

District I  
1625 N. French Dr., Hobbs, NM 88240  
District II  
1301 W. Grand Avenue, Artesia, NM 88210  
District III  
1000 Rio Brazos Road, Aztec, NM 87410  
District IV  
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico  
Energy Minerals and Natural Resources

Oil Conservation Division  
1220 South St. Francis Dr.  
Santa Fe, NM 87505

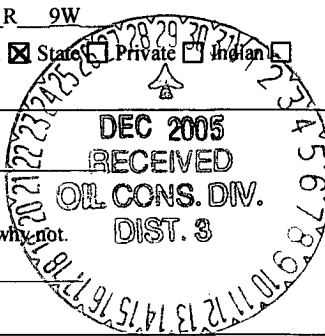
Form C-144  
June 1, 2004

For drilling and production facilities, submit to appropriate NMOCD District Office.  
For downstream facilities, submit to Santa Fe office

**Pit or Below-Grade Tank Registration or Closure**

Is pit or below-grade tank covered by a "general plan"? Yes ☐ No ☒

Type of action: Registration of a pit or below-grade tank ☐ Closure of a pit or below-grade tank ☒

|   |  |   |
|---|--|---|
| Operator: <u>Dugan Production Corp</u> Telephone: <u>(505)325-1821</u> e-mail address: _____  |  |   |
| Address: <u>P.O. Box 420, Farmington, New Mexico 87401</u>  |  |   |
| Facility or well name: <u>Sixteen G's #1</u> API #: <u>30-045-21995</u> U/L or Qtr/Qtr <u>E</u> Sec <u>7</u> T <u>24N</u> R <u>9W</u>   |  |   |
| County: <u>San Juan</u> Latitude <u>36.33099</u> Longitude <u>107.83503</u> NAD: 1927 <input type="checkbox"/> 1983 <input type="checkbox"/> Surface Owner Federal <input checked="" type="checkbox"/> State <input type="checkbox"/> Private <input type="checkbox"/> Indian <input type="checkbox"/>  |  |   |
| <b>Pit</b><br>Type: Drilling <input type="checkbox"/> Production <input checked="" type="checkbox"/> Disposal <input type="checkbox"/><br>Workover <input type="checkbox"/> Emergency <input type="checkbox"/><br>Lined <input type="checkbox"/> Unlined <input checked="" type="checkbox"/><br>Liner type: Synthetic <input type="checkbox"/> Thickness _____ mil Clay <input type="checkbox"/><br>Pit Volume <u>103 ±</u> bbl | <b>Below-grade tank</b><br>Volume: _____ bbl Type of fluid: _____<br>Construction material: _____<br>Double-walled, with leak detection? Yes <input type="checkbox"/> If not, explain why not: _____ |  |
| Depth to ground water (vertical distance from bottom of pit to seasonal high water elevation of ground water.)  | Less than 50 feet (20 points)<br>50 feet or more, but less than 100 feet (10 points) 0<br>100 feet or more (0 points)  |   |
| 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)<br>No (0 points) 0   |   |
| Distance to surface water: (horizontal distance to all wetlands, playas, irrigation canals, ditches, and perennial and ephemeral watercourses.)   | Less than 200 feet (20 points)<br>200 feet or more, but less than 1000 feet (10 points) 0<br>1000 feet or more (0 points)  |   |
|   | <b>Ranking Score (Total Points)</b> 0  |   |
|   |  |   |

**If this is a pit closure:** (1) attach a diagram of the facility showing the pit's relationship to other equipment and tanks. (2) Indicate disposal location: (check the onsite box if you are burying in place) onsite ☒ offsite ☐ If offsite, name of facility \_\_\_\_\_. (3) Attach a general description of remedial action taken including remediation start date and end date. (4) Groundwater encountered: No ☒ Yes ☐ If yes, show depth below ground surface \_\_\_\_\_ ft. and attach sample results. (5) Attach soil sample results and a diagram of sample locations and excavations.

|  |
|--|
| Additional Comments:   |
| 12' x 12' x 4'± deep unlined production separator pit, center located 150 feet North 47° West of wellhead.   |
| Use backhoe to remove impacted pit contents to dimension of 15' x 15' x 10'± and landfarm soils on location. |
| Collect 5-point composite soil sample from excavated pit for laboratory testing.                             |
| See attached field sampling report and laboratory test reports.  |

I hereby certify that the information above is true and complete to the best of my knowledge and belief. I further certify that the above-described pit or below-grade tank has been/will be constructed or closed according to NMOCD guidelines ☒, a general permit ☐, or an (attached) alternative OCD-approved plan ☐.

