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Denny & Fourt DEPUTY OIL & GAS INSPECTOR

#### JICARILLA APACHE TRIBE

FEB 0 8 1999

### ENVIRONMENTAL PROTECTION OFFICE

SUBMIT 1 COPY TO NATURAL RESOURCE DEPT AND OIL GAS ADMINISTRATION

P.O. BOX 507 DULCE, NEW MEXICO 87528

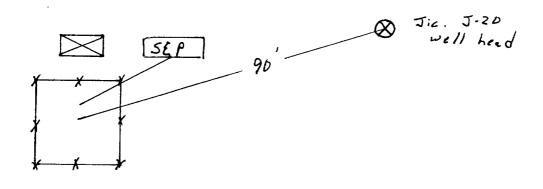
## PIT REMEDIATION AND CLOSURE REPORT

Operator: PNM Gas Services (Bhy ling for	Resources Telephone: 324-3764	
Address: 603 W. Elm Street Farmington, NM 874	01	
Facility or Well Name: Jicarill, J-	30	
Location: Unit: P Sec. 24	T. 24 N R. 5 W County Rio Arriba	
Pit Type: Separator $\chi$ Dehydrator	Other	
Land Type:		
Pit Location: Pit dimensions: length	20' width 20' depth 3'	
(Attach diagram) Reference: wellhead		
Footage from reference:	90'	
Direction from reference: 70		
	of <u> </u>	
Depth to Ground Water:	Less than 50 feet (20 points)	
(Vertical distance from contaminants to seasonal high water elevation of	50 feet to 99 feet (10 points) Greater than 100 feet (0 points)	0
(Vertical distance from contaminants to seasonal high water elevation of ground water)	50 feet to 99 feet (10 points) Greater than 100 feet (0 points)  Yes (20 points)	0
(Vertical distance from contaminants to seasonal high water elevation of	50 feet to 99 feet (10 points) Greater than 100 feet (0 points)	<u> </u>
(Vertical distance from contaminants to seasonal high water elevation of ground water)  Wellhead Protection Area:  (Less than 200 feet from a private domestic water source, or; less than 1,000 feet from all	50 feet to 99 feet (10 points) Greater than 100 feet (0 points)  Yes (20 points) No (0 points)  Less than 200 feet (20 points)	<u> </u>
(Vertical distance from contaminants to seasonal high water elevation of ground water)  Wellhead Protection Area: (Less than 200 feet from a private domestic 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,	50 feet to 99 feet (10 points) Greater than 100 feet (0 points)  Yes (20 points) No (0 points)	<u> </u>
(Vertical distance from contaminants to seasonal high water elevation of ground water)  Wellhead Protection Area: (Less than 200 feet from a private domestic water source, or; less than 1,000 feet from all other water sources)  Distance to Surface Water: (Horizontal distance to perennial	50 feet to 99 feet (10 points) Greater than 100 feet (20 points)  Yes No (20 points)  Less than 200 feet (20 points)  200 feet to 1,000 feet (10 points) Greater than 1,000 feet (0 points)  Less than or equal to 100 feet (10 points)	_6_
(Vertical distance from contaminants to seasonal high water elevation of ground water)  Wellhead Protection Area: (Less than 200 feet from a private domestic 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)  Distance to Ephemeral Stream (dry wash): (Horizontal distance to all downgradient streams having a width of at least 10	50 feet to 99 feet (10 points) Greater than 100 feet (20 points)  Yes (20 points)  Less than 200 feet (20 points)  200 feet to 1,000 feet (10 points)  Greater than 1,000 feet (0 points)	<u>o</u> <u>o</u>
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Date Remediation Started: 10/6/98 Date Completed: 12/15/98 RAD
Remediation Method: Excavation Approx. Cubic Yards 94 yards
(Check all appropriate sections)  Landfarmed X Amount Landfarmed (cubic yds): 96 3 2 2 2
Remediation Location: Onsite
General Description of Remedial Action:  Removed contaminated soil from all 4 side walls  and pit bottom as to get a below loo pam headspace  reading.  Excavated pit 18' X12' X12'  Ground Water Encountered: No X Yes Depth
Final Pit Closure Sample Location North well south well East well west well allow a sampling:  3 point composite bottom a 12'
(if multiple samples, attach sample depth sample result and diagram of sample locations and depths.)  Sample date 10 - 6 - 98 Sample time 1426  Sample Results
Soil: Benzene (ppm) No Water: Benzene (ppb)
Total BTEX (ppm Toluene (ppb) Ethylbenzene (ppb) Total Xylenes (ppb) Total Xylenes (ppb)
Ground Water Sample: Yes NoX (If yes, attach sample results)
I HEREBY CERTIFY THAT THE INFORMATION ABOVE IS TRUE AND COMPLETE TO THE BEST OF MY KNOWLEDGE AND MY BELIEF  DATE    10/6/98   PRINTED NAME Roy Burnham  SIGNATURE AND 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 (REASON):
SIGNED: XC=C71) and DATE: 11-2-98

Jicarille J-20 Burlington Resources Sec. 26, 26 N, SW, P

site diagram:



Not to Scale

Jiewilla J-20 BR Sec 26, 26N, 5W, P

## North Wall

. @ 12' 2.1 ppn

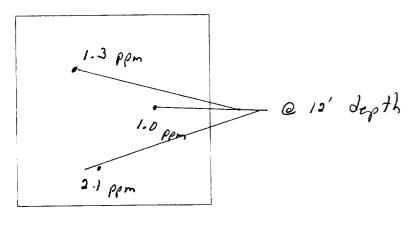
## South Wall

· Q9'

## East Wall

# West Wall

# Bottom



3 pt. comp. head space reed; = 2.5 pm

LAB: (505) 325-1556

#### On Site Technologies, LTD.

PNM - Public Service Company of NM

Project:

Jicarilla J-20

Lab Order:

**CLIENT:** 

9810030

**CASE NARRATIVE** 

Date: 21-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.



LAB: (505) 325-1556

Date: 21-Oct-98

#### ANALYTICAL REPORT

Client:

PNM - Public Service Company of NM

Work Order:

9810030

Lab ID:

9810030-02A

02A Matrix: SOIL

Project:

Jicarilla J-20

Client Sample Info: Jicarilla J-20

Client Sample ID: 9810061420; Bottom @ 12ft.

Collection Date: 10/6/98 2:20:00 PM

COC Record: 7397

Parameter	Result	PQL Q	ıal Units	DF	Date Analyzed
DIESEL RANGE ORGANICS	SW8015			Analyst: HR	
T/R Hydrocarbons: C10-C28	ND	25	mg/Kg	1	10/19/98
BTEX	SW8020A			Analyst: HR	
Benzene	ND	1	μg/Kg	1	10/16/98
Toluene	ND	2	μg/Kg	1	10/16/98
Ethylbenzene	ND	1	μg/Kg	1	10/16/98
m,p-Xylene	ND	2	μg/Kg	1	10/16/98
o-Xylene	ND	1	μg/Kg	1	10/16/98

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

and accord quantitation

Surr: - Surrogate

1 of 1



LAB: (505) 325-1556

#### ANALYTICAL REPORT

Date: 21-Oct-98

Client:

PNM - Public Service Company of NM

Work Order:

9810030

Lab ID:

**Project:** 

9810030-01A Jicarilla J-20

Matrix: SOIL

Client Sample Info: Jicarilla J-20

Client Sample ID: 9810061430; Walls @ 9ft.

