

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

PIT REMEDIATION AND CLOSURE REPORT

RECEIVED
NOV - 1 1999
OIL CON. DIV.
DIST. 3

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

Address: 603 W. Elm Street Farmington, NM 87401

Facility or Well Name: Horton #1

Location: Unit P Sec 7 T 31 N R 11 W County San Juan

Pit Type: Separator ☐ Dehydrator ☒ Other Line drip

Land Type: BLM ☒ State ☐ Fee ☐ Other

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

(Attach diagram) Reference: wellhead ☒ other

Footage from reference: 64 '

Direction from reference: due 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)	<u>0</u>
	50 feet to 99 feet	(10 points)	
	Greater than 100 feet	(0 points)	

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)	<u>0</u>
	No	(0 points)	

Distance to Surface Water: (Horizontal distance to perennial lakes, ponds, rivers, streams, creeks, irrigation canals and ditches)	Less than 200 feet	(20 points)	<u>0</u>
	200 feet to 1,000 feet	(10 points)	
	Greater than 1,000 feet	(0 points)	

RANKING SCORE (TOTAL POINTS): 0

Horton #1

Date Remediation Started: 05/20/1999

Date Completed: 05/24/1999

Remediation Method:

Excavation

☒

Approx. Cubic Yard

700

(Check all appropriate sections)

Landfarmed

☒

Amount Landfarmed (cubic yds)

540

Other

160 cu yds 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 36' X 35' X 15' 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.

Ground Water Encountered:

No

☒

Yes

☐

Depth

Final Pit Closure Sampling:

Sample Location

Bottom of excavation.

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

Sample depth

15'

Sample date

05/24/1999

Sample time

9:00:00 AM

Sample Results

Benzene (ppm)

0.024

Total BTEX (ppm)

0.2504

Field headspace (ppm)

TPH (ppm)

