

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
APR 29 1999
OIL CON. DIV.
DIST. 3

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

Address: 603 W. Elm Street Farmington, NM 87401

Facility or Well Name: McCroden B #3

Location: Unit K Sec 4 T 25N R 3W County Rio Arriba

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: 135'

Direction from reference: 50 Degrees ☐ East ☒ North
of ☒ 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)	<u>0</u>

(Vertical distance from contaminants to
seasonal high water elevation of ground
water)

Wellhead Protection Area:	Yes	(20 points)	
	No	(0 points)	<u>0</u>

(Less than 200 feet from a private
domestic water source, or; less than 1,000
feet from all other water sources)

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)	<u>0</u>

(Horizontal distance to perennial lakes,
ponds, rivers, streams, creeks, irrigation
canals and ditches)

RANKING SCORE (TOTAL POINTS): 0

McCroden B #3

Date Remediation Started: 1/26/99 Date Completed: 1/26/99

Remediation Method: Excavation X Approx. Cubic Yard 208

(Check all appropriate sections)

Landfarmed X Amount Landfarmed (cubic yds) 208

Other _____

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 22' X 17' 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 1/26/99 Sample time 9:45:00 AM

Sample Results

Benzene (ppm) 0.0015

Total BTEX (ppm) 0.6035

Field headspace (ppm) _____

TPH (ppm) < 25.00 Method 8015A

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 April 27, 1999

SIGNATURE Maureen Gannon

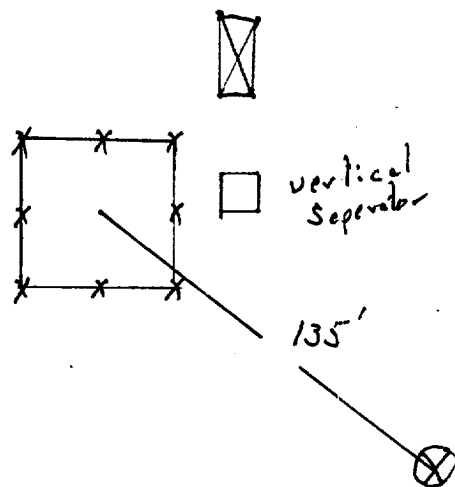
PRINTED NAME **Maureen Gannon**
AND TITLE **Project Manager**

McCruden B # 3
Energen
Sec 4, 25N, 3W, K

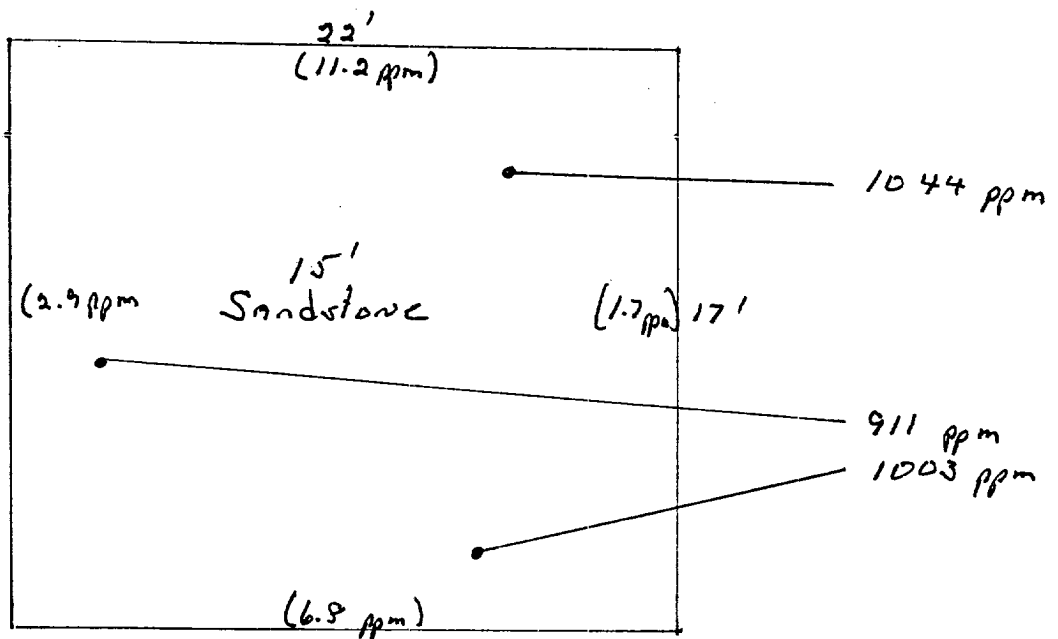
1/26/99



site drawing:



End of excavation:



not to scale

**On Site Technologies, LTD.**

Date: 22-Feb-99

CLIENT: PNM - Public Service Company of NM
Project: McCroden B#3
Lab Order: 9901026

