P.O. Box 1980, Hobbs, NM DISTRICT II DEPUTY OIL & GAS INSPECTOR

P.O. Drawer DD, Artesia, NM 88221

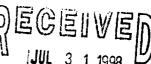
District III

DEC 1 7 1998 1000 Rio Brazos Rd, Aztec, NM 87410

State of New Mexico Energy, Minerals and Natural Resources Department SUBMIT I COPY TO APPROPRIATE DISTRICT OFFICE AND LOOPY TO SANTA FE OFFICE +

OIL CONSERVATION DIVISION

2040 South Pacheco Street Santa Fe, New Mexico 87505



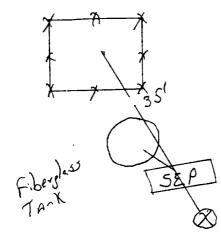
PIT REMEDIATION AND CLOSURE REPORT

Operator: PNM Gas Services (Burlington) Telephone: 324-3764 Address: 603 W. Elm Street Farmington, NM 87401 Facility or Well Name: Mangum #1 Location: Sec 29 29 N 11 W County R San Juan Pit Type: Separator 🗸 Dehydrator Other Land Type: **BLM** State Fee 📝 Other No Pit Location: Pit dimensions: length width 15 ' 15 ' 3 (Attach diagram) Reference: wellhead other Footage from reference: 35' Direction from reference: Degrees 45 East North of West South Depth to Ground Water: Less than 50 feet (20 points) 50 feet to 99 feet (10 points) Greater than 100 feet (0 points) 20 (Vertical distance from contaminants to seasonal high water elevation of ground Wellhead Protection Area: Yes (20 points) No (0 points) (Less than 200 feet from a private 0 domestic water source, or, less than 1,000 feet from all other water sources) Distance to Surface Water: Less than 200 feet (20 points) 200 feet to 1,000 feet (10 points) Greater than 1,000 feet (0 points) 10 (Horizontal distance to perennial lakes, ponds, rivers, streams, creeks, irrigation canals and ditches **RANKING SCORE** (TOTAL POINTS): 30

Mangum #1					Data Carri	nlated:		
Date Remediation Started:	3/-	16/97			Date Comp	pietea:	3/18/97	
Remediation Method:	Excavation	X			Approx. Cu	ıbic Yard	313	
(Check all appropriate	Landfarmed	x			Amount La -	undfarmed (cubi	c yds)	
sections)	Other							
Remediation Location: (i.e., landfarmed onsite, name and location of offsite facility)	Onsite				Offsite	Hauled 273 cu Environmental		
Backfill Material Location:								
General Description of Rem	edial Action:							
Excavated contaminated soil		4' X 32' X	(6' and 1	transporte	ed soil to Tier	ra Environmenta	ıl	
		-		-				
Ground Water Encountered	i: No			Yes	Y	Depth	4'	
				=				
Final Pit Closure Sampling:	Sample Location				ile was not tal water report.	ken. See attache	ed excavation wo	rk
(if multiple samples, attach sample result and diagram of sample locations and depths.)	Sample depth							_
sample locations and depths.)	Sample date				Sample	e time		
	Sample Results	S						
	Benzer	ne (ppm)					
	Total F	BTEX (p	opm)					
	Field he	eadspace	(ppm)					
	TPH (ppm)				Method			
Vertical Extent (ft)		_		Risk Ana	alysis form at	tached Yes	No	Ž
Ground Water Sample:	Yes	~	No			see attached Gro ry Report)	oundwater Site	
I HEREBY CERTIFY THA' KNOWLEDGE AND MY B		IATION .	ABOVE	IS TRUI	E AND COM	PLETE TO THE	E BEST OF MY	
DATE July 27, 1998 SIGNATURE Y	el Marin				PRINTED N AND TITLE	AME Mauree Project l	n Gannon Manager	

Mangam # / Burlington Resources. Sec 29, 29N, 11W, I

start of Excavation;



End of excavition:

6'derth

Water at 4' depth

Fiberylas tank

SEP

1728



Excavation Work Sheet

Date			Vertical Ex	ktent	
3/11/97	7		5		
Well Name	Operator	S	T	R	UI
Manghon #/	Burlington Resource	29	29 N	112	I
Pit Dimensions	at Start Excavation Dimensions at			nd	
15 X15X3		44	X32X6		
Excavated Cu. Yds.	Overburden	Cu. Yds.		Spoil C	u. Yds.
3/3	40				73

		Р	IT PID READIN	GS		
Feet	Center	Soil Type	N. Wall	S. Wall	E. Wall	W. Wall
3'	214	sand/clan	d	51.3	·O	0
50		sand/colles	3.4 H20	6.1	4	Ø
9'						
12'						
15'						
18'						
21'						

posite Sample #:	9803170730	(H20)	
Location	Depth		PID Reading
North Wall			
South Wall			
East Wall			
West Wall			(
Pit Bottom			

Land Farm Location: Tierre Environmental (trucking)

total truck loads = 35 loads - Tierre advised 240 yds spuil

Back Fill Location: Agreed Blm pit

Comments: water at 4' depth. Notified Manverew in Alba.

Have a 31/2 to 4' overbuiden them have 2' bond of

Coloved spoil which is at water level. Highest PIO reading

was 214 pm. All walls alean. Installed mustuing wells. PVC pg.

Dave Cox (On Site) advised water was alean.

B T E X



OFF: (505) 325-5667

LAB: (505) 325-1556

Date: 25-Mar-98

CLIENT:

PNM - Public Service Company of NM

Project:

Mangum #1

Lab Order:

9803037

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.

B - Analyte detected in the associated Method Blank

Method Blank

QC SUMMARY REPORT

On Site Technologies, LTD.

PNM - Public Service Company of NM CLIENT:

9803037 Work Order:

Mangum #1 **Project:**

						A a charle	2010: 2/48/08	Pren Date:	Jate:		
Sample ID: MB1	Batch ID: GC-1_980318 Test Code: SW8020A Units: µg/L	Test Code:	SW8020A	Inits: µg/L		Analysis t	Analysis Date: 3/10/30	-			
Client ID:	9803037	Run ID:	GC-1_980318A			SedNo:	29				
Analyte	Result	Pal	SPK value SPK Ref Val		"REC L	owLimit	LowLimit HighLimit RPD Ref Val		%RPD RPDLimit	t Qual	
Benzene Ethylbenzene m.p-Xylene o-Xylene Toluene	.0822 .1129 .3057 .1097	0.5 0.5 0.5 0.5									

Qualifiers:

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

Operator: Burlington Resources

Sec: 27 Twn: 29N Rng: 11W Unit: I

Canyon: Kutz

Vulnerable Class: Original

OCD Ranking: 30 Lead Agency: NMOCD

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

Client:

PNM - Public Service Company of NM

Work Order:

9803037

Mangum #1

Lab ID:

Project:

9803037

9803037-01A

Matrix: AQUEOUS

Client Sample Info: Mangum #1

Client Sample ID: 9803170730

Collection Date: 3/17/98 7:30:00 AM

COC#: 7112

Parameter	Result	Limit Ç	ual Units	DF	Date Analyzed
BTEX	S	W8020A			Analyst: DC
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

J - Analyte detected below quantitation limits

B - Analyte detected in the associated Method Blank

* - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range