

District I
P.O. Box 1000 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

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

Denny E. Foust
DEPUTY OIL & GAS INSPECTOR

DEC 17 1998

PIT REMEDIATION AND CLOSURE REPORT

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

Address: 603 W. Elm Street Farmington, NM 87401

Facility or Well Name: Richardson #8E

Location: Unit H Sec 10 T 31 N R 12 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: 110'

Direction from reference: 5 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)	
50 feet to 99 feet	(10 points)	
Greater than 100 feet	(0 points)	<u>20</u>

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

Distance to Surface Water:

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

Less than 200 feet	(20 points)	
200 feet to 1,000 feet	(10 points)	
Greater than 1,000 feet	(0 points)	<u>20</u>

RANKING SCORE (TOTAL POINTS): 40

Richardson #8E

Date Remediation Started: 5/7/98

Date Completed: 5/12/98

Remediation Method:

Excavation ☒

Approx. Cubic Yard 680

(Check all appropriate sections)

Landfarmed ☒

Amount Landfarmed (cubic yds) 680

Other

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 35' X 21' X 25' 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

25'

Sample date

5/11/98

Sample time

10:00:00 AM

Sample Results

Benzene (ppm) < 0.0020

Total BTEX (ppm) 0.0224

Field headspace (ppm)

TPH (ppm) < 25.00

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

Manner for Gary Cook

PRINTED NAME Gary Cook

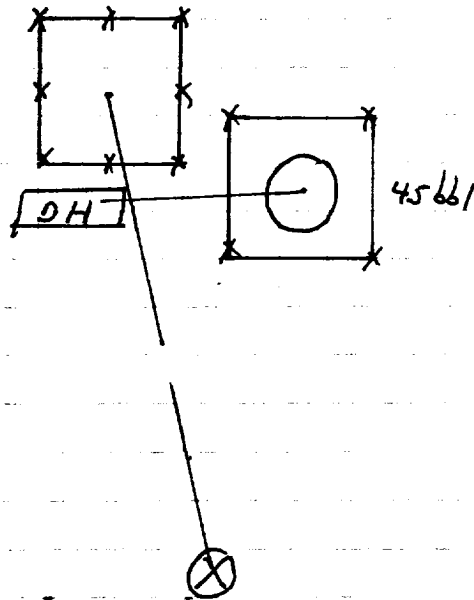
AND TITLE

Environmental Technician III

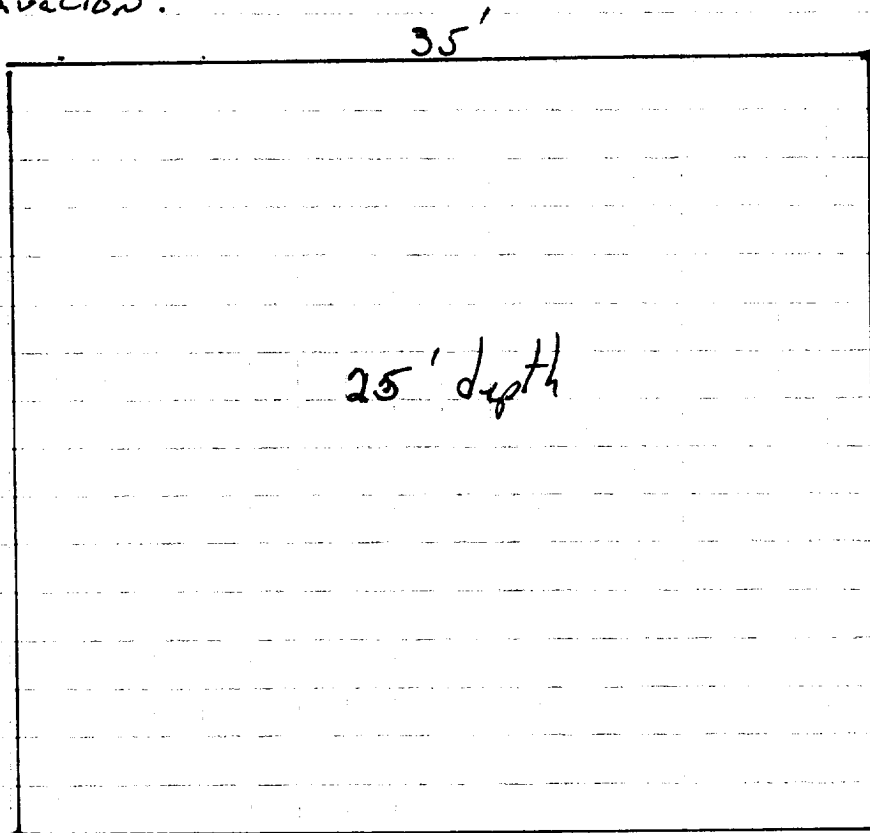
Richardson # 8 E
Burlington Resources
Sec. 10, 31N, 12W, H

5/7/98

Stock Pond



End of excavation:



OH

OFF: (505) 325-5667



LAB: (505) 325-1556

On Site Technologies, LTD.

