

Denny E. Faust
DEPUTY OIL & GAS INSPECTOR

JICARILLA APACHE TRIBE

ENVIRONMENTAL PROTECTION OFFICE

FEB 08 1999

P.O. BOX 507
DULCE, NEW MEXICO 87528

SUBMIT 1 COPY TO
NATURAL
RESOURCE DEPT
AND OIL GAS
ADMINISTRATION

Approved
PIT REMEDIATION AND CLOSURE REPORT

Operator: PNM Gas Services (BROG) Telephone: 324-3764
Address: 603 W. Elm Street Farmington, NM 87401
Facility or Well Name: Jicarilla J-2
Location: Unit: M Sec. 35 T. 26 N R. 5 W County Rio Arriba
Pit Type: Separator X Dehydrator Other
Land Type: Jicarilla Apache

Pit Location: Pit dimensions: length 15' width 15' depth 3'
(Attach diagram) Reference: wellhead X other
Footage from reference: 66'
Direction from reference: Straight Degrees East North
West of South X

Depth to Ground Water:

(Vertical distance from contaminants
to seasonal high water elevation of
ground water)

Less than 50 feet	(20 points)	<u> </u>
50 feet to 99 feet	(10 points)	<u> </u>
Greater than 100 feet	(0 points)	<u> </u>

Wellhead Protection Area:

(Less than 200 feet from a private domestic
water source, or, less than 1,000 feet from all
other water sources)

Yes	(20 points)	<u> </u>
No	(0 points)	<u> </u>

Distance to Surface Water:

(Horizontal distance to perennial
lakes, ponds, rivers, streams,
creeks, irrigation canals and ditches)

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Less than 200 feet	(20 points)	<u> </u>
200 feet to 1,000 feet	(10 points)	<u> </u>
Greater than 1,000 feet	(0 points)	<u> </u>

Distance to Ephemeral Stream (dry wash):

(Horizontal distance to all downgradient
streams having a width of at least 10
feet)

Less than or equal to 100 feet	(10 points)	<u> </u>
Greater than 100 feet	(0 points)	<u> </u>

**Distance to Nearest Lake, Playa, or Watering
Pond:**

(Horizontal distance to all downgradient
lakes, playas, and livestock or wildlife
water ponds)

Less than or equal to 100 feet	(10 points)	<u> </u>
Greater than 100 feet	(0 points)	<u> </u>

RANKING SCORE (TOTAL POINTS):

Date Remediation Started: 10/1/98 Date Completed: 1/6/99

Remediation Method: Excavation X Approx. Cubic Yards 253

(Check all appropriate sections)

Landfarmed X Amount Landfarmed (cubic yds): 253

Other _____

Remediation Location: Onsite X Offsite _____

(i.e., landfarmed onsite, name and location of offsite facility)

General Description of Remedial Action:

Removed contaminated soil from all four side walls and pit bottom as to get a below 100ppm head space reading.
Excavation size: 19'x24'x15'

Ground Water Encountered: No X Yes _____ Depth _____

Final Pit Closure Sampling:

Sample Location North, East, South, West side walls 14'
Bottom 15'

(if multiple samples, attach sample result and diagram of sample locations and depths.)

Sample depth 15

Sample date 10/1/98 Sample time 1130
1131

Sample Results

Soil: Benzene (ppm) _____ Water: Benzene (ppb) _____

Total BTEX (ppm) _____ Toluene (ppb) _____

Field headspace (ppm) 1.4 ppm (bottom)
7.0 (path wall) Ethylbenzene (ppb) _____

TPH ND ppm Method 8015 Total Xylenes (ppb) _____

Ground Water Sample: Yes _____ No X (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 Roy Burnham AND TITLE Environmental Technician II

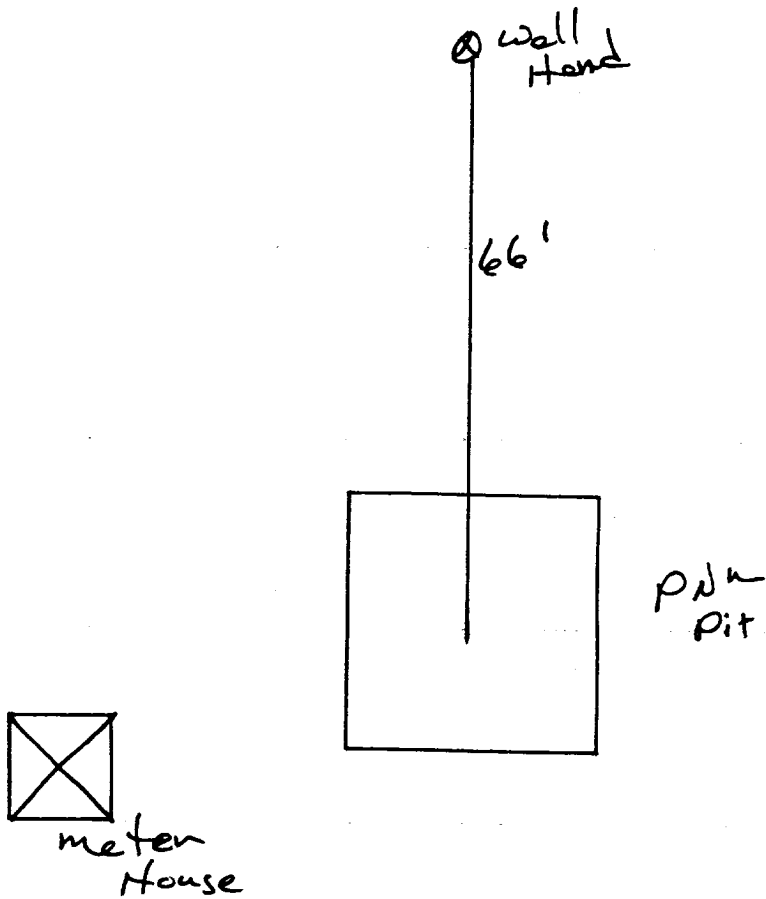
AFTER REVIEW OF THE PIT CLOSURE INFORMATION, PIT CLOSURE IS APPROVED IN ACCORDANCE TO JICARILLA APACHE TRIBE PIT CLOSURE ORDINANCE.

APPROVED: YES X NO _____ (REASON): _____

SIGNED: Ken C Mamm DATE: 11-2-98

Jicarilla J-2
Sec. 35 T26N RSW unit M
BROG

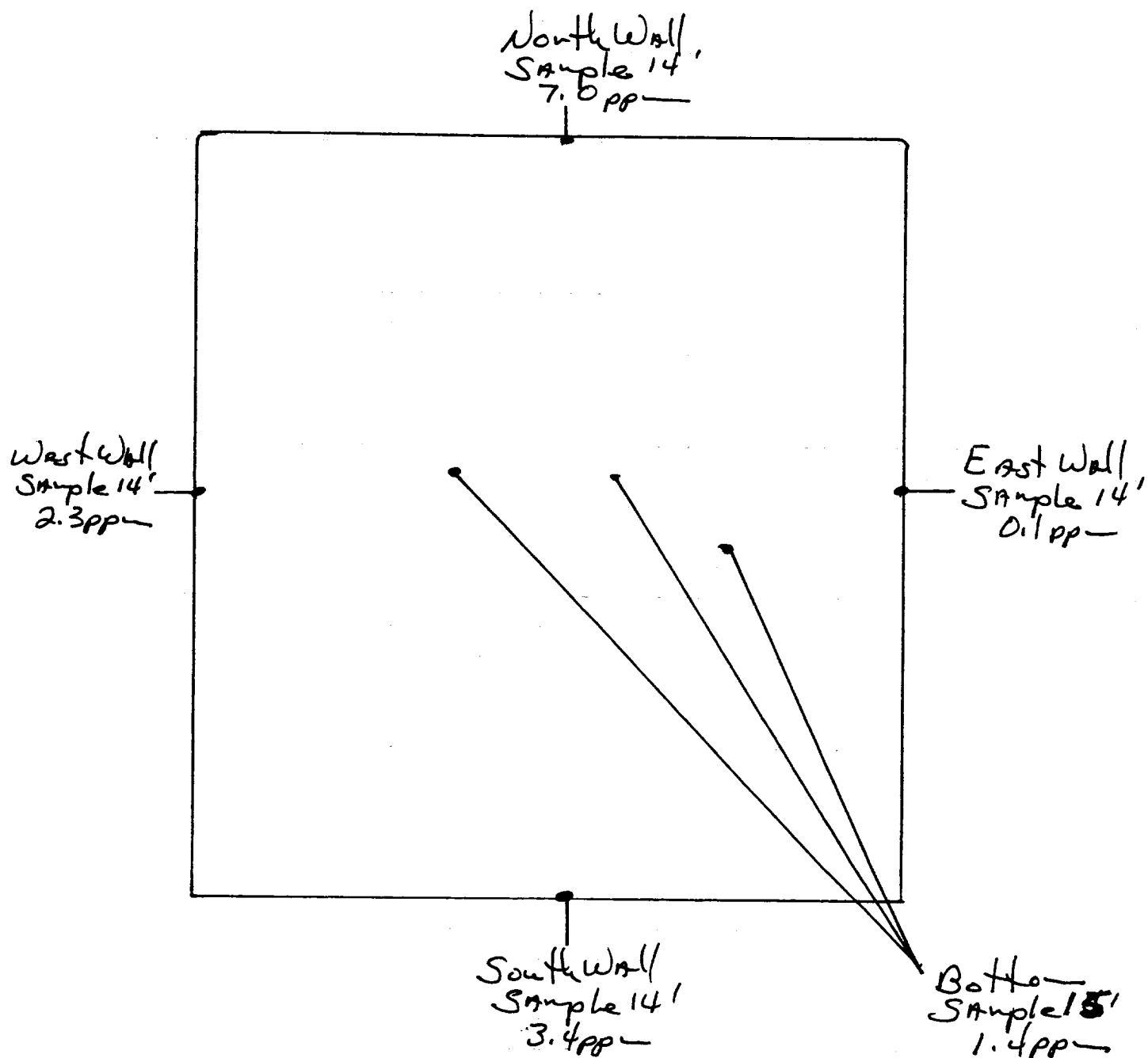
Site Drawing



Jicarilla J-2
Sec. 35 T26N R5W U1M
BROG

Excavation Drawing

19' x 24' x 15'



OFF: (505) 325-5667



LAB: (505) 325-1556

ANALYTICAL REPORT

Date: 15-Oct-98

Client:	PNM - Public Service Company of NM	Client Sample Info:	Jicarilla J-2
Work Order:	9810003	Client Sample ID:	9810011131; 3pt. Comp. Bottom
Lab ID:	9810003-06A	Matrix:	SOIL
Project:	Jicarilla Pit Remediation	Collection Date:	10/1/98 11:31:00 AM
		COC Record:	7507

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
DIESEL RANGE ORGANICS		SW8015				Analyst: HR
T/R Hydrocarbons: C10-C28	ND	25		mg/Kg	1	10/6/98

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: 15-Oct-98

Client:	PNM - Public Service Company of NM	Client Sample Info:	Jicarilla J-2
Work Order:	9810003	Client Sample ID:	9810011130; 4pt. Comp. Walls
Lab ID:	9810003-05A	Matrix:	SOIL
Project:	Jicarilla Pit Remediation	Collection Date:	10/1/98 11:30:00 AM
		COC Record:	7507

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
DIESEL RANGE ORGANICS		SW8015				Analyst: HR
T/R Hydrocarbons: C10-C28	ND	25		mg/Kg	1	10/6/98

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
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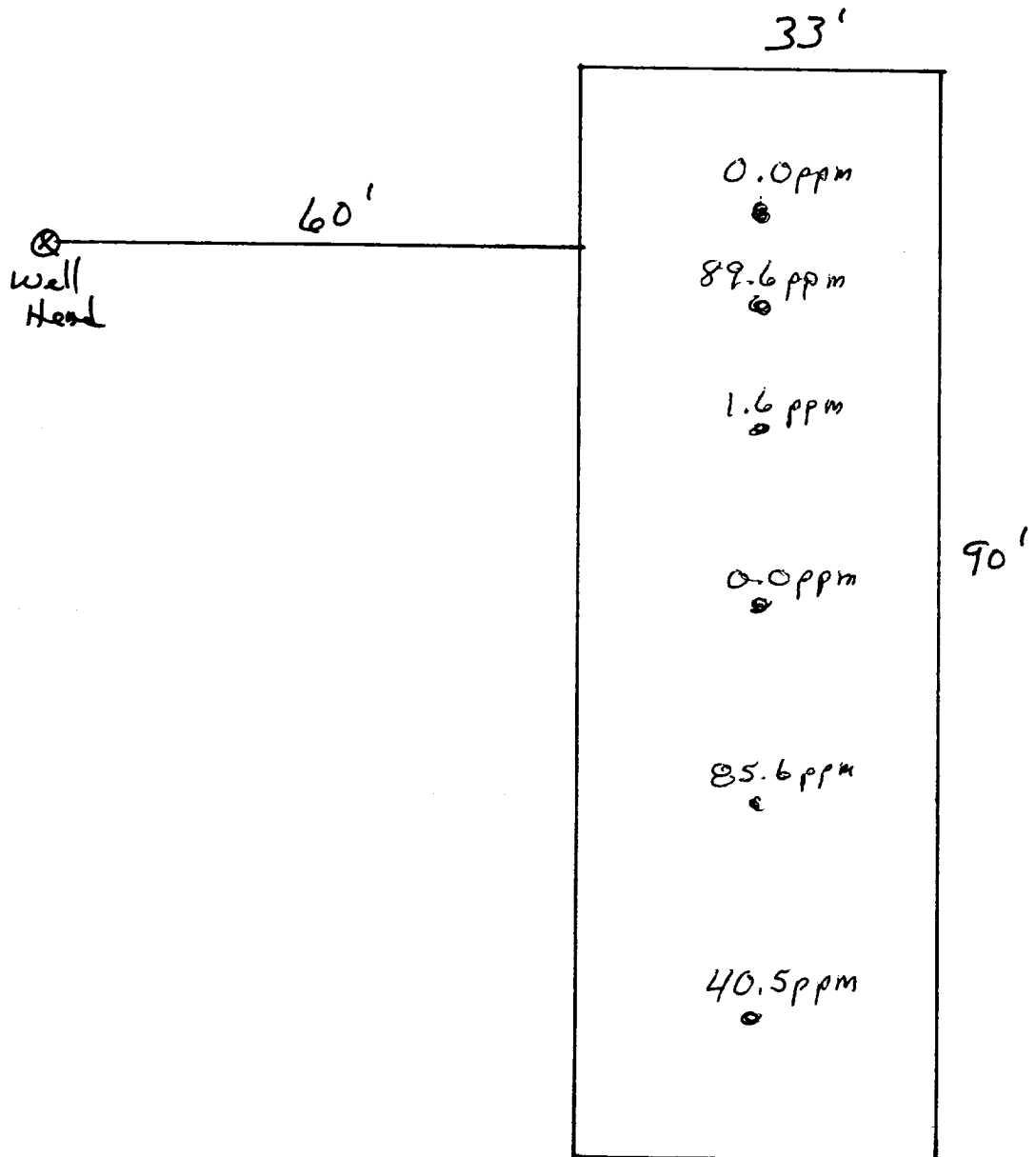
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RESOURCE DEPT
AND OIL GAS
ADMINISTRATION

