

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

District II

District III
P.O. Box 1980, Artesia, NM 88221

District III
P.O. Box 1980, 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

Risk
Vertical
Extent
SUBMIT 1 COPY TO
APPROPRIATE
DISTRICT OFFICE
AND 1 COPY TO
SANTA FE OFFICE

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: Summit #6

Location: Unit G Sec 33 T 29 N R 11 W County San Juan

Pit Type: Separator ☐ Dehydrator ☐ Other No equipment.

Land Type: BLM ☒ State ☐ Fed ☐ Other

Pit Location: Pit dimensions: length 20 width 20 depth 3

(Attach diagram) Reference: wellhead ☒ other

Footage from reference: 60'

Direction from reference: 45 Degrees ☒ East North

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) 0

Wellhead Protection Area: Yes (20 points)
No (0 points) 0

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) 0

RANKING SCORE (TOTAL POINTS): 0

Summit 16

Date Remediation Started: 06/24/1999 Date Completed: 06/24/1999

Remediation Method: Excavation X Approx. Cubic Yard 1155

(Check all appropriate sections) Landfarmed X Amount Landfarmed (cubic yds) 1100

Other 55 cu yds overburden.

Remediation Location: Onsite X 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 39' X 40' X 20' and landfarmed soil onsite within a bermed area at a depth of 6" to 12". Soil was aerated by plowing until soil met regulatory levels.

*** Vertical extent drilling conducted to 42'. Bottom hole results below OCD guidelines as indicated on attached lab analysis.

Ground Water Encountered: No X 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 06/24/1999 Sample time 11:30:00 AM

Sample Results

Benzene (ppm) 7

Total BTEX (ppm) 385 ***

Field headspace (ppm)

TPH (ppm) 2630.00 Method 8015B

Vertical Extent (ft) 42' Risk Analysis form attached Yes No X

Ground Water Sample: Yes No X (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 Maureen Gannon

PRINTED NAME Maureen Gannon AND TITLE Project Manager

Summit #6

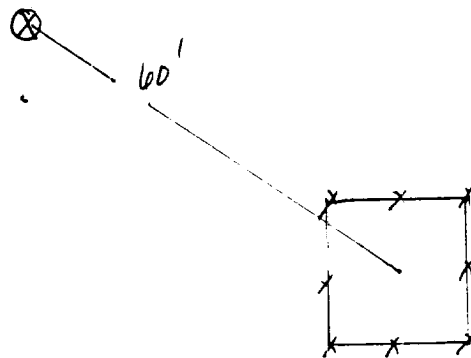
Burlington

Sec. 33, 29N, 11W, G

6-24-99

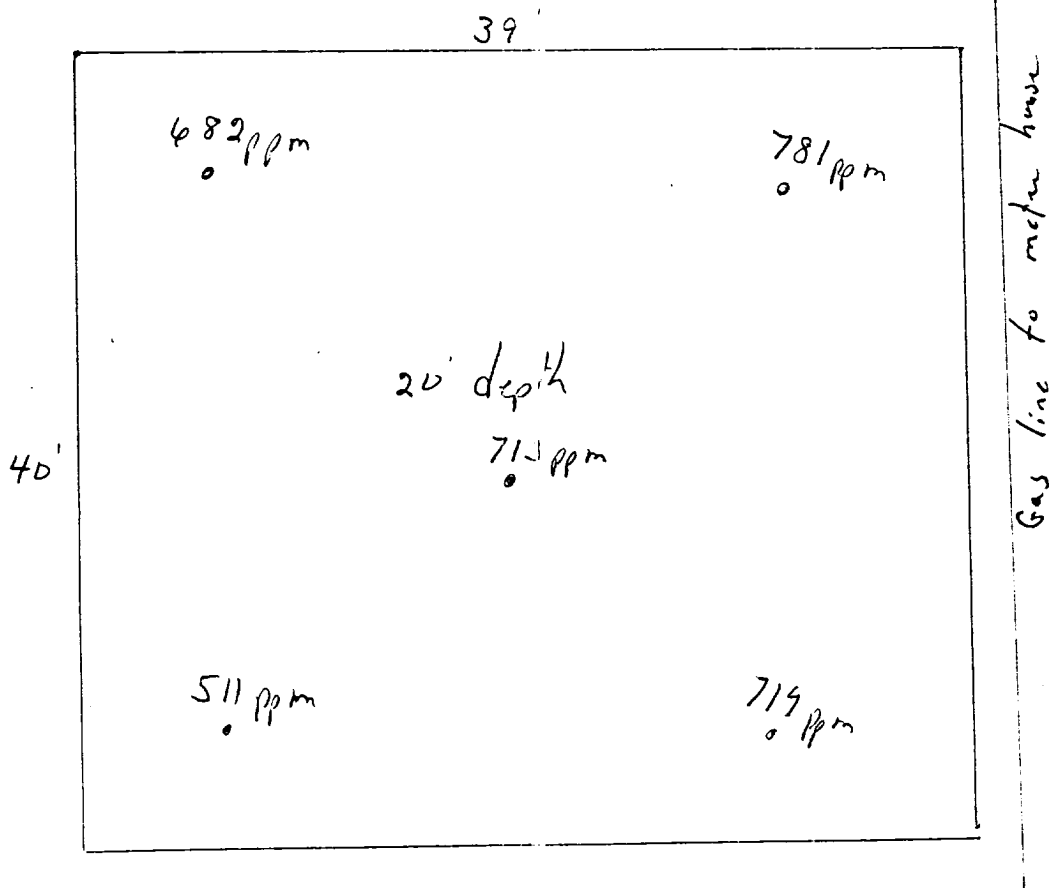
↑
N

Site drawing:



no equip present

End of excavation:



OFF: (505) 325-5667



LAB: (505) 325-1556

On Site Technologies, LTD.

Date: 13-Jul-99

CLIENT: PNM - Public Service Company of NM

Project: Summit #6

Lab Order: 9906072

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-Jul-99

Client: PNM - Public Service Company of NM
Work Order: 9906072
Lab ID: 9906072-01A **Matrix:** SOIL
Project: Summit #6

Client Sample Info: Summit #6
Client Sample ID: 9906241130; 20ft. *Spt. Comp*
Collection Date: 6/24/99 11:30:00 AM
COC Record: 7753

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
DIESEL RANGE ORGANICS		SW8015B				Analyst: DC
T/R Hydrocarbons: C10-C28	2630	25		mg/Kg	1	7/7/99
AROMATIC VOLATILES BY GC/PID		SW8021B				Analyst: DC
Benzene	7000	1000		µg/Kg	1000	6/30/99
Toluene	100000	2000		µg/Kg	1000	6/30/99
Ethylbenzene	10000	1000		µg/Kg	1000	6/30/99
m,p-Xylene	220000	2000		µg/Kg	1000	6/30/99
o-Xylene	48000	1000		µg/Kg	1000	6/30/99

385000
385 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

OFF: (505) 325-5667



LAB: (505) 325-1556

ANALYTICAL REPORT

Date: 13-Jul-99

Client:	PNM - Public Service Company of NM	Client Sample Info:	Summit #6
Work Order:	9906072	Client Sample ID:	9906241135; 15ft. <i>www</i>
Lab ID:	9906072-02A	Matrix:	SOIL
Project:	Summit #6	Collection Date:	6/24/99 11:35:00 AM
		COC Record:	7753

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
DIESEL RANGE ORGANICS		SW8015B				Analyst: DC
T/R Hydrocarbons: C10-C28	38	25		mg/Kg	1	7/7/99
AROMATIC VOLATILES BY GC/PID		SW8021B				Analyst: DM
Benzene	100	25		µg/Kg	25	7/2/99
Toluene	550	50		µg/Kg	25	7/2/99
Ethylbenzene	62	25		µg/Kg	25	7/2/99
m,p-Xylene	590	50		µg/Kg	25	7/2/99
o-Xylene	130	25		µg/Kg	25	7/2/99
<i>1432</i> <i>1.432 ppm</i>						

Qualifiers:

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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

Summit 6
Sec. 33 T29N R11W Unit G
Burlington

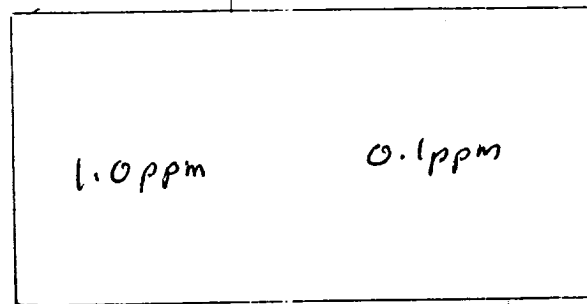
Land farm Drawing

App 1100 cu yds



90'

75'



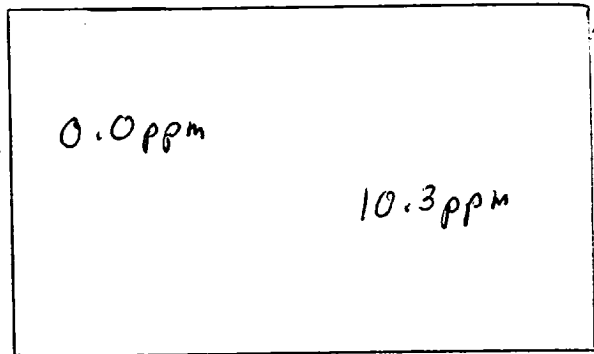
54'

1.0 ppm

0.1 ppm

45'

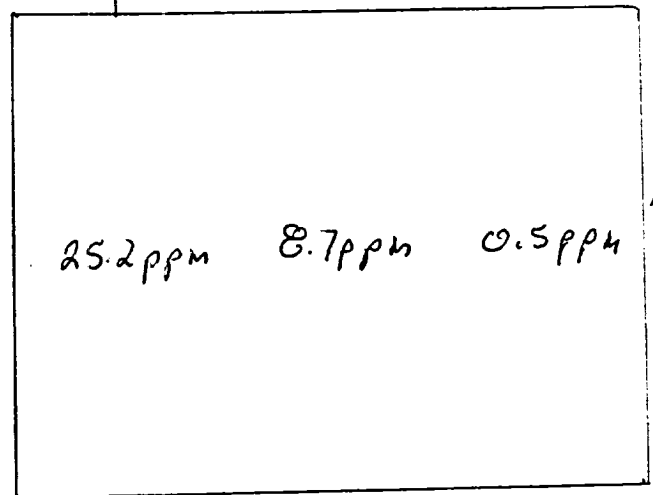
114'



0.0 ppm

10.3 ppm

120'



25.2 ppm

8.7 ppm

0.5 ppm

105'

Not to scale

2" to 12" Depth

Headspace 26.5 ppm

Sample # 9908020700

OFF: (505) 325-5667



LAB: (505) 325-1556

On Site Technologies, LTD.

Date: 11-Aug-99

CLIENT: PNM - Public Service Company of NM
Project: Eaton Federal #1 & Summit #6 LF
Lab Order: 9908004

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: 11-Aug-99

Client:	PNM - Public Service Company of NM	Client Sample Info:	Summit #6 LF
Work Order:	9908004	Client Sample ID:	9908020700; 7pt. Composite
Lab ID:	9908004-02A	Matrix:	SOIL
Project:	Eaton Federal #1 & Summit #6 LF	Collection Date:	08/02/1999 7:00:00 AM
		COC Record:	7778

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
DIESEL RANGE ORGANICS		SW8015B				Analyst: DC
T/R Hydrocarbons: C10-C28	72	25		mg/Kg	1	08/06/1999

Qualifiers:

PQL - Practical Quantitation Limit

ND - Not Detected at Practical Quantitation Limit

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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

OFF: (505) 325-5667



LAB: (505) 325-1556

On Site Technologies, LTD.

Date: 22-Sep-99

CLIENT: PNM - Public Service Company of NM

Project: PNM Pit Remediation

Lab Order: 9909014

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.

**ANALYTICAL REPORT**

Date: 22-Sep-99

Client:	PNM - Public Service Company of NM	Client Sample Info:	Summit #6 @ 42ft.
Work Order:	9909014	Client Sample ID:	9909071115; Vertical Extent
Lab ID:	9909014-03A	Matrix:	SOIL
Project:	PNM Pit Remediation	Collection Date:	9/7/99 11:15:00 AM
		COC Record:	7656

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
DIESEL RANGE ORGANICS		SW8015 B				Analyst: HR
T/R Hydrocarbons: C10-C28	ND	25		mg/Kg	1	9/16/99
AROMATIC VOLATILES BY GC/PID		SW8021 B				Analyst: DM
Benzene	ND	1		µg/Kg	1	9/15/99
Toluene	ND	2		µg/Kg	1	9/15/99
Ethylbenzene	ND	1		µg/Kg	1	9/15/99
m,p-Xylene	ND	2		µg/Kg	1	9/15/99
o-Xylene	ND	1		µg/Kg	1	9/15/99

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

RECORD OF SUBSURFACE EXPLORATION

Philip Environmental Services Corp.

4000 Monroe Road

Farmington, New Mexico 87401

(505) 326-2262 FAX (505) 326-2388

Borehole # 1

Well # 1

Page 1 of 2

Project Name PNM VERTICAL EXTENT

Project Number 62800044 Phase 0001

Project Location SUMMIT #6

Elevation 5512'

Borehole Location T29N R11W S33 E G

GWL Depth C. CULLICOTT

Logged By E. PADILLA & N. PADILLA

Drilled By 9/7/99 9:30am

Date/Time Started 9/7/99 11:46

Date/Time Completed

Well Logged By C. CULLICOTT

Personnel On-Site E. PADILLA & N. PADILLA

Contractors On-Site RAY HASTON

Client Personnel On-Site

Drilling Method AUGER

Air Monitoring Method PID

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
0			SURFACE - PAD, SAND/CLAY						
5			CUTTINGS: 5' DAMP BROWN CLAYEY SAND, CLEAN						
10			5' DAMP BROWN SILTY CLAY, CLEAN						
15	① 15' 16 1/2		15' SPLIT SPOON LIGHT BROWNISH ORANGE SILTY CLAY W/ FINE SAND SCATTERED BLACK STAIN, PATCHY. HIGH (560ppm) READING FROM PID.						4 BLOWS 560ppm in end of SS
20	② 20' 21 1/2		20' FINE SILTY SAND W/ CLAY, SANDIER IN PLACES, COLORED GRAY TO ORANGE. NO OBVIOUS STAIN, BUT STRONG ODOR.						10 BLOWS 902ppm Head S 900
25	③ 25' 26 1/2		③ TOP OF SPLIT SPOON - LOOSE, PERVASIVELY BLACK STAINED SAND BOTTOM 12" - STIFF CLAYEY SAND W/ STREAKS OF BLACK STAIN			0.0	40+		③ 50+ BLOWS 319ppm HS 100
30	④ 30' 31 1/2								④ 50+ BLOWS 930ppm HS 450
35	⑤ 35' 36 1/2								⑤ 50+ BLOWS 1016ppm HS 69
40			STIFF DRILLING TO 30' → OVER						

Comments: CLEAR, SUNNY, WARM

Geologist Signature Cathy Cullcott

RECORD OF SUBSURFACE EXPLORA V

Philip Environmental Services Corp.
4000 Monroe Road
Farmington, New Mexico 87401
(505) 328-2282 FAX (505) 328-2388

Borehole # 1
Well #
Page 2 of 2

Project Name PNM VERTICAL EXTENT
Project Number 628 00044 Phase 6001
Project Location SUMMIT #6

Elevation 5512'
Borehole Location T28 N R11 W S33 G
GWL Depth
Logged By C. CULLICOTT
Drilled By R. PADILLA & D. PADILLA
Date/Time Started 9/7/99 9:30am
Date/Time Completed 9/7/99 11:40

Well Logged By C. CULLICOTT
Personnel On-Site R. PADILLA & D. PADILLA
Contractors On-Site
Client Personnel On-Site RAY HASTON
Drilling Method AUGER
Air Monitoring Method P.D

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	⑥ 40-41 1/2		BLUEISH GRAY, POORLY SORTED STIFF SAND w/WHITE MATRIX. "HARD DRILLING" NO OBVIOUS STAINING						50+ BLOWS 980ppm HS 110
45	⑦ 42-43 1/2		AUGER REFUSAL @ 42' DROVE SPLIT SPOON TO LAS 43 1/2' FOR SAMPLE 1115 SAMPLE IS SAME AS #6 TD 42' AUGER REFUSAL AT ~ SANDSTONE						50+ BLOWS 880ppm HS 178
10									
15									
20									
25									
30									
35									
40									

Comments: HOLE BACK FILLED WITH CUTTINGS

Geologist Signature Cathy Cullcott

Summit #6 Vertical Extent

30' STIFF SAND ^{small fines} POORLY SORTED. TAN ^{w/ WHITE MATRIX THAT IS} OXIDIZED
IN PLACES. NO VISIBLE STAINING

35' STIFF, POORLY SORTED SAND w/ SMALL FINE
FINES. NO OBVIOUS STAINING. BOTTOM
1' OF SPLIT SPOON SAND IS GRAY. UPPER
FEW INCHES SAND IS ORANGE & LOOSER