

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

Address: P.O. BOX 4289, FARMINGTON, NM 37499-4289

Location: Unit or Qtr/Qtr Sec C Sec 31 T 26 R 04 County Rio Arriba

Land Type: Siccarilla Apache

(In diagram)

Footage from reference: 20.5'

Direction from reference: 116 Degrees _____ East North X
_____ West South _____

(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) 20

(Downgradient dry wash greater than
ten feet in width)

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

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

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

Yes (20 points)
No (0 points) 20

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) 20

RANKING SCORE (TOTAL POINTS): 60

Date Remediation Started: 8-14-96 Date Completed: _____

Remediation Method: Excavation ☒ Approx. cubic yards 251

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: Benched North wall at approx
8 Ft Due to Separator placement

Groundwater Encountered: No ☒ Yes _____ Depth _____

Final Pit: Sample location See pit closure verification

Pit Closure Sampling: Sheet

if multiple samples,

attach sample results

and diagram of sample
locations and depths)

Sample depth 17 Ft

Sample date 8-14-96 Sample time 1400

Sample Results

Soil: Benzene (ppm) < 0.025 Water: Benzene (ppb) _____

Total BTEX (ppm) ND Toluene (ppb) _____

Field Headspace (ppm) 162 Ethylbenzene (ppb) _____

TPH (ppm) ND 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 8/14/96 PRINTED NAME Ernie A. Bock

SIGNATURE Ernie 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: [Signature] DATE: 8/30/96

BURLINGTON RESOURCES

PIT CLOSURE VERIFICATION SHEET

Location: ficarilla 120 C # 17 Lease No. fic. Cont. # 120
 Contractor: Philips Env Consultant Initials: JTP
 Date Started: 8-14-96 Date Finished: _____

Excavation & Soil Information

Dimensions (approx.): 19' FT. x 21' FT. x 17' FT. Deep Cubic Yards: 251
 Soil Remediated ☒ On Site ☐ Off Site If off site name location (s) _____

PIT PERIMETER	PIT PROFILE
Seperator N ↑ 8' ① ④ ⑤ ③ ② ⑦ Fiberglass pit ⑥ ⑧	79 ppm 2 Ft ↑ 15 Ft ↓

OVM Results:									
Sample ID	1	2	3	4	5	6	7	8	
Headspace PID (ppm)	82	395	218	101	79	317	22	162	
Laboratory Results:									
Sample ID	m6-44367A-3-V								
BTEX RM8020 (ppm)	ND								
TPH RM8015 (ppm)	ND								

9

06

comp

comp

Notes:

Preliminary Results

Final report will be issued
following data review

GAS CHROMATOGRAPHY RESULTS

TEST : EPA 821-R MODIFIED (DIRECT INJECT)
CLIENT : PHILIP ENVIRONMENTAL AEN I.D.: 808334
PROJECT #: 10256
PROJECT NAME : MOI PIT REM.

SAMPLE		MATRIX	DATE	DATE	DATE	DIL.
ID.#	CLIENT I.D.		SAMPLED	EXTRACTED	ANALYZED	
04	MS44367A-3-V	NON-AQ	8/14/96	8/14/96	8/15/96	10
05	MS44352A-3-V	NON-AQ	8/14/96	8/14/96	8/15/96	10
		NON-AQ				

PARAMETER	DET. LIMIT	UNITS	04	05
FUEL HYDROCARBONS, C8-C10	<10	MG/KG	<50	530
FUEL HYDROCARBONS, C10-C22	<5.0	MG/KG	<50	<50
FUEL HYDROCARBONS, C22-C38	<5.0	MG/KG	<50	<50

CALCULATED SUM

N/A 530

SURROGATE:

O-TERPHENYL (%)

SURROGATE LIMITS

(88 - 151)

CHEMIST NOTES:



9/20/96

Preliminary ResultsFinal report will be issued
following data review**GAS CHROMATOGRAPHY RESULTS**

TEST : BTEX MTBE (EPA 8020)
CLIENT : PHILIP ENVIRONMENTAL
PROJECT # : 16258
PROJECT NAME : MOI PIT REM.

AEN I.D.: 608334

SAMPLE	CLIENT I.D.	MATRIX	DATE SAMPLED	DATE EXTRACTED	DATE ANALYZED	DIL. FACTOR
04	M6-44387A-3-V	NON-AQ	8/14/96	8/16/96	8/16/96	1
05	M6-44352A-3-V	NON-AQ	8/14/96	8/16/96	8/16/96	1
PARAMETER	DET. LIMIT	UNITS	04	05		
BENZENE	0.025	MG/KG	< 0.025	0.064		
TOLUENE	0.025	MG/KG	< 0.025	1.6		
ETHYLBENZENE	0.025	MG/KG	< 0.025	3.0		
TOTAL XYLENES	0.025	MG/KG	< 0.025	21		
METHYLBUTYL ETHER	0.13	MG/KG	< 0.13	< 0.13		

SURROGATE:

BROMOFLUOROBENZENE (%)

SURROGATE LIMITS (65 - 120)

CHEMIST NOTES: *SURROGATE OUTSIDE CONTROL LIMITS DUE TO MATRIX INTERFERENCE.



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 120 C# 17</u>		
Location:	Unit: <u>C</u>	Sec. <u>31</u>	T. <u>26</u> N. <u>04</u> W. County <u>Rio Arriba</u>
Land Type:	<u>Jicarilla Apache</u>		

Date Remediation Started:	<u>8-14-96</u>	Date Completed:	<u> </u>
Remediation Method:	Landfarmed ☒	Approx. cubic yards	<u>251</u>
	Composted <u> </u>		
	Other <u> </u>		

Depth to Ground Water:	(pts.) <u>20</u>	Final Closure Sampling:	
Distance to an Ephemeral Stream:	(pts.) <u>0</u>	Sampling Date:	<u>10/8/96</u> Time <u>12:51</u>
Distance to Nearest Lake, Playa, or Watering Pond:	(pts.) <u>0</u>	Sampling Results:	
Wellhead Protection Area:	(pts.) <u>20</u>	Field Headspace (ppm)	<u>8.9</u>
Distance to Surface Water:	(pts.) <u>20</u>	TPH (ppm)	<u>75.6</u> Method <u>8015</u>
Ranking Score (Total Points):	<u>60</u>	Other	<u> </u>
		Sample No.	<u>m6-44367A-2-LF</u>

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

DATE 10/16/96 PRINTED NAME Guy L. Garretson
SIGNATURE Guy L. Garretson AND TITLE Lease Operator

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)

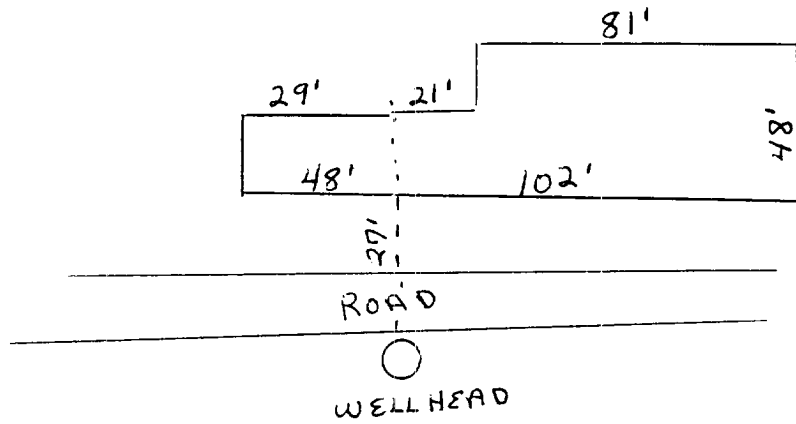
SIGNED: Guy L. Garretson DATE: 10/17/96

ON-SITE SOIL REMEDIATION DIAGRAM



DP# 44367A

Location Name: Jicarilla 120 C#17



OFF: (505) 325-5667



LAB: (505) 325-1556

TPH - Gasoline / Diesel Range Organics

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

Date: *11-Oct-96*
 COC No.: *C1990*
 Sample No.: *12491*
 Job No.: *2-1000*

Project Name: *Burlington Resources - Jicarilla Pit Closures; Landfarm*
 Project Location: *M6-44367A-2-LF*
 Sampled by: *GG* Date: *8-Oct-96* Time: *12:51*
 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)	75.6	mg/kg	5.0	mg/kg
TOTAL	75.6	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)	<5.0	pph	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: *[Signature]*
 Date: *10/11/96*