

Denny S. Foust

DEPUTY OIL & GAS INSPECTOR

JICARILLA APACHE TRIBE

ENVIRONMENTAL PROTECTION OFFICE

MAY 04 1998

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: 3535 E. 30th, Farmington, NM 87401

Facility or Well Name: Jicarilla 10i #8 DP #36035

Location: Unit or Qtr/Qtr Sec N Sec 12 T 26N R 4W County Rio Arriba

Pit Type: Separator Dehydrator Other Storage Tank

Land Type: Jicarilla Reservation

Pit Location: Pit dimensions: length 12', width 9', depth 2'
(Attach diagram) Reference: wellhead X, other
Footage from reference: 128'
Direction from reference: 110 Degrees X East of 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)	<u>0</u>
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)	<u>0</u>
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)	<u>0</u>
Wellhead Protection Area: (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)	<u>0</u>
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)	<u>0</u>

RANKING SCORE (TOTAL POINTS): 0

Date Remediation Started: 10-1-97 Date Completed: 10-8-97

Remediation Method: Excavation X Approx. cubic yards 222
(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 hydrocarbon contaminated soils and landfarmed on-site

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 10 ft.

Sample date 10-2-97 Sample time 11:00 am

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>04</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 10-20-97 PRINTED NAME CRATG A. Bock

SIGNATURE Cy 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: Kore C Mammal DATE: 12-23-97