< 25.00

Method

8015B

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 October 28, 1999

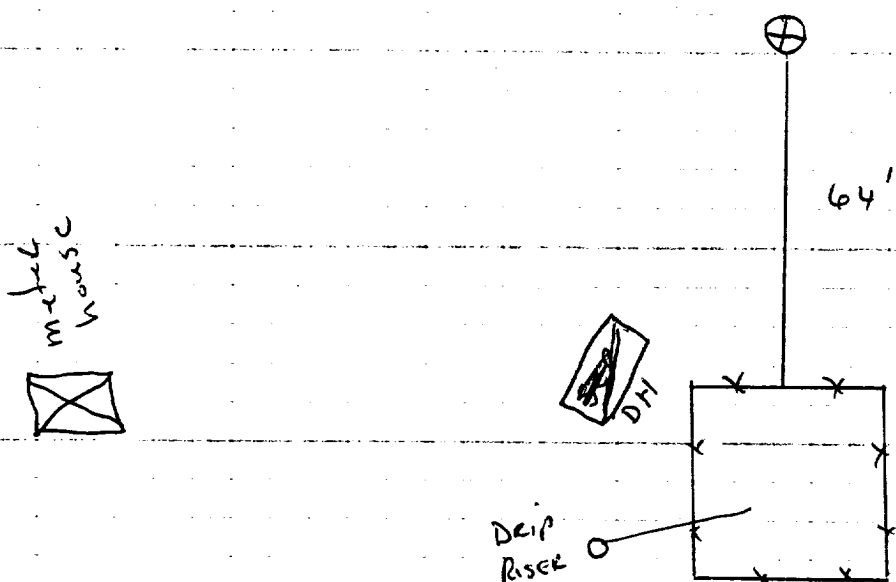
SIGNATURE

Maureen Gannon

PRINTED NAME Maureen Gannon
AND TITLE Project Manager

Horton 1
Sec-7 T-31N R-11W UCM
Burlington

Site Drawing



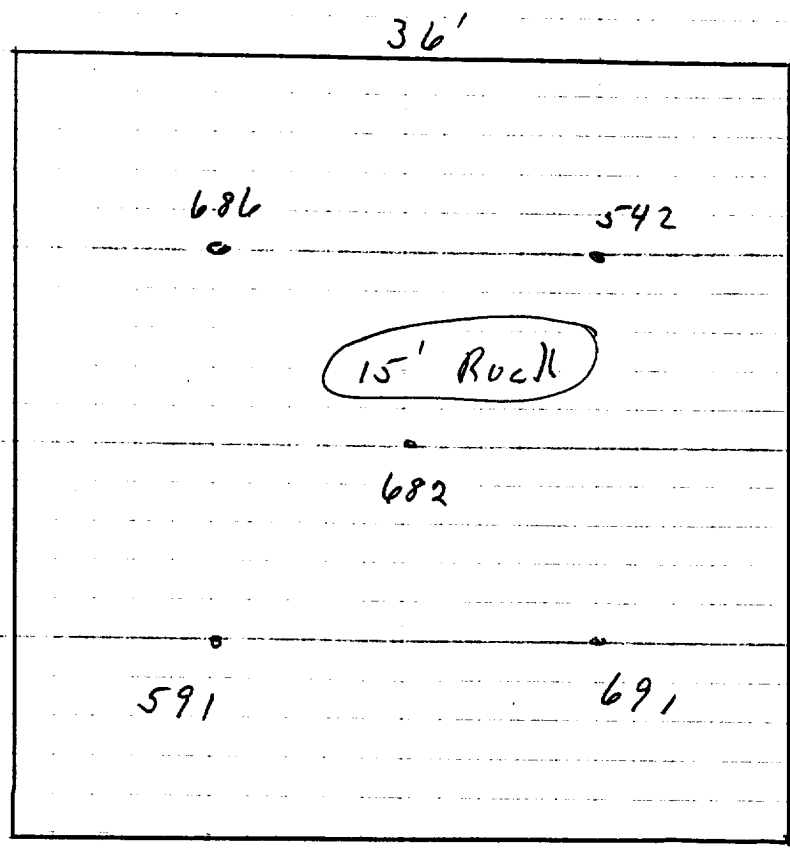
Horton #1
Sec-7 T-31N R-11W ULM
Burlington

Excavation Drawing

North wall
Sample

West wall
Sample

EAST wall
Sample



Bottom Sample

South wall
Sample

OFF: (505) 325-5667



LAB: (505) 325-1556

On Site Technologies, LTD.

Date: 08-Jun-99

CLIENT: PNM - Public Service Company of NM
Project: PNM Pit Remediation
Lab Order: 9905082

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



Gary

LAB: (505) 325-1556

ANALYTICAL REPORT

Date: 08-Jun-99

Client:	PNM - Public Service Company of NM	Client Sample Info:	Horton #1
Work Order:	9905082	Client Sample ID:	9905240900; Bottom @ 15ft.
Lab ID:	9905082-01A	Matrix:	SOIL
Project:	PNM Pit Remediation	Collection Date:	5/24/99 9:00:00 AM
		COC Record:	7598

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
DIESEL RANGE ORGANICS		SW8015B				Analyst: DC
T/R Hydrocarbons: C10-C28	ND	25		mg/Kg	1	6/1/99
AROMATIC VOLATILES BY GC/PID		SW8021B				Analyst: DM
Benzene	24	2		µg/Kg	2	5/28/99
Toluene	8.1	4		µg/Kg	2	5/28/99
Ethylbenzene	20	2		µg/Kg	2	5/28/99
m,p-Xylene	190	4		µg/Kg	2	5/28/99
o-Xylene	8.3	2		µg/Kg	2	5/28/99

250.4
• 2504 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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1 of 1

- TECHNOLOGY BLENDING INDUSTRY WITH THE ENVIRONMENT -

OFF: (505) 325-5667



LAB: (505) 325-1556

ANALYTICAL REPORT

Date: 08-Jun-99

Client:	PNM - Public Service Company of NM	Client Sample Info:	Horton #1
Work Order:	9905082	Client Sample ID:	9905240905; Walls @ 11 ft.
Lab ID:	9905082-02A	Matrix:	SOIL
Project:	PNM Pit Remediation	Collection Date:	5/24/99 9:05:00 AM
		COC Record:	7598

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
DIESEL RANGE ORGANICS						
T/R Hydrocarbons: C10-C28	ND	25		mg/Kg	1	Analyst: DC 6/1/99
AROMATIC VOLATILES BY GC/PID						
		SW8021B				Analyst: DM
Benzene	1.6	1		µg/Kg	1	5/27/99
Toluene	ND	2		µg/Kg	1	5/27/99
Ethylbenzene	1.4	1		µg/Kg	1	5/27/99
m,p-Xylene	19	2		µg/Kg	1	5/27/99
o-Xylene	1.5	1		µg/Kg	1	5/27/99

23.5
0.0235 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

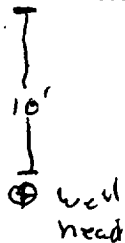
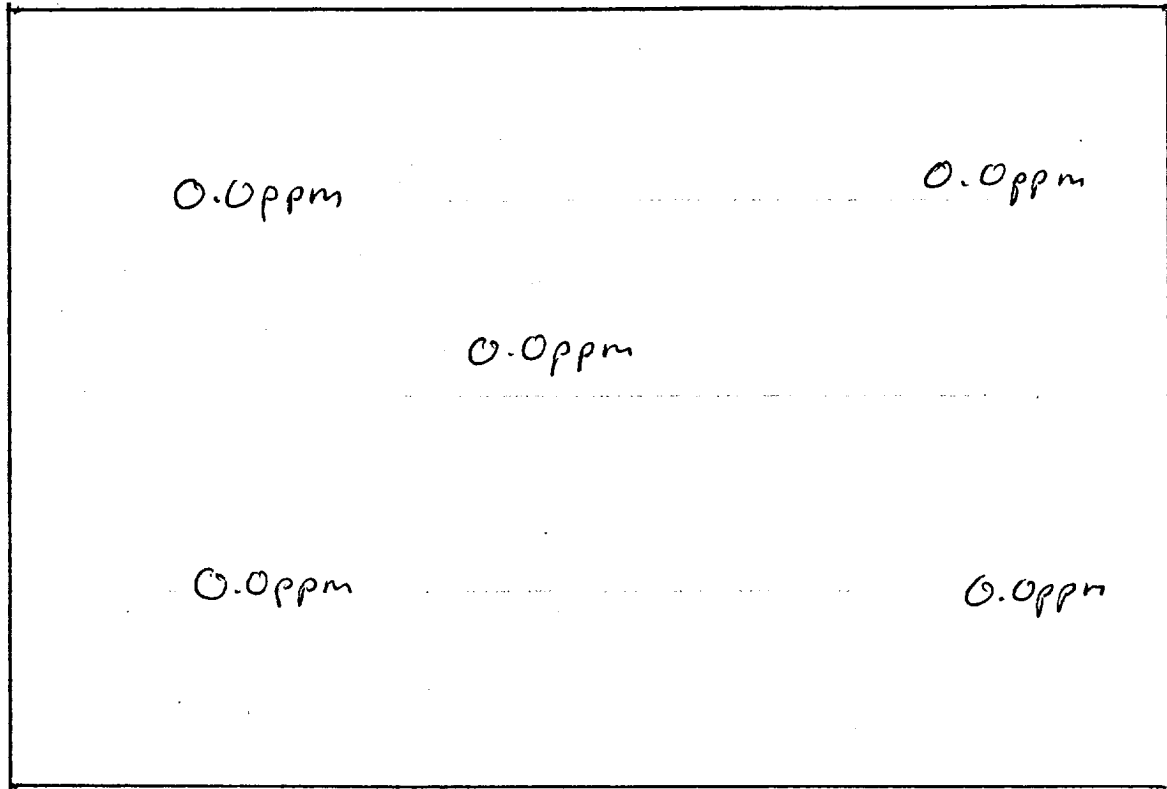
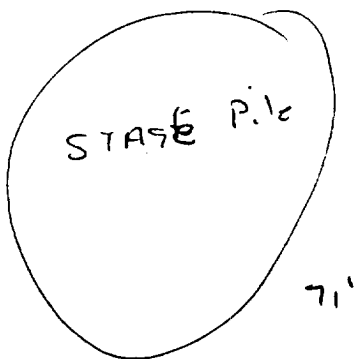
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1 of 1

Horton - 1
Sec - 7 T-31 R-114 - 44 - 11
Burlington

Landform Drawing # 1 240
App ~~540~~ cu. yds.

146'



2" to 12" Depth
Headspace 1.6
Sample # 9906211335

Not to Scale

OFF: (505) 325-5667



LAB: (505) 325-1556

On Site Technologies, LTD.

Date: 07-Jul-99

CLIENT: PNM - Public Service Company of NM
Project: Grenier 3A, 17E, 4 Sep, 10, & Horton 1 LF
Lab Order: 9906068

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.

Ron

OFF: (505) 325-5667



LAB: (505) 325-1556

ANALYTICAL REPORT

Date: 07-Jul-99

Client:	PNM - Public Service Company of NM	Client Sample Info:	Horton 1 LF
Work Order:	9906068	Client Sample ID:	9906211335; 5pt Comp
Lab ID:	9906068-05A	Matrix:	SOIL
Project:	Grenier 3A, 17E, 4 Sep, 10, & Horton 1 LF	Collection Date:	6/21/99 1:35:00 PM
		COC Record:	7487

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
DIESEL RANGE ORGANICS		SW8015B				Analyst: DC
T/R Hydrocarbons: C10-C28	ND	25		mg/Kg	1	7/2/99

