

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

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

*Rank
Vertical
Extent*

PIT REMEDIATION AND CLOSURE REPORT

Operator: <u>PNM Gas Services (Greystone)</u>		Telephone: <u>324-3764</u>	
Address: <u>603 W. Elm Street Farmington, NM 87401</u>			
Facility or Well Name: <u>Newman #1E</u>			
Location:	Unit <u>C</u>	Sec <u>20</u>	T <u>31 N</u> R <u>12 W</u> County <u>San Juan</u>
Pit Type:	Separator ☐	Dehydrator ☒	Other _____
Land Type:	BLM ☐	State ☐	Fee ☒ Other _____
Pit Location: Pit dimensions: length <u>18</u> ' width <u>18</u> ' depth <u>3</u> '			
(Attach diagram) Reference: wellhead ☒ other _____			
Footage from reference: <u>110'</u>			
Direction from reference: <u>80</u> Degrees ☒ East North ☒			
of ☐ West South ☐			
Depth to Ground Water:			
(Vertical distance from contaminants to seasonal high water elevation of ground water)		Less than 50 feet	(20 points)
		50 feet to 99 feet	(10 points)
		Greater than 100 feet	(0 points)
			<u>0</u>
Wellhead Protection Area:			
(Less than 200 feet from a private domestic water source, or, less than 1,000 feet from all other water sources)		Yes	(20 points)
		No	(0 points)
			<u>0</u>
Distance to Surface Water:			
(Horizontal distance to perennial lakes, ponds, rivers, streams, creeks, irrigation canals and ditches)		Less than 200 feet	(20 points)
		200 feet to 1,000 feet	(10 points)
		Greater than 1,000 feet	(0 points)
			<u>0</u>
RANKING SCORE (TOTAL POINTS) :			<u>0</u>

RECEIVED
JAN 31 2000
OIL CON. DIV.
DIST. 3

Newman #1E

Date Remediation Started: 05/26/1999

Date Completed: 05/27/1999

Remediation Method: Excavation ☒

Approx. Cubic Yard 426

(Check all appropriate sections)

Landfarmed ☒

Amount Landfarmed (cubic yds) 326

Other 100 cu yds clean overburden.

Remediation Location:

Onsite ☒Offsite ☐

(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 23.5' X 24.5' X 20' and landfarmed soil onsite within a bermed area at a depth of 6" to 12". Soil was aerated by disking/plowing until soil met regulatory levels.

*** Vertical extent drilling conducted to 50'. Bottom hole results below OCD guidelines as indicated on attached lab analysis.

Ground Water Encountered:

No ☒Yes ☐

Depth

Final Pit Closure Sampling:

Sample Location

5 pt. composite - bottom.

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

Sample depth

20'

Sample date

05/27/1999

Sample time

7:15:00 AM

Sample Results

Benzene (ppm)

5.7

Total BTEX (ppm)

113.2 ***

Field headspace (ppm)

TPH (ppm)

694.00

Method

8015B

Vertical Extent (ft) 50'

Risk Analysis form attached Yes ☐No ☒

Ground Water Sample:

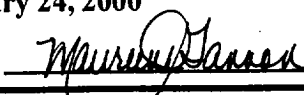
Yes ☐No ☒

(If yes, see attached Groundwater Site Summary Report)

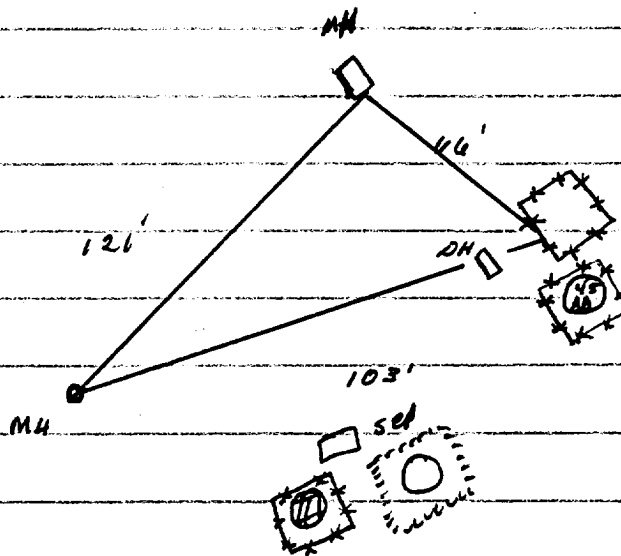
I HEREBY CERTIFY THAT THE INFORMATION ABOVE IS TRUE AND COMPLETE TO THE BEST OF MY KNOWLEDGE AND MY BELIEF

