DEPUTY OIL & CAS INSPECTOR ENVIRONMENTAL PROTECTION OFFICE

FEE 6 & 1999

P.O. BOX 507

DULCE, NEW MEXICO 87528

SUBMIT 1 COPY TO NATURAL RESOURCE DEPT AND OIL GAS ADMINISTRATION

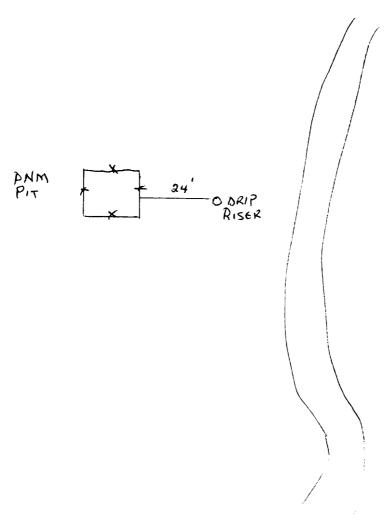
Har ever pit remediation and closure report

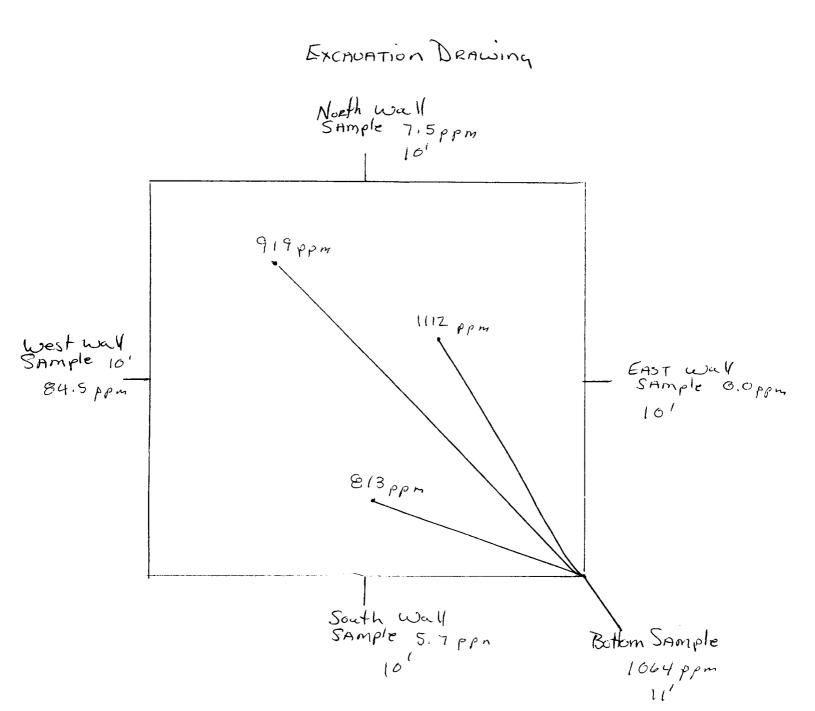
Operator: PNM Gas Services (W.F.	S Telephone: 324-3764				
Address: 603 W. Elm Street Farmington, NM 87401					
Facility or Well Name: JICARILLA 103-64 DRIP					
Location: Unit: M Sec. 20	T. 26N R. 4W County Rio Arriba				
Pit Type: Separator Dehydrator	Other Line Drip				
Land Type:					
Pit Location: Pit dimensions: length	<u> えら'</u> width <u>えら'</u> depth <u>3'</u>				
(Attach diagram) Reference: wellhead	other DRIP RISER				
Footage from reference: 2	y'				
Direction from reference: <u>Duc</u>	Degrees East North of				
	West South				
Depth to Ground Water: Less than 50 feet (20 points) (Vertical distance from contaminants (10 points)					
to seasonal high water elevation of ground water)	Greater than 100 feet (0 points)				
Wellhead Protection Area: (Less than 200 feet from a private domestic	Yes (20 points) No (0 points)				
water source, or less than 1,000 feet from all other water sources)					
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)				
Distance to Ephemeral Stream (dry wash):	Less than or equal to 100 feet (10 points) Greater than 100 feet (0 points)				
(Horizontal distance to all downgradient streams having a width of at least 10 feet;					
Distance to Nearest Lake, Playa, or Watering Pond: (Horizontal distance to all downgradient lakes, playas, and Irvestock or wildlife	Less than or equal to 100 feet (10 points) Greater than 100 feet (0 points)				
water ponds)	RANKING SCORE (TOTAL POINTS):				
	INTIMINA CACINE (IAINE)				

