District I Denny &, Fourt
P.O. Box 1980, Hobbs, NM & GAS INSPECTOR

Bistrict II

District III SEP 0.3 1999

State of New Mexico
Energy, Minerals and Natural Resources Department

SUBMIT I COPY TO
APPROPRIATE
DISTRICT, OFFICE
AND I COPY TO
SANTA RE OFFICE

OIL CONSERVATION DIVISION

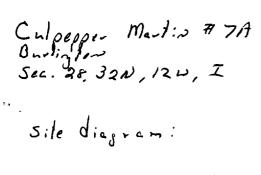
2040 South Pacheco Street Santa Fe, New Mexico 87505

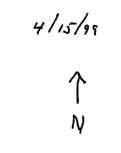
PIT REMEDIATION AND CLOSURE REPORT

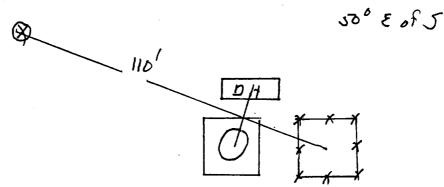
DECEIVED

OIL COM. DIV. PNM Gas Services (Burlington Telephone: 324-3764 Operator: 603 W. Elm Street Farmington, NM 87401 Address: Facility or Well Name: Culpepper Martin #7A County Location: 12 W San Juan Sec 28 32 N Dehydrator Other Pit Type: Separator Land Type: **BLM** State Other Fee width Pit dimensions: length depth 3 ' Pit Location: 20 ' 20 ' other (Attach diagram) Reference: wellhead Y Footage from reference: 110' Direction from reference: Degrees East North of West South (20 points) Less than 50 feet Depth to Ground Water: 50 feet to 99 feet (10 points) 0 Greater than 100 feet (0 points) (Vertical distance from contaminants to seasonal high water elevation of ground Wellhead Protection Area: Yes (20 points) 0 (0 points) No (Less than 200 feet from a private domestic water source, or, less than 1,000 feet from all other water sources) Less than 200 feet (20 points) Distance to Surface Water: 200 feet to 1,000 feet (10 points) Greater than 1,000 feet (0 points) 0 (Horizontal distance to perennial lakes, ponds, rivers, streams, creeks, irrigation canals and ditches RANKING SCORE (TOTAL POINTS): 0

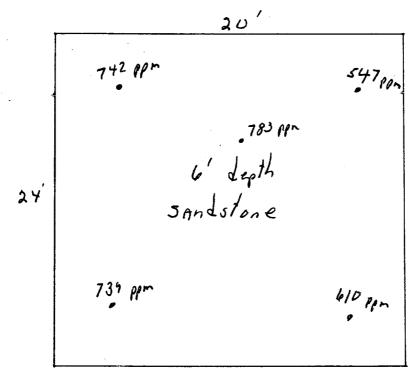
Culpepper Martin #7A Date Remediation Started:	arted: 04/15/1999		Date Completed: 04/15/1999				
Remediation Method:	Excavation	X	Approx. Cubic Yard	106			
(Check all appropriate	Landfarmed	x	Amount Landfarmed (cubic y	ds) <u>106</u>			
sections)	Other						
Remediation Location: (i.e., landfarmed onsite, name and location of offsite facility)	Onsite	<u>x</u>	Offsite				
Backfill Material Location:		,					
General Description of Ren	nedial Action:		•				
Excavated contaminated soi	l to a pit size of	20' X 24' X 6' and landfar	med soil onsite within a bermed ar	ea at a depth of 6" to			
12". Soil was aerated by dish							
*** Sandstone encountered	at 6'. See attacl	ned risk analysis form and	l lab analysis.				
Ground Water Encountere	d: No	Ye	Depth				
Final Pit Closure Sampling:	Sample Loca	tion Five point comp	posite - bottom of excavation.				
(if multiple samples, attach sample result and diagram of	Sample dept	h 6'					
sample locations and depths.)	Sample date	04/15/1999	Sample time	10:20:00 AM			
	Sample Resu	lts					
	Benz	zene (ppm) 22	000				
	Tota	BTEX (ppm)	366.000 ***				
	Field	headspace (ppm)					
	TPH (ppm)	300.00	Method 8015B	·			
Vertical Extent (ft)		Risk	Analysis form attached Yes	No No			
Ground Water Sample:	Yes _	No _	(If yes, see attached Grou Summary Report)	ndwater Site			
I HEREBY CERTIFY THA KNOWLEDGE AND MY		MATION ABOVE IS T	RUE AND COMPLETE TO THE	BEST OF MY			
DATE July 27, 1999 SIGNATURE YMMA	wWarun		PRINTED NAME Maureen AND TITLE Project M				







End of exception:



LAB: (505) 325-1556

On Site Technologies, LTD.

