State of New Mexico

Finergy, Minerals and Natural Resources Dept. State of New Mexico

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

DEPUTY OH & GAS INSPECTOR

P.O. Drawer DD, Artesia, NM 88221 JAN 2 7 1999

District III 1000 Rio Brazos Rd, Aztec, NM 87410

OIL CONSERVATION DIVISION 2040 S. Pacheco Santa Fe, New Mexico 87504

REMEDIATION AND CLOSURE REPORT

Operator: Cau	lkins Oil Compa	any Te	lephone:	(505) 632-1544
Address: P.O.	Box 340, Bloom	nfield, NM 874	13	001, 4016. OTV.
Facility or Well	Name: Breec	h "A" 229		1427.5 6
Location: Unit	or Qtr/Qtr D	Sec_17_T_26N	_ R_6W (County <u>Rio Arriba</u>
Pit Type: Sepai	rator <u>X</u> Dehy	dratorOthe	er	
Land Type: BLM	1 <u>X</u> , State	, Fee, Ot	her	
Pit Location: (Attach diagram)	Pit dimensions	: length 20'	_, width_	12' , depth 12'
	References: we	llhead <u>X</u> ,	other	
	Footage from r	eference: 85'		
	Direction from	reference: 195	<u>Degrees</u>	East North of X West South X
Depth to Grou				-
(Vertical distance contaminants to swater elevation of	ce from seasonal high	Less than 50 f 50 feet to 99 Greater than 1	feet	(20 points) (10 points) (0 points)0
contaminants to s	ce from seasonal high of ground water) ection Area: eet from a water source, 00 feet from all	50 feet to 99 Greater than 1	feet .00 feet	(10 points)
water elevation of water elevation of wellhead Prot (Less than 200 fe private domestic or; less than 100 other water source)	ce from seasonal high of ground water) ection Area: eet from a water source, 00 feet from all ees) urface Water: unce to perennial ers, streams,	50 feet to 99 Greater than 1	feet .00 feet Yes No feet 00 feet	(10 points) (0 points) (20 points) (0 points)

Date Remediation St	arted: <u>4-7-97</u> Date Completed: <u>6-11-97</u>
	Excavation X Approx. cubic yards 106
Check all appropriate sections)	Landfarmed X Insitu Bioremediation
	Other
Remediation Locatio (ie. landfarmed onsite, name and location of offsite facility)	n: Onsite X Offsite
General Description	of Remedial Action: Aeration and Dilution
Ground Water Encoun	tered: No X Yes Depth
Final Pit: Closure Sampling: (if multiple samples,	Sample Location <u>Bottom of pit and landfarm</u>
attach sample results and diagram of sample	Sample depth 14'
	Sample date 9-29-97 Sample time 1:25 p.m.
	Benzene (ppm) ND
	Total BTEX (ppm) Pit: 250ppm
	Field headspace (ppm) Landfarm: 27.9 ppm
	TPH <u>Landfarm: 291 ppm Pit: 1241 ppm</u>
Ground Water Sample	TPH <u>Landfarm: 291 ppm Pit: 1241 ppm</u> : Yes <u> </u>
	: Yes No _X (If yes, attach sample results) THE INFORMATION ABOVE IS TRUE AND COMPLETE TO THE BEST OF
I HEREBY CERTIFY THAT	: Yes No _X (If yes, attach sample results) THE INFORMATION ABOVE IS TRUE AND COMPLETE TO THE BEST OF EF.

Breech A # 229 Canlkins Oil Sec. 17, 26N, 6W, 0

LAndfarm: On Locations
Composite sample # 9707231500 (4pt comp.)
50:1 vapor headspace PIO reading = 27.9 ppm

1.1

2"-12" depth

OFF: (505) 325-5667 TECHNOLOGIES, LTD.

LAB: (505) 325-1556

ANALYTICAL REPORT

Attn:

Denver Bearden

Date:

16-Sep-97

Company: PNM Gas Services

COC No.:

5700

Address:

603 W. Elm

16111

Sample No.:

City, State: Farmington, NM 87401

Job No.:

2-1000

Project Name:

PNM Gas Services - Breech A #229

Project Location:

9709091500; 14' depth

9-Sep-97 Time:

15:00

Sampled by: Analyzed by: GC DC/HR Date: Date:

15-Sep-97

Sample Matrix:

Soil

Laboratory Analysis

Parameter	Results as	Unit of	Limit of	Unit of
	Received	Measure	Quantitation	Measure
Diesel Range Organics (C10 - C28)	1241	mg/kg	5	mg/kg

ND - Not Detected at Limit of Quantitation

Quality Assurance Report

DRO QC No.: 0555-STD

Continuing Calibration Verification

	CONDICTION FOR	11044011				
	Method	Unit of	True	Analyzed		RPD
Parameter	Blank	Measure	Value	Value	RPD	Limit
	1					
Diesel Range (C10 - C28)	ND	ppm	200	197	1.5	15%

