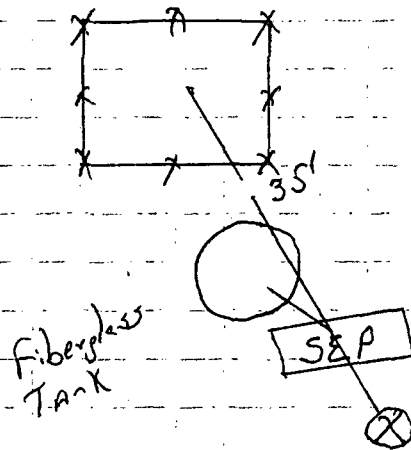
SIGNATURE

PRINTED NAME Maureen Gannon  
AND TITLE Project Manager

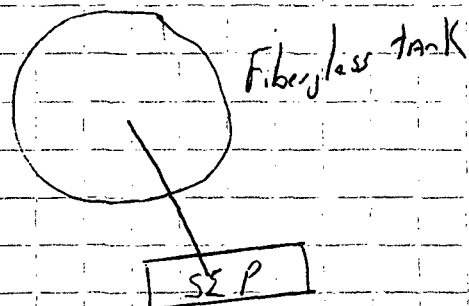
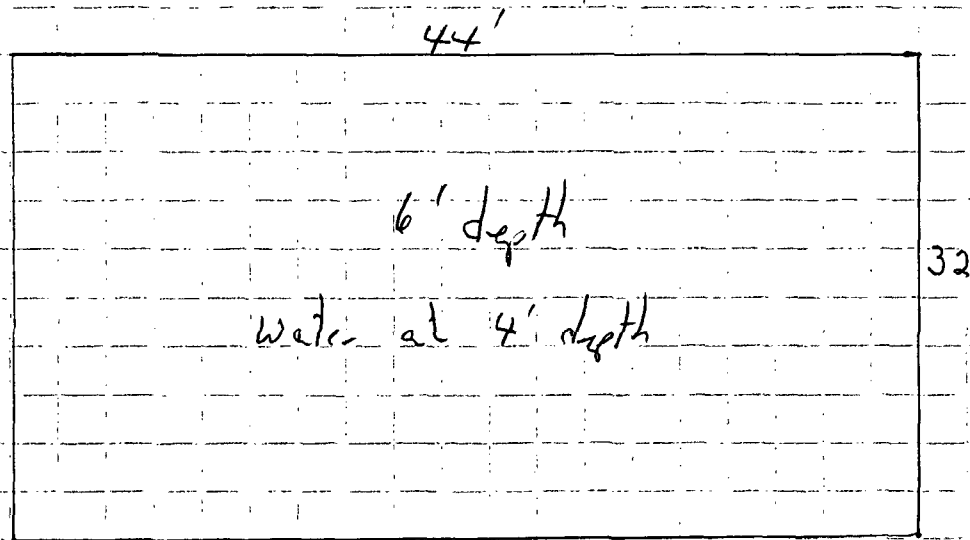
Mangum #1  
Burlington Resources  
Sec 29. 29W, 11W, I

3-16-97

Start of Excavation:



End of excavation:





Gas Services

## Excavation Work Sheet

Date 3/16/97		Vertical Extent 5'			
Well Name Mangum #1	Operator Burlington Resources	S 29	T 29 N	R 11W	UI I
Pit Dimensions at Start 15 X 15 X 3		Excavation Dimensions at End 44 X 32 X 6			
Excavated Cu. Yds. 313 yds	Overburden Cu. Yds. 40		Spoil Cu. Yds. 273		

## PIT PID READINGS

Feet	Center	Soil Type	N. Wall	S. Wall	E. Wall	W. Wall
3'	216	sand/clay	0	51.3	0	0
5'		sand/cobbles	3.4	6.1	0	0
9'						
12'						
15'						
18'						
21'						

Composite Sample #: 9803170730 (H<sub>2</sub>O)

Location	Depth	PID Reading
North Wall		
South Wall		
East Wall		
West Wall		
Pit Bottom		

Land Farm Location: Tierce Environmental (trucking)

total truck loads = 35 loads - Tierce advised 260 yds spoil

Back Fill Location: Approved BLM pit

Comments: water at 4' depth. Notified Maureen in Albg.  
Have a 3 1/2' to 4' overburden there have 2' band of  
colored spoil which is at water level. Highest PID reading  
was 216 ppm. All walls clean. Installed monitoring wells. PVC pipe

Dave Cox (On Site) advised water was clean

B T E X

54978

OFF: (505) 325-5667



LAB: (505) 325-1556

Date: 25-Mar-98

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**CLIENT:** PNM - Public Service Company of NM  
**Project:** Mangum #1  
**Lab Order:** 9803037

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## 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.

