

ETS
9/13/96

Donna J. 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

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 89 #7 QP#29191A

Location: Unit or Qtr/Qtr Sec N Sec 13 T 27 R 03 County Rio Arriba

Pit Type: Separator ☒ Dehydrator ☐ Other ☐

Land Type: Jicarilla Apache

Pit location: Pit dimensions: length 17', width 16', depth 4'
(Attach diagram)

Reference: wellhead ☒, other ☐

Footage from reference: 122'

Direction from reference: 190° Degrees ☐ East ☒ North
☐ 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) 10
Greater than 100 feet (0 points)

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) 0

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)

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Yes (20 points)
No (0 points) 0

Distance To Surface Water:

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

OIL CON. DIV.
DIST. 3

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

SCORING SCORE (TOTAL POINTS): 20

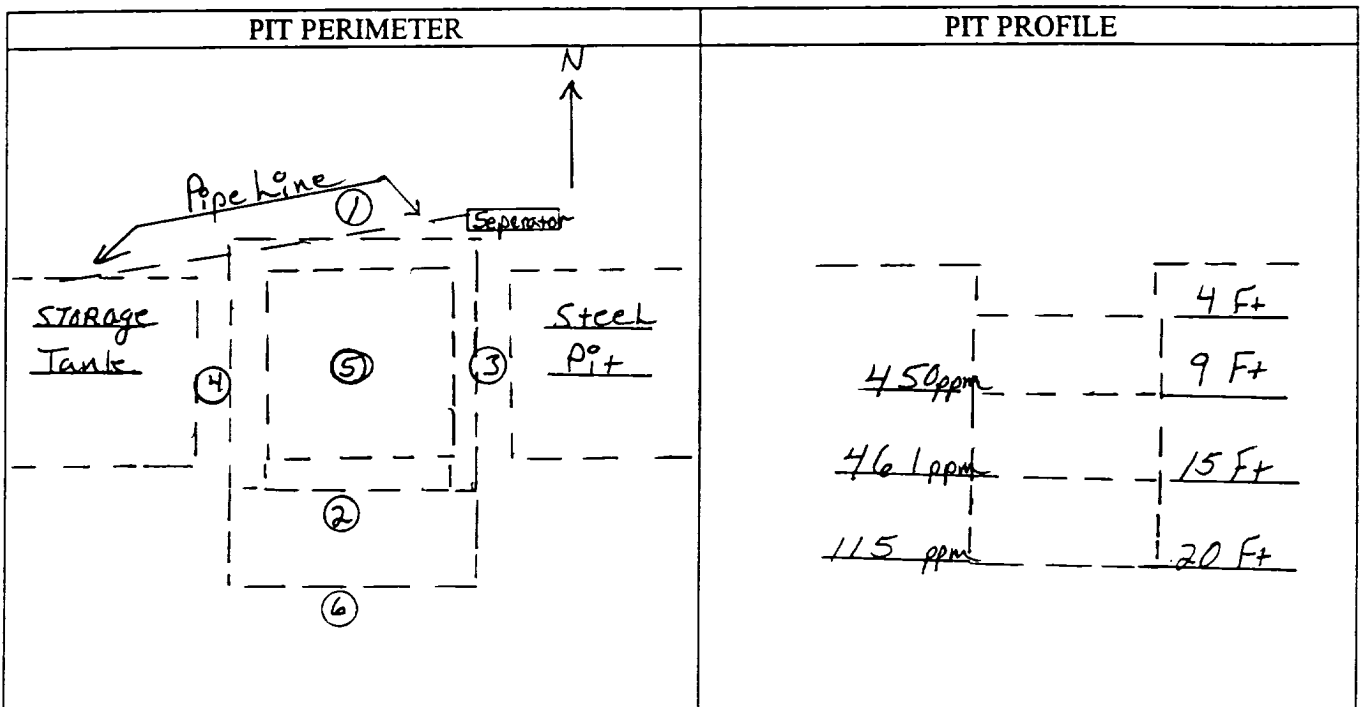
BURLINGTON RESOURCES

PIT CLOSURE VERIFICATION SHEET

Location: Picavilla 89 # 7 AP# 29191A Lease No. BLM # 09-000089
 Contractor: Philips Env Consultant Initials: JRP
 Date Started: 8-29-96 Date Finished: _____