Matrix Spike

Parameter	1- Percent Recovered	2 - Percent Recovered	Limit	RPD	RPD Limit
Diesel Range (C10-C28)	100	94	(70-130)	6	20%

Method - SW-846 EPA Method 8015A mod. - Nonhalogenated Volatile Hydrocarbons by Gas Chromatography

P.O. BOX 2606 • FARMINGTON, NM 87499

OFF: (505) 325-5667



LAB: (505) 325-1556

ANALYTICAL REPORT

Attn:

Denver Bearden

Date:

1-Aug-97

Company: PNM Gas Services

COC No.:

Job No.:

5948

Address:

15468

City, State: Farmington, NM 87401

603 W. Elm

Sample No.:

2-1000

Project Name:

PNM Gas Services - Breech A #229 Landfarm

Project Location:

9707231500; 4pt. Composite

Date:

23-Jul-97 Time:

15:00

Sampled by: Analyzed by: GC

Date:

24-Jul-97

Sample Matrix:

Soil

HR/DC

Laboratory Analysis

Parameter	Results as Received	Unit of Measure	Limit of Quantitation	Unit of Measure
Diesel Range Organics (C10 - C28)	291	mg/kg	5	mg/kg

ND - Not Detected at Limit of Quantitation

Quality Assurance Report

DRO QC No.: 0548-STD

Continuing Calibration Verification

Parameter	Method Blank	Unit of Measure	True Value	Analyzed Value	RPD	RPD Limit
Diesel Range (C10 - C28)	ND	ppm	200	186	7.4	15%

Matrix Spike

Parameter	1- Percent Recovered	2 - Percent Recovered	Limit	RPD	RPD Limit
Diesel Range (C10-C28)	89	96	(70-130)	8	20%

Method - SW-846 EPA Method 8015A mod. - Nonhalogenated Volatile Hydrocarbons by Gas Chromatography

Approved by:

P.O. BOX 2606 • FARMINGTON, NM 87499

OFF: (505) 325-5667



LAB: (505) 325-1556

ANALYTICAL REPORT

Attn:

Denver Bearden

Date:

17-Sep-97

Company: PNM Gas Services

COC No.:

5700

Address:

603 W. Elm

Sample No.:

16111

City, State: Farmington, NM 87401

Job No.:

2-1000

Project Name:

PNM Gas Services - Breech A #229

Project Location:

9709091500; 14' depth

Date:

9-Sep-97 Time:

15:00

Sampled by: Analyzed by:

GC DC

Date:

11-Sep-97

Sample Matrix:

Soil

Laboratory Analysis

Parameter	· · · · · · · · · · · · · · · · · · ·	Results as Received	Unit of Measure	Limit of Quantitation	Unit of Measure
Benzene		ND	ug/kg	1	ug/kg
Toluene		32	ug/kg	1	ug/kg
Ethylbenzene		40	ug/kg	1	ug/kg
m,p-Xylene		147	ug/kg	1	ug/kg
o-Xylene		31	ug/kg	1	ug/kg
	TOTAL	250	ug/kg		

ND - Not Detected at Limit of Quantitation

Method - SW-846 EPA Method 8020A Aromatic Volatile Organics by Gas Chromatography

OFF: (505) 325-5667 TECHNOLOGIES, LTD.

LAB: (505) 325-1556

QUALITY ASSURANCE REPORT

for EPA Method 8020

Date Analyzed: 11-Sep-97

Internal QC No.:

0527-STD

Surrogate QC No.:

0528-STD

Reference Standard QC No.: 0529/30-QC

Method Blank

		Unit of
Parameter	Result	Measure
Average Amount of All Analytes In Blank	<1.0	ppb

Calibration Check

	Unit of	True	Analyzed		
Parameter	Measure	Value	Value	RPD	Limit
Benzene	ррь	60.0	60.0	0	15%
Toluene	ррь	60.0	62.3	4	15%
Ethylbenzene	ppb	60.0	62.1	3	15%
m,p-Xylene	ppb	120.0	117.8	2	15%
o-Xylene	ppb	60.0	60.0	0	15%

Matrix Spike

тин орко							
Parameter	1- Percent Recovered	2 - Percent Recovered	Limit	RPD	Limit		
Benzene	97	97	(39-150)	1	20%		
Toluene	98	97	(46-148)	1	20%		
Ethylbenzene	95	93	(32-160)	2	20%		
m,p-Xylene	89	87	(35-145)	2	20%		
o-Xylene	93	92	(35-145)	1	20%		

Surrogate Recoveries

Laboratory identification	S1 Percent Recovered	S2 Percent Recovered	Laboratory Identification	S1 Percent Recovered	S2 Percent Recovered
Limit Percent Recovered	(70-130)		Limit Percent Recovered	(70-130)	
16111-5700	107				
				THE STREET	(pr)
				19/18/97	9/17/97

S1: Flourobenzene

WELL NAME: Breech A 229