Risk
bedrock

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

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

Address: 603 W. Elm Street Farmington, NM 87401

Facility or Well Name: Payne #4 True Grit #1

Location: Unit P Sec 35 T 31 N R 13 W County San Juan

Pit Type: Separator ☐ Dehydrator ☑ Other

Land Type: BLM ☑ State ☐ Fee ☐ Other

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

(Attach diagram) Reference: wellhead ☑ other

Footage from reference: 350'

Direction from reference: 45 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

RECEIVED
JAN 1
OIL CON. DIV.
DIST. 3

Payne #4

Date Remediation Started: 04/19/1999 **Date Completed:** 04/19/1999

Remediation Method: (Check all appropriate sections)
Excavation X Approx. Cubic Yard 60
Landfarmed X Amount Landfarmed (cubic yds) 60
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 a pit size of 18' X 18' X 5' 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.

*** Sandstone encountered at 5'. See attached risk 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: 5 pt. composite - bottom.
Sample depth: 5'
Sample date: 04/19/1999 Sample time: 11:23:00 AM

Sample Results

Benzene (ppm): 1.4
Total BTEX (ppm): 249.4 ***
Field headspace (ppm):
TPH (ppm): 2300.00 Method: 8015B

Vertical Extent (ft): Risk Analysis form attached Yes ☑ No ☐

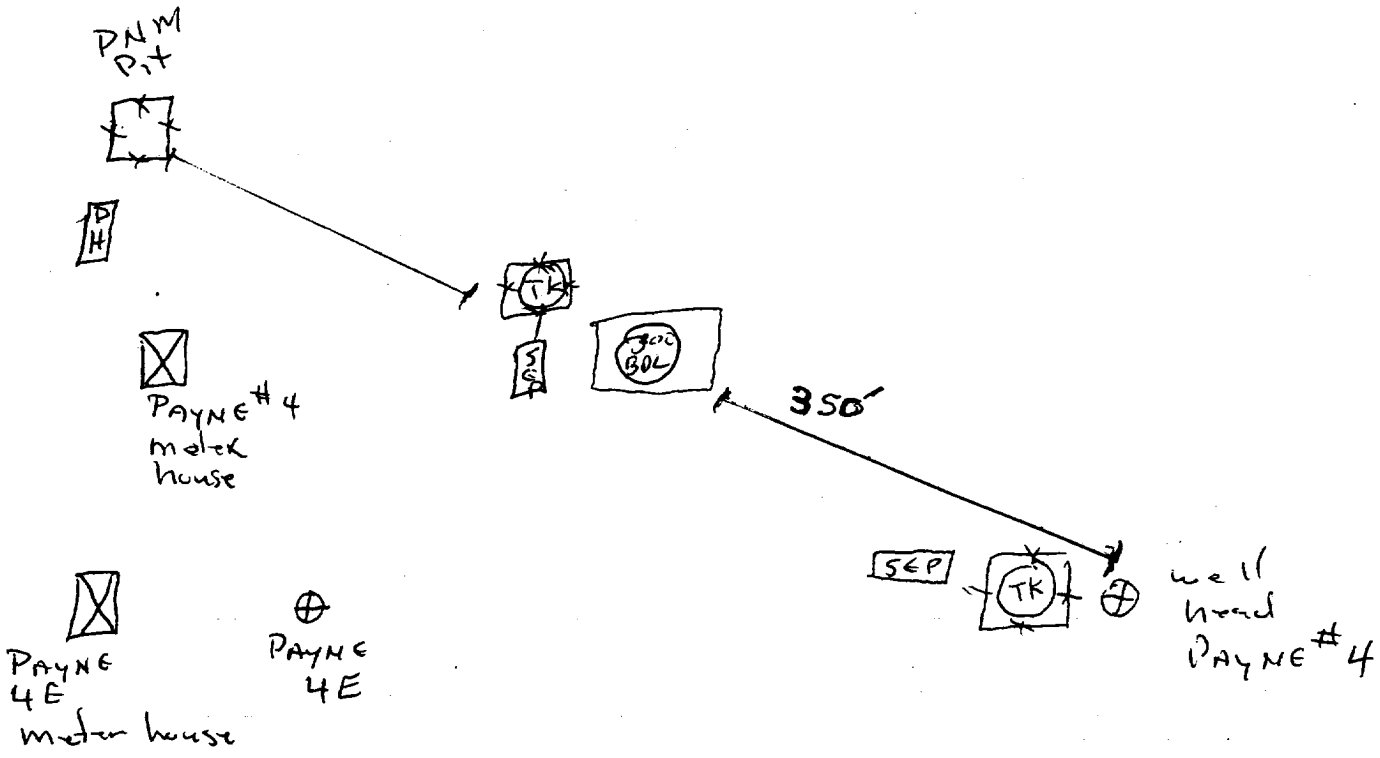
Ground Water Sample: Yes ☐ No ☑ (If yes, see attached Groundwater Site Summary Report)

