

Donna J. Tamm
DEPUTY OIL & GAS INSPECTOR
EN
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

INTEREST

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

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

Facility or Well Name: Licarilla 67#9 AP# 53082A

Location: Unit or Qtr/Qtr Sec I Sec 29 T 25 R 05 County Rio Arriba

Pit Type: Separator___ Dehydrator___ Other Blow Off

Land Type: Sierrita Apache

Pit dimensions: length 13', width 12.5', depth 2'

Reference: wellhead X, other _____

Footage from reference: 37'

Direction from reference: 350^a Degrees _____ East North X
_____ 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)

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)

Distance to Nearest Lake, Playa, or Watering Pond

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

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

Wellhead Protection Area:

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

Yes (20 points)
No (0 points) 0

D:- ce To Surface Water:

(i) Total distance to perennial
lak 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)

RANKING SCORE (TOTAL POINTS): 30

Remediation Started: 8-16-96 Date Completed: _____
Remediation Method: Excavation ☒ Approx. cubic yards 244
Check all appropriate (check all appropriate) Landfarmed ☒ Insitu Bioremediation _____
Other _____

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

General Description of Remedial Action: Excavated contaminated material

Groundwater Encountered: No ☒ Yes _____ Depth _____

Final Pit: Sample location See pit closure verification sheet
Closure Sampling: Sheet
(multiple samples, attach sample results and diagram of sample locations and depths)
Sample depth 15 ft
Sample date 8-16-96 Sample time 1400

Sample Results

Soil: Benzene (ppm)	<u>ND</u>	Water: Benzene (ppb)	_____
Total BTEX (ppm)	<u>ND</u>	Toluene (ppb)	_____
Field Headspace (ppm)	<u>63</u>	Ethylbenzene (ppb)	_____
TPH (ppm)	<u>ND</u>	Total Xylenes (ppb)	_____

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

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

DATE 8-16-96 PRINTED NAME CRAIG A. Beck
SIGNATURE Craig A. Beck 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: [Signature] DATE: 8/30/96

BURLINGTON RESOURCES

PIT CLOSURE VERIFICATION SHEET

Location: Aicarilla 67 # 9 Lease No. Aicarilla Tribal
 Contractor: Philips Env Consultant Initials: SP Cont. # 67
 Date Started: 8-16-96 Date Finished: 1

Excavation & Soil Information

Dimensions (approx.): 22' FT. x 20' FT. x 15' FT. Deep Cubic Yards: 244
 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)	05	60	13	03	150	63		
Laboratory Results:								
Sample ID	mg-53082A-3-Y							
BTEX RM8020 (ppm)	ND							
TPH RM8015 (ppm)	ND							

Notes:

Hit rock at 15 ft.

GAS CHROMATOGRAPHY RESULTS

TEST : EPA 8015 MODIFIED (DIRECT INJECT)
CLIENT : PHILIP ENVIRONMENTAL
PROJECT # : 16256
PROJECT NAME : MOI PITS

AEN I.D.: 608339

SAMPLE			DATE	DATE	DATE	DIL.
ID. #	CLIENT I.D.	MATRIX	SAMPLED	EXTRACTED	ANALYZED	FACTOR
01	M6-50710A-2-3-V	NON-AQ	8/15/96	8/20/96	8/20/96	1
02	M6-52301A-3-V	NON-AQ	8/16/96	8/20/96	8/20/96	1
03	M6-53082A-3-V	NON-AQ	8/16/96	8/20/96	8/20/96	1

PARAMETER	DET. LIMIT	UNITS	01	02	03
FUEL HYDROCARBONS, C6-C10	10	MG/KG	650	< 10	< 10
FL HYDROCARBONS, C10-C22	5.0	MG/KG	8.6	< 5.0	< 5.0
FULL HYDROCARBONS, C22-C36	5.0	MG/KG	< 5.0	< 5.0	< 5.0

CALCULATED SUM 660 N/A N/A

SURROGATE:
O-TERPHENYL (%) 101 100 100
SURROGATE LIMITS (66 - 151)

CHEMIST NOTES:
N/A

GAS CHROMATOGRAPHY RESULTS

TEST : BTEX, MTBE (EPA 8020)
CLIENT : PHILIP ENVIRONMENTAL
PROJECT # : 16256
PROJECT NAME : MOI PITS

AEN I.D.: 608339

SAMPLE						
ID. #	CLIENT I.D.	MATRIX	DATE SAMPLED	DATE EXTRACTED	DATE ANALYZED	DIL. FACTOR
01	M6-50710A-2-3-V	NON-AQ	8/15/96	8/21/96	8/21/96	1
02	M6-52301A-3-V	NON-AQ	8/16/96	8/21/96	8/21/96	1
03	M6-53082A-3-V	NON-AQ	8/16/96	8/21/96	8/21/96	1
PARAMETER	DET. LIMIT	UNITS	01	02	03	
BENZENE	0.025	MG/KG	0.16	< 0.025	< 0.025	
TOLUENE	0.025	MG/KG	2.6	< 0.025	< 0.025	
ETHYLBENZENE	0.025	MG/KG	0.60	< 0.025	< 0.025	
TOTAL XYLENES	0.025	MG/KG	5.3	< 0.025	< 0.025	
METHYL-t-BUTYL ETHER	0.13	MG/KG	< 0.13	< 0.13	< 0.13	

SURROGATE:

BROMOFLUOROBENZENE (%)

