

Denny E. Foust
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

RECEIVED
MAR 28 1997

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 119 N #2 ^{DP#} 52164A

Location: Unit or Qtr/Qtr Sec P Sec 08 T 26 R 04 County Rio Arriba

Pit Type: Separator ☒ Dehydrator ☐ Other ☐

Land Type: Jicarilla Apache

Pit location: Pit dimensions: length 10', width 10.5', depth 3'
(Sketch diagram)

Reference: wellhead ☒, other ☐

Footage from reference: 20'

Direction from reference: 0° 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) 0

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
100 feet from all other water sources)

Yes (20 points)
No (0 points) 0

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) 0

RANKING SCORE (TOTAL POINTS): 10

OIL CON. DIV.
DIST. 3

Date Remediation Started: 8-13-96 Date Completed: 11-7-96

Remediation Method: Excavation ☒ Approx. cubic yards 340 ^{Initial} Excavation
(Check all appropriate sections) Landfarmed ☒ Insitu Bioremediation _____
Other Additional Excavation - 185

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

General Description of Remedial Action: Excavated contaminated material

Groundwater Encountered: No ☒ Yes _____ Depth 10' not encounter ground water during 2nd excavation

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 19 Ft
Sample date 8-13-96 Sample time 1500

Sample Results

Soil: Benzene (ppm)	<u>ND</u>	Water: Benzene (ppb)	_____
Total BTEX (ppm)	<u>0.0117</u>	Toluene (ppb)	_____
Field Headspace (ppm)	<u>188</u>	Ethylbenzene (ppb)	_____
TPH (ppm)	<u>ND</u>	Total Xylenes (ppb)	_____

2nd Excavation
Headspace

Spot sample
67 ppm

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 8-13-96 PRINTED NAME CRAIG A. Burt
SIGNATURE C. A. Burt 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) _____