DATE January 24, 2000

SIGNATURE

PRINTED NAME Maureen Gannon
AND TITLE Project Manager

Newman #1E
(F) 20-31N-12W
Greystone
5-26-44 @ 1235



Excavation Sampling

25.5'(N+D) x 24.5'(E+W) x 20'(D)

PID Readings

5' - 2931 ppm

10' - 2690 ppm

15' - 2773 ppm

20' - 2600 ppm

north wall sample
at 15' - 0 ppm

west wall sample
at 18' - 0 ppm

East wall sample
at 18' - 84 ppm

5 point bottom composite sample
at 20' - 2627 ppm

South wall sample
at 18' - 157 ppm

not to scale

OFF: (505) 325-5667



LAB: (505) 325-1556

On Site Technologies, LTD.

Date: 14-Jun-99

CLIENT: PNM - Public Service Company of NM

Project: Newman #1E & #1E Drip

Lab Order: 9905097

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.

OFF: (505) 325-5667



RH

LAB: (505) 325-1556

ANALYTICAL REPORT

Date: 14-Jun-99

Client:	PNM - Public Service Company of NM	Client Sample Info:	Newman #1E
Work Order:	9905097	Client Sample ID:	9905270715; 5pt. Bottom Comp
Lab ID:	9905097-02A	Matrix:	SOIL
Project:	Newman #1E & #1E Drip	Collection Date:	5/27/99 7:15:00 AM
		COC Record:	7630

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
DIESEL RANGE ORGANICS		SW8015B				Analyst: DC
T/R Hydrocarbons: C10-C28	694	25		mg/Kg	1	6/4/99
AROMATIC VOLATILES BY GC/PID		SW8021B				Analyst: DC
Benzene	5700	1000		µg/Kg	1000	6/1/99
Toluene	35000	2000		µg/Kg	1000	6/1/99
Ethylbenzene	5500	1000		µg/Kg	1000	6/1/99
m,p-Xylene	57000	2000		µg/Kg	1000	6/1/99
o-Xylene	10000	1000		µg/Kg	1000	6/1/99

113200
113.2 ppm

Qualifiers:

- PQL - Practical Quantitation Limit
- ND - Not Detected at Practical Quantitation Limit
- J - Analyte detected below Practical Quantitation Limit
- B - Analyte detected in the associated Method Blank

- S - Spike Recovery outside accepted recovery limits
- R - RPD outside accepted recovery limits
- E - Value above quantitation range
- Surr: - Surrogate

1 of 1

P.O. BOX 2606 • FARMINGTON, NM 87499

- TECHNOLOGY BLENDING INDUSTRY WITH THE ENVIRONMENT -

OFF: (505) 325-5667



LAB: (505) 325-1556

ANALYTICAL REPORT

Date: 14-Jun-99

Client:	PNM - Public Service Company of NM	Client Sample Info:	Newman #1E
Work Order:	9905097	Client Sample ID:	9905270720; 4pt. Wall Comp
Lab ID:	9905097-03A	Matrix:	SOIL
Project:	Newman #1E & #1E Drip	Collection Date:	5/27/99 7:20:00 AM
		COC Record:	7630

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
DIESEL RANGE ORGANICS		SW8015B				Analyst: DC
T/R Hydrocarbons: C10-C28	ND	25		mg/Kg	1	6/4/99

Qualifiers:

PQL - Practical Quantitation Limit

S - Spike Recovery outside accepted recovery limits

ND - Not Detected at Practical Quantitation Limit

R - RPD outside accepted recovery limits

J - Analyte detected below Practical Quantitation Limit

E - Value above quantitation range

B - Analyte detected in the associated Method Blank

Surr: - Surrogate

1 of 1

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- TECHNOLOGY BLENDING INDUSTRY WITH THE ENVIRONMENT -

RH

OFF: (505) 325-5667



LAB: (505) 325-1556

ANALYTICAL REPORT

Date: 14-Jun-99

Client:	PNM - Public Service Company of NM	Client Sample Info:	Newman #1E
Work Order:	9905097	Client Sample ID:	9905270710; North Wall
Lab ID:	9905097-01A	Matrix:	SOIL
Project:	Newman #1E & #1E Drip	Collection Date:	5/27/99 7:10:00 AM
		COC Record:	7630