79

99

96

SURROGATE LIMITS (65 - 120)

CHEMIST NOTES:

N/A

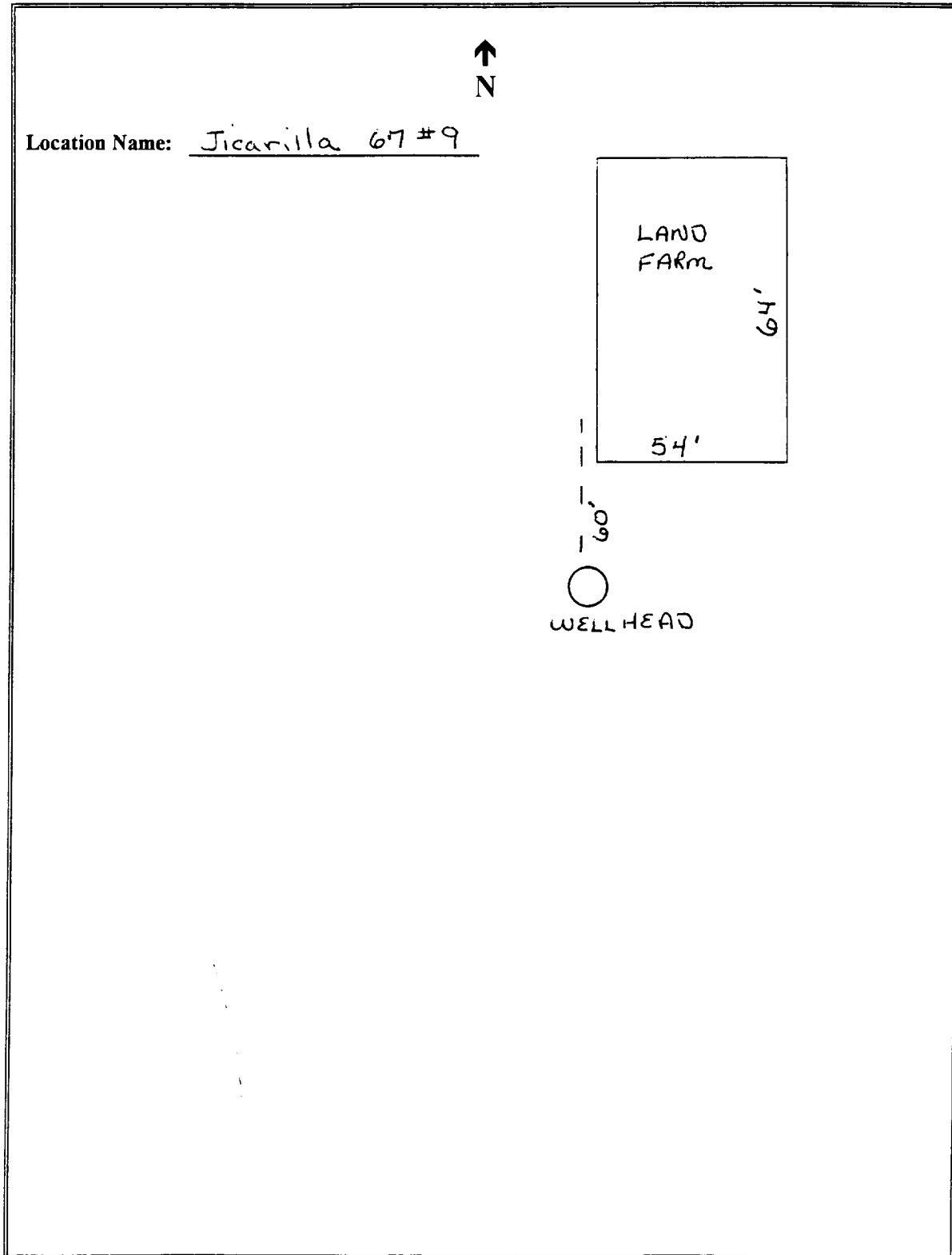
JICARILLA APACHE TRIBE
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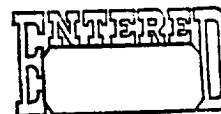
ON-SITE SOIL REMEDIATION REPORT

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 67#9</u>			
Location: Unit: <u>I</u> Sec. <u>29</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>8-16-96</u>		Date Completed: _____	
Remediation Method: Landfarmed ☒		Approx. cubic yards <u>244</u>	
Composted ☐		_____	
Other ☐		_____	
Depth to Ground Water: (pts.) <u>20</u>		Final Closure Sampling: Sampling Date: <u>10/8/96</u> Time <u>12:50</u> Sampling Results: Field Headspace (ppm) <u>4.6</u> TPH (ppm) <u>69.4</u> Method <u>8015</u> Other _____ Sample No. <u>M6-53082A-2-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>10</u>			
Ranking Score (Total Points): <u>30</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. Garrettson</u>	
SIGNATURE <u>Guy L. Garrettson</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>Michael J. [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: **11-Oct-96**
COC No.: **C1990**
Sample No.: **12490**
Job No.: **2-1000**

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

Project Location: **M6-53082A-2-LF**

Sampled by: **GG** Date: **8-Oct-96** Time: **12:50**

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)	8.3	mg/kg	5.0	mg/kg
Diesel Range Organics (C10 - C28)	61.2	mg/kg	5.0	mg/kg
	TOTAL	69.4	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	1,235	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**