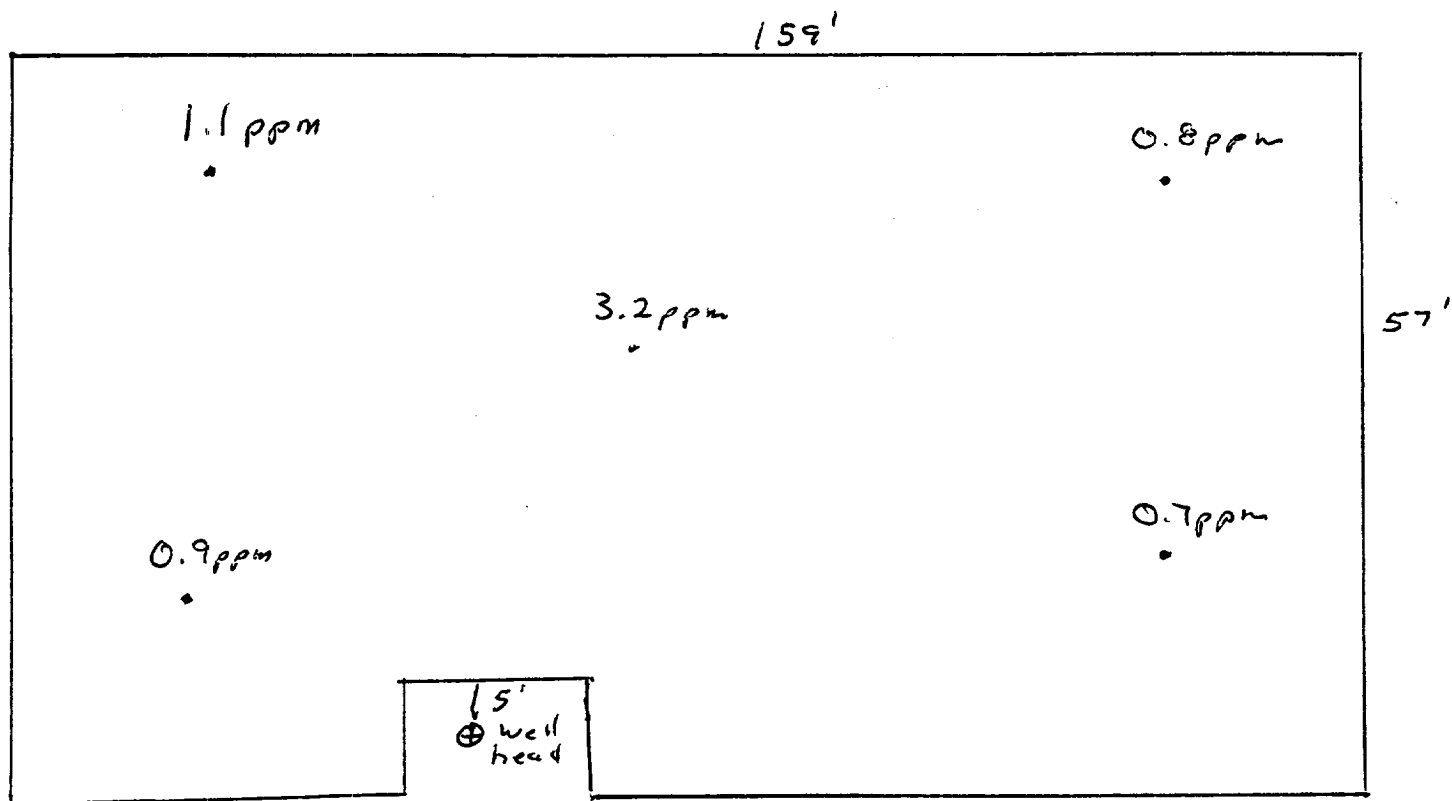
Qualifiers:

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

HORTON
Sec-35 T-32N R-11W UL M
Kim bark

Landfarm #2 Drawing

App 200 cu yds



2" to 12" Depth
Headspace 26.1 ppm
Sample # 9908241037

Not to Scale

OFF: (505) 325-5667



LAB: (505) 325-1556

On Site Technologies, LTD.

Date: 01-Sep-99

CLIENT: PNM - Public Service Company of NM
Project: McCord 4E & Horton 1 LF
Lab Order: 9908053

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: 01-Sep-99

Client:	PNM - Public Service Company of NM	Client Sample Info:	Horton #1 LF
Work Order:	9908053	Client Sample ID:	9908241037; 5pt Composite
Lab ID:	9908053-02A	Matrix:	SOIL
Project:	McCord 4E & Horton 1 LF	Collection Date:	08/24/1999 10:37:00 AM
		COC Record:	7806

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

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

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Printed: 09/01/1999 10:37:00 AM BY: JIM HARRIS (JHARRIS)