Collection Date: 10/6/98 2:30:00 PM

COC Record: 7397

Parameter	Result	PQL	Qual Units	DF	Date Analyzed
DIESEL RANGE ORGANICS	SW8015				Analyst: HR
T/R Hydrocarbons: C10-C28	ND	25	mg/Kg	1	10/19/98
BTEX	SW8020A				Analyst: HR
Benzene	ND	1	μg/Kg	1	10/16/98
Toluene	ND	2	μg/Kg	1	10/16/98
Ethylbenzene	1	1	μg/Kg	1	10/16/98
m,p-Xylene	ND	2	μg/Kg	1	10/16/98
o-Xylene	ND	1	μg/ <b>Kg</b>	1	10/16/98

Qualifiers:

PQL - Practical Quantitation Limit

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S - Spike Recovery outside accepted recovery limits

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E - Value above quantitation range

Surr: - Surrogate

# JICARILLA APACHE TRIBE ENVIRONMENTAL PROTECTION OFFICE P.O. BOX 507 DULCE, NEW MEXICO 87528

SUBMIT 1 COPY TO NATURAL RESOURCE DEPT AND OIL GAS ADMINISTRATION

#### **ON-SITE SOIL REMEDIATION REPORT**

Operator: PNM Gas Services ( Bar/ing land )	Telephone: 324-3764
Address: 603 W. Elm Street Farmington, NM 87401	
Facility or Well Name: Jicavilla J-20	
Location: Unit: P Sec. 26 T.	26 N R. 5 W County Rio Arriba
Land Type: Jicarilla Apache	
Date Remediation Started: 10/6/98  Remediation Method: Landfarmed X  Composted Other	Date Completed: 40/6/95 /2/15/98 PD Approx. cubic yards 96 ys.d.
Depth to Ground Water: (pts.)	Final Closure Sampling:
Distance to an Ephemeral Stream: (pts.)	Sampling Date: 1//1/98 Time ///6
Distance to Nearest Lake, Playa, (pts.) or Watering Pond:	Sampling Results:
Wellhead Protection Area: (pts.)	Field Headspace (ppm) 13.1 pm  TPH (ppm) 28 Method 7 p.H. 8013
Distance to Surface Water: (pts.)  Ranking Score (Total Points):	Other
I HEREBY CERTIFY THAT THE INFORMATION ABOVE IS TRUE AND	COMPLETE TO THE BEST OF MY KNOWLEDGE AND BELIEF
DATE 12/2/95 PRINTED N	AME Ray Burnbam GAVY COOK
SIGNATURE Have Cook AN	D TITLE Environmental Technician II
AFTER REVIEW OF THE SOIL REMEDIATION INFORMATION, ON-SI JICARILLA APACHE TRIBE PIT CLOSURE ORDINANCE	TE REMEDIATION APPROVED IN ACCORDANCE TO THE
APPROVED: YES NO (REASON)	we as Backfull
SIGNED: La CMa DA	TE: 17-15-98

Jicavilla J-20 BR Jec. 21, 26N, JW, P Landfarmed: On location

10/6/98

TN

4.9 ppm 4.1ppm 3.6 ppm

2"-12" depth 50:1 upon head space = 13-1 ppm Ø Jiz. J-20 well head

Not to scale



LAB: (505) 325-1556

## On Site Technologies, LTD.

**CLIENT:** 

PNM - Public Service Company of NM

Project:

Jicarilla Pit Remediation

Lab Order:

9811056

**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: 24-Nov-98

Client:

PNM - Public Service Company of NM

Work Order:

9811056

9811056-03A

Matrix: SOIL

Lab ID: Project:

Jicarilla Pit Remediation

Client Sample Info: Jicarilla J-20 LF

Client Sample ID: 9811161116 6pt Composite

Collection Date: 11/16/98 11:16:00 AM

COC Record: 7402

Parameter	Result	PQL	Qual Units	DF	Date Analyzed
DIESEL RANGE ORGANICS T/R Hydrocarbons: C10-C28	<b>SV</b> 28	<b>V8015</b>	mg/Kg	1	Analyst: <b>HR</b> 11/23/98

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