

Deninger
DEPUTY OIL & GAS INSPECTOR

MAR 28 1997

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

Approved

PIT REMEDIATION AND CLOSURE REPORT

Operator: BURLINGTON RESOURCES Telephone: (505) 326-9700

Address: P.O. BOX 4289, FARMINGTON, NM 87499-4289

Facility or Well Name: Jicarilla West #8 DP# 53087 B-1

Location: Unit or Qtr/Qtr Sec H Sec 26 T 26 R 05 County Rio Arriba

Pit Type: Separator ☐ Dehydrator ☐ Other Blow Pit

Land Type: Jicarilla Apache

P location: Pit dimensions: length 21' width 14' depth 2'
(A diagram)

Reference: wellhead ☒ other ☐

Footage from reference: 98'

Direction from reference: 50 Degrees ☐ East North ☒
of
☐ West ☐ South

Depth To Groundwater:

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

Less than 50 feet (20 points)
50 feet to 99 feet (10 points)
Greater than 100 feet (0 points) 10

Distance to an Ephemeral Stream

(Downgradient dry wash greater than
ten feet in width)

Less than 100 feet (10 points)
Greater than 100 feet (0 points) 10

Distance to Nearest Lake, Playa, or Watering Pond

(Downgradient lakes, playas and
livestock or wildlife watering ponds)

Less than 100 feet (10 points)
Greater than 100 feet (0 points) 0

Wellhead Protection Area:

(Less than 200 feet from a private
domestic water source, or: less than
1000 feet from all other water sources)

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Yes (20 points)
No (0 points) 0

OIL CON. DIV.
DIST. 3

Distance To Surface Water:

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

Less than 100 feet (20 points)
100 feet to 1000 feet (10 points)
Greater than 1000 feet (0 points) 10

Date Remediation Started: 8-27-96 Date Completed: _____
Remediation Method: Excavation ☒ Approx. cubic yards 58
Check all appropriate (optional) Landfarmed ☒ Insitu Bioremediation _____
Other _____

Remediation Location: Onsite ☒ Offsite _____
(i.e. landfarmed onsite, name and location of offsite facility)

General Description of Remedial Action: Excavated contaminated material to solid sandstone

Groundwater Encountered: No ☒ Yes _____ Depth _____

Final Pit: Sample location See pit closure verification
Closure Sampling: Sheet
(if multiple samples, attach sample results and diagram of sample locations and depths) Sample depth 6 Ft + 4 Ft
Sample date 8-27-96 Sample time 1200

Sample Results

Soil: Benzene (ppm)	<u>5.6</u>	Water: Benzene (ppb)	_____
Total BTEX (ppm)	<u>373.6</u>	Toluene (ppb)	_____
Field Headspace (ppm)	<u>200</u>	Ethylbenzene (ppb)	_____
TPH (ppm)	<u>310</u>	Total Xylenes (ppb)	_____

Groundwater Sample: Yes _____ No ☒ (If yes, attach sample results)

I HEREBY CERTIFY THAT THE INFORMATION ABOVE IS TRUE AND COMPLETE TO THE BEST OF MY KNOWLEDGE AND BELIEF

DATE 8/27/96 PRINTED NAME CRAIG A. BARK
SIGNATURE Craig A. Bark AND TITLE Environmental Representative

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

APPROVED: YES ☒ NO _____ (REASON) Spray w/antacids / Conditions

SIGNED: Gabe J. [Signature] DATE: 9/9/96

BURLINGTON RESOURCES

Pit #1

PIT CLOSURE VERIFICATION SHEET

Location: Picarilla West #8 DP# 53087B-1 Lease No. No lease #
 Contractor: Phillips Env Consultant Initials: JEP
 Date Started: 8-27-96 Date Finished:

Excavation & Soil Information

Dimensions (approx.): 21' FT. x 15' FT. x 6'4' FT. Deep Cubic Yards: (bcy) 58
 Soil Remediated ☒ On Site ☐ Off Site If off site name location (s)

PIT PERIMETER	PIT PROFILE

OVM Results:									
Sample ID	1	2	3	4	5	6	7	8	
Headspace PID (ppm)	225	155	237	210	160				
Sample ID	9	10	11	12	13	Comp 1	Comp 2	Comp 3	
Headspace PID (ppm)						200			

Laboratory Results:				
Sample ID	m6-53087B-1-2-V			
BTEX RM8020 (ppm)	373.6			
TPH RM8015 (ppm)	310			

Zenon Environmental Laboratory - Certificate of Analysis

Date Sampled: 96/08/26 96/08/27 96/08/27

Component
BTEX via SW846 Method 8260

mg/kg	0.18	0.47	5.6
mg/kg	0.18	0.47	5.6

"	0.84	-8.7	87
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"	0.95	5.4	16
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"	3.8	72	220
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"	1.3	19	45
"			

%

96 89 94

109 151* 97

100 116 113

(1)

(2)

mg/kg	<	58	310
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%

73 112 61

Client: Philip Environmental Inc. Project: 16256

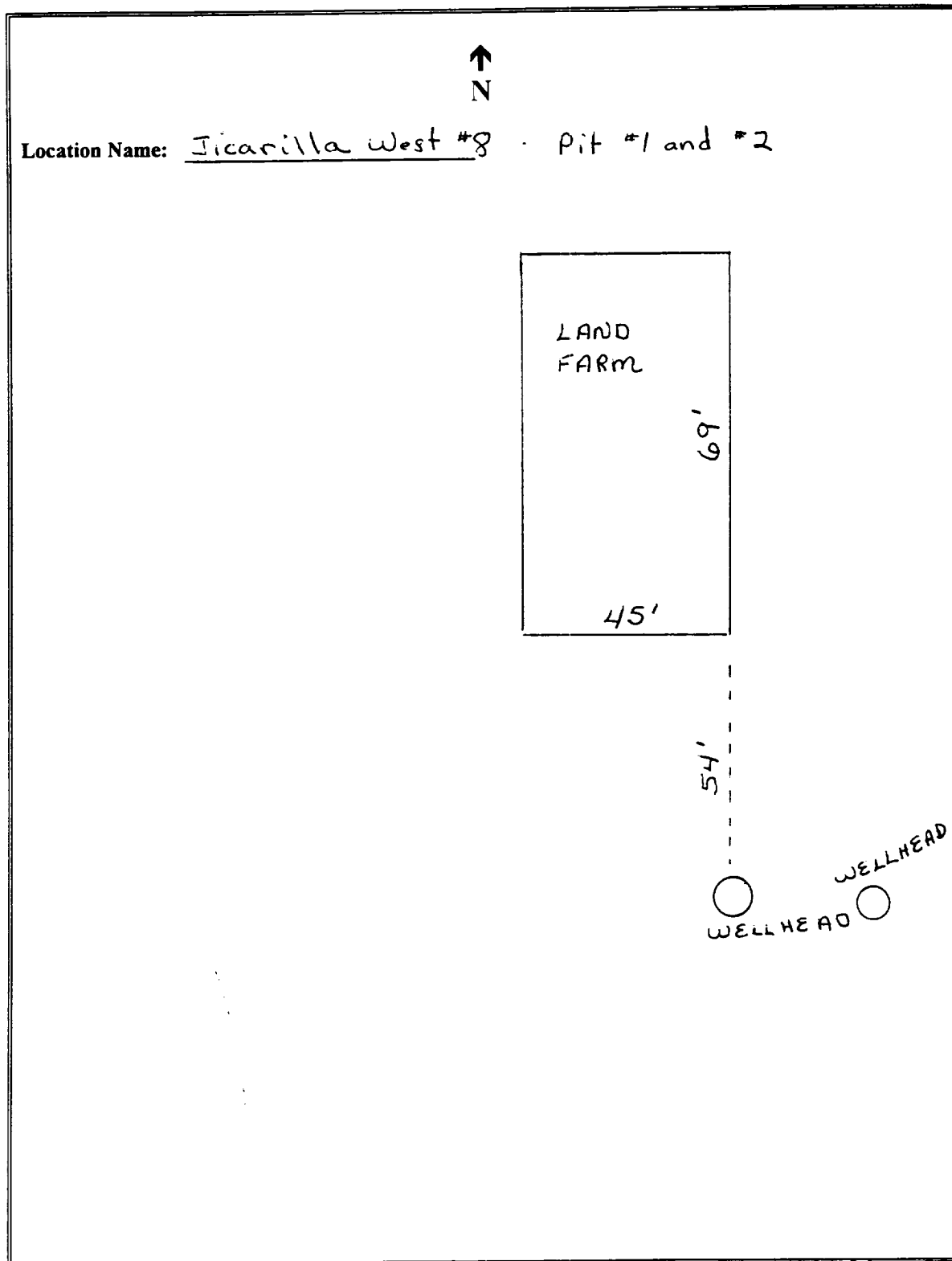
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ON-SITE SOIL REMEDIATION REPORT

