

Denny E. Faust
DEPUTY OIL & GAS INSPECTOR

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

MAY 04 1998

PIT REMEDIATION AND CLOSURE REPORT

Approved
Operator: Buckington Resources Telephone: (505) 326-9700
Address: 3535E 30th, Farmington, NM 87401
Facility or Well Name: Arizona Jicarilla B#1 DP # 2750
Location: Unit or Qtr/Qtr Sec M Sec 4 T 26N R 5W County Rio Arriba
Pit Type: Separator ☒ Dehydrator ☐ Other ☐
Land Type: Jicarilla Reservation

Pit Location: Pit dimensions: length 12', width 12', depth 3'
(Attach diagram)
Reference: wellhead X, other ☐
Footage from reference: 77'
Direction from reference: 57 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: N/A 8/27/97 Date Completed: 11/20/97

Remediation Method: Excavation _____ Approx. cubic yards _____
(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: _____

Groundwater Encountered: No ☒ Yes _____ Depth _____

Final Pit: Sample location Center of Pit.
Closure Sampling: _____
(if multiple samples, attach sample results and diagram of sample locations and depths) Sample depth 4' below the bottom surface of the pit

Sample date 8-27-97 Sample time 9:30

Sample Results

| | | | | | |
|-----------------|-------|--------------|----------------|-------|-------|
| Soil: Benzene | (ppm) | <u>8.143</u> | Water: Benzene | (ppb) | _____ |
| Total BTEX | (ppm) | <u>2.153</u> | Toluene | (ppb) | _____ |
| Field Headspace | (ppm) | <u>347</u> | Ethylbenzene | (ppb) | _____ |
| TPH | (ppm) | <u>47</u> | 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 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 ☒ NO _____ (REASON) _____

SIGNED: Kent M. Marshall DATE: 12-23-97

OFF: (505) 325-5667



LAB: (505) 325-1556

ANALYTICAL REPORT

Attn: *Craig A. Bock*
 Company: *Burlington Resources*
 Address: *P.O. Box 4289*
 City, State: *Farmington, NM 87499*

Date: *4-Sep-97*
 COC No.: *C2108*
 Sample No.: *15952*
 Job No.: *2-1000*

Project Name: *Burlington Resources Pit Assessment - Arizona Jicarilla B#1*
 Project Location: *B7-2750-1-A*
 Sampled by: *JP* Date: *27-Aug-97* Time: *9:30*
 Analyzed by: *DC/HR* GRO Date: *3-Sep-97*
 Sample Matrix: *Soil* DRO Date: *4-Sep-97*

Laboratory Analysis

| Parameter | Results as Received | Unit of Measure | Limit of Quantitation | Unit of Measure |
|--|---------------------|-----------------|-----------------------|-----------------|
| <i>Gasoline Range Organics (C5 - C9)</i> | <i>47</i> | <i>mg/kg</i> | <i>25</i> | <i>mg/kg</i> |
| <i>Diesel Range Organics (C10 - C28)</i> | <i>ND</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.: 0537-STD
 DRO QC No.: 0548-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>1,890</i> | <i>4.8</i> | <i>15%</i> |
| <i>Diesel Range (C10 - C28)</i> | <i>ND</i> | <i>ppm</i> | <i>200</i> | <i>188</i> | <i>6.4</i> | <i>15%</i> |

Matrix Spike

| Parameter | 1 - Percent Recovered | 2 - Percent Recovered | Limit | RPD | RPD Limit |
|-------------------------------|-----------------------|-----------------------|-----------------|----------|------------|
| <i>Gasoline Range (C5-C9)</i> | <i>103</i> | <i>102</i> | <i>(80-120)</i> | <i>0</i> | <i>20%</i> |
| <i>Diesel Range (C10-C28)</i> | <i>84</i> | <i>88</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: *9/4/97*

P.O. BOX 2606 • FARMINGTON, NM 87499

OFF: (505) 325-5667



LAB: (505) 325-1556

ANALYTICAL REPORT

Attn: *Craig A. Bock*
Company: *Burlington Resources*
Address: *P.O. Box 4289*
City, State: *Farmington, NM 87499*

Date: *3-Sep-97*
COC No.: *C2108*
Sample No.: *15952*
Job No.: *2-1000*

Project Name: *Burlington Resources Pit Assessment - Arizona Jicarilla B#1*
Project Location: *B7-2750-1-A*
Sampled by: *JP* Date: *27-Aug-97* Time: *9:30*
Analyzed by: *DC* Date: *2-Sep-97*
Sample Matrix: *Soil*

Laboratory Analysis

| Parameter | Results as Received | Unit of Measure | Limit of Quantitation | Unit of Measure |
|---------------------|---------------------|-----------------|-----------------------|-----------------|
| <i>Benzene</i> | <i>143</i> | <i>ug/kg</i> | <i>25</i> | <i>ug/kg</i> |
| <i>Toluene</i> | <i>1458</i> | <i>ug/kg</i> | <i>25</i> | <i>ug/kg</i> |
| <i>Ethylbenzene</i> | <i>86</i> | <i>ug/kg</i> | <i>25</i> | <i>ug/kg</i> |
| <i>m,p-Xylene</i> | <i>401</i> | <i>ug/kg</i> | <i>25</i> | <i>ug/kg</i> |
| <i>o-Xylene</i> | <i>66</i> | <i>ug/kg</i> | <i>25</i> | <i>ug/kg</i> |
| <i>TOTAL</i> | <i>2153</i> | <i>ug/kg</i> | | |

ND - Not Detected at Limit of Quantitation

Method - SW-846 EPA Method 8020A Aromatic Volatile Organics by Gas Chromatography

Approved by: *Jack*
Date: *9/3/97*

P.O. BOX 2606 • FARMINGTON, NM 87499