CASE NARRATIVE

Analytical Comments for METHOD BTEX_S, SAMPLE 9901026-01A, McCroden B#3 Bottom @ 15ft.: The reported results for m,p-Xylene and o-Xylene have an attached Qualifier (E), Value above Upper Quantitation Limit. Upon duplicate re-analyses it was observed the sample had lower amounts of volatile compounds, compared to original analysis. The loss of volatile compounds is suspect to sample analysis preparation and/or biological degradation, and therefore the original analysis is to be reported. 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: 22-Feb-99

Client:	PNM - Public Service Company of NM	Client Sample Info:	McCroden B#3
Work Order:	9901026	Client Sample ID:	9901260945; Bottom @ 15ft.
Lab ID:	9901026-01A	Matrix:	SOIL
Project:	McCroden B#3	Collection Date:	1/26/99 9:45:00 AM
		COC Record:	7469

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
DIESEL RANGE ORGANICS		SW8015				Analyst: HR
T/R Hydrocarbons: C10-C28	ND	25		mg/Kg	1	2/18/99
BTEX		SW8021B				Analyst: HR
Benzene	1.5	1		µg/Kg	1	1/29/99
Toluene	55	2		µg/Kg	1	1/29/99
Ethylbenzene	7	1		µg/Kg	1	1/29/99
m,p-Xylene	320	2	E	µg/Kg	1	1/29/99
o-Xylene	220	1	E	µg/Kg	1	1/29/99

603.5
6035 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

Surrogate - Surrogate

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1 of 1

OFF: (505) 325-5667



LAB: (505) 325-1556

ANALYTICAL REPORT

Date: 22-Feb-99

Client:	PNM - Public Service Company of NM	Client Sample Info:	McCroden B#3
Work Order:	9901026	Client Sample ID:	9901260950; Walls @ 10ft.
Lab ID:	9901026-02A	Matrix:	SOIL
Project:	McCroden B#3	Collection Date:	1/26/99 9:50:00 AM
		COC Record:	7469

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
DIESEL RANGE ORGANICS		SW8015				Analyst: HR
T/R Hydrocarbons: C10-C28	ND	25		mg/Kg	1	2/18/99
BTEX		SW8021B				Analyst: HR
Benzene	ND	1		µg/Kg	1	1/29/99
Toluene	ND	2		µg/Kg	1	1/29/99
Ethylbenzene	ND	1		µg/Kg	1	1/29/99
m,p-Xylene	ND	2		µg/Kg	1	1/29/99
o-Xylene	1.9	1		µg/Kg	1	1/29/99

Qualifiers:

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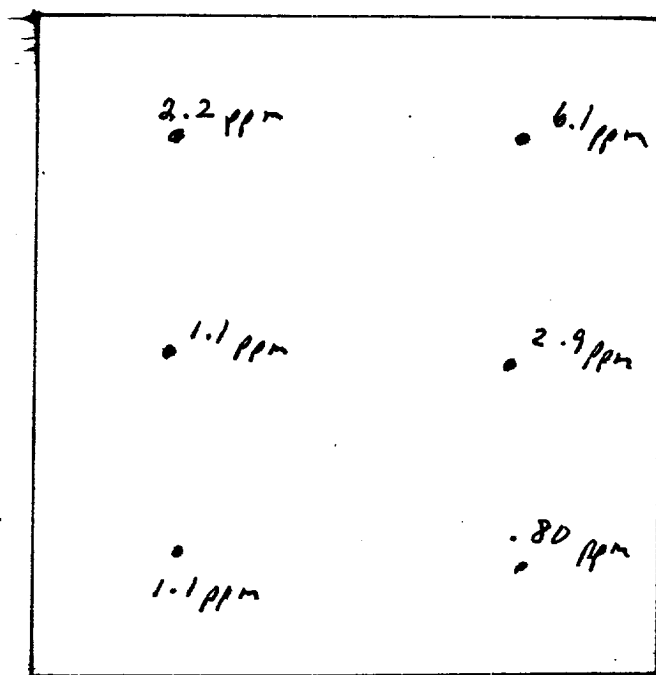
- Technology that works with the environment -

McCraden B#3
Energy Resources
Sec. 7, 25N, 3W

3-24-99

↑
N

Landfarm: On location
approximately 208 yards



⊗ well head

2"-12" depth

Sample # 990324 1015

soil vapor headspace reading = 17.8 ppm

not to scale

OFF: (505) 325-5667



LAB: (505) 325-1556

On Site Technologies, LTD.

Date: 29-Mar-99

CLIENT: PNM - Public Service Company of NM

Project: Landfarms

Lab Order: 9903054

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: 29-Mar-99

Client:	PNM - Public Service Company of NM	Client Sample Info:	McCroden B#3
Work Order:	9903054	Client Sample ID:	9903241015
Lab ID:	9903054-06A	Matrix:	SOIL
Project:	Landfarms	Collection Date:	3/24/99 10:15:00 AM
		COC Record:	7552

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
DIESEL RANGE ORGANICS		SW8015				Analyst: DC
T/R Hydrocarbons: C10-C28	30	25		mg/Kg	1	3/25/99

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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- TECHNOLOGY BLENDING INDUSTRY WITH THE ENVIRONMENT -

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