Date: 25-Mar-98

# On Site Technologies, LTD.

CLIENT: PNM - Public Service Company of NM

Work Order: 9803037

Project: Mangum #1

## QC SUMMARY REPORT

Method Blank

Sample ID: MB1	Batch ID: GC-1_980318	Test Code: SW8020A	Units: µg/L	Analysis Date: 3/18/98	Prep Date:
Client ID:	9803037	Run ID: GC-1_980318A		SeqNo: 67	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Benzene	.0822	0.5			J
Ethylbenzene	.1129	0.5			J
m,p-Xylene	.3057	1			J
o-Xylene	.1097	0.5			J
Toluene	.1684	0.5			J

### Qualifiers:

ND - Not Detected at the Reporting Limit  
J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits  
R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank



PNMGS Well Site: Mangum #1

## **Groundwater Site Summary Report**

Copies: WFS(1)  
Operator (1)  
NMOCD District Office (1)  
NMOCD Santa Fe (1)

Month/Year: July 1998

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**Operator:** Burlington Resources  
**Sec:** 27 **Twn:** 29N **Rng:** 11W **Unit:** I  
**Canyon:** Kutz

**Vulnerable Class:** Original  
**OCD Ranking:** 30  
**Lead Agency:** NMOCD

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**Activities:**

On March 16, 1997, PNM commenced excavation of their former pit location at the Mangum #1. At 4 feet below ground surface, groundwater was encountered. A groundwater sample was collected from the excavation and the sample was delivered to OnSite Technologies, Farmington, New Mexico for analysis of BTEX using EPA Method 8020. After the excavation was completed, the pit was backfilled with clean soil. Contaminated soil was hauled to Tierra Environmental. No final closure soil sample was collected from the excavation due to the presence of groundwater; however, during excavation, PNM conducted PID measurements at successive depths along the sidewalls as documented in the attached Excavation Work Sheet.

The laboratory analytical report indicates that BTEX concentrations in groundwater at the Mangum #1 are below WQCC standards (see attached results from OnSite Technologies dated March 17, 1997).

**Further Action:**

Consistent with PNM's San Juan Basin Groundwater Management Plan, PNM requests closure of our former pit at the Mangum #1 well site. A sample from the center of the pit area indicates that groundwater is clean at the site.

OFF: (505) 325-5667



LAB: (505) 325-1556

## ANALYTICAL REPORT

Date: 25-Mar-98

<b>Client:</b>	PNM - Public Service Company of NM	<b>Client Sample Info:</b>	Mangum #1
<b>Work Order:</b>	9803037	<b>Client Sample ID:</b>	9803170730
<b>Lab ID:</b>	9803037-01A	<b>Matrix:</b>	AQUEOUS
<b>Project:</b>	Mangum #1	<b>Collection Date:</b>	3/17/98 7:30:00 AM
		<b>COC#:</b>	7112

Parameter	Result	Limit	Qual	Units	DF	Date Analyzed
<b>BTEX</b>		<b>SW8020A</b>		<b>Analyst: DC</b>		
Benzene	ND	0.5		µg/L	1	3/18/98
Toluene	1.6	0.5		µg/L	1	3/18/98
Ethylbenzene	4.8	0.5		µg/L	1	3/18/98
m,p-Xylene	51	1		µg/L	1	3/18/98
o-Xylene	16	0.5		µg/L	1	3/18/98
Surr: Fluorobenzene	92.3	70-130		%REC	1	3/18/98
Surr: 1,4-Difluorobenzene	93.0	70-130		%REC	1	3/18/98
Surr: 4-Bromochlorobenzene	90.7	70-130		%REC	1	3/18/98

**Qualifiers:**

ND - Not Detected at the Reporting Limit

S - Spike Recovery outside accepted recovery limits

J - Analyte detected below quantitation limits

R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

E - Value above quantitation range

\* - Value exceeds Maximum Contaminant Level

1 of 1

P.O. BOX 2606 • FARMINGTON, NM 87499