

Box 1989, Hobbs, NM
DEPUTY OIL & GAS INSPECTOR

State of New Mexico
Energy, Minerals and Natural Resources Department

SUBMIT 1 COPY TO
APPROPRIATE
DISTRICT OFFICE
AND 1 COPY TO
SANTA FE OFFICE

Box 1989, Hobbs, NM 88221
FEB 08 1999

OIL CONSERVATION DIVISION

2040 South Pacheco Street
Santa Fe, New Mexico 87505

0 Rio Brazos Rd, Aztec, NM 87410

Approved

PIT REMEDIATION AND CLOSURE REPORT

RECEIVED
NOV 12 1998

OIL CON. DIV.
DIST. 3

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

Address: 603 W. Elm Street Farmington, NM 87401

Facility or Well Name: McDaniel B #1E

Location: Unit O Sec 17 T 29N R 11W County San Juan

Pit Type: Separator ☒ Dehydrator ☐ Other

Land Type: BLM ☒ State ☐ Fee ☐ Other

Pit Location: Pit dimensions: length 25 width 25 depth 3

(Attach diagram) Reference: wellhead ☒ other

Footage from reference: 80'

Direction from reference: 45 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)	10

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

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

(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)	10

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

RANKING SCORE (TOTAL POINTS): 20

Date Remediation Started: 5/6/98 Date Completed: 5/9/98

Remediation Method: Excavation X Approx. Cubic Yard 163

(Check all appropriate sections) Landfarmed X Amount Landfarmed (cubic yds) 163

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 19' X 21' X 11' and landfarmed soil onsite within a 100 ft radius at a depth of 6" to 12". Soil was aerated by disking/plowing until soil met regulatory levels.

***Sandstone encountered at 11'. See attached risk analysis and lab analysis form.

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 11'

Sample date 5/6/98 Sample time 8:30:00 AM

Sample Results

Benzene (ppm) 0.1100

Total BTEX (ppm) 31.9100

Field headspace (ppm) _____

TPH (ppm) 120.00 *** 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 October 29, 1998SIGNATURE Maureen Gannon

PRINTED NAME Maureen Gannon
AND TITLE Project Manager

Well Name:	McDaniel B #1E
Well Legals:	Unit O, Sec 17, T29N, R11W
Pit Type:	Separator
Horizontal Distance to Surface Water:	200 feet to 1,000 feet
Groundwater Depth:	50 feet to 99 feet

RISK ANALYSIS

PNM requests closure of their former pit on the McDaniel B #1E well site using a limited risk analysis based on the following conditions:

1. Groundwater is estimated to be at a depth of 73 feet based upon the elevation of the site and the elevation of the nearest "listed" or "named" river. (Reference: Horn Canyon, NM topographic map.)
2. The site is not located within 200 feet of a domestic water well.
3. PNM excavated 163 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.
4. Sandstone was encountered at 11 feet below ground surface. Bedrock/sandstone provides a barrier between remaining contamination and groundwater. Vertical migration through bedrock or sandstone to groundwater is unlikely.
5. PNM excavated and performed remediation to the maximum depth and horizontal extent practicable.

PNM believes their former pit on the McDaniel B #1E well site poses minimal threat to groundwater, human health and the environment based upon our past experience in excavating over 800 pits.

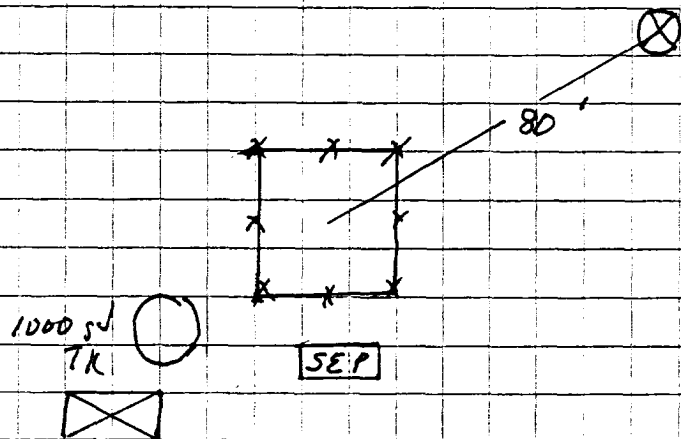
McDaniel B #1E

5/6/98

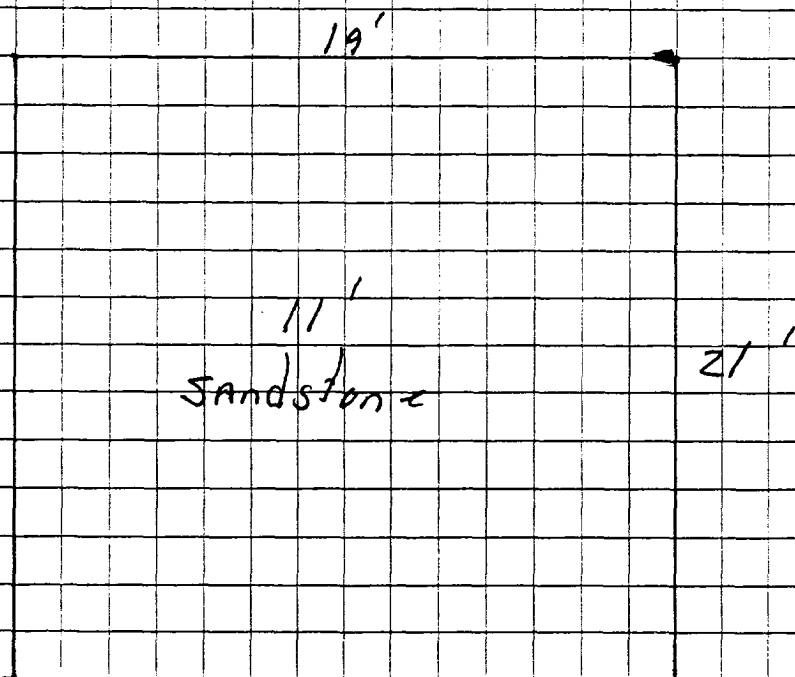
Burlington Resources

Sec. 17, 23N, 11W, 0

Start:



End of excavation:



OFF: (505) 325-5667



LAB: (505) 325-1556

On Site Technologies, LTD.

Date: 15-May-98

CLIENT: PNM - Public Service Company of NM
Project: McDaniel B#1E
Lab Order: 9805017

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: 15-May-98

Client:	PNM - Public Service Company of NM	Client Sample Info:	McDaniel B#1E
Work Order:	9805017	Client Sample ID:	9805060830; Bottom @ 11ft.
Lab ID:	9805017-01A	Matrix:	SOIL
Project:	McDaniel B#1E	Collection Date:	5/6/98 8:30:00 AM
		COC Record:	7209

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
DIESEL RANGE ORGANICS		SW8015				Analyst: HR
T/R Hydrocarbons: C10-C28	120	25		mg/Kg	1	5/13/98
BTEX		SW8020A				Analyst: DC
Benzene	110	100		µg/Kg	100	5/12/98
Toluene	6800	200		µg/Kg	100	5/12/98
Ethylbenzene	2400	100		µg/Kg	100	5/12/98
m,p-Xylene	18000	200		µg/Kg	100	5/12/98
o-Xylene	4600	100		µg/Kg	100	5/12/98

31,910
31,910 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



OFF: (505) 325-5667

LAB: (505) 325-1556

ANALYTICAL REPORT

Date: 15-May-98

Client:	PNM - Public Service Company of NM	Client Sample Info:	McDaniel B#1E
Work Order:	9805017	Client Sample ID:	9805060835; Walls @ 8ft.
Lab ID:	9805017-02A	Matrix:	SOIL
Project:	McDaniel B#1E	Collection Date:	5/6/98 8:35:00 AM
		COC Record:	7209

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
DIESEL RANGE ORGANICS		SW8015				Analyst: HR
T/R Hydrocarbons: C10-C28	ND	25		mg/Kg	1	5/13/98
BTEX		SW8020A				Analyst: DC
Methyl tert-Butyl Ether	ND	10		µg/Kg	1	5/12/98
Benzene	ND	1		µg/Kg	1	5/12/98
Toluene	ND	2		µg/Kg	1	5/12/98
Ethylbenzene	ND	1		µg/Kg	1	5/12/98
m,p-Xylene	ND	2		µg/Kg	1	5/12/98
o-Xylene	ND	1		µg/Kg	1	5/12/98

17

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

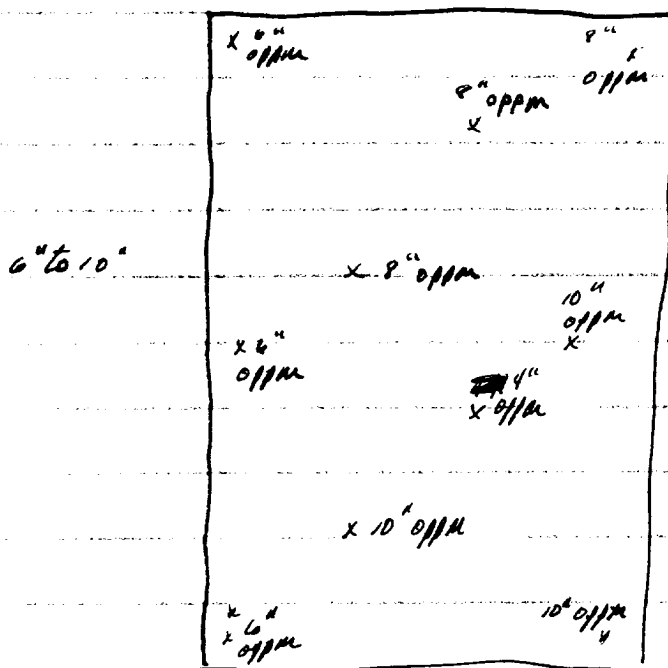
P.O. BOX 2606 • FARMINGTON, NM 87499

- TECHNOLOGY BLENDING INDUSTRY WITH THE ENVIRONMENT

Field Head Space: 0 ppm

↑
N

④ WH



OFF: (505) 325-5667

ON SITE

LAB: (505) 325-1556

TECHNOLOGIES, LTD.

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.

OFF: (505) 325-5667

ON SITE

TECHNOLOGIES, LTD.

LAB: (505) 325-1556

ANALYTICAL REPORT

Date: 08-Jun-98

Client:	PNM - Public Service Company of NM	Client Sample Info:	McDaniel B1E
Work Order:	9806013	Client Sample ID:	9806041100: Landfarm
Lab ID:	9806013-08A	Matrix:	SOIL
Project:	Landfarm Composites	Collection Date:	6/4/98 11:00:00 AM
		COC Record:	5224

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

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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