

DEPUTY OIL & GAS INSPECTOR ENVIRONMENTAL PROTECTION OFFICE

**JICARILLA APACHE TRIBE
ONMENTAL PROTECTION C
P.O. BOX 507
DULCE, NEW MEXICO 87528**

SUBMIT 1 COPY TO
NATURAL RESOURCE DEPT
AND OIL & GAS ADMINISTRATION

Approved _____

Pit Location: Pit dimensions: length 12', width 11', depth 2'
(Attach diagram) Reference: wellhead ✓, other _____
Footage from reference: 138'
Direction from reference: 295 Degrees X East of North X
West of South _____

RANKING SCORE (TOTAL POINTS): 0

Date Remediation Started: 10-2-97 Date Completed: 10-3-97

Remediation Method: Excavation X Approx. cubic yards 106
(Check all appropriate sections) Landfarmed X Insitu Bioremediation _____
Other _____

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

General Description of Remedial Action: excavated & Remediated hydrocarbon soils onsite.

Groundwater Encountered: No X Yes _____ Depth _____

Final Pit: Closure Sampling: (if multiple samples, attach sample results and diagram of sample locations and depths)
Sample location See Pit Closure verification sheet
Sample depth 17 feet
Sample date 10-3-97 Sample time 10:35

Sample Results

Soil: Benzene	(ppm)	<u>N/A</u>	Water: Benzene	(ppb)	_____
Total BTEX	(ppm)	<u>N/A</u>	Toluene	(ppb)	_____
Field Headspace	(ppm)	<u>09</u>	Ethylbenzene	(ppb)	_____
TPH	(ppm)	<u>ND</u>	Total Xylenes	(ppb)	_____

Groundwater Sample: Yes _____ No X (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 11-20-97 PRINTED NAME CRAIG A. Bock
SIGNATURE Craig A. Bock AND TITLE Environmental Rep.

AFTER REVIEW OF THE PIT CLOSURE INFORMATION, PIT CLOSURE IS APPROVED IN ACCORDANCE TO THE JICARILLA APACHE TRIBE PIT CLOSURE ORDINANCE.

