

District I  
O. Box 1980, Hobbs, NM  
District II  
O. Drawer DD, Artesia, NM 88211  
District III  
000 Rio Brazos Rd, Aztec, NM 87410

State of New Mexico  
Energy, Minerals and Natural Resources Department

OIL CONSERVATION DIVISION  
P.O. Box 2088  
Santa Fe, New Mexico 87504-2088

BR312  
SUBMIT 1 COPY TO  
APPROPRIATE  
DISTRICT OFFICE  
AND 1 COPY TO  
SANTA FE OFFICE

RECEIVED  
OCT 21 1999

**PIT REMEDIATION AND CLOSURE REPORT**

Operator: R. C. RESOURCES COMPANY INC. Telephone: (505) 326-6903

Address: 501 AIRPORT DR., SUITE 161, FARMINGTON, NEW MEXICO 87499

Facility or: TALIAFERRO # 5M  
Well Name

Location: Unit or Qtr/Qtr Sec I Sec 30 T 31N R 12W County SAN JUAN

Pit Type: Separator ☒ Dehydrator ☐ Other PRODUCTION TANK COMBO.

Land Type: BLM ☒, State ☐, Fee ☐, Other ☐

Pit Location: Pit dimensions: length 15', width 17', depth 6'  
(Attach diagram) Reference: wellhead ☒, other ☐

Footage from reference: 129'

Direction from reference: 5 Degrees ☒ East North ☒  
of  
West South

Depth To Ground Water:  
(Vertical distance from  
contaminants to seasonal  
high water elevation of  
ground water)

Less than 50 feet (20 points)  
50 feet to 99 feet (10 points)  
Greater than 100 feet (0 Points) 0

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) 0

Distance To Surface Water:  
(Horizontal distance to perennial  
lakes, ponds, rivers, streams, creeks,  
irrigation canals and ditches)

Less than 200 feet (20 points)  
200 feet to 1000 feet (10 points)  
Greater than 1000 feet (0 points) 0

RANKING SCORE (TOTAL POINTS): 0

BR312

Date Remediation Started: \_\_\_\_\_

Date Completed: 10/31/95Remediation Method: Excavation ☒  
(Check all appropriate sections)Landfarmed ☒

Other \_\_\_\_\_

Approx. cubic yards 20

Insitu Bioremediation \_\_\_\_\_

Remediation Location:  
(ie. landfarmed onsite,  
name and location of  
offsite facility)Onsite ☒ offsite \_\_\_\_\_

General Description Of Remedial Action: \_\_\_\_\_

Excavation - BEDLOCK BOTTOM

Ground Water Encountered: \_\_\_\_\_

No ☒

Yes \_\_\_\_\_

Depth \_\_\_\_\_

Final Pit:

Closure Sampling:  
(if multiple samples,  
attach sample results  
and diagram of sample  
locations and depths)Sample location see Attached DocumentsSample depth 5'Sample date 10/23/95Sample time 1430

Sample Results

Benzene(ppm) 0.0823Total BTEX(ppm) 12.390Field headspace(ppm) 764TPH 1200 ppmGround Water 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 10/31/95

SIGNATURE

PRINTED NAME  
AND TITLE

ROBERT R. CLICK - President

CLIENT: R.R. CLICKBLAGG ENGINEERING, INC.  
P.O. BOX 87, BLOOMFIELD, NM 87413  
(505) 632-1199LOCATION NO: BR312C.O.C. NO: 4443

## FIELD REPORT: CLOSURE VERIFICATION

PAGE No: 1 of 1LOCATION: NAME: TALIAFERRO WELL #: 5M PIT: SEP/PROD.DATE STARTED: 10/23/95QUAD/UNIT: I SEC: 30 TWP: 31N RNG: 12W PM: NM CNTY: SJ ST: NM

DATE FINISHED: \_\_\_\_\_

QTR/FOOTAGE: 1730' FSL/820' FEL CONTRACTOR: EPCENVIRONMENTAL SPECIALIST: NVEXCAVATION APPROX. 15 FT. x 17 FT. x 6 FT. DEEP. CUBIC YARDAGE: 20DISPOSAL FACILITY: ON-SITE REMEDIATION METHOD: LANDFARMEDLAND USE: RANGE LEASE: SF-078244 FORMATION: OK