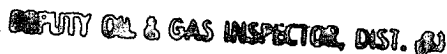
Date: 12-27-2005

Printed Name/Title Jeff Blagg, Agent

Signature Jeff Blagg

Your certification and NMOCD approval of this application/closure does not relieve the operator of liability should the contents of the pit or tank contaminate ground water or otherwise endanger public health or the environment. Nor does it relieve the operator of its responsibility for compliance with any other federal, state, or local laws and/or regulations.

Approval:



Printed Name/Title \_\_\_\_\_

Signature Denny Fenty

Date

DEC 29 2005

|                      |   |   |
|----------------------|---|---|
| CLIENT: <u>DUGAN</u> | <b>BLAGG ENGINEERING, INC.</b><br><b>P.O. BOX 87, BLOOMFIELD, NM 87413</b><br><b>(505) 632-1199</b> | LOCATION NO: _____<br><br>COCR NO: <u>14602</u> |
|----------------------|---|---|

|   |  |  |
|---|--|--|
| <b>FIELD REPORT: PIT CLOSURE VERIFICATION</b>   |  | PAGE No: <u>1</u> of <u>1</u>  |
| LOCATION: NAME: <u>SIXTEEN G'S</u> WELL #: <u>1</u> TYPE: <u>SEP</u><br>QUAD/UNIT: <u>E</u> SEC: <u>7</u> TWP: <u>24N</u> RNG: <u>9W</u> PM: <u>NM</u> CNTY: <u>SJ</u> ST: <u>NM</u><br>QTR/FOOTAGE: <u>1850 FNL x 990 FWL</u> CONTRACTOR: <u>JAC</u>   |  | DATE STARTED: <u>12-14-05</u><br>DATE FINISHED: <u>12-22-05</u>  |
| EXCAVATION APPROX. <u>15</u> FT. x <u>15</u> FT. x <u>10</u> FT. DEEP. CUBIC YARDAGE: <u>60±</u>  |  | ENVIRONMENTAL SPECIALIST: <u>JCB</u>   |
| DISPOSAL FACILITY: <u>ONSITE</u> REMEDIATION METHOD: <u>LF</u>  |  |  |
| LAND USE: <u>RANGE-BLM</u> LEASE: <u>NM 25433</u> FORMATION: <u>GAL</u>   |  |  |
| FIELD NOTES & REMARKS: PIT LOCATED APPROXIMATELY <u>150</u> FT. <u>N47W</u> FROM WELLHEAD.<br>DEPTH TO GROUNDWATER: <u>&gt;100</u> NEAREST WATER SOURCE: <u>&gt;1000</u> NEAREST SURFACE WATER: <u>&gt;1000</u><br>NMOC D RANKING SCORE: <u>0</u> NMOC D TPH CLOSURE STD: <u>5000</u> PPM   |  |  |
| SOIL AND EXCAVATION DESCRIPTION:<br>SOIL TYPE: SAND / <u>(SILTY SAND)</u> SILT / SILTY CLAY / CLAY / GRAVEL / OTHER _____<br>SOIL COLOR: _____<br>COHESION (ALL OTHERS): NON COHESIVE / <u>(SLIGHTLY COHESIVE)</u> COHESIVE / HIGHLY COHESIVE<br>CONSISTENCY (NON COHESIVE SOILS): LOOSE / <u>(FIRM)</u> DENSE / VERY DENSE<br>PLASTICITY (CLAYS): NON PLASTIC / SLIGHTLY PLASTIC / COHESIVE / MEDIUM PLASTIC / HIGHLY PLASTIC<br>DENSITY (COHESIVE CLAYS & SILTS): SOFT / FIRM / STIFF / VERY STIFF / HARD<br>MOISTURE: DRY / <u>(SLIGHTLY MOIST)</u> MOIST / WET / SATURATED / SUPER SATURATED<br>DISCOLORATION/STAINING OBSERVED: <u>YES</u> NO EXPLANATION - <u>DARK FROM PIT Base to 7'; lite Gray 7'-10'</u><br>HC ODOR DETECTED: <u>YES</u> NO EXPLANATION - <u>STRONG</u><br>SAMPLE TYPE: GRAB / <u>(COMPOSITE)</u> # OF PTS. <u>5</u><br>ADDITIONAL COMMENTS: <u>12'x12'x4' Deep unlined Pit - Heavy stain on surface. Use Backhoe to Excavate to Equipment limits @ 10'</u> |  | OVM CALIB. READ. = <u>52.2</u> ppm<br>OVM CALIB. GAS = <u>100</u> ppm RF = 0.52<br>TIME: <u>0935</u> am/pm DATE: <u>12-14-05</u> |

