

MAR 28 1997

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

SUBMIT COPY TO:
NATURAL RESOURCE DEPT.
AND OIL & GAS ADMINISTRATION

PIT REMEDIATION AND CLOSURE REPORT

Land Type: Picarilla Apache

Direction from reference: 215 Degrees _____ East North X
West South _____

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

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

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

RECEIVED
MAR 25 1997

Yes (20 points)
No (0 points) o

OIL CON. ~~100~~ Less
DIET. 3 100

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

WRITING SCORE (TOTAL POINTS): 0

Date Remediation Started: 8-26-96 Date Completed: _____

Remediation Method: Excavation ☒ Approx. cubic yards 42.5

(Check all appropriate sections)

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 4.5 Ft

Sample date 8-26-96 Sample time 1545

Sample Results

Soil: Benzene (ppm) 0.18 Water: Benzene (ppb) _____

Total BTEX (ppm) 7.07 Toluene (ppb) _____

Field Headspace (ppm) 131 Ethylbenzene (ppb) _____

TPH (ppm) ND 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 8/26/96 PRINTED NAME CRAIG A. Bock

SIGNATURE C. A. Bock 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: Kenn C. Man DATE: 9-5-96

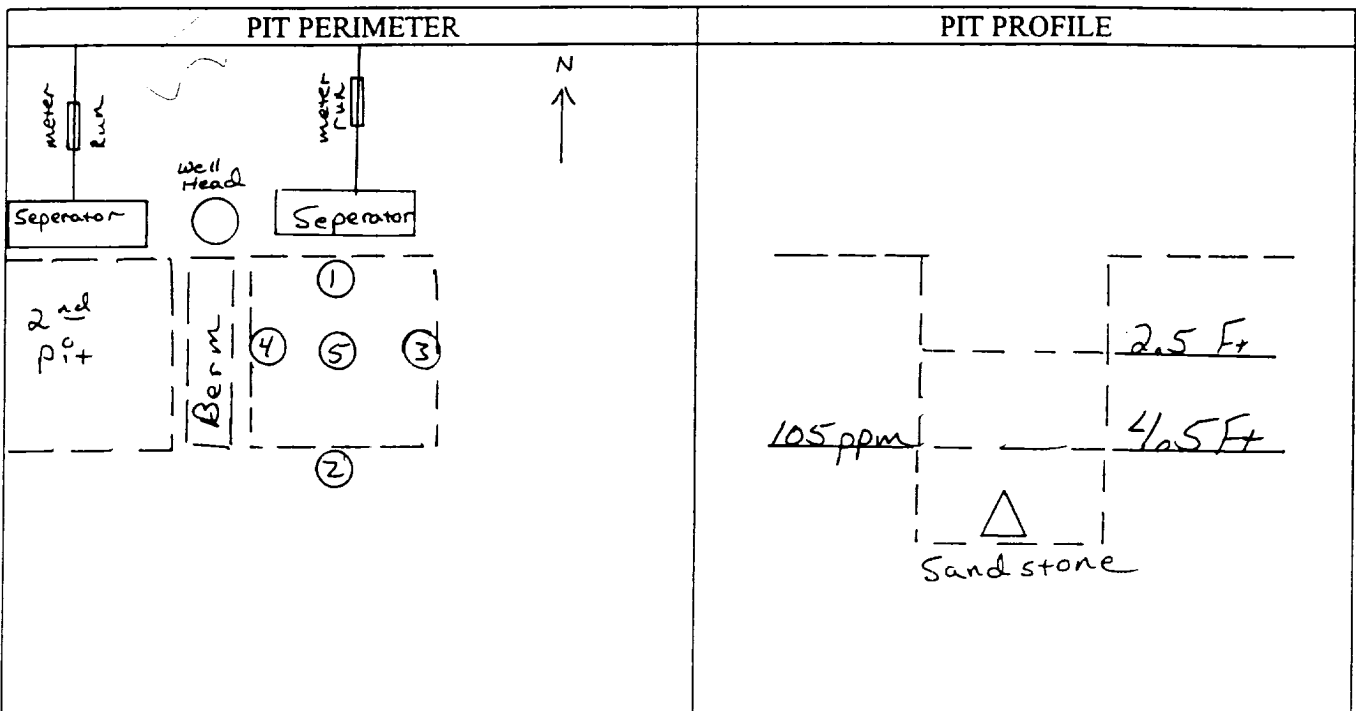
BURLINGTON RESOURCES

PIT CLOSURE VERIFICATION SHEET

Location: Acarilla 67 #11 DP# 53084A Lease No. Acarilla Tribal
 Contractor: Philip Enu Consultant Initials: PE Cont. # 67
 Date Started: 8-26-96 Date Finished:

Excavation & Soil Information

Dimensions (approx.): 17' FT. x 15' FT. x 4.5" FT. Deep Cubic Yards: (bcy) 42.5
 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)	115	95	249	89	105			
Sample ID	9	10	11	12	13	Comp 1	Comp 2	Comp 3
Headspace PID (ppm)						131		

Laboratory

Results:

Sample ID	m6-53084A-2-V		
BTEX RM8020 (ppm)	7.017		
TPH RM8015 (ppm)	ND		

9/4/96

Page 2 of

Zenon Environmental Laboratories Certificate of Analysis

✓ M6 -4- ✓ M6 2- ✓ M6 3- ✓
 Client ID: 53084A-2-V 53087B-2-2-V 53087B-1-2-V
 Zenon ID: 033790 96 033791 96 033792 96
 Date Sampled: 96/08/26 96/08/27 96/08/27

Component	MDL	Units
BTEX via SW846 Method 8260		
Benzene	0.005	mg/kg
Toluene	0.005	"
Ethylbenzene	0.005	"
m&p-Xylene	0.005	"
o-Xylene	0.005	"
Surrogate Recoveries		%
d4-1,2-Dichloroethane	96	89
d8-Toluene	109	151*
Bromofluorobenzene	100	116
		(1)
TPH via SW846 Method 8015b	19	58
Surrogate Recoveries		(2)
5- α -Androstane	73	310
		61