ON-SITE SOIL REMEDIATION REPORT

Operator: PNM Gas Services (<u>BROG</u>) Telephone: <u>324-3764</u>	
Address: <u>603 W. Elm Street Farmington, NM 87401</u>	
Facility or Well Name: <u>Jicarilla J-2</u>	
Location:	Unit: <u>M</u> Sec. <u>35</u> T. <u>26</u> N R. <u>5</u> W County <u>Rio Arriba</u>
Land Type: <u>Jicarilla Apache</u>	
Date Remediation Started: <u>10/1/98</u> Date Completed: <u>11/16/98</u>	
Remediation Method: Landfarmed <u>X</u> Approx. cubic yards <u>253</u>	
Composted <u> </u> Other <u> </u>	
Depth to Ground Water: (pts.) <u>0</u>	Final Closure Sampling: Sampling Date: <u>11/11/98</u> Time <u>1317</u> Sampling Results: Field Headspace (ppm) <u>89.6</u> TPH (ppm) <u>ND</u> Method <u>SCVS</u> Other <u> </u>
Distance to an Ephemeral Stream: (pts.) <u>0</u>	
Distance to Nearest Lake, Playa, or Watering Pond: (pts.) <u>0</u>	
Wellhead Protection Area: (pts.) <u>0</u>	
Distance to Surface Water: (pts.) <u>0</u>	
Ranking Score (Total Points): <u>0</u>	
I HEREBY CERTIFY THAT THE INFORMATION ABOVE IS TRUE AND COMPLETE TO THE BEST OF MY KNOWLEDGE AND BELIEF	
DATE <u>1/5/99</u> PRINTED NAME <u>Roy Burnham</u>	
SIGNATURE <u>Roy Burnham</u> AND TITLE <u>Environmental Technician II</u>	
AFTER REVIEW OF THE SOIL REMEDIATION INFORMATION, ON-SITE REMEDIATION APPROVED IN ACCORDANCE TO THE JICARILLA APACHE TRIBE PIT CLOSURE ORDINANCE	
APPROVED: YES <u>X</u> NO <u> </u> (REASON) <u>Use as backfill.</u>	
SIGNED: <u>Karena L. Callado</u> DATE: <u>01-06-99</u>	

Jicarilla J-2
Sec. 35 T26N R5W Unit m
BROG

Landfarm Drawing



OFF: (505) 325-5667



LAB: (505) 325-1556

On Site Technologies, LTD.

Date: 19-Nov-98

CLIENT: PNM - Public Service Company of NM
Project: Jicarilla Pit Remediation
Lab Order: 9811038

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.

OFF: (505) 325-5667



LAB: (505) 325-1556

ANALYTICAL REPORT

Date: 19-Nov-98

Client:	PNM - Public Service Company of NM	Client Sample Info:	Jicarilla J-2 LF
Work Order:	9811038	Client Sample ID:	9811111317; 6pt. Comp.
Lab ID:	9811038-03A	Matrix:	SOIL
Project:	Jicarilla Pit Remediation	Collection Date:	11/11/98 1:17:00 PM
		COC Record:	7400

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
DIESEL RANGE ORGANICS		SW8015				Analyst: DC
T/R Hydrocarbons: C10-C28	ND	25		mg/Kg	1	11/16/98

Qualifiers:	PQL - Practical Quantitation Limit	S - Spike Recovery outside accepted recovery limits
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