Date: 15-May-98

CLIENT: PNM - Public Service Company of NM
Project: Richardson #8E
Lab Order: 9805027

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:	Richardson #8E
Work Order:	9805027	Client Sample ID:	9805111000; Bottom @ 25ft.
Lab ID:	9805027-01A	Matrix:	SOIL
Project:	Richardson #8E	Collection Date:	5/11/98 10:00:00 AM
		COC Record:	7211

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
Benzene	ND	2		µg/Kg	2	5/12/98
Toluene	5.9	4		µg/Kg	2	5/12/98
Ethylbenzene	ND	2		µg/Kg	2	5/12/98
m,p-Xylene	13	4		µg/Kg	2	5/12/98
o-Xylene	3.5	2		µg/Kg	2	5/12/98

22.4
 .0224

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

1 of 1

P.O. BOX 2606 • FARMINGTON, NM 87499

- TECHNOLOGY BLENDING INDUSTRY WITH THE ENVIRONMENT -

OFF: (505) 325-5667



LAB: (505) 325-1556

ANALYTICAL REPORT

Date: 15-May-98

Client:	PNM - Public Service Company of NM	Client Sample Info:	Richardson #8E
Work Order:	9805027	Client Sample ID:	9805111100; Walls @ 16ft.
Lab ID:	9805027-02A	Matrix:	SOIL
Project:	Richardson #8E	Collection Date:	5/11/98 11:00:00 AM
		COC Record:	7211

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
DIESEL RANGE ORGANICS		SW8015				Analyst: HR
T/R Hydrocarbons: C10-C28	32	25		mg/Kg	1	5/13/98
BTEX		SW8020A				Analyst: DC
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	2.2	2		µg/Kg	1	5/12/98
o-Xylene	6.4	1		µg/Kg	1	5/12/98

8.6
0.0086 ppm

Qualifiers:

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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

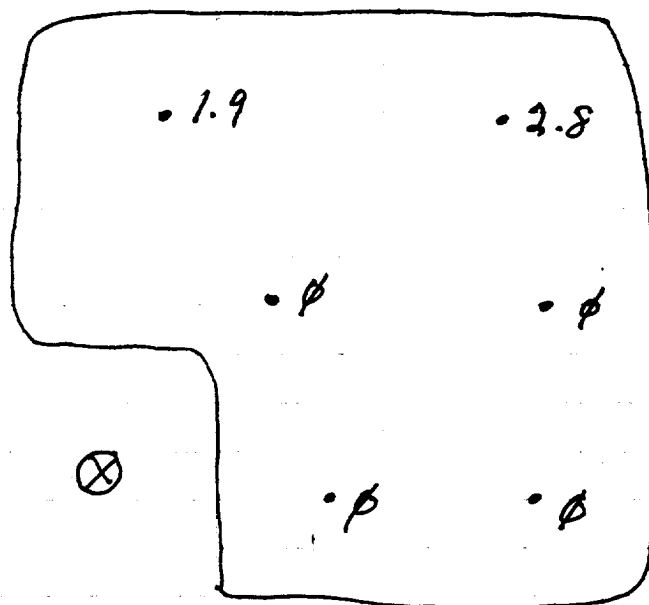
1 of 1

Richardson #8E
Burlington Resources
Sec. 10, 31N, 12W, H

6-29-98

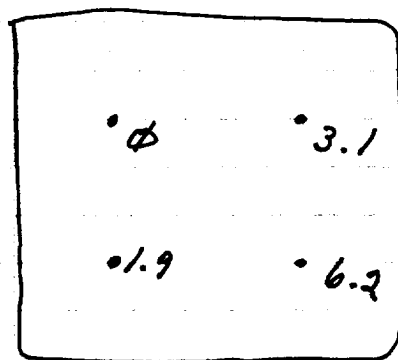
Landfarm:

680 yards



9806290800
2"-12" depth

Soil vapor head space = 27.6ppm



OFF: (505) 325-5667



LAB: (505) 325-1556

On Site Technologies, LTD.

Date: 01-Jul-98

CLIENT: PNM - Public Service Company of NM
Project: Landfarms
Lab Order: 9806114

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: 01-Jul-98

Client:	PNM - Public Service Company of NM	Client Sample Info:	Richardson #8E
Work Order:	9806114	Client Sample ID:	9806290800; 6pt. Comp @ 2-12in
Lab ID:	9806114-01A	Matrix:	SOIL
Project:	Landfarms	Collection Date:	6/29/98 8:00:00 AM
		COC Record:	7306

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
DIESEL RANGE ORGANICS		SW8015				Analyst: HR
T/R Hydrocarbons: C10-C28	85	25		mg/Kg	1	6/30/98

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

1 of 1