Excavation & Soil Information

Dimensions (approx.): 33' FT. x 22' FT. x 20' FT. Deep Cubic Yards: (bcy) 538
 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)	167	597	130	71	115	13		
Sample ID	9	10	11	12	13	Comp 1	Comp 2	Comp 3
Headspace PID (ppm)						209		

Laboratory Results:			
Sample ID	m6-29191A-2-V		
BTEX RM 8260 (ppm)	123.7		
TPH RM8015 (ppm)	1469.0		

Jicmilla Tubul 89 #7 Rio Arriba
 Blow down separator
 Work Permit - 96080908310066
 1 1/2 miles from 89 SA to 89 #7 Rio

8-19-96 @
 29191A
 N-13-27-3W
 538 yds

Crude Line from Sep. to Tank

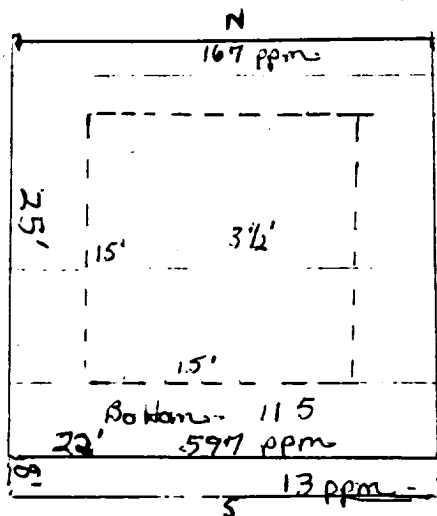
Jason
 James
 Guy
 Tim

Picture #12 1200 AM

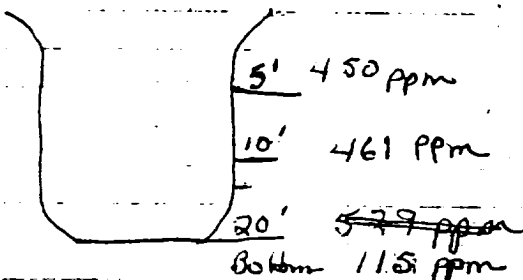
15' x 15' x 3'

Crude
 Tank

71
 ppm



E
 Separator Pit
 33-22-20



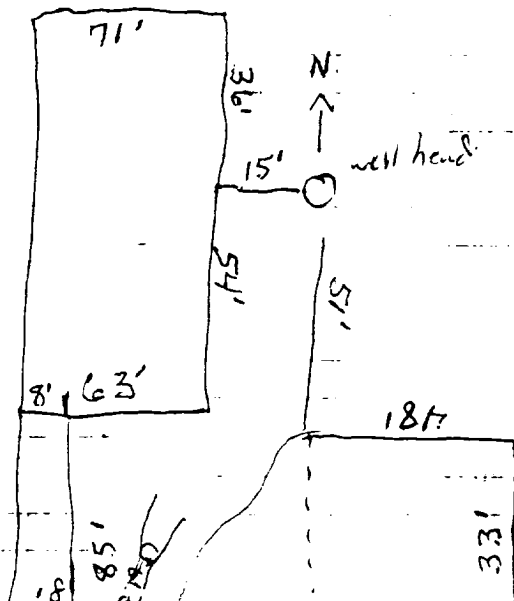
Jic 96-6A Jic 98-2A
 E-2-26-3W SW 19-263W
 29232A 29151B
 2 made 1 call at 3450 ppm
 96-10 120 C-23
 (21) (22)
 Picture #11 & 10

Composite 209 ppm
 20' Deep

1115 Ends suddenly when clean soil starts
 High Concentration than none

Check in @
 April - 619 pm

Leave location @ 5:15 pm
 46292
 311.11 5:40



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: **28-Oct-96**
COC No.: **C3003**
Sample No. **12697**
Job No. **2-1000**

