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

DEPUTY OIL & GAS INSPECTOR

DEC 16 1998

PIT REMEDIATION AND CLOSURE REPORT

RECEIVED
JUL 31 1998
OIL CON. DIV.
DIST. 3

Operator: PNM Gas Services (Cross Timbers) **Telephone:** 324-3764

Address: 603 W. Elm Street Farmington, NM 87401

Facility or Well Name: EH Pipken #10

Location: Unit E Sec 1 T 27N R 11W County San Juan

Pit Type: Separator ☑ Dehydrator ☐ Other

Land Type: BLM ☑ State ☐ Fee ☐ Other

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

(Attach diagram) Reference: wellhead ☑ other

Footage from reference: 290'

Direction from reference: 20 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 50 feet to 99 feet Greater than 100 feet	(20 points) (10 points) (0 points)	0
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 No	(20 points) (0 points)	0
Distance to Surface Water: (Horizontal distance to perennial lakes, ponds, rivers, streams, creeks, irrigation canals and ditches	Less than 200 feet 200 feet to 1,000 feet Greater than 1,000 feet	(20 points) (10 points) (0 points)	0
	RANKING SCORE (TOTAL POINTS) :		0

EH Pipken #10

Date Remediation Started: 4/30/98 **Date Completed:** 4/30/98

Remediation Method: (Check all appropriate sections)
Excavation X Approx. Cubic Yard 27
Landfarmed X Amount Landfarmed (cubic yds) 27
Other

Remediation Location: (i.e., landfarmed onsite, name and location of offsite facility)
Onsite X Offsite

Backfill Material Location:

General Description of Remedial Action:

Excavated contaminated soil to pit size of 12' X 12' X 5' 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.

*** Sandstone encountered at 5'. See attached risk analysis and lab analysis form.

Ground Water Encountered: No ✓ Yes Depth

Final Pit Closure Sampling: (if multiple samples, attach sample result and diagram of sample locations and depths.)

Sample Location Bottom of excavation.

Sample depth 5'

Sample date 4/30/98 Sample time 8:30:00 AM

Sample Results

Benzene (ppm) 7.0000

Total BTEX (ppm) *** 166.0000

Field headspace (ppm)

TPH (ppm) 2100.00 Method 8015

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**

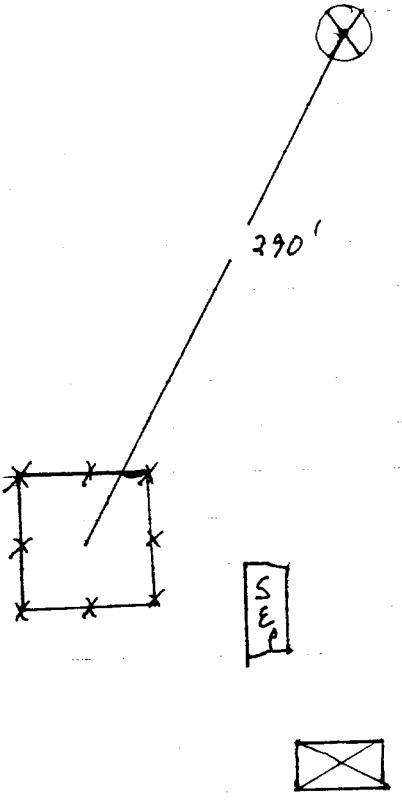
SIGNATURE Gary Cook

PRINTED NAME AND TITLE **Gary Cook, Environmental Technician III**

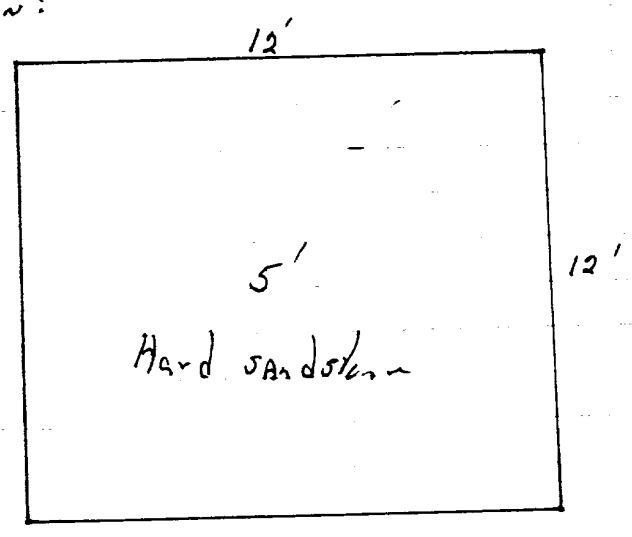
E.H. Pipkin #10
Cross Timbers
Sec. 1, 27N, 11W, E

4/29/98

start of excavation:



End of excavation:



OFF: (505) 325-5667

ON SITE
TECHNOLOGIES, LTD.

LAB: (505) 325-1556

On Site Technologies, LTD.

Date: *15-May-98*

CLIENT: PNM - Public Service Company of NM
Project: E.H Pipken #10
Lab Order: 9805001

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.

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OFF: (505) 325-5667

ON SITE TECHNOLOGIES, LTD.

LAB: (505) 325-1556

ANALYTICAL REPORT

Date: *15-May-98*

Client:	PNM - Public Service Company of NM	**Client Sample Info:**	E.H Pipken #10
Work Order:	9805001	**Client Sample ID:**	9804300830; Bottom @ 5ft.
Lab ID:	9805001-01A **Matrix:** SOIL	**Collection Date:**	4/30/98 8:30:00 AM
Project:	E.H Pipken #10	**COC Record:**	7125

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
DIESEL RANGE ORGANICS		**SW8015**				Analyst: **HR**
T/R Hydrocarbons: C10-C28	2100	25		mg/Kg	1	5/11/98
BTEX		**SW8020A**				Analyst: **DC**
Benzene	7000	1000		µg/Kg	1000	5/6/98
Toluene	52000	2000		µg/Kg	1000	5/6/98
Ethylbenzene	11000	1000		µg/Kg	1000	5/6/98
m,p-Xylene	77000	2000		µg/Kg	1000	5/6/98
o-Xylene	19000	1000		µg/Kg	1000	5/6/98

166000
166.00 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

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OFF: (505) 325-5667

ON SITE TECHNOLOGIES, LTD.

LAB: (505) 325-1556

ANALYTICAL REPORT

Date: *15-May-98*

Client:	PNM - Public Service Company of NM	**Client Sample Info:**	E.H Pipken #10
Work Order:	9805001	**Client Sample ID:**	9804300835; Walls @ 2ft.
Lab ID:	9805001-02A **Matrix:** SOIL	**Collection Date:**	4/30/98 8:35:00 AM
Project:	E.H Pipken #10	**COC Record:**	7125

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
DIESEL RANGE ORGANICS		**SW8015**				Analyst: **HR**
T/R Hydrocarbons: C10-C28	1400	25		mg/Kg	1	5/11/98
BTEX		**SW8020A**				Analyst: **DC**
Benzene	ND	1		µg/Kg	1	5/6/98
Toluene	4.2	2		µg/Kg	1	5/6/98
Ethylbenzene	1.7	1		µg/Kg	1	5/6/98
m,p-Xylene	18	2		µg/Kg	1	5/6/98
o-Xylene	9.2	1		µg/Kg	1	5/6/98

33.1
.0331 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

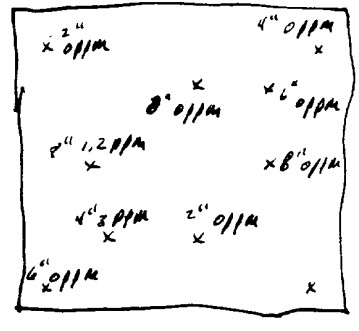
E - Value above quantitation range

Surr: - Surrogate

P.O. BOX 2606 • FARMINGTON, NM 87499

E.H. Pipkew #10
(E) 1-27N-11W
Cross Timbers
San Juan County
Lab Sample # 9806040900
Field Head Space 17ppm

N



2" - 8"

OFF: (505) 325-5667

ON SITE
TECHNOLOGIES, LTD.

LAB: (505) 325-1556

On Site Technologies, LTD.

Date: *08-Jun-98*

CLIENT: PNM - Public Service Company of NM
Project: Landfarm Composites
Lab Order: 9806013

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.

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TECHNOLOGIES, LTD.

LAB: (505) 325-1556

ANALYTICAL REPORT

Date: *08-Jun-98*

Client:	PNM - Public Service Company of NM	**Client Sample Info:**	Pipken 10
Work Order:	9806013	**Client Sample ID:**	9806040900: Landfarm
Lab ID:	9806013-03A **Matrix:** SOIL	**Collection Date:**	6/4/98 9:00:00 AM
Project:	Landfarm Composites	**COC Record:**	5224

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
DIESEL RANGE ORGANICS		**SW8015**				Analyst: **HR**
T/R Hydrocarbons: C10-C28	370	25		mg/Kg	1	6/5/98

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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PNM®

Environmental Services

Well Name:	EH Pipken #10
Well Legals:	Unit E, Sec 1, T27N, R11W
Pit Type:	Separator
Horizontal Distance to Surface Water:	Less than 200 feet
Groundwater Depth:	Greater than 100 feet

RISK ANALYSIS

PNM requests closure of their former pit on the EH Pipken #10 well site using a limited risk analysis based on the following conditions:

1. Groundwater is estimated to be at a depth of 110 feet based upon the elevation of the site and the elevation of the nearest "listed" or "named" wash (Kutz Wash Canyon). (Reference: topographic map.)

2. PNM excavated 27 cubic yards of soil from the former pit. Subsurface lateral contamination has been remediated (see attached analytical results). Source removal minimizes the possibility of surface water contamination.

3. Sandstone was encountered at 5 feet below ground surface. Bedrock/sandstone provides a barrier between remaining contamination and groundwater. Vertical migration through bedrock or sandstone to groundwater is unlikely.

4. PNM excavated and performed remediation to the maximum depth and horizontal extent practicable.

PNM believes their former pit on the EH Pipken #10 well site poses minimal threat to groundwater, human health and the environment based upon our past experience in excavating over 800 pits.