APPROVED: YES X NO _____ (REASON) _____

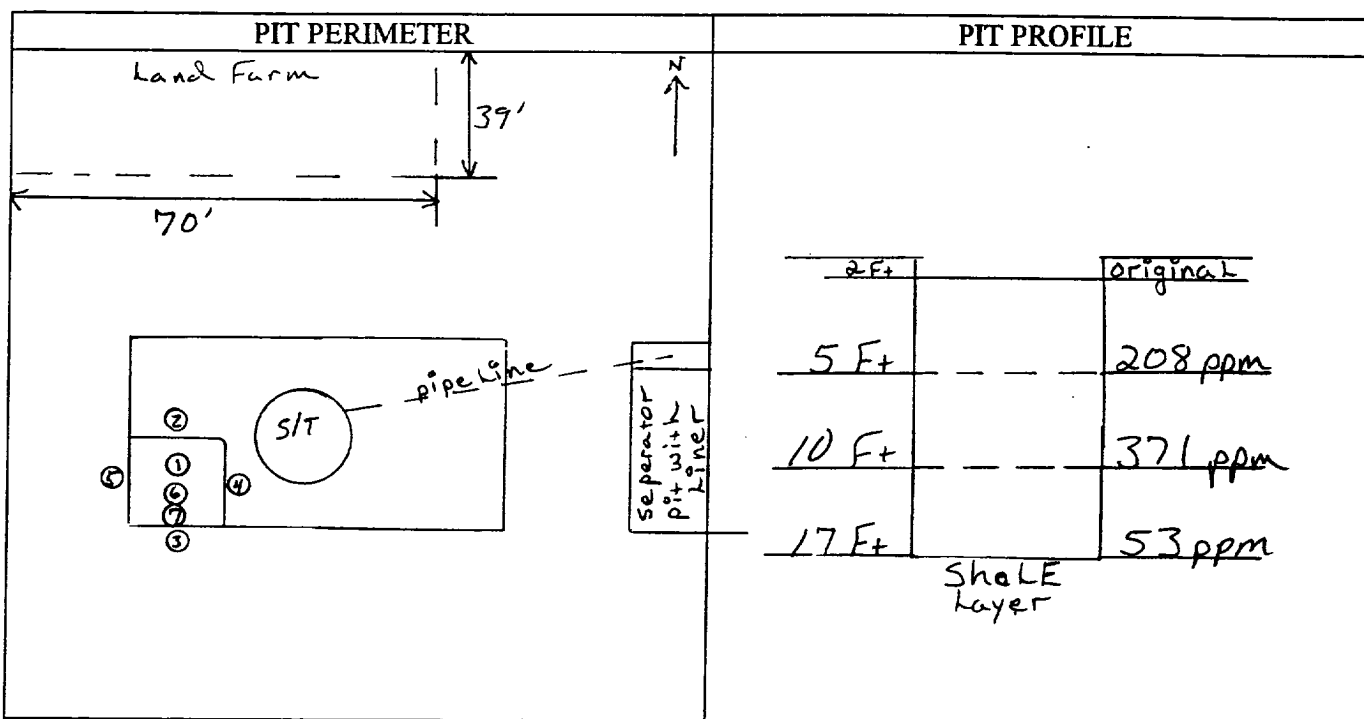
SIGNED: Kurt M. Munnell DATE: 12-23-97

PIT CLOSURE VERIFICATION SHEET

Location: ficarille 101 # 6 Lease No. 09-000101
 Contractor: Philips Consultant Initials: gza
 Date Started: 10-2-97 Date Finished: 10-3-97

Excavation & Soil Information

Dimensions (approx.): 14 FT. x 12 FT. x 17 FT. Deep Cubic Yards: (bcy) 106
 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)	208	02	0	01	0	371	53	
Sample ID	9	10	11	12	13	Comp 1	Comp 2	Comp 3
Headspace PID (ppm)						09		

Laboratory Results:			
Sample ID	37-360N-2-V		
BTEX RM8020 (ppm)			
TPH RM8015 (ppm)	X		



OFF: (505) 325-5667



LAB: (505) 325-1556

ANALYTICAL REPORT

Attn: *Scott Pope*
Company: *Philip Environmental*
Address: *4000 Monroe Road*
City, State: *Farmington, NM 87401*

Date: *20-Oct-97*
COC No.: *C2110*
Sample No.: *16509*
Job No.: *2-1000*

Project Name: ***Burlington Resources - Jic 101 #6***

Project Location: ***B7-36001-2-V***

Sampled by: *JP* Date: *3-Oct-97* Time: *10:35*

Analyzed by: *DC/HR* GRO Date: *16-Oct-97*

Sample Matrix: *Soil* DRO Date: *17-Oct-97*

Laboratory Analysis

Parameter	Results as Received	Unit of Measure	Limit of Quantitation	Unit of Measure
<i>Gasoline Range Organics (C5 - C9)</i>	ND	mg/kg	0.5	mg/kg
<i>Diesel Range Organics (C10 - C28)</i>	ND	mg/kg	5	mg/kg

ND - Not Detected at Limit of Quantitation

Quality Assurance Report

GRO QC No.: 0554-STD

DRO QC No.: 0555-STD

Continuing Calibration Verification

Parameter	Method Blank	Unit of Measure	True Value	Analyzed Value	RPD	RPD Limit
<i>Gasoline Range (C5 - C9)</i>	ND	ppb	1,801	1,906	5.7	15%
<i>Diesel Range (C10 - C28)</i>	ND	ppm	100	94	6.4	15%

Matrix Spike

Parameter	1- Percent Recovered	2 - Percent Recovered	Limit	RPD	RPD Limit
<i>Gasoline Range (C5-C9)</i>	65	65	(80-120)	0	20%
<i>Diesel Range (C10-C28)</i>	93	92	(75-125)	1	20%

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

Approved by: *[Signature]*
Date: *10/20/97*

P.O. BOX 2606 • FARMINGTON, NM 87499

Chain of Custody Record

(505) 326-2262 Phone
(505) 326-2388 FAX

COC Serial No. C 2110

[illegible]

Relinquished by:

Received By:

[illegible]**Samples Iced:**

☒ Yes ☐ No

Preservatives (ONLY for Water Samples)

Carrier:

Shipping and Lab Notes:

Airbill No.