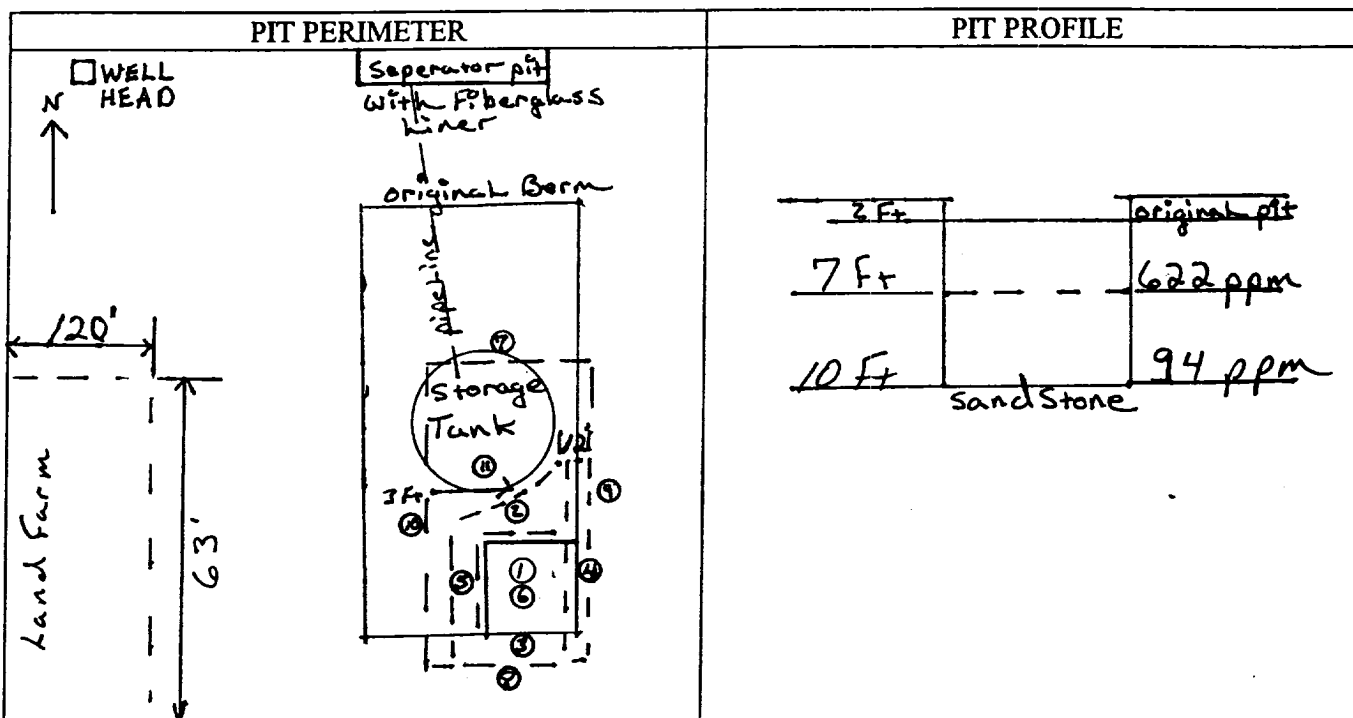
BURLINGTON RESOURCES

PIT CLOSURE VERIFICATION SHEET

Location: Jicarilla 101 #8 Lease No. 09-000101
 Contractor: Phillips Services Consultant Initials: dyf
 Date Started: 10-1-97 Date Finished: 10-8-97

Excavation & Soil Information

Dimensions (approx.): 30 FT. x 20 FT. x 10 FT. Deep Cubic Yards: (bcy) 222
 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)	622	721	17	78	15	64	82	0
Sample ID	9	10	11	12	13	Comp 1	Comp 2	Comp 3
Headspace PID (ppm)	30	65	94 bottom			973	04	

Laboratory

Results:

Sample ID	37-36035-2-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.: *C2111*
Sample No.: *16572*
Job No.: *2-1000*

Project Name: ***Burlington Resources - Jic 101 #8***

Project Location: ***B7-36035-2-V***

Sampled by: *JP* Date: *8-Oct-97* Time: *14:30*

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

PHILIP

Chain of Custody Record

4000 Monroe Road
Farmington, NM 87401

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

COC Serial No. C 2111

Project Name <i>BPR PITS 97</i>		Type of Analysis and Bottle					
Project Number <i>18640 Phase Task 1000</i>		Total Number of Bottles					
Samplers <i>Lambert Farm</i>		Type of Analysis and Bottle					
Laboratory		Type of Analysis and Bottle					
Name <i>On Site</i>		Type of Analysis and Bottle					
Location <i>Farm 11A</i>		Type of Analysis and Bottle					
Sample Number (and depth)	Date	Time	Matrix				
<i>187-36035-2 - V</i>	<i>10-8-97</i>	<i>14:30</i>	<i>Solid</i>				
No Sample							

Relinquished by:

Received By:

Signature <i>Lambert Farm</i>	Signature <i>On Site</i>
Date <i>10-8-97</i>	Date <i>10/1/97</i>
Time <i>10:00</i>	Time <i>1600</i>

Samples Iced: ☒ Yes ☐ No

Carrier: *TP*

Preservatives (ONLY for Water Samples)

- ☐ Cyanide Sodium hydroxide (NaOH)
- ☐ Volatile Organic Analysis Hydrochloric acid (HCl)
- ☐ Metals Nitric acid (HNO₃)
- ☐ TPH (418.1) Sulfuric acid (H₂SO₄)
- ☐ Other (Specify) _____
- ☐ Other (Specify) _____

Shipping and Lab Notes:

*Phase 10
3-26-2000
Theresa Brown*

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

SUBMIT 1 COPY 1
NATURAL RESOURCE DEPT
AND OIL & GAS ADMINISTRATIVE

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 # 8 DP # 36035

Location: Unit or Qtr/Qtr Sec N Sec 12 T26N R4W County Rio Arriba

Land Type: Jicarilla Reservation

Date Remediation Started: 10/1/97 **Date Completed:** 11/19/97

Remediation Method: Landfarmed X **Approx. cubic yards** 222

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:** 15:45

Sample Results:

Field Headspace (ppm) 19

TPH (ppm) 18 **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 E. Haseley **AND TITLE** So. 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.

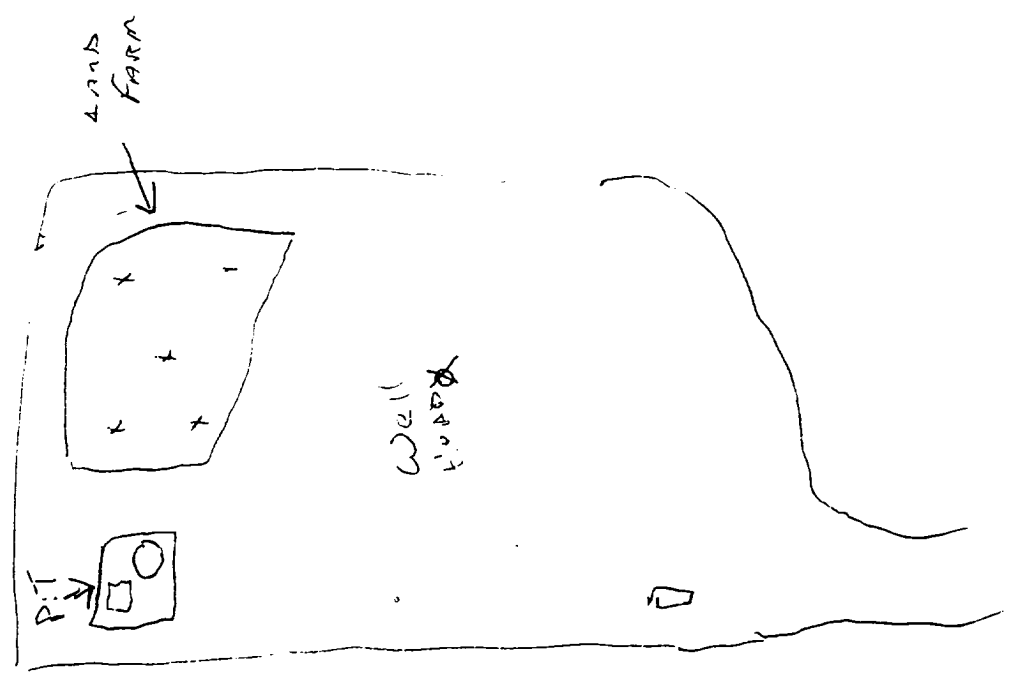
APPROVED: YES X NO **(REASON)** use as Back fill

SIGNED: Kenneth M. ... **DATE:** 12-23-97

11-18-97

Burlington
Sic. 101 #6

5 point Composite P.I.D
4.8 ppm

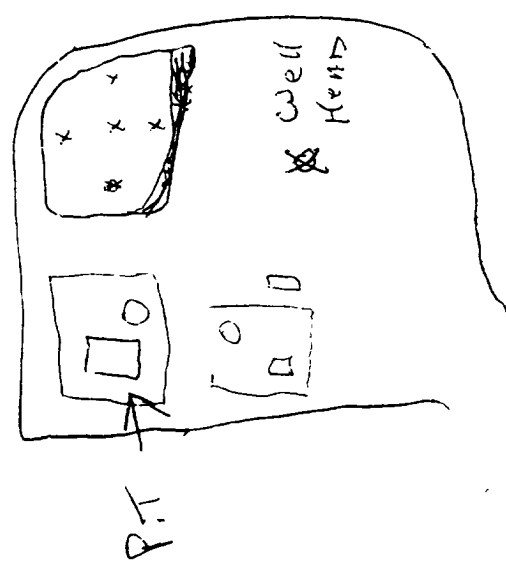


11-18-97

Burlington

Sic 101 #8

5 Point Composite P.I.D
1.9 ppm



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.: *16911*
Job No.: *2-1000*

Project Name: *Jic Pit 97 Excavation*
Project Location: *Jic 101 #8 LF-01*
Sampled by: *DB*
Analyzed by: *DC/HR*
Sample Matrix: *Soil*

Date: *19-Nov-97* Time: *15:45*
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>	ND	mg/kg	0.5	mg/kg
<i>Diesel Range Organics (C10 - C28)</i>	18	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	1,866	3.5	15%
<i>Diesel Range (C10 - C28)</i>	ND	ppm	200	194	2.8	15%

Matrix Spike

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

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

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

Chain of Custody Record

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

COC Serial No. C 2141

Relinquished by:

Received By:

Signature

Samples Iced:☒ Yes ☐ No

Carrier:

Preservatives (ONLY for Water Samples)

Shipping and Lab Notes:

Airbill No.

☐ Cyanide	Sodium hydroxide (NaOH)
☐ Volatile Organic Analysis	Hydrochloric acid (HCl)
☐ Metals	Nitric acid (HNO ₃)
☐ TPH (419.1)	Sulfuric acid (H ₂ SO ₄)
☐ Other (Specify)	
☐ Other (Specify)	

FAX 326-2388