## FIELD NOTES &amp; REMARKS:

PIT LOCATED APPROXIMATELY 129 FT. NSE FROM WELLHEAD.DEPTH TO GROUNDWATER: >100' NEAREST WATER SOURCE: >1000' NEAREST SURFACE WATER: >1000'NMOCB BANKING SCORE: 0 NMOCB TPH CLOSURE STD: 5000 PPM

## CHECK ONE:

☐ PIT ABANDONED☒ STEEL TANK INSTALLED

## SOIL AND EXCAVATION DESCRIPTION:

## FIBERGLASS

SIDEWALLS: OK. NED. GRAY TO BLACK (NORTH), OLIVE GRAY TO LT. GRAY (EAST), OK YELL. ORANGE (SOUTH), & OK MED GRAY (WEST) IN COLOR. NORTH & EAST PREDOMINANTLY SILTY/CLAY TO CLAY, PLASTIC, MOIST, SOFT TO DENSE, STRONG HC ODOR IN OUR SAMPLES. SOUTH & WEST PREDOMINANTLY SAND, NON-COHESIVE SLIGHTLY MOIST, FIRM TO STIFF, STRONG HC ODOR IN WEST SIDEWALL OUM SAMPLE.

BOTTOM - SANDSTONE UNKNOWN IF SOFT OR HARD DUE TO LIQUID IN BOTTOM. UNABLE TO OBTAIN OUM SAMPLE.

## FIELD 418.1 CALCULATIONS

| TIME | SAMPLE I.D. | LAB No.  | WEIGHT (g) | mL. FREON | DILUTION | READING | CALC. ppm |
|------|-------------|----------|------------|-----------|----------|---------|-----------|
| 1430 | ④ @ 5'      | TPH-1629 | 5          | 20        | 1:1      | 298     | 1,192     |
|      |             |          |            |           |          |         |           |
|      |             |          |            |           |          |         |           |

## SCALE

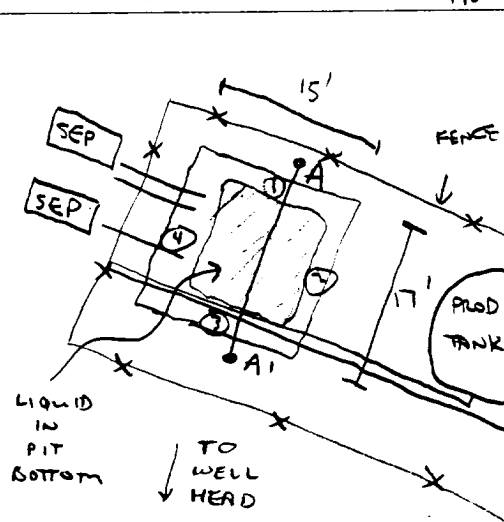


0 FT

## PIT PERIMETER

## OVM RESULTS

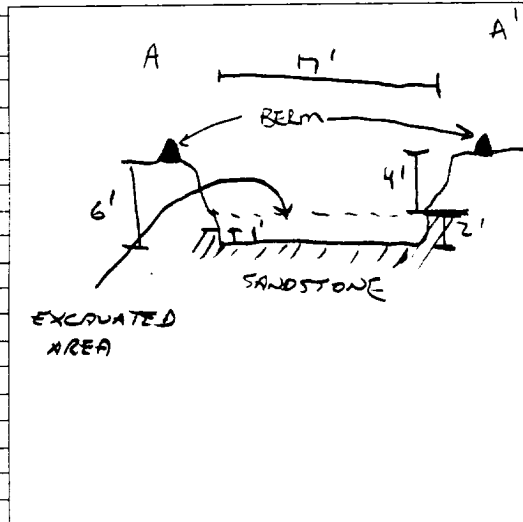
## PIT PROFILE



| SAMPLE ID | FIELD HEADSPACE PID (ppm) |
|-----------|---------------------------|
| 1 @ 5'    | 436                       |
| 2 @ 5'    | 628                       |
| 3 @ 5'    | 5.3                       |
| 4 @ 5'    | 764                       |
| 5         |                           |

| SAMPLE ID | ANALYSIS | TIME |
|-----------|----------|------|
| ④ @ 5'    | BTX      | 1430 |
|           |          |      |
|           |          |      |



## TRAVEL NOTES:

CALLOUT: 10/23/95 LATE MORN. ONSITE: 10/23/95 EARLY AFTER.