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

DATE **January 24, 2000**
SIGNATURE Maureen Gannon
PRINTED NAME AND TITLE **Maureen Gannon, Project Manager**

Greystone energy
Sec-35 T-31N R-13W

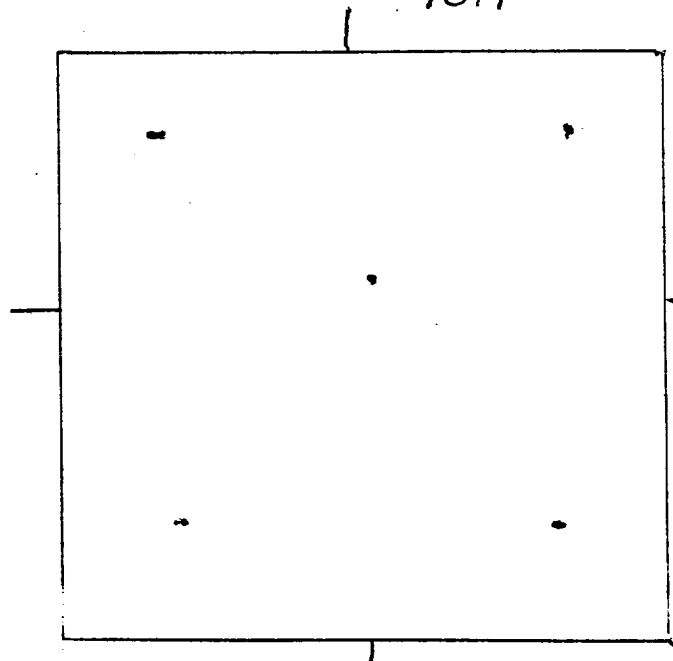
Site Drawing



Not to scale

18'x18'x5'
60 cu yds

Excavation Drawing



OFF: (505) 325-5667

ON SITE TECHNOLOGIES, LTD.

LAB: (505) 325-1556

On Site Technologies, LTD.

Date: *29-Apr-99*

CLIENT: PNM - Public Service Company of NM
Project: Payne #4
Lab Order: 9904041

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: *29-Apr-99*

Client:	PNM - Public Service Company of NM	**Client Sample Info:**	Payne #4
Work Order:	9904041	**Client Sample ID:**	9904191123; 5pt Comp Bottom
Lab ID:	9904041-02A **Matrix:** SOIL	**Collection Date:**	4/19/99 11:23:00 AM
Project:	Payne #4	**COC Record:**	7499

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
DIESEL RANGE ORGANICS		**SW8015B**				Analyst: **DC**
T/R Hydrocarbons: C10-C28	2300	25		mg/Kg	1	4/27/99
AROMATIC VOLATILES BY GC/PID		**SW8021B**				Analyst: **HR**
Benzene	1400	1000		µg/Kg	1000	4/22/99
Toluene	6000	5000		µg/Kg	2500	4/21/99
Ethylbenzene	20000	2500		µg/Kg	2500	4/21/99
m,p-Xylene	180000	5000		µg/Kg	2500	4/21/99
o-Xylene	42000	2500		µg/Kg	2500	4/21/99

249400
249.4 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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KO

OFF: (505) 325-5667

ON SITE TECHNOLOGIES, LTD.

LAB: (505) 325-1556

ANALYTICAL REPORT

Date: *29-Apr-99*

Client:	PNM - Public Service Company of NM	**Client Sample Info:**	Payne #4
Work Order:	9904041	**Client Sample ID:**	9904191118; 4pt Comp Walls
Lab ID:	9904041-01A **Matrix:** SOIL	**Collection Date:**	4/19/99 11:18:00 AM
Project:	Payne #4	**COC Record:**	7499

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
DIESEL RANGE ORGANICS		**SW8015B**				Analyst: **DC**
T/R Hydrocarbons: C10-C28	570	25		mg/Kg	1	4/21/99

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

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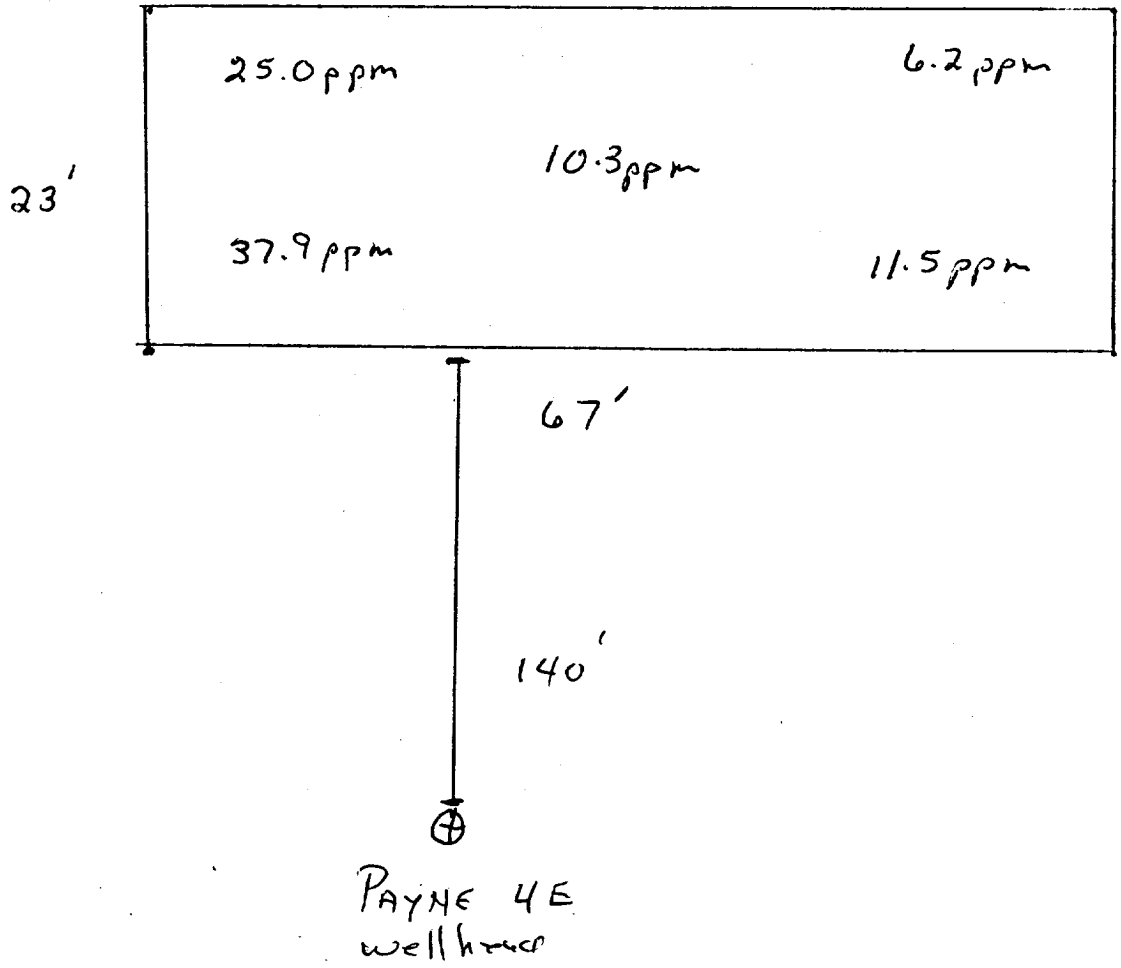
PAYNE
Greystone
Sec - 35 T-31N R-13W - UL-P

LANDFARM DRAWING

App Cu.yds

LANDFARM of shared
LOCATION PAYNE 4E and PAYNE #
Sec-35 T-31N R-13W UL-



2" - 12" depth
Headspace Reading - 47.9ppm
Sample # 990715 1112

Not to Scale

OFF: (505) 325-5667

ON SITE TECHNOLOGIES, LTD.

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.

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OFF: (505) 325-5667

ON SITE TECHNOLOGIES, LTD.

LAB: (505) 325-1556

ANALYTICAL REPORT

Date: *30-Jul-99*

Client:	PNM - Public Service Company of NM	**Client Sample Info:**	Payne #4 LF
Work Order:	9907038	**Client Sample ID:**	9907151112; 5pt Comp
Lab ID:	9907038-03A **Matrix:** SOIL	**Collection Date:**	7/15/99 11:12:00 AM
Project:	Jackson 2E, Newman 1E & Payne 4 LF	**COC Record:**	7736

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
DIESEL RANGE ORGANICS		**SW8015B**				Analyst: **DC**
T/R Hydrocarbons: C10-C28	570	25		mg/Kg	1	7/29/99

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

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PNM®

Environmental Services

Well Name:	Payne #4
Well Legals:	Unit P, Sec 35, T31N, R13W
Pit Type:	Dehydrator
Horizontal Distance to Surface Water:	Greater than 1,000 feet
Groundwater Depth:	Greater than 100 feet

RISK ANALYSIS

PNM requests closure of their former pit on the Payne #4 well site using a limited risk analysis based on the following conditions:

1. Groundwater is estimated to be at a depth of 105 feet based upon the elevation of the site and the elevation of the nearest "listed" or "named" wash. (Reference: Farmington North, NM series 7.5 minute topographic map.)

2. PNM excavated 60 cubic yards of soil from the former pit. Subsurface lateral contamination has been remediated (see attached map and analytical results for the side wall profiles). 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 Payne #4 well site poses minimal threat to groundwater, human health and the environment based upon our past experience in excavating over 1,000 pits.