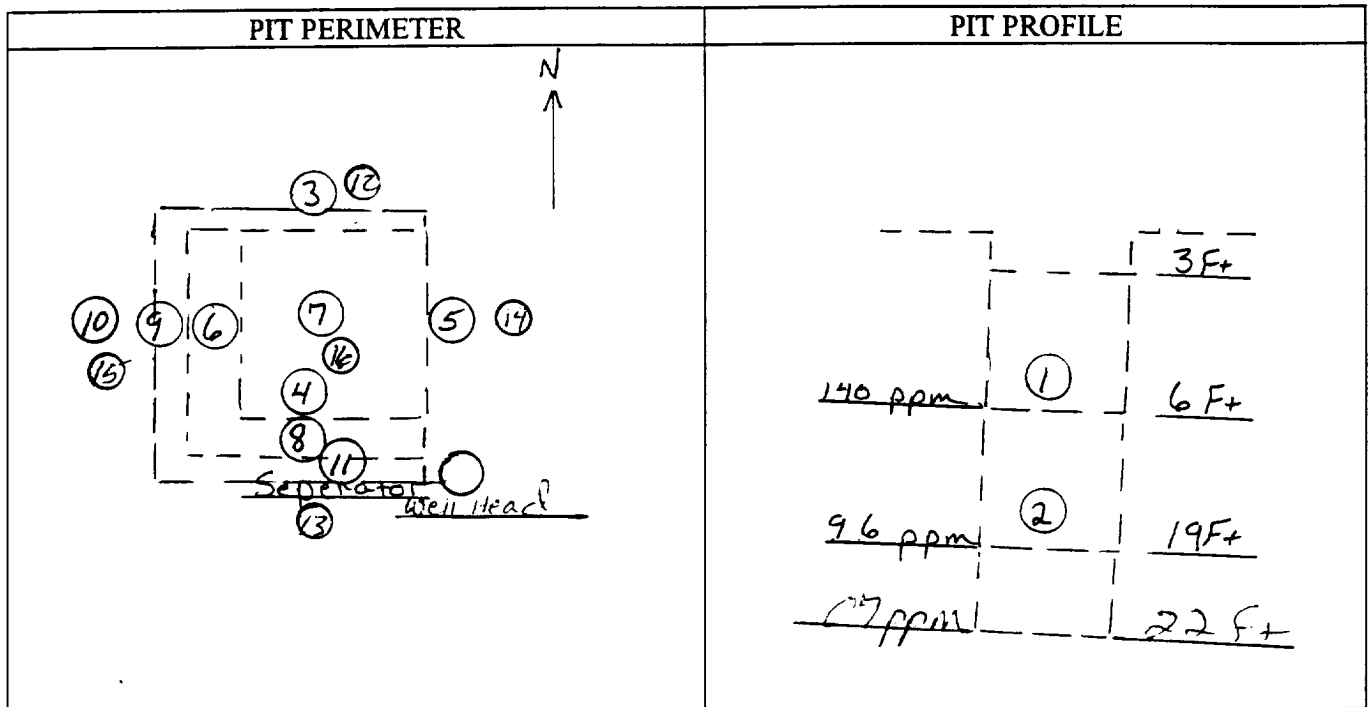
SIGNED: Patricia Jackson DATE: 10/31/96

BURLINGTON RESOURCES

PIT CLOSURE VERIFICATION SHEET

Location: Jicarilla 119A #2 Lease No. Jic. 119
 Contractor: Philip End Consultant Initials: JEP
 Date Started: 8-13-96 Date Finished: 11-17-96

Excavation & Soil Information 23' 28' 22' = 185' Additional
 Dimensions (approx.): 21' FT. x 23' FT. x 19' FT. Deep Cubic Yards: (bcy) 340
 Soil Remediated ☒ On Site ☐ Off Site If off site name location (s) _____



OVM Results:								
Sample ID	1	2	3	4	5	6	7	8
Headspace PID (ppm)	140	140	34	141	85	135	96	172
Sample ID	9	10	11	12	13	Comp 1	Comp 2	Comp 3
Headspace PID (ppm)	281	81	172	10	0.2	185	188	0.7
	1.1	1.5	1.6					
	0.2	0.7	0.7					
Laboratory Results:								
Sample ID	m6-52164A-3-V		m6-52164A-4-V					
BTEX RM 8260 (ppm)			0.0117					
TPH RM8015 (ppm)			ND					

Jicarilla 119 N * 2

8-13-96

DP# 52164A

Arrive on location @ 11:50 am

P 8-26 N. 4 W

Lateral not Line Tested - Mark Line

2R15 AFE

Write Excavation - Work Permit -

Take Pictures - # 15 - # 14

96080707480046

Conoco - 2 pu - 1 trailer

Tim A.D. -

James

Jason

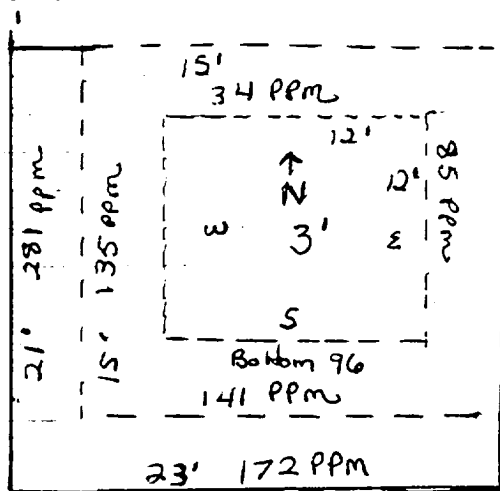
Guy

Craig
Schmidt Truck Driver

Start Excavation - 12:00 PM

Pure Sand -

Test - Dig some more



South - Sep Side

We are heading (Sun) Leaving
bags to check Head Space
Decided to use the extreme
Wait on Lab Results
check BTEX + TPH

Dig Pit 19' in Depth

Total First Run 185 ppm
2nd Run 188 ppm

Fenced Pit @ 2:50

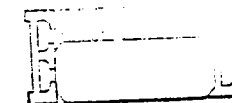
Filled out Accident Report on James Penrod

Take Pictures @ 3:05 PM

* 13 & * 12

Leave Location @ 4:00 PM

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: **30-Oct-96**
COC No.: **C3009**
Sample No. **12709**
Job No. **2-1000**

Project Name: **Meridian Oil, Inc. - Jicarilla 119N #2**
Project Location: **M6-52164A-4-V**
Sampled by: **JP**
Analyzed by: **DC/HR**
Sample Matrix: **Soil**

Date: **28-Oct-96** Time: **17:30**
Date: **30-Oct-96**

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)	<5.0	mg/kg	5.0	mg/kg
	TOTAL	<5.0		mg/kg

Quality Assurance Report

GRO QC No.: **0493-STD**
DRO QC No.: **0489-STD**

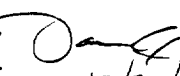
Calibration Check

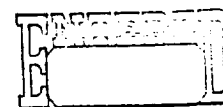
Parameter	Method Blank	Unit of Measure	True Value	Analyzed Value	% Diff	Limit
Gasoline Range (C5 - C9)	<50	ppb	1,350	1,326	1.8	15%
Diesel Range (C10 - C28)	<5.0	ppm	100	101	1.4	15%

Matrix Spike

Parameter	1- Percent Recovered	2- Percent Recovered	Limit	%RSD	Limit
Gasoline Range (C5-C9)	107	103	(70-130)	3	20%
Diesel Range (C10-C28)	110	97	(70-130)	9	20%

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

Approved by: 
Date: **10/30/96**



OFF: (505) 325-5667



LAB: (505) 325-1556

AROMATIC VOLATILE ORGANICS

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

Date: *30-Oct-96*
COC No.: *C3009*
Sample No. *12709*
Job No. *2-1000*

Project Name: *Meridian Oil, Inc. - Jicarilla 119N #2*

Project Location: *M6-52164A-4-V*

Sampled by: *JP* Date: *28-Oct-96* Time: *17:30*

Analyzed by: *DC* Date: *29-Oct-96*

Sample Matrix: *Soil*

Laboratory Analysis

Parameter	Result	Units of Measure	Detection Limit	Units of Measure
<i>Benzene</i>	<i><0.2</i>	<i>ug/kg</i>	<i>0.2</i>	<i>ug/kg</i>
<i>Toluene</i>	<i><0.2</i>	<i>ug/kg</i>	<i>0.2</i>	<i>ug/kg</i>
<i>Ethylbenzene</i>	<i>1.4</i>	<i>ug/kg</i>	<i>0.2</i>	<i>ug/kg</i>
<i>m,p-Xylene</i>	<i>9.1</i>	<i>ug/kg</i>	<i>0.2</i>	<i>ug/kg</i>
<i>o-Xylene</i>	<i>1.3</i>	<i>ug/kg</i>	<i>0.2</i>	<i>ug/kg</i>
<i>TOTAL</i>	<i>11.7</i>	<i>ug/kg</i>		

Method - SW-846 EPA Method 8020 Aromatic Volatile Organics by Gas Chromatography

Approved by: *[Signature]*
Date: *10/30/96*

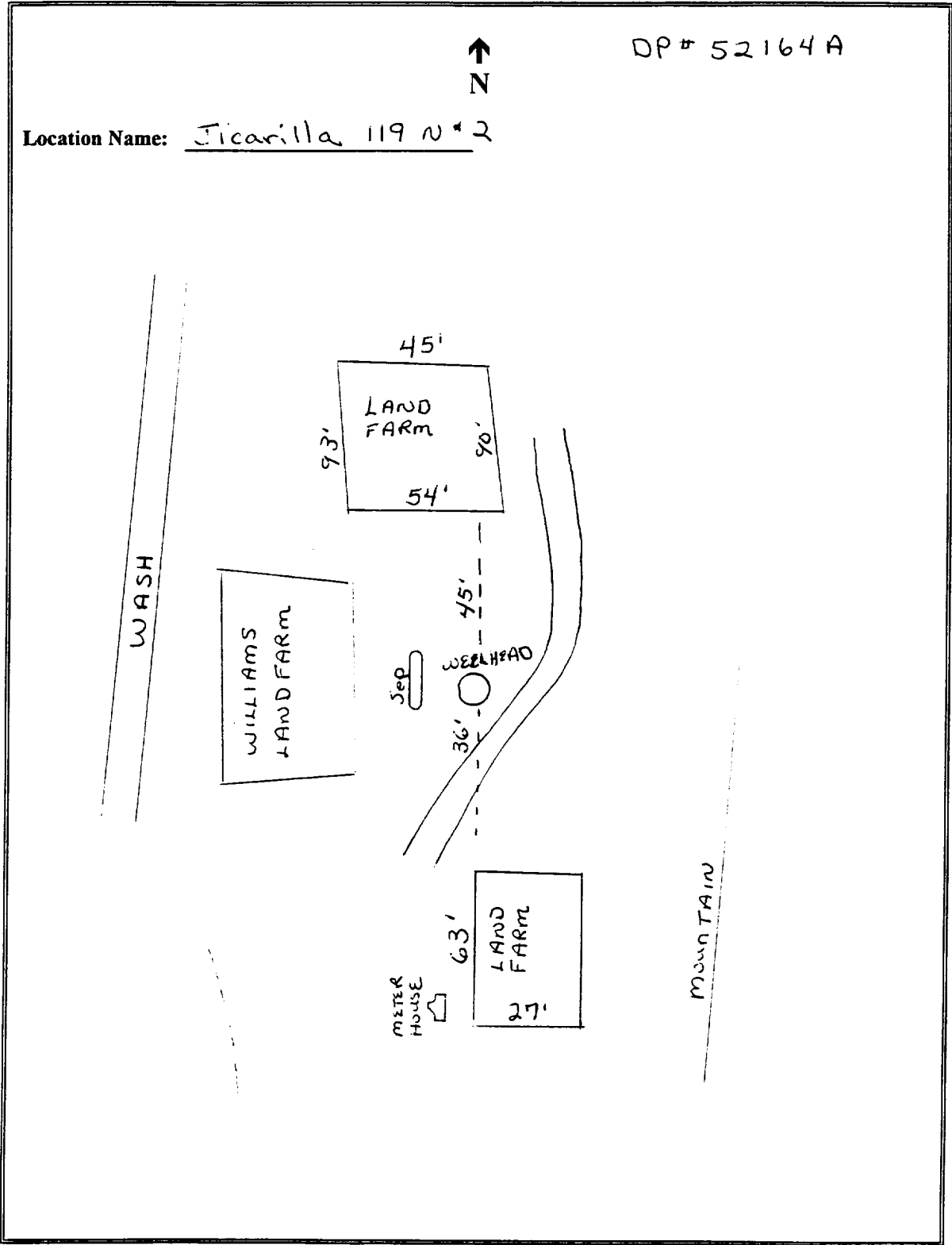
JICARILLA APACHE TRIBE
ENVIRONMENTAL
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P.O. BOX 507
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AND OIL-GAS
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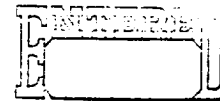
ON-SITE SOIL REMEDIATION REPORT

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 119 N #2</u>			
Location: Unit: <u>P</u> Sec. <u>08</u> T. <u>26 N</u> R. <u>04 W</u> County <u>Rio Arriba</u>			
Land Type: <u>Jicarilla Apache</u>			
Date Remediation Started: <u>8-13-96</u>		Date Completed: _____	
Remediation Method: Landfarmed ☒		Approx. cubic yards _____	
Composted ☐			
Other ☐			
Depth to Ground Water: (pts.) <u>0</u>		Final Closure Sampling: Sampling Date: <u>10/8/96</u> Time <u>13:50</u> Sampling Results: Field Headspace (ppm) <u>23.0</u> TPH (ppm) <u>5.1</u> Method <u>8015</u> Other _____ Sample No. <u>M6-52164A-2-LF</u>	
Distance to an Ephemeral Stream: (pts.) <u>10</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>10</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>Guy L Garretson</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: **11-Oct-96**
COC No.: **C1990**
Sample No. **12492**
Job No. **2-1000**

Project Name: **Burlington Resources - Jicarilla Pit Closures; Landfarm**
Project Location: **M6-52164A-2-LF**
Sampled by: **GG** Date: **8-Oct-96** Time: **13:50**
Analyzed by: **DC/HR** Date: **10-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)	5.1	mg/kg	5.0	mg/kg
	TOTAL	5.1		mg/kg

Quality Assurance Report

GRO QC No.: **0493-STD**
DRO 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	1,235	8.5	15%
Diesel Range (C10 - C28)	< 5.0	ppm	100	111	10.8	15%

Matrix Spike

Parameter	1 - Percent Recovered	2 - Percent Recovered	Limit	%RSD	Limit
Gasoline Range (C5-C9)	113	111	(70-130)	1	20%
Diesel Range (C10-C28)	116	119	(70-130)	2	20%

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

Approved by: 
Date: **10/11/96**