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
DIESEL RANGE ORGANICS		SW8015B				Analyst: DC
T/R Hydrocarbons: C10-C28	615	25		mg/Kg	1	6/4/99
AROMATIC VOLATILES BY GC/PID		SW8021B				Analyst: DC
Benzene	9400	2500		µg/Kg	2500	6/1/99
Toluene	70000	5000		µg/Kg	2500	6/1/99
Ethylbenzene	12000	2500		µg/Kg	2500	6/1/99
m,p-Xylene	120000	5000		µg/Kg	2500	6/1/99
o-Xylene	22000	2500		µg/Kg	2500	6/1/99

233400
233.4 ppm

Qualifiers:	PQL - Practical Quantitation Limit	S - Spike Recovery outside accepted recovery limits
	ND - Not Detected at Practical Quantitation Limit	R - RPD outside accepted recovery limits
	J - Analyte detected below Practical Quantitation Limit	E - Value above quantitation range
	B - Analyte detected in the associated Method Blank	Surr: - Surrogate

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- TECHNOLOGY BLENDING INDUSTRY WITH THE ENVIRONMENT -

Newman 1E
Sec-20 T-31N R-12W 4L-F
Greystone

Landfarm Drawing

App 326.48 cu yds

2" to 12" Depth

Headspace 27.9ppm

Sample # 9907151010

⊕ well
head
10'

137'

3.9ppm

4.2 ppm

4.3 ppm

198'

3.7ppm

3.0ppm

Not to Scale

OFF: (505) 325-5667



LAB: (505) 325-1556

On Site Technologies, LTD.

Date: 30-Jul-99

CLIENT: PNM - Public Service Company of NM
Project: Jackson 2E, Newman 1E & Payne 4 LF
Lab Order: 9907038

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.

OFF: (505) 325-5667



LAB: (505) 325-1556

ANALYTICAL REPORT

Date: 30-Jul-99

Client:	PNM - Public Service Company of NM	Client Sample Info:	Newman 1E LF
Work Order:	9907038	Client Sample ID:	9907151010; 5pt Comp
Lab ID:	9907038-02A	Matrix:	SOIL
Project:	Jackson 2E, Newman 1E & Payne 4 LF	Collection Date:	7/15/99 10:10:00 AM
		COC Record:	7736

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
DIESEL RANGE ORGANICS		SW8015B				Analyst: DC
T/R Hydrocarbons: C10-C28	ND	25		mg/Kg	1	7/29/99

Qualifiers:

PQL - Practical Quantitation Limit

S - Spike Recovery outside accepted recovery limits

ND - Not Detected at Practical Quantitation Limit

R - RPD outside accepted recovery limits

J - Analyte detected below Practical Quantitation Limit

E - Value above quantitation range

B - Analyte detected in the associated Method Blank

Surr: - Surrogate

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- TECHNOLOGY BLENDING INDUSTRY WITH THE ENVIRONMENT -

OFF: (505) 325-5667



LAB: (505) 325-1556

On Site Technologies, LTD.

Date: 13-Oct-99

CLIENT: PNM - Public Service Company of NM
Project: Vertical Extent Drilling
Lab Order: 9909077

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.

OFF: (505) 325-5667



LAB: (505) 325-1556

ANALYTICAL REPORT

Date: 13-Oct-99

Client:	PNM - Public Service Company of NM	Client Sample Info:	Newman #1E
Work Order:	9909077	Client Sample ID:	9909271210 @ 55ft.
Lab ID:	9909077-02A	Matrix:	SOIL
Project:	Vertical Extent Drilling	Collection Date:	09/27/1999 12:10:00 PM
		COC Record:	7762

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
DIESEL RANGE ORGANICS						
T/R Hydrocarbons: C10-C28	ND	25		mg/Kg	1	Analyst: DC 10/06/1999
AROMATIC VOLATILES BY GC/PID						
Benzene	ND	1		µg/Kg	1	Analyst: DM 10/04/1999
Toluene	4.1	2		µg/Kg	1	10/04/1999
Ethylbenzene	ND	1		µg/Kg	1	10/04/1999
m,p-Xylene	8.2	2		µg/Kg	1	10/04/1999
o-Xylene	2.6	1		µg/Kg	1	10/04/1999

14.9
0.0149 ppm

Qualifiers:	PQL - Practical Quantitation Limit	S - Spike Recovery outside accepted recovery limits
	ND - Not Detected at Practical Quantitation Limit	R - RPD outside accepted recovery limits
	J - Analyte detected below Practical Quantitation Limit	E - Value above quantitation range
	B - Analyte detected in the associated Method Blank	Surr: - Surrogate

P.O. BOX 2606 • FARMINGTON, NM 87499

1 of 1

RECORD OF SUBSURFACE EXPLORATION

Philip Environmental Services Corp.