☐ Cyanide Sodium hydroxide (NaOH)

☐ Volatile Organic Analysis Hydrochloric acid (HCl)

☐ Metals Nitric acid (HNO₃)

☐ TPH (418.1) Sulfuric acid (H₂SO₄)

☐ Other (Specify)

☐ Other (Specify)

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

SUBMIT 1 COPY TO
NATURAL RESOURCE DEP
AND OIL & GAS ADMINISTRATIO

ON-SITE SOIL REMEDIATION REPORT

Operator: Burlington Resources Telephone: 505 326-9700

Address: 3535 E. 30th St. Farmington, NM 87402

Facility or Well Name: Jicarilla 101 #6 DP# 36011

Location: Unit or Qtr/Qtr Sec L Sec 1 T 24N R 4W County Rio Arriba

Land Type: Jicarilla Reservation

Date Remediation Started: 10/2/97 Date Completed: 11/19/97

Remediation Method: Landfarmed ☒ Approx. cubic yards 106

Composted ☐

Other ☐

Depth To Groundwater: (pts.) 0

Distance to an Ephemeral Stream (pts.) 0

Distance to Nearest Lake, Playa,
or Watering Pond (pts.) 0

Wellhead Protection Area: (pts.) 0

Distance To Surface Water: (pts.) 0

RANKING SCORE (TOTAL POINTS): 0

Final Closure Sampling:

Sampling Date: 11/19/97 Time: 14:45

Sample Results:

Field Headspace (ppm) 4.8

TPH (ppm) 19 Method 8015

Other ☐

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

DATE 12/5/97 PRINTED NAME Ed Haseley

SIGNATURE Ed Haseley AND TITLE SR. Staff. Env. Rep.

AFTER REVIEW OF THE SOIL REMEDIATION INFORMATION, ON-SITE REMEDIATION IS APPROVED IN ACCORDANCE TO THE JICARILLA APACHE TRIBE PIT CLOSURE ORDINANCE.

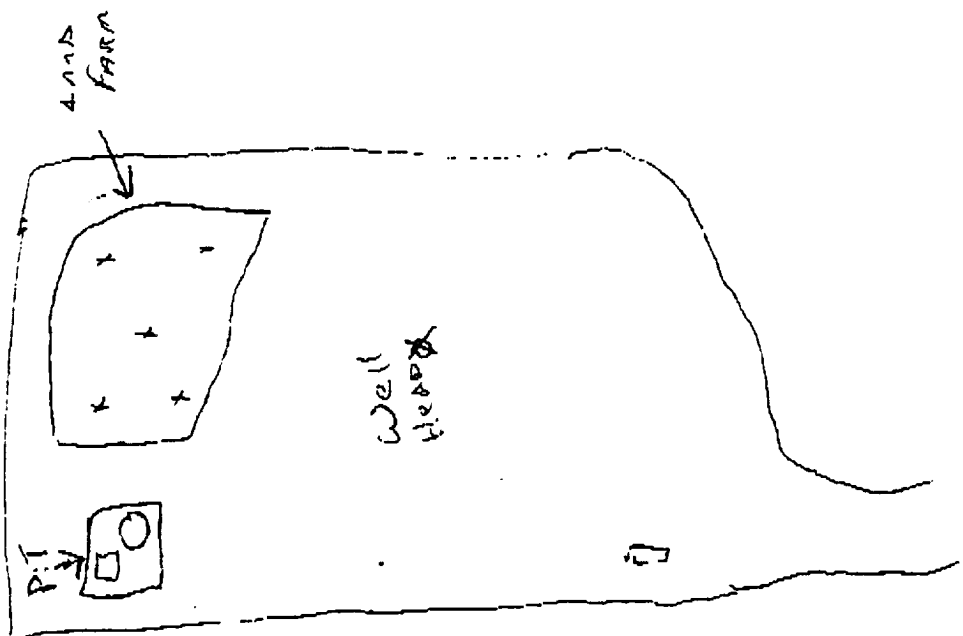
APPROVED: YES ☒ NO ☐ (REASON) use as Backfill