Date Remediation Started	: 10/15/98	Date Completed:	12/15/98	
Remediation Method:	Excavation X	Approx. Cubic Yards	286	
(Check all appropriate	Landfarmed X	Amount Landfarmed (cubic	yds): <u>286</u>	
sections)	Other	0.9		
Remediation Location: (i.e., landfarmed onsite, name and location of offsite facility)	Onsite	Offsite TICARITU	Landfarm #6	
General Description of Remedial Action: Removed contaminated soil from all four side walls as to get helow 100 ppm headspace readings. Pit bottom is sandstone Final excavation: 27' X 26' X 11'.				
Ground Water Encounte	ered: No X Yes	Depth		
Final Pit Closure Sampling:	Sample Location North, 6	EAST, South, West + bottom	side walls	
(if multiple samples, attach sample result and diagram of sample locations and	Sample depth Sample date 10/15/9	g Sample time	1147 / 1148	
depths.)	Sample Results		,	
Soil:	Benzene (ppm) 20	Water: Benzene (p	pb)	
	Total BTEX (ppm 153.4	Toluene (p	pb)	
	Field headspace (ppm)	Ethylbenzer		
	TPH <u>240 ppm</u> Method	용이5 Total Xylend	es (ppb)	
Ground Water Sampl	e: Yes No	(If yes, attach s	sample results)	
I HEREBY CERTIFY THA	AT THE INFORMATION ABOVE IS	TRUE AND COMPLETE TO T	HE BEST OF MY	
1	, 1	NTED NAME Roy Burnhar	<u>n</u>	
SIGNATURE Ray	Buenham AM	ND TITLE Environmental	Technician II	
AFTER REVIEW OF THE PIT CLOSURE INFORMATION, PIT CLOSURE IS APPROVED IN ACCORDANCE TO JICARILLA APACHE TRIBE PIT CLOSURE ORDINANCE.				
APPROVED: YES	NO (REASO	ON): K.A. Atlan	ched	
SIGNED:	Monto	TE: 12-15-98	,	

Sec-20 T-26N-R-4W UL M WFS

Site Drawing







OFF: (505) 325-5667

CLIENT:

LAB: (505) 325-1556

On Site Technologies, LTD.

PNM - Public Service Company of NM

Project: Jicarilla 103-6Y Drip

Lab Order: 9810057

CASE NARRATIVE

Date: 29-Oct-98

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: 29-Oct-98

Client:

PNM - Public Service Company of NM

Work Order:

9810057

Lab ID:

9810057-02A

Matrix: SOIL

Project:

Jicarilla 103-6Y Drip

Client Sample Info: Jicarilla 103-6Y Drip

Client Sample ID: 9810151148; 3pt. Comp. Bottom

Collection Date: 10/15/98 11:48:00 AM

COC Record: 7355

Result	PQL Q	ual Units	DF	Date Analyzed
SW8015			Analyst: HR	
240	25	mg/Kg	1	10/27/98
SW8020A				Analyst: DC
20000	1000	μg/Kg	1000	10/22/98
69000	2000	μg/Kg	1000	10/22/98
5400	1000	μg/ Kg	1000	10/22/98
48000	2000	μg/Kg	1000	10/22/98
11000	1000	μg/Kg	1000	10/22/98
	240 SV 20000 69000 5400 48000	SW8015 240 25 SW8020A 20000 1000 69000 2000 5400 1000 48000 2000	SW8015 240 25 mg/Kg SW8020A 20000 1000 µg/Kg 69000 2000 µg/Kg 5400 1000 µg/Kg 48000 2000 µg/Kg	SW8015 240 25 mg/Kg 1 SW8020A 20000 1000 μg/Kg 1000 69000 2000 μg/Kg 1000 5400 1000 μg/Kg 1000 48000 2000 μg/Kg 1000

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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OFF: (505) 325-5667



LAB: (505) 325-1556

ANALYTICAL REPORT

Date: 29-Oct-98

Client:

Lab ID:

Project:

PNM - Public Service Company of NM

Work Order:

9810057

9810057-01A

Matrix: SOIL

Jicarilla 103-6Y Drip

Client Sample Info: Jicarilla 103-6Y Drip

Client Sample ID: 9810151147; 4pt. Comp. Walls

Collection Date: 10/15/98 11:47:00 AM

COC Record: 7355

Parameter	Result	PQL	Qual Units	DF	Date Analyzed
DIESEL RANGE ORGANICS	SW8015				Analyst: HR
T/R Hydrocarbons: C10-C28	ND	25	mg/Kg	1	10/22/98

Qualifiers:

PQL - Practical Quantitation Limit

ND - Not Detected at Practical Quantitation Limit

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R - RPD outside accepted recovery limits

E - Value above quantitation range

Surr: - Surrogate

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Well Name: Well Legals:

Pit Type:

Horizontal Distance to Surface Water:

Groundwater Depth:

Jicarilla 103-6Y Drip Unit M, Sec 20, T26N, R4W Line Drip Greater than 1,000 feet Greater than 100 feet

RISK ANALYSIS

PNM requests closure of their former pit on the Jicarilla 103-6Y Drip well site using a limited risk analysis based on the following conditions:

- 1. Groundwater is estimated to be at a depth of 108 feet based upon the elevation of the site and the elevation of the nearest "listed" or "named" wash. (Reference: Lapis Point, NM series 7.5 minute topographic map.)
- 2. The site is located outside of the "vulnerable area" as defined under OCC Order No. R-7940-C.
- 3. PNM excavated 286 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 Jicarilla 103-6Y Drip well site poses minimal threat to groundwater, human health and the environment based upon our past experience in excavating over 800 pits.