4000 Monroe Road

Farmington, New Mexico 87401

(505) 326-2282 FAX (505) 326-2388

Borehole # 1

Well #

Page 1 of 2

Project Name PNM VERTICAL EXTENT

Project Number 62800044 Phase 35

Project Location NEWMAN #16 DR

Well Logged By C. CULLICOTT

Personnel On-Site E. PADILLA & D. PADILLA

Contractors On-Site Ø

Client Personnel On-Site GARY COOK

Elevation

Borehole Location T31N R12WS ZG F

GWL Depth NONE ENCOUNTERED

Logged By C. CULLICOTT

Drilled By E. PADILLA & D. PADILLA

Date/Time Started 9/27/99 10:45am

Date/Time Completed 9/27/99 11:00pm

Drilling Method AUGER

Air Monitoring Method P10

Depth (Feet)	Sample Interval	Sample Type & Recovery (inches)	Sample Description Classification System: USCS	USCS Symbol	Depth Lithology Change (feet)	Air Monitoring Units: NDU			Drilling Conditions & Blow Counts
						BZ	BH	S	
0			↑						
5			0-20'						
10			CLEAN						
15			FILL						
20	① 20'-21½'		① FULL RECOVERY. FINE TO MEDIUM SAND W/ A SMALL % CLAY. CONSOLIDATED. TAN W/ GRAY TO BLACK PERVASIVE AL STAIN. COOR.						① 27 BLOWS SS 282 ppm HS 380 ppm
25	② 25'-26½'		② 10" RECOVERY. UPPER FEW" SANDY SILTSTONE, GRAY, SOLID. REST GRAY SILTY FINE SAND W/ CL COOR.						② 47 BLOWS SS 376 ppm HS 277 ppm
30	③ 30'-31½'		③ FULL RECOVERY. STIFF TAN SAND W/ MINOR CLAY. COOR. NO STAIN						③ 50 BLOWS SS 372 ppm HS 260 ppm
35	④ 35'-36½'		④ MEDIUM GRAINED SILTY SAND W/ WHITE MATRIX. STRONG COOR - "LIKE BONE GASOLINE".						④ 32 BLOWS SS 349 ppm HS 308 ppm
40									

Comments:

SUNNY, BREEZY, COOL

10" RECOVERY

Geologist Signature

Cathy Cullcott

RECORD OF SUBSURFACE EXPLORATION

Philip Environmental Services Corp.

4000 Monroe Road

Farmington, New Mexico 87401

(505) 326-2282 FAX (505) 326-2388

Borehole # 1

Well #

Page 2 of 2

Project Name PNM VERTICAL EXTENT
 Project Number 02800044 Phase 35
 Project Location NEUMAN #1E DR

Elevation
 Borehole Location T31N R12W S20E
 GWL Depth NONE ENCOUNTERED
 Logged By C. CULLICOTT
 Drilled By R. PADILLA + D. PADILLA
 Date/Time Started 9/27/99 10:45am
 Date/Time Completed 9/27/99 1pm

Well Logged By C. CULLICOTT
 Personnel On-Site R. PADILLA + D. PADILLA
 Contractors On-Site 8
 Client Personnel On-Site GARY COOK
 Drilling Method AUGER
 Air Monitoring Method PIU

Depth (Feet)	Sample Interval	Sample Type & Recovery (Inches)	Sample Description Classification System: USCS	USCS Symbol	Depth Lithology Change (feet)	Air Monitoring Units: NDU BZ BH S			Drilling Conditions & Blow Counts
40	(5) 40'-42'		(5) BROWN TO TANSANDY SILT w/CLAY. SLIGHTLY PLASTIC. "BOTTOM" BROWN, FLATIER, LOOKS LIKE COMPRESSED (BOTANICAL) PLANT MATERIAL. STRONG ODOR						(5) 12 BLOWS SS 403 ppm HS 310
5	(6) 45'-47'		(6) 18" RECOVERY. DARK BROWN CLAYEY SILT, MODERATE CONSOLIDATION w/ "SHALY" PARTINGS SLIGHT ODOR						(6) 50+ BLOWS SS 63.7 ppm HS 294 ppm
10	(7) 50'-52'		(7) 6" RECOVERY. FINE TAWISH-GREY SILTY SAND. BOTTOM OF SPLIT SPOON IS SANDSTONE. HARD SPLIT SPOON REFUSAL AFTER 6"						(7) 50+ BLOWS SS 84 ppm HS ppm
15									
20									
25									
30									
35									
40			TD 50' REFUSAL ON SANDSTONE						

Comments:

HOLE BACKFILLED WITH CUTTINGS + CLEAN FILL

Geologist Signature

Carthey Cullcott