**BLAGG ENGINEERING, INC.**

P.O. Box 87, Bloomfield, New Mexico 87413

Phone: (505)632-1199 Fax: (505)632-3903

**FIELD MODIFIED EPA METHOD 418.1  
TOTAL PETROLEUM HYDROCARBONS**

Client: R.R. CLICK  
Sample ID: 4 @ 5'  
Project Location: Taliaferro #5M  
Laboratory Number: TPH-1629

Project #:   
Date Analyzed: 10-23-95  
Date Reported: 10-23-95  
Sample Matrix: Soil

| Parameter                                   | Result, mg/kg | Detection<br>Limit, mg/kg |
|---------------------------------------------|---------------|---------------------------|
| -----                                       | -----         | -----                     |
| Total Recoverable<br>Petroleum Hydrocarbons | 1,200         | 20                        |

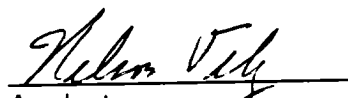
ND = Not Detectable at stated detection limits.

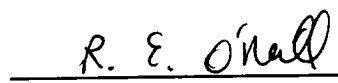
| QA/QC: | QA/QC Sample<br>TPH mg/kg | Duplicate<br>TPH mg/kg | %<br>*Diff. |
|--------|---------------------------|------------------------|-------------|
|        | -----                     | -----                  | -----       |
|        | 920                       | 910                    | 1.09        |

\*Administrative Acceptance limits set at 30%.

Method: Modified Method 418.1, Petroleum Hydrocarbons, Total Recoverable, Chemical Analysis of Water and Waste, USEPA Storet No.4551, 1978

Comments: Separator / Production Tank Pit - BR312

  
Analyst

  
Review

# ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

## EPA METHOD 8020 AROMATIC VOLATILE ORGANICS

|                    |                           |                     |          |
|--------------------|---------------------------|---------------------|----------|
| Client:            | Blagg Eng. / RC Resources | Project #:          | 04034    |
| Sample ID:         | 4 @ 5'                    | Date Reported:      | 10-26-95 |
| Laboratory Number: | 9427                      | Date Sampled:       | 10-23-95 |
| Chain of Custody:  | 4443                      | Date Received:      | 10-24-95 |
| Sample Matrix:     | Soil                      | Date Analyzed:      | 10-24-95 |
| Preservative:      | Cool                      | Date Extracted:     | 10-24-95 |
| Condition:         | Cool & Intact             | Analysis Requested: | BTEX     |

| Parameter    | Concentration<br>(ug/Kg) | Det.<br>Limit<br>(ug/Kg) |
|--------------|--------------------------|--------------------------|
| Benzene      | 82.3                     | 29.5                     |
| Toluene      | 36.3                     | 33.8                     |
| Ethylbenzene | 610                      | 31.6                     |
| p,m-Xylene   | 8,800                    | 27.0                     |
| o-Xylene     | 2,860                    | 29.3                     |
| Total BTEX   | 12,390                   |                          |

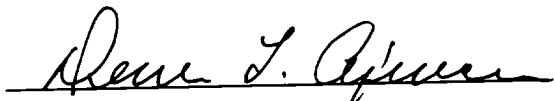
ND - Parameter not detected at the stated detection limit.

| Surrogate Recoveries: | Parameter          | Percent Recovery |
|-----------------------|--------------------|------------------|
|                       | Trifluorotoluene   | 100 %            |
|                       | Bromofluorobenzene | 99 %             |

References: Method 5030, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, July 1992.

Method 8020, Aromatic Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, Sept. 1994.

Comments: Taliaferro #5M Sep/Prod. Pit. BR312

  
Analyst

  
Review

RANKING SCORE (TOTAL POINTS): 0

BR312

Date Remediation Started: \_\_\_\_\_

Date Completed: 10/31/95Remediation Method: Excavation ☒  
(Check all appropriate sections)Landfarmed ☒

Other \_\_\_\_\_

Approx. cubic yards 20

Insitu Bioremediation \_\_\_\_\_

Remediation Location:  
(ie. landfarmed onsite,  
name and location of  
offsite facility)Onsite ☒ Offsite \_\_\_\_\_

General Description of Remedial Action: \_\_\_\_\_

Excavation - BEDROCK BOTTOM + MOST OF SIDEWALLS

INCLUDING BTEX SAMPLE ④ @ 3' (SEE FIELD REPORT)

Ground Water Encountered: \_\_\_\_\_

No ☒

Yes \_\_\_\_\_

Depth \_\_\_\_\_

Final Pit:

Closure Sampling:  
(if multiple samples,  
attach sample results  
and diagram of sample  
locations and depths)Sample location see Attached DocumentsSample depth 3'Sample date 10/23/95Sample time 1525

Sample Results

Benzene(ppm) 19.300Total BTEX(ppm) 109.700Field headspace(ppm) 389TPH 728 ppmGround Water 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 10/31/95

SIGNATURE

PRINTED NAME  
AND TITLERobert R. Click - President

CLIENT: R.R. CLICKBLAGG ENGINEERING, INC.  
P.O. BOX 87, BLOOMFIELD, NM 87413  
(505) 632-1199LOCATION NO: 82312C.O.C. NO: 4443

## FIELD REPORT: CLOSURE VERIFICATION

PAGE No: 1 of 1LOCATION: NAME: TALIAPERRO WELL #: 5M PIT: DEHY  
QUAD/UNIT: I SEC: 30 TWP: 31N RNG: 12W PM: NM CNTY: ST ST: NM  
QTR/FOOTAGE: 1730' FSL 820' FEL CONTRACTOR: EPCDATE STARTED: 10/23/95  
DATE FINISHED: \_\_\_\_\_ENVIRONMENTAL  
SPECIALIST: NVEXCAVATION APPROX. 11 FT. x 12 FT. x 6 FT. DEEP. CUBIC YARDAGE: 20  
DISPOSAL FACILITY: ON-SITE REMEDIATION METHOD: LANDFARMED  
LAND USE: RANGE LEASE: 5F - 078244 FORMATION: OKFIELD NOTES & REMARKS: PIT LOCATED APPROXIMATELY 114 FT. SSZE FROM WELLHEAD.DEPTH TO GROUNDWATER: 7100' NEAREST WATER SOURCE: >1000' NEAREST SURFACE WATER: >1000'NMOC D RANKING SCORE: 0 NMOC D TPH CLOSURE STD: 5000 PPM

## SOIL AND EXCAVATION DESCRIPTION:

SIDEWALLS - DR. PELL. BROWN SAND TO SILTY SAND  
NON-COHESIVE, SLIGHTLY MOIST, FIRM  
TO DENSE, WEST SIDEWALL VERY PALE ORANGE COLOR (TOP OF BED -  
ROCK STRONG HC ODOR IN DUM SAMPLE), NO APPARENT HC ODOR  
IN REMAINING SIDEWALL DUM SAMPLES.

BOTTOM - SANDSTONE, HARD, VERY PALE ORANGE COLOR, STRONG HC ODOR  
IN DUM SAMPLE.

CHECK ONE:

☐ PIT ABANDONED☒ STEEL TANK INSTALLED  
FIBERGLASS

## FIELD 418.1 CALCULATIONS

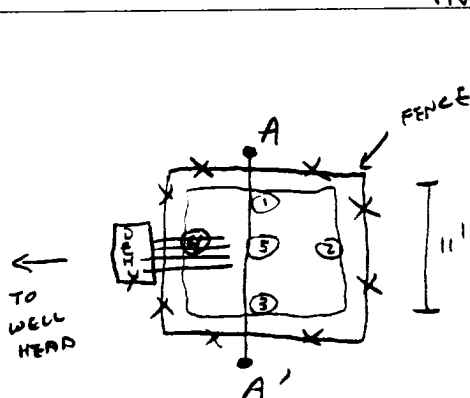
| TIME | SAMPLE I.D. | LAB No:  | WEIGHT (g) | mL. FREON | DILUTION | READING | CALC. ppm |
|------|-------------|----------|------------|-----------|----------|---------|-----------|
| 1525 | ④ @ 3'      | TAH-1630 | 5          | 20        | 1:1      | 182     | 728       |
|      |             |          |            |           |          |         |           |
|      |             |          |            |           |          |         |           |

SCALE



0 FT

## PIT PERIMETER

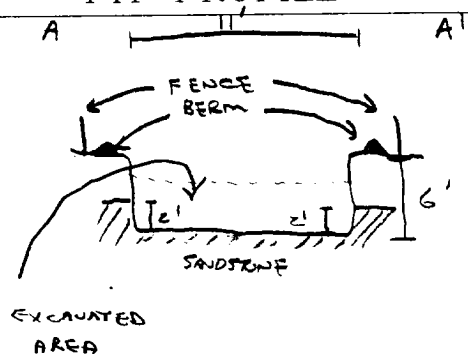
OVM  
RESULTS

| SAMPLE ID | FIELD HEADSPACE PID (ppm) |
|-----------|---------------------------|
| 1 @ 3'    | 0.0                       |
| 2 @ 3'    | 23.6                      |
| 3 @ 3'    | 0.0                       |
| 4 @ 3'    | 389                       |
| 5 @ 6'    | 335                       |

## LAB SAMPLES

| SAMPLE ID | ANALYSIS | TIME |
|-----------|----------|------|
| ④ @ 3'    | RTX      | 1525 |
|           |          |      |
|           |          |      |

## PIT PROFILE



## TRAVEL NOTES:

CALLOUT: 10/23/95 LATE MORN. ONSITE: 10/23/95 EARLY AFTER.



**BLAGG ENGINEERING, INC.**

P.O. Box 87, Bloomfield, New Mexico 87413

Phone: (505)632-1199 Fax: (505)632-3903

**FIELD MODIFIED EPA METHOD 418.1  
TOTAL PETROLEUM HYDROCARBONS**

|                    |                |                |          |
|--------------------|----------------|----------------|----------|
| Client:            | R.R. CLICK     | Project #:     |          |
| Sample ID:         | 4 @ 3'         | Date Analyzed: | 10-23-95 |
| Project Location:  | Taliaferro #5M | Date Reported: | 10-23-95 |
| Laboratory Number: | TPH-1630       | Sample Matrix: | Soil     |

| Parameter                                   | Result, mg/kg | Detection<br>Limit, mg/kg |
|---------------------------------------------|---------------|---------------------------|
| Total Recoverable<br>Petroleum Hydrocarbons | 730           | 20                        |

ND = Not Detectable at stated detection limits.

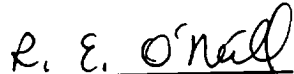
| QA/QC: | QA/QC Sample<br>TPH mg/kg | Duplicate<br>TPH mg/kg | %<br>*Diff. |
|--------|---------------------------|------------------------|-------------|
|        | 920                       | 910                    | 1.09        |

\*Administrative Acceptance limits set at 30%.

Method: Modified Method 418.1, Petroleum Hydrocarbons, Total  
Recoverable, Chemical Analysis of Water and Waste,  
USEPA Storet No.4551, 1978