Client: Philip Environmental Inc. Project: 16256

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

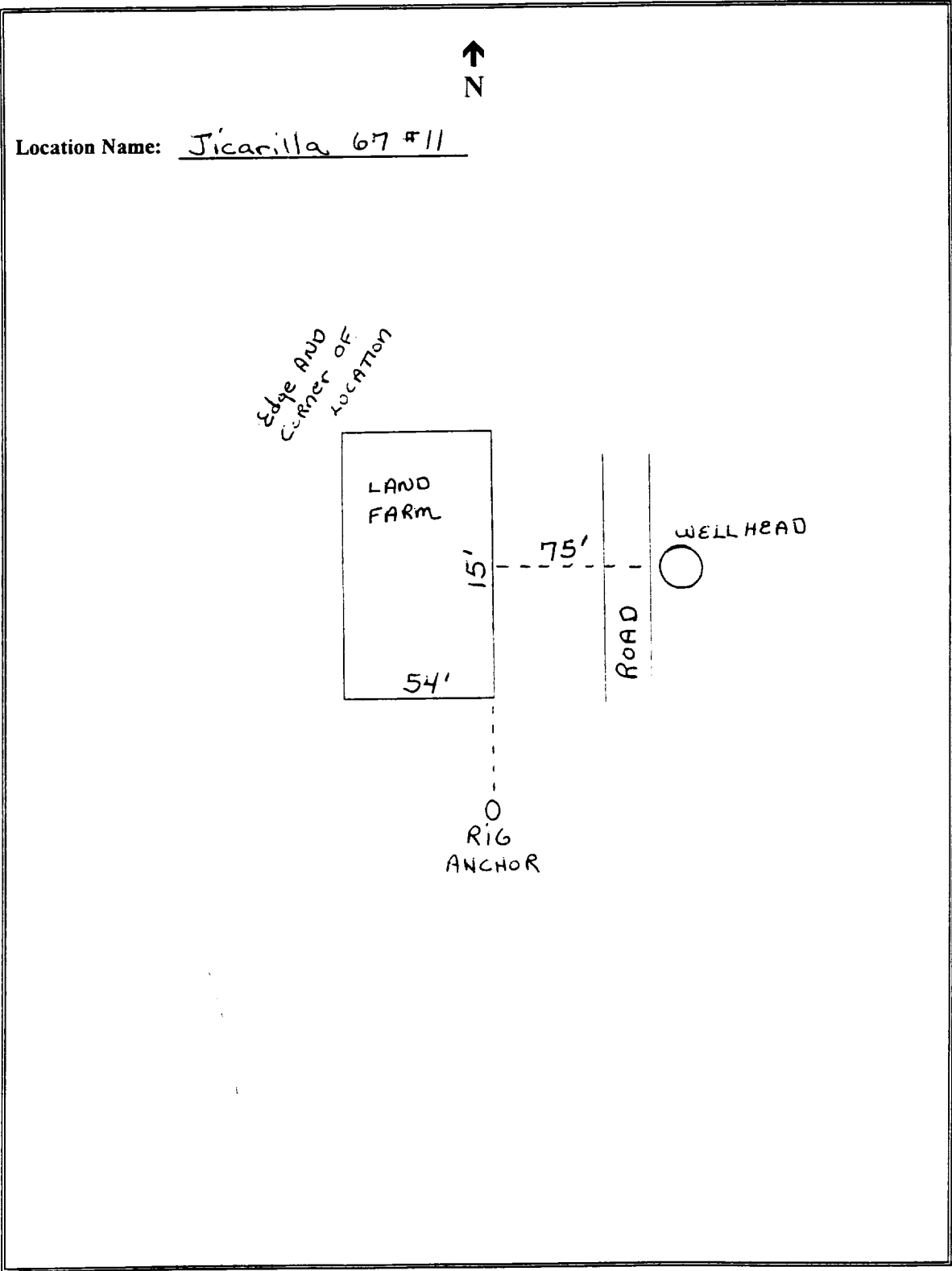
SUBMIT 1 COPY TO
NATURAL
RESOURCE DEPT
AND OIL GAS
ADMINISTRATION

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 67 # 11</u>			
Location: Unit: <u>L</u> Sec. <u>19</u> T. <u>25</u> N R. <u>05</u> W County <u>Rio Arriba</u>			
Land Type: <u>Jicarilla Apache</u>			
Date Remediation Started: <u>8-26-96</u>		Date Completed: _____	
Remediation Method: Landfirmed ☒		Approx. cubic yards <u>42.5</u>	
Composted ☐		_____	
Other ☐		_____	
Depth to Ground Water: (pts.) <u>0</u>		Final Closure Sampling: Sampling Date: <u>9-4-96</u> Time <u>3:50pm</u> Sampling Results: Field Headspace (ppm) <u>46.5</u> TPH (ppm) <u><5</u> Method <u>8015</u> Other _____ Sample No. <u>M6-53084A-1-LF</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>9-19-96</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>[Signature]</u>		DATE: <u>10-1-96</u>	

Pit #1

ON-SITE SOIL REMEDIATION DIAGRAM



OFF: (505) 325-5667



LAB: (505) 325-1556

TPH - Gasoline / Diesel Range Organics

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

Date: **7-Sep-96**
COC No.: **C1986**
Sample No. **12005**
Job No. **2-1000**

Project Name: **Burlington Resources**
Project Location: **M6-53084A-1-LF**
Sampled by: **CAB/GG**
Analyzed by: **DC**
Sample Matrix: **Soil**

Date: **4-Sep-96** Time: **15:50**
Date: **6-Sep-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	1,276	5.5	15%
Diesel Range (C10 - C28)	< 5.0	ppm	100	110	9.9	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)	98	114	(70-130)	11	20%

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

Approved by: 
Date: **9/7/96**