Operator: <u>BURLINGTON RESOURCES</u>		Telephone: <u>(505) 326-9700</u>	
Address: <u>P.O. BOX 4289, Farmington, NM 87499-4289</u>			
Facility or Well Name: <u>Jicarilla West #8</u>			
Location:		Unit: <u>H</u> Sec. <u>06</u> T. <u>26</u> N R. <u>05</u> W County <u>Rio Arriba</u>	
Land Type: <u>Jicarilla Apache</u>			
Date Remediation Started: <u>8-27-96</u>		Date Completed: _____	
Remediation Method: <u>Landfarmed</u> ☒		Approx. cubic yards <u>124</u>	
<u>Composted</u> ☐		<u>Other</u> _____	
Depth to Ground Water: (pts.) <u>10</u>		Final Closure Sampling:	
Distance to an Ephemeral Stream: (pts.) <u>10</u>		Sampling Date: <u>10-7-96</u> Time <u>10:30</u>	
Distance to Nearest Lake, Playa, or Watering Pond: (pts.) <u>0</u>		Sampling Results:	
Wellhead Protection Area: (pts.) <u>0</u>		Field Headspace (ppm) <u>13.4</u>	
Distance to Surface Water: (pts.) <u>10</u>		TPH (ppm) <u>51</u> Method <u>8015</u>	
Ranking Score (Total Points): <u>30</u>		Other _____	
Sample No. <u>m6-530878-2-LF</u>			
I HEREBY CERTIFY THAT THE INFORMATION ABOVE IS TRUE AND COMPLETE TO THE BEST OF MY KNOWLEDGE AND BELIEF			
DATE <u>10/16/96</u>		PRINTED NAME <u>Guy L Garretson</u>	
SIGNATURE <u>Guy L Garretson</u>		AND TITLE <u>Lease Operator</u>	
AFTER REVIEW OF THE SOIL REMEDIATION INFORMATION, ON-SITE REMEDIATION APPROVED IN ACCORDANCE TO THE JICARILLA APACHE TRIBE PIT CLOSURE ORDINANCE			
APPROVED: YES ☒ NO ☐ (REASON) _____			
SIGNED: <u>Gabriel [Signature]</u>		DATE: <u>10/17/96</u>	

ON-SITE SOIL REMEDIATION DIAGRAM



OFF: (505) 325-5667



LAB: (505) 325-1556

TPH - Gasoline / Diesel Range Organics

Attn: **Craig A. Bock**
 Company: **Burlington Resources**
 Address: **3535 E. 30th Street**
 City, State: **Farmington, NM 87401**

Date: **10-Oct-96**
 COC No.: **C1989**
 Sample No. **12467**
 Job No. **2-1000**

Project Name: **Burlington Resources Jicarilla Pit Closures; Landfarms**
 Project Location: **MG-G3087B-2-LF**
 Sampled by: **GG** Date: **7-Oct-96** Time: **10:30**
 Analyzed by: **DC/HR** Date: **9-Oct-96**
 Sample Matrix: **Soil**

Laboratory Analysis

Parameter	Result	Unit of Measure	Detection Limit	Unit of Measure
Gasoline Range Organics (C5 - C9)	<5.0	mg/kg	5.0	mg/kg
Diesel Range Organics (C10 - C28)	51.0	mg/kg	5.0	mg/kg
TOTAL	51.0	mg/kg		

Quality Assurance Report

ORO QC No.: **0493-STD**
 ORO QC No.: **0489-STD**

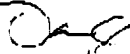
Calibration Check

Parameter	Method Blank	Unit of Measure	True Value	Analyzed Value	% Diff	Limit
Gasoline Range (C5 - C9)	<50	ppb	1,350	1,430	5.9	15%
Diesel Range (C10 - C28)	<5.0	ppm	100	109	8.8	15%

Matrix Spike

Parameter	1 - Percent Recovered	2 - Percent Recovered	Limit	%RSD	Limit
Gasoline Range (C5-C9)	98	85	(70-130)	10	20%
Diesel Range (C10-C28)	89	98	(70-130)	7	20%

Method - SW-846 EPA Method 8015A mod. - Nonthalogenated Volatile Hydrocarbons by Gas Chromatography

Approved by: 
 Date: **10/10/96**