SIGNED: Kent M. [Signature] DATE: 12-23-97

11-18-97

Burlington
Sic. 101 #6

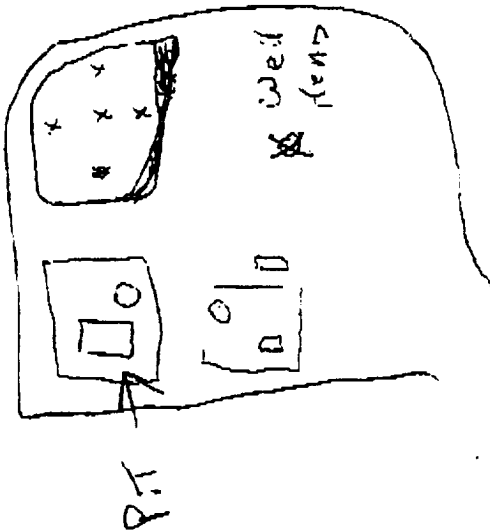
5 points Composite P.I.D
4.8 ppm



11-18-97

Burlington
Sic. 101 #8

5 Point Composite P.I.D
1.9 P.P.M



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To	From	
CEA16 Tech Fed Agency	Santa Pope	
Co.	Co.	
Dept.	Phone #	
Fax #	Fax #	
326-925		

OFF: (505) 325-5667



LAB: (505) 325-1556

ANALYTICAL REPORT

Attn: *Scott Pope*
Company: *Philip Environmental*
Address: *4000 Monroe Road*
City, State: *Farmington, NM 87401*

Date: *26-Nov-97*
COC No.: *C2141*
Sample No.: *16910*
Job No.: *2-1000*

Project Name: *Jic Pit 97 Excavation*
Project Location: *Jic 101 #6 LF-01*
Sampled by: *DB*
Analyzed by: *DC/HR*
Sample Matrix: *Soil*

Date: *19-Nov-97* Time: *14:45*
GRO Date: *24-Nov-97*
DRO Date: *25-Nov-97*

Laboratory Analysis

Parameter	Results as Received	Unit of Measure	Limit of Quantitation	Unit of Measure
<i>Gasoline Range Organics (C5 - C9)</i>	<i>2.3</i>	<i>mg/kg</i>	<i>0.5</i>	<i>mg/kg</i>
<i>Diesel Range Organics (C10 - C28)</i>	<i>17</i>	<i>mg/kg</i>	<i>5</i>	<i>mg/kg</i>

ND - Not Detected at Limit of Quantitation

Quality Assurance Report

GRO QC No.: 0554-STD

DRO QC No.: 0555-STD

Continuing Calibration Verification

Parameter	Method Blank	Unit of Measure	True Value	Analyzed Value	RPD	RPD Limit
<i>Gasoline Range (C5 - C9)</i>	<i>ND</i>	<i>ppb</i>	<i>1,801</i>	<i>1,866</i>	<i>3.5</i>	<i>15%</i>
<i>Diesel Range (C10 - C28)</i>	<i>ND</i>	<i>ppm</i>	<i>200</i>	<i>194</i>	<i>2.8</i>	<i>15%</i>

Matrix Spike

Parameter	1- Percent Recovered	2- Percent Recovered	Limit	RPD	RPD Limit
<i>Gasoline Range (C5-C9)</i>	<i>102</i>	<i>101</i>	<i>(80-120)</i>	<i>1</i>	<i>20%</i>
<i>Diesel Range (C10-C28)</i>	<i>89</i>	<i>92</i>	<i>(75-125)</i>	<i>3</i>	<i>20%</i>

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

Approved by: *[Signature]*
Date: *11/26/97*

P.O. BOX 2606 • FARMINGTON, NM 87499

Chain of Custody Record

(505) 326-2262 Phone
(505) 326-2388 FAX

COC Serial No. C 2141

[illegible]

Relinquished by:

Received By:

Signature		Date	Time	Signature		Date	Time
[Signature]		11/20/97	1440	[Signature]		11/20/97	1420

Samples Iced:

☐ No

Carrier:

Preservatives (ONLY for Water Samples)

☐ Cyanide

☐ Volatile Organic Analysis
Hydrochloric acid (HCl)
Sodium hydroxide (NaOH)☐ Metals Nitric acid (HNO₃)

☐ TPH (418.1)	 Nitric acid (HNO ₃)
☐ TPH (418.1)	 Sulfuric acid (H ₂ SO ₄)

☐ Other (Specify) _____☐ Other (Specify) _____

Shipping and Lab Notes:

Airbill No.

FAX 326-2300