Comments: Dehydrator Pit - BR312

  
Analyst

  
Review

# ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

## EPA METHOD 8020 AROMATIC VOLATILE ORGANICS

|                    |                           |                     |          |
|--------------------|---------------------------|---------------------|----------|
| Client:            | Blagg Eng. / RC Resources | Project #:          | 04034    |
| Sample ID:         | 4 @ 3'                    | Date Reported:      | 10-26-95 |
| Laboratory Number: | 9428                      | Date Sampled:       | 10-23-95 |
| Chain of Custody:  | 4443                      | Date Received:      | 10-24-95 |
| Sample Matrix:     | Soil                      | Date Analyzed:      | 10-24-95 |
| Preservative:      | Cool                      | Date Extracted:     | 10-24-95 |
| Condition:         | Cool & Intact             | Analysis Requested: | BTEX     |

| Parameter         | Concentration<br>(ug/Kg) | Det.<br>Limit<br>(ug/Kg) |
|-------------------|--------------------------|--------------------------|
| Benzene           | 19,300                   | 29.4                     |
| Toluene           | 42,200                   | 33.7                     |
| Ethylbenzene      | 15,200                   | 31.5                     |
| p,m-Xylene        | 13,900                   | 26.9                     |
| o-Xylene          | 19,100                   | 29.2                     |
| <b>Total BTEX</b> | <b>109,700</b>           |                          |

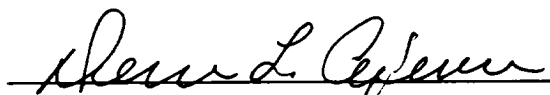
ND - Parameter not detected at the stated detection limit.

| Surrogate Recoveries: | Parameter          | Percent Recovery |
|-----------------------|--------------------|------------------|
|                       | Trifluorotoluene   | 100 %            |
|                       | Bromofluorobenzene | 100 %            |

References: Method 5030, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, July 1992.

Method 8020, Aromatic Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, Sept. 1994.

Comments: *DEHYDRATOR*  
Taliaferro #5M ~~Sep~~ Prod. Pit. BR312

  
Analyst

  
Review



|                             |                                                                                       |                                                     |
|-----------------------------|---------------------------------------------------------------------------------------|-----------------------------------------------------|
| CLIENT: <u>RL RESOURCES</u> | <b>BLAGG ENGINEERING, INC.</b><br>P.O. BOX 87, BLOOMFIELD, NM 87413<br>(505) 632-1199 | LOCATION NO: <u>82912</u><br>C.O.C. NO: <u>7274</u> |
|-----------------------------|---------------------------------------------------------------------------------------|-----------------------------------------------------|

## FIELD REPORT: LANDFARM/COMPOST PILE CLOSURE VERIFICATION

|                                                                                                                |                                                               |
|----------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------|
| LOCATION: NAME: <u>TALIAFERRO</u> WELL #: <u>5M</u> PITS: <u>SEP, PROD, DEHY</u>                               | DATE STARTED: <u>8.13.99</u><br>DATE FINISHED: <u>8.17.99</u> |
| QUAD/UNIT: <u>1</u> SEC: <u>30</u> TWP: <u>31N</u> RNG: <u>12W</u> PM: <u>NM</u> CNTY: <u>SJ</u> ST: <u>NM</u> | ENVIRONMENTAL SPECIALIST: <u>REP</u>                          |
| QTR/FOOTAGE: <u>17305/820E</u> CONTRACTOR: <u>EPC</u>                                                          |                                                               |

### SOIL REMEDIATION:

|                                     |                                  |
|-------------------------------------|----------------------------------|
| REMEDIATION SYSTEM: <u>LANDFARM</u> | APPROX. CUBIC YARDAGE: <u>40</u> |
| LAND USE: <u>RANGE</u>              | LIFT DEPTH (ft): <u>—</u>        |

### FIELD NOTES & REMARKS:

DEPTH TO GROUNDWATER: >100' NEAREST WATER SOURCE: >1000' NEAREST SURFACE WATER: >1000'

NMDCD RANKING SCORE 0 NMDCD TPH CLOSURE STD: 5000 PPM

PALE YELLOWISH BROWN SAND, NON COHESIVE, SLIGHTLY MOIST, FIRM.

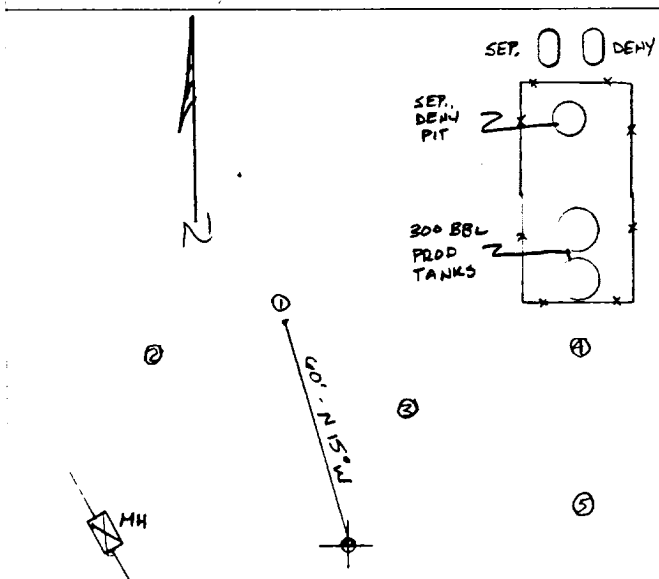
NO LANDFARM OBSERVED, COLLECTED A SPT. COMPOSITE SAMPLE

FROM WELL PAD. SAMPLING DEPTHS RANGE FROM 6" - 10"

### FIELD 418.1 CALCULATIONS

| SAMP. TIME | SAMPLE I.D. | LAB No: | WEIGHT (g) | mL. FREON | DILUTION | READING | CALC. ppm |
|------------|-------------|---------|------------|-----------|----------|---------|-----------|
|            |             |         |            |           |          |         |           |
|            |             |         |            |           |          |         |           |
|            |             |         |            |           |          |         |           |
|            |             |         |            |           |          |         |           |
|            |             |         |            |           |          |         |           |
|            |             |         |            |           |          |         |           |

### SKETCH/SAMPLE LOCATIONS



### OVM RESULTS

| SAMPLE ID | FIELD HEADSPACE PID (ppm) |
|-----------|---------------------------|
| LF-1      | 0.0                       |
|           |                           |
|           |                           |
|           |                           |
|           |                           |
|           |                           |

### LAB SAMPLES

| SAMPLE ID | ANALYSIS   | TIME | RESULTS |
|-----------|------------|------|---------|
| LF-1      | TPH (E015) | 0840 | 0.2     |
|           |            |      |         |
|           |            |      |         |
|           |            |      |         |
|           |            |      |         |
|           |            |      |         |

### SCALE

0 1 FT

TRAVEL NOTES: CALLOUT: NA ONSITE: 8.13.99

# ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

## EPA METHOD 8015 Modified Nonhalogenated Volatile Organics Total Petroleum Hydrocarbons

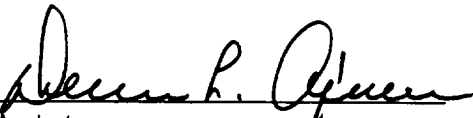
|                      |                      |                     |          |
|----------------------|----------------------|---------------------|----------|
| Client:              | Blagg / RC Resources | Project #:          | 403410   |
| Sample ID:           | LF - 1               | Date Reported:      | 08-17-99 |
| Laboratory Number:   | F916                 | Date Sampled:       | 08-13-99 |
| Chain of Custody No: | 7274                 | Date Received:      | 08-13-99 |
| Sample Matrix:       | Soil                 | Date Extracted:     | 08-16-99 |
| Preservative:        | Cool                 | Date Analyzed:      | 08-17-99 |
| Condition:           | Cool and Intact      | Analysis Requested: | 8015 TPH |

| Parameter                    | Concentration<br>(mg/Kg) | Det.<br>Limit<br>(mg/Kg) |
|------------------------------|--------------------------|--------------------------|
| Gasoline Range (C5 - C10)    | ND                       | 0.2                      |
| Diesel Range (C10 - C28)     | 0.2                      | 0.1                      |
| Total Petroleum Hydrocarbons | 0.2                      | 0.2                      |

ND - Parameter not detected at the stated detection limit.

References: Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: Taliaferro 5 M LF. 5 Pt. Composite.

  
Analyst

  
Review

# CHAIN OF CUSTODY RECORD 7274

[illegible]