CLIENT:

PNM - Public Service Company of NM

Project:

Culpepper Martin #7A

Lab Order:

9904028

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.



LAB: (505) 325-1556

ANALYTICAL REPORT

Date: 29-Apr-99

Client:

PNM - Public Service Company of NM

Work Order:

9904028

Lab ID:

9904028-01A

Matrix: SOIL

Project:

Culpepper Martin #7A

Client Sample Info: Culpepper Martin #7A

Client Sample ID: 9904151020; Bottom @ 6ft

Collection Date: 4/15/99 10:20:00 AM

COC Record: 7563

Parameter	Result	PQL	Qual Units	DF	Date Analyzed
DIESEL RANGE ORGANICS	SV	V8015B			Analyst: DC
T/R Hydrocarbons: C10-C28	300	25	mg/Kg	1	4/27/99
AROMATIC VOLATILES BY GC/PID	SV	V8021B			Analyst: HR
Benzene	22000	2500	μg/Kg	2500	4/22/99
Toluene	130000	5000	μg/Kg	2500	4/22/99
Ethylbenzene	19000	2500	μg/Kg	2500	4/22/99
m,p-Xylene	160000	5000	μg/Kg	2500	4/22/99
o-Xylene	35000	2500	μg/Kg	2500	4/22/99

366 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

Surr: - Surrogate

1 of 1



LAB: (505) 325-1556

ANALYTICAL REPORT

Date: 29-Apr-99

Client:

PNM - Public Service Company of NM

Work Order:

9904028

Lab ID:

9904028-02A

Matrix: SOIL

Project:

Culpepper Martin #7A

Client Sample Info: Culpepper Martin #7A

Client Sample ID: 9904151025; Walls @ 3ft

Collection Date: 4/15/99 10:25:00 AM

COC Record: 7563

Parameter	Result	PQL	Qual Units		DF	Date Analyzed
DIESEL RANGE ORGANICS T/R Hydrocarbons: C10-C28	SV ND	V8015B 25	mg/Kg	i	1	Analyst: HR 4/16/99

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

1 of 1

Culpep Sèc-28	per Mo	entin 71	4
Sec-28 Burling	T-32N	R-12W	ul- 1

LANdfARM	a D	eawing				-
-	On	enwing location	App	106	cu y	92

· · · · · · · · · · · · · · · · · · ·	9.0ppm 1.8ppm
Wellhead	97.7pm
	11.5ppm
	20.7pm

2"to 12" Depth Hendspace Reading 37.3 ppm Sample 9905190853

Not to Scale

ON SITE
TECHNOLOGIES, LTD.

Date: 27-May-99

LAB: (505) 325-1556

On Site Technologies, LTD.

CLIENT:

PNM - Public Service Company of NM

Project:

C.M./Moore/Montoya LF

Lab Order:

9905066

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.



LAB: (505) 325-1556

ANALYTICAL REPORT

Date: 27-May-99

Client:

PNM - Public Service Company of NM

Work Order:

9905066

Lab ID:

9905066-02A

Matrix: SOIL

Project:

C.M./Moore/Montoya LF

Client Sample Info: Culpepper Martin #7A LF

Client Sample ID: 9905190853; 5pt Comp

Collection Date: 5/19/99 8:53:00 AM

COC Record: 7620

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

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

1 of 1



Well Name:

Well Legals:

Pit Type:

Horizontal Distance to Surface Water:

Groundwater Depth:

Culpepper Martin #7A
Unit I, Sec 28, T32N, R12W
Dehydrator
Greater than 1,000 feet
Greater than 100 feet

RISK ANALYSIS

PNM requests closure of their former pit on the Culpepper Martin #7A well site using a limited risk analysis based on the following conditions:

- 1. Groundwater is estimated to be at a depth of 235 feet based upon the elevation of the site and the elevation of the nearest "listed" or "named" wash. (Reference: Adobe Downs Ranch, NM series 7.5 minute topographic map.)
- 2. PNM excavated 106 cubic yards of soil from the former pit. Subsurface lateral contamination has been remediated (see attached map and analytical results for the side wall profiles). Source removal minimizes the possibility of surface water contamination.
- 3. Sandstone was encountered at 6 feet below ground surface. Bedrock/sandstone provides a barrier between remaining contamination and groundwater. Vertical migration through bedrock or sandstone to groundwater is unlikely.
- 4. PNM excavated and performed remediation to the maximum depth and horizontal extent practicable.

PNM believes their former pit on the Culpepper Martin #7A well site poses minimal threat to groundwater, human health and the environment based upon our past experience in excavating over 1,000 pits.