Project Name: **Meridian Oil, Inc. - Jicarilla 89 #7**
Project Location: **M6-29191A-5-V; Composite Sample for 4 Walls**
Sampled by: **JP** Date: **22-Oct-96** Time: **16:00**
Analyzed by: **DC/HR** Date: **28-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)	< 5.0	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

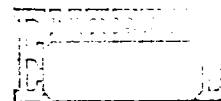
Parameter	Method Blank	Unit of Measure	True Value	Analyzed Value	% Diff	Limit
Gasoline Range (C5 - C9)	< 50	ppb	1,350	1,209	10.5	15%
Diesel Range (C10 - C28)	< 5.0	ppm	100	88	12.5	15%

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)	114	104	(70-130)	6	20%

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

Approved by: 
Date: **10/29/96**



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**

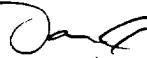
Date: **28-Oct-96**
COC No.: **C3003**
Sample No. **12697**
Job No. **2-1000**

Project Name: **Meridian Oil, Inc. - Jicarilla 89 #7**
Project Location: **M6-29191A-5-V; Composite Sample for 4 Walls**
Sampled by: **JP** Date: **22-Oct-96** Time: **16:00**
Analyzed by: **DC** Date: **25-Oct-96**
Sample Matrix: **Soil**

Laboratory Analysis

Parameter	Result	Units of Measure	Detection Limit	Units of Measure
Benzene	<0.2	ug/kg	0.2	ug/kg
Toluene	<0.2	ug/kg	0.2	ug/kg
Ethylbenzene	<0.2	ug/kg	0.2	ug/kg
m,p-Xylene	3.0	ug/kg	0.2	ug/kg
o-Xylene	1.6	ug/kg	0.2	ug/kg
TOTAL		4.5		ug/kg

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

Approved by: 
Date: **10/28/96**

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: **28-Oct-96**
 COC No.: **C3003**
 Sample No. **12696**
 Job No. **2-1000**

Project Name: **Meridian Oil, Inc. - Jicarilla 89 #7**
 Project Location: **M6-29191A-4-V; Bttom @ 26'**
 Sampled by: **JP**
 Analyzed by: **DC/HR**
 Sample Matrix: **Soil**

Date: **22-Oct-96** Time: **16:45**
 Date: **28-Oct-96**

Laboratory Analysis

Parameter	Result	Unit of Measure	Detection Limit	Unit of Measure
Gasoline Range Organics (C5 - C9)	33.7	mg/kg	5.0	mg/kg
Diesel Range Organics (C10 - C28)	9.3	mg/kg	5.0	mg/kg
TOTAL	43.0	mg/kg		

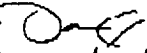
Quality Assurance ReportGRO QC No.: **0183-STD**DRO QC No.: **0409-STD****Calibration Check**

Parameter	Method Blank	Unit of Measure	True Value	Analyzed Value	% Diff	Limit
Gasoline Range (C5 - C9)	<50	ppb	1,350	1,209	10.5	15%
Diesel Range (C10 - C28)	<5.0	ppm	100	88	12.5	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)	114	104	(70-130)	6	20%

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

Approved by: 
 Date: **10/28/96**

P.O. BOX 2606 • FARMINGTON, NM 87499

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: **28-Oct-96**
COC No.: **C3003**
Sample No. **12696**
Job No. **2-1000**

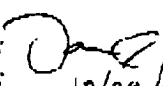
Project Name: **Meridian Oil, Inc. - Jicarilla 89 #7**
Project Location: **M6-29191A-4-V; Bottom @ 26'**
Sampled by: **JP**
Analyzed by: **DC**
Sample Matrix: **Soil**

Date: **22 Oct 96** Time: **15:45**
Date: **25-Oct-96**

Laboratory Analysis

Component	Result	Units of Measure	Detection Limit	Units of Measure
Benzene	144.6	ug/kg	0.2	ug/kg
Toluene	549.1	ug/kg	0.2	ug/kg
Ethylbenzene	368.1	ug/kg	0.2	ug/kg
m,p-Xylene	4254.1	ug/kg	0.2	ug/kg
o-Xylene	832.4	ug/kg	0.2	ug/kg
TOTAL	6140.2	ug/kg		

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

Approved by: Date: **10/29/96**

P.O. BOX 2606 • FARMINGTON, NM 87499

TECHNOLOGY BLENDING INDUSTRY WITH THE ENVIRONMENT

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

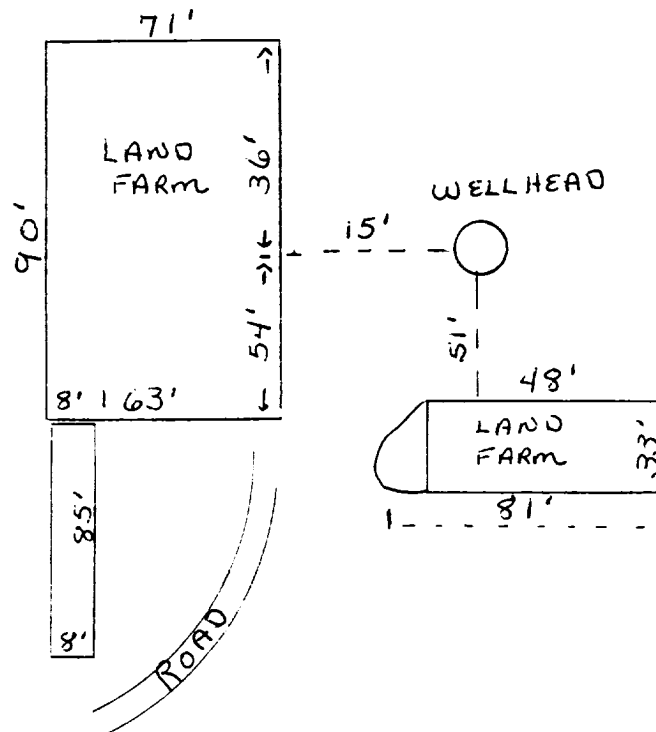
SUBMIT 1 COPY TO
NATURAL
RESOURCE DEPT
AND OIL GAS
ADMINISTRATION

ON-SITE SOIL REMEDIATION REPORT

Operator: <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 89 #7</u>			
Location: Unit: <u>N</u> Sec. <u>13</u> T. <u>27</u> N R. <u>03</u> W County <u>Rio Arriba</u>			
Land Type: <u>Jicarilla Apache</u>			
Date Remediation Started: <u>8-19-96</u>		Date Completed: _____	
Remediation Method: Landfilled ☒		Approx. cubic yards <u>538</u>	
Composted ☐		_____	
Other ☐		_____	
Depth to Ground Water: (pts.) <u>10</u>		Final Closure Sampling:	
Distance to an Ephemeral Stream: (pts.) <u>0</u>		Sampling Date: <u>10/7/96</u> Time <u>13:19</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>11.1</u>	
Distance to Surface Water: (pts.) <u>10</u>		TPH (ppm) <u>98.4</u> Method <u>8015</u>	
Ranking Score (Total Points): <u>20</u>		Other _____	
		Sample No. <u>m6-29191A-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>Andres Julian</u>		DATE: <u>10/17/96</u>	

ON-SITE SOIL REMEDIATION DIAGRAM

Location Name: Jicarilla 89 #7



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. *12470*
Job No. *2-1000*

Project Name: *Burlington Resources - Jicarilla Pit Closures; Landfarm*

Project Location: *M6-29191A-2-LF*

Sampled by: *GG* Date: *7-Oct-96* Time: *13:19*

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)	98.4	mg/kg	5.0	mg/kg
	TOTAL	98.4	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	1,430	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. - Nonhalogenated Volatile Hydrocarbons by Gas Chromatography

Approved by:

Date:

10/10/96