District I P.O. Box 1980, Hobbs, NM

State of New Mexico Energy, Minerals and Natural Resources Department SUBMIT 1 COPY TO
APPROPRIATE
DISTRICT OFFICE
AND 1 COPY TO
SANTA FE OFFICE

District II P.O. Drawer DD, Artesia, NM 88221

1000 Rio Brazos Rd, Aztec, NM 87410

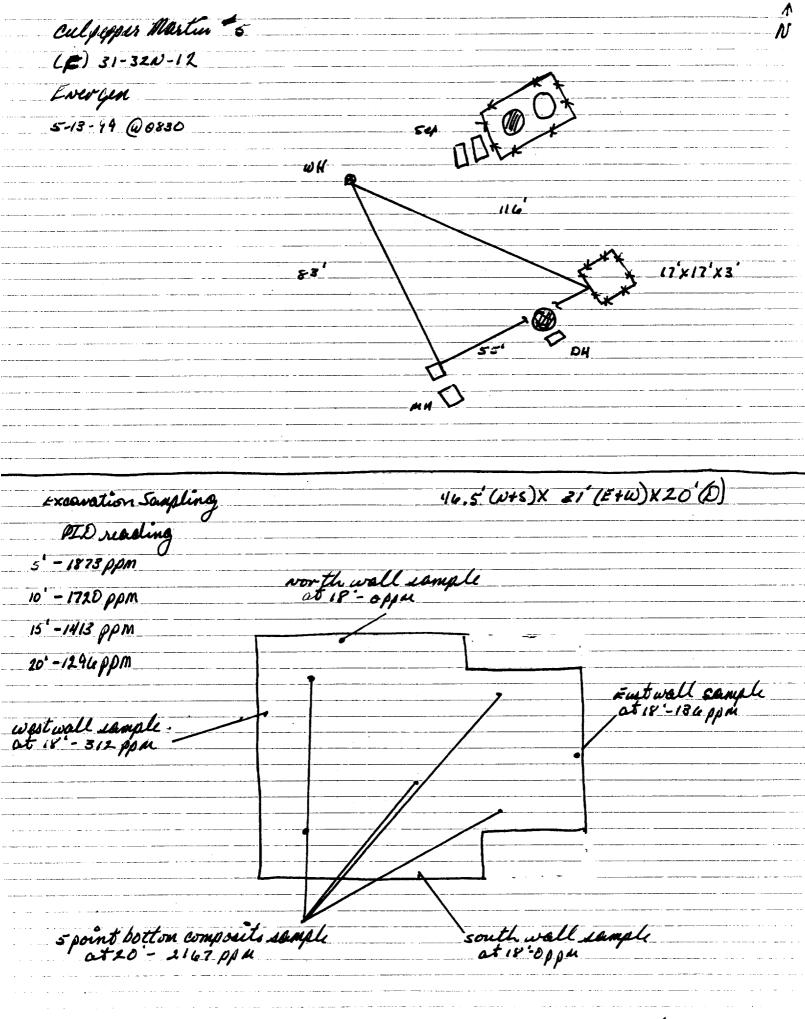
#### OIL CONSERVATION DIVISION

2040 South Pacheco Street Santa Fe, New Mexico 87505

# PIT REMEDIATION AND CLOSURE REPORT

Operator:	PNN	M Gas Services (Energen		elephone:	324-3764			
Address:	603 W. E	Ilm Street Farmington, NM 8	7401			·		_
Facility or We	ell Name:	Culpepper Martin #5 RH						
Location:	Unit	F Sec	<u>31</u> T	32 N R	12 W	County	San Juan	-
Pit Type:	Separa	tor Dehydra	ator 🔽	Other				
Land Type:	BLM	State	Fee 🔽	Other				
Pit Location:		Pit dimensions: length	18 '	width -	18 '	depth	3'	
(Attach diagrai	m)	Reference: wellhead	<b>✓</b>	other				
		Footage from reference:	115'	<u></u>				
		Direction from reference: 45	Degrees	<u> </u>	East	North		
					West	of South	<u> </u>	
Depth to Gro  (Vertical distance from seasonal high water elements)	contaminants to	PECENTY.		an 50 feet to 99 feet n 100 feet			(20 points) (10 points) ( 0 points)	0
Wellhead Pro	m a private 4	rea: OII COCI DI	<i>II</i>	Yes No			(20 points) ( 0 points)	0
Distance to S  (Horizontal distance to ponds, rivers, streams,	perennial lakes,		200 1661	han 200 feet to 1,000 feet an 1,000 feet			(20 points) (10 points) ( 0 points)	0
canals and ditches			RANKI	NG SCORE	(TOTA	L POINTS	):	0

Culpepper Martin #5 RH	05110	(4,000	Date Completed:	5/17/1999
Date Remediation Started:	05/13/	1999		מפטווווים
Remediation Method:	Excavation	<u>X</u>	Approx. Cubic Yard	1068
(Check all appropriate	Landfarmed	<u>x</u>	Amount Landfarmed (cubic y	/ds) <u>988</u>
sections)	Other 80 cu	ı yds clean overburden		
Remediation Location:	Onsite	X	Offsite	
(i.e., landfarmed onsite, name and location of offsite facility)				
Backfill Material Location:	———			
General Description of Ren	edial Action:			
Excavated contaminated soi to 12". Soil was aerated by c	l to a pit size of disking/plowing u	46.5' X 31' X 20' and intil soil met regulato	landfarmed soil onsite within a berme ry levels.	d area at a depth of 6"
*** Vertical extent drilling co	nducted to 25'. E	Sottom hole results be	elow OCD guidelines as indicated on a	attached lab analysis.
Ground Water Encountere	d: No	<u> </u>	Yes Depth	
Final Pit Closure Sampling:	Sample Locat	ion 5 pt. compo	osite - bottom.	
(if multiple samples, attach sample result and diagram of sample locations and depths.)	Sample depth	20'		····
sample locations and deptils.)	Sample date	05/17/1999	Sample time	8:25:00 AM
	Sample Resul	ts		
	Benz	ene (ppm) <	1	
,	Total	BTEX (ppm)	152.7 ***	
·	Field	headspace (ppm)		
	TPH (ppm)	2100.00	Method 8015B	
Vertical Extent (ft) 25		F	Risk Analysis form attached Yes	No 🔽
Ground Water Sample:	Yes _	No No	(If yes, see attached Gro Summary Report)	undwater Site
I HEREBY CERTIFY THA KNOWLEDGE AND MY		MATION ABOVE I	IS TRUE AND COMPLETE TO THE	BEST OF MY
DATE <b>January 24, 2</b> 0 SIGNATURE <u>Mau</u>	000 www.Harr	n	PRINTED NAME Maureer AND TITLE Project	n Gannon Manager



not to scale



LAB: (505) 325-1556

Date: 26-May-99

**CLIENT:** 

PNM - Public Service Company of NM

Project:

Culpepper Martin #5

Lab Order:

9905062

**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





LAB: (505) 325-1556

## ANALYTICAL REPORT

Date: 26-May-99

Client:

PNM - Public Service Company of NM

Work Order:

9905062

Lab ID:

9905062-01A

Matrix: SOIL

Project:

Culpepper Martin #5

Client Sample Info: Culpepper Martin #5

Client Sample ID: 9905170825; 5pt. Bottom Comp

Collection Date: 5/17/99 8:25:00 AM

COC Record: 7193

Parameter	Result	PQL	Qual Units	DF	Date Analyzed
DIESEL RANGE ORGANICS	SV	W8015B			Analyst: DC
T/R Hydrocarbons: C10-C28	2100	25	mg/Kg	1	5/21/99
AROMATIC VOLATILES BY GC/PID	SI	N8021B			Analyst: DM
Benzene	ND	1000	μg/Kg	1000	5/21/99
Toluene	32000	2000	μg/Kg	1000	5/21/99
Ethylbenzene	7700	1000	μg/Kg	1000	5/21/99
m,p-Xylene	93000	2000	μg/Kg	1000	5/21/99
o-Xylene	20000	1000	μg/Kg	1000	5/21/99
	15000	_			
	152700	$\mathcal{L}$			
	1527	$m\alpha$			

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



LAB: (505) 325-1556

Date: 26-May-99

## ANALYTICAL REPORT

Client: PNM - Pub

PNM - Public Service Company of NM

Work Order:

Lab ID:

9905062

9905062-02A

Matrix: SOIL

Project: Culpepper Martin #5

Client Sample Info: Culpepper Martin #5

Client Sample ID: 9905170830; 4pt. Wall Comp

Collection Date: 5/17/99 8:30:00 AM

COC Record: 7193

Parameter	Result	PQL	Qual Units	DF	Date Analyzed	
DIESEL RANGE ORGANICS	sv	V8015B			Analyst: DC	
T/R Hydrocarbons: C10-C28	69	25	mg/Kg	1	5/21/99	

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

Culpepper Martin #5 (Energen) Sec-31 T-32N R-12W Energen

Land farm 1 Denaing

**(D)** WH 15.7 ppm 143 ppm 2.3 ppm

> Head-Space - 58.1 ppm Sample # - 9908120920

> > Not to Scale

2"-12"

LAB: (505) 325-1556

Date: 17-Aug-99

On Site Technologies, LTD.

CLIENT:

PNM - Public Service Company of NM

Project:

PNM Pit Remediation Landfarms

Lab Order:

9908034

**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



LAB: (505) 325-1556

### ANALYTICAL REPORT

Date: 17-Aug-99

Client:

PNM - Public Service Company of NM

Work Order:

9908034

Lab ID:

9908034-02A

Matrix: SOIL

Project:

PNM Pit Remediation Landfarms

Client Sample Info: Culpepper Martin 5 LF #1

Client Sample ID: 9908120920; 6pt Comp

Collection Date: 08/12/1999 9:20:00 AM

COC Record: 7653

Parameter	Result	PQL	Qual Units	DF	Date Analyzed
DIESEL RANGE ORGANICS T/R Hydrocarbons: C10-C28	<b>SV</b> 45	<b>V8015B</b> 25	mg/Kg	1	Analyst: <b>DC</b> 08/13/1999

Qualifiers:

PQL - Practical Quantitation Limit

ND - Not Detected at Practical Quantitation Limit

J - Analyte detected below Practical Quantitation Limit

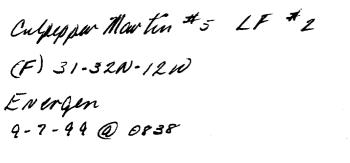
B - Analyte detected in the associated Method Blank

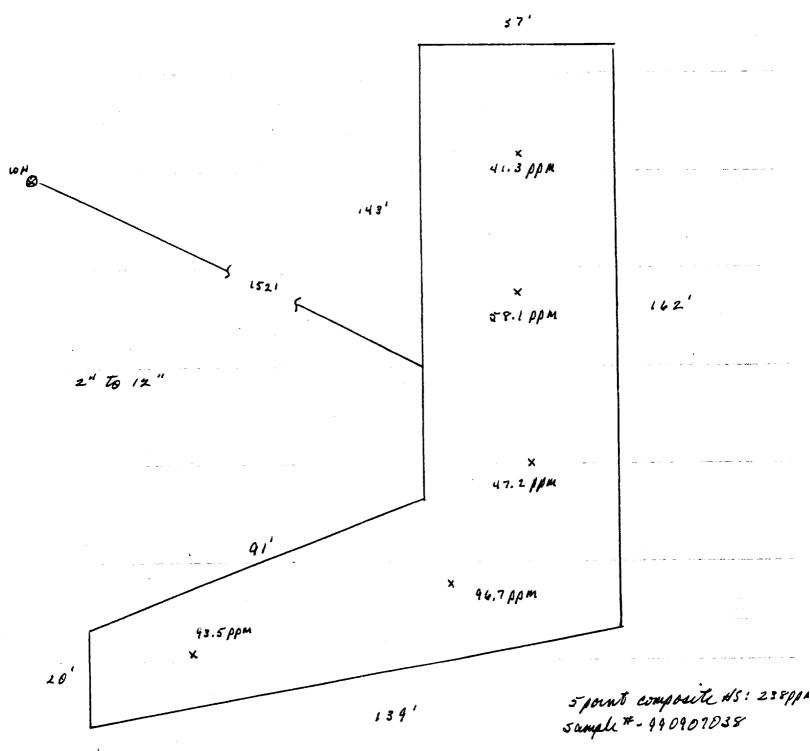
S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

Surr: - Surrogate





not to seal

LAB: (505) 325-1556

## On Site Technologies, LTD.

**CLIENT:** 

PNM - Public Service Company of NM

Project:

Culpepper Martin #5 LF #2

Lab Order:

9909012

**CASE NARRATIVE** 

Date: 15-Sep-99

Samples were analyzed using the methods outlined in the following references:

Test Methods for Evaluating Solid Waste, Physical/Chemical Methods, SW846, 3rd Edition



LAB: (505) 325-1556

Date: 15-Sep-99

## ANALYTICAL REPORT

Client:

PNM - Public Service Company of NM

Work Order:

9909012

9909012-01A

Matrix: SOIL

Lab ID: Project:

Culpepper Martin #5 LF #2

Client Sample Info: Culpepper Martin #5 LF #2

Client Sample ID: 9909070838; 5pt. Composite

Collection Date: 09/07/1999 8:38:00 AM

COC Record: 7808

Parameter	Result	PQL	Qual Units	DF	Date Analyzed
DIESEL RANGE ORGANICS	SV	V8015B	-		Analyst: <b>DM</b>
T/R Hydrocarbons: C10-C28	250	25	mg/Kg	1	09/13/1999
AROMATIC VOLATILES BY GC/PID	SV	V8021B			Analyst: HR
Benzene	ND	5	μg/Kg	5	09/07/1999
Toluene	49	10	μg/Kg	5	09/07/1999
Ethylbenzene	51	5	μg/Kg	5	09/07/1999
m,p-Xylene	1100	10	μg/Kg	5	09/07/1999
o-Xylene	340	5	μg/Kg	5	09/07/1999

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



LAB: (505) 325-1556

## On Site Technologies, LTD.

**CLIENT:** 

PNM - Public Service Company of NM

Project:

Vertical Extent Drilling

Lab Order:

9909084

**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



LAB: (505) 325-1556

## ANALYTICAL REPORT

Date: 13-Oct-99

Client:

PNM - Public Service Company of NM

Work Order:

9909084

Lab ID:

9909084-02A

Matrix: SOIL

Project:

Vertical Extent Drilling

Client Sample Info: Culpepper Martin #5 Dehy

Client Sample ID: 9909291235 @ 25ft.

Collection Date: 09/29/1999 12:35:00 PM

COC Record: 7765

Parameter	Result	PQL	Qual Units	DF	Date Analyzed
DIESEL RANGE ORGANICS	SV	V8015B		-	Analyst: DC
T/R Hydrocarbons: C10-C28	38	25	mg/Kg	1	10/06/1999
AROMATIC VOLATILES BY GC/PID	SV	V8021B			Analyst: DM
Benzene	ND	2	μ <b>g</b> /Kg	2	10/04/1999
Toluene	10	4	μ <b>g</b> /Kg	2	10/04/1999
Ethylbenzene	3	2	μg/Kg	2	10/04/1999
m,p-Xylene	64	4	μg/Kg	2	10/04/1999
o-Xylene	21	2	μg/Kg	2	10/04/1999

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

I of I

#### RECORD OF SUBSURFACE EXPLORAT Mil Hall-days will Philip Environmental Services Corp. 4000 Monroe Road Fermington, New Mexico 87401 PNM VERTICAL Project Name (505) 326-2262 FAX (605) 326-2388 Project Number 62x00044 Phase CULPEPPER MARTIN #5 DEHY Project Location Elevation Well Logged By CULLICOTT Borehole Location T32N RIZW 531 Personnel On-Site DADILLAQD . DADILLA GWL Depth NOTENCOUNTERED Contractors On-Site Logged By CULLICOTT Client Personnel On-Site GARY LOOK Drilled By PADILLAS D. PADILLA 9/29/99 11:35 am Date/Time Started **Drilling Method** AUGER

Air Monitoring Method

PIP

			<u> </u>				1 123	
Depth (Feet)	Sample Interval	Sample Type & Recovery (inches)	Sample Description Classification System: USCS	USCS Symbol	Depth Lithology Change (feet)	Air Monit Unite: N BZ BH	-	Drilling Conditions & Blow Counts
10 10 15 20 1 25 30 35 35	25-271		C-20'  CLEAN  FILL  STIFF BROWN SANGY  STIFF BROWN SANGY  STIFF BROWN SANDY  STIFF BROWN  STIFF BR					© 41 BLOWS 35 397 PPM HS 219 PPM & 31 BLOWS 55 568 PPM HS PPM

Comments: SUNNY, LIGHT BREEZE, CODE
HOLES RACKEILLEN WICHTINGS

Date/Time Completed 9/29/199 12:500m