| FIELD 418.1 CALCULATIONS |          |         |            |          |          |         |             |
|--------------------------|----------|---------|------------|----------|----------|---------|-------------|
| SAMP. TIME               | SAMP. ID | LAB NO. | WEIGHT (g) | mL FREON | DILUTION | READING | CALC. (ppm) |
|                          |          |         |            |          |          |         |             |
|                          |          |         |            |          |          |         |             |

SCALE FT

0 15 FT

N

**PIT PERIMETER**

**OVM READING**

| SAMPLE ID | FIELD HEADSPACE (ppm) |
|-----------|-----------------------|
| 1 @       |                       |
| 2 @       |                       |
| 3 @       |                       |
| 4 @       |                       |
| 5 @       |                       |
| 5-Point   | <u>202</u>            |
| Composite |                       |
| R 10'     |                       |

**LAB SAMPLES**

| SAMPLE ID | ANALYSIS    | TIME        |
|-----------|-------------|-------------|
| 5-Point   | <u>TPH</u>  | <u>NMUN</u> |
|           | <u>BTEX</u> |             |
|           | <u>CL-</u>  |             |

**PIT PROFILE**

P.D. = PIT DEPRESSION; B.G. = BELOW GRADE; B = BELOW  
 T.H. = TEST HOLE; ~ = APPROX.; T.B. = TANK BOTTOM

|               |                |                         |
|---------------|----------------|-------------------------|
| TRAVEL NOTES: | CALLOUT: _____ | ONSITE: <u>12-14-05</u> |
|---------------|----------------|-------------------------|

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

|                      |                      |                     |           |
|----------------------|----------------------|---------------------|-----------|
| Client:              | Blagg / Dugan        | Project #:          | 94034-010 |
| Sample ID:           | Sixteen G's #1 - Sep | Date Reported:      | 12-19-05  |
| Laboratory Number:   | 35471                | Date Sampled:       | 12-14-05  |
| Chain of Custody No: | 14602                | Date Received:      | 12-15-05  |
| Sample Matrix:       | Soil                 | Date Extracted:     | 12-16-05  |
| Preservative:        | Cool                 | Date Analyzed:      | 12-19-05  |
| Condition:           | Cool and Intact      | Analysis Requested: | 8015 TPH  |

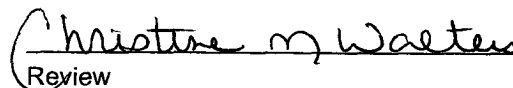
| Parameter                    | Concentration<br>(mg/Kg) | Det.<br>Limit<br>(mg/Kg) |
|------------------------------|--------------------------|--------------------------|
| Gasoline Range (C5 - C10)    | 131                      | 0.2                      |
| Diesel Range (C10 - C28)     | 575                      | 0.1                      |
| Total Petroleum Hydrocarbons | 706                      | 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: **Various Pit Closures 5-Point Comp. @ 10'.**

  
Analyst

  
Review

# ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

## EPA METHOD 8021 AROMATIC VOLATILE ORGANICS

|                    |                      |                     |           |
|--------------------|----------------------|---------------------|-----------|
| Client:            | Blagg / Dugan        | Project #:          | 94034-010 |
| Sample ID:         | Sixteen G's #1 - Sep | Date Reported:      | 12-19-05  |
| Laboratory Number: | 35471                | Date Sampled:       | 12-14-05  |
| Chain of Custody:  | 14602                | Date Received:      | 12-15-05  |
| Sample Matrix:     | Soil                 | Date Analyzed:      | 12-19-05  |
| Preservative:      | Cool                 | Date Extracted:     | 12-16-05  |
| Condition:         | Cool & Intact        | Analysis Requested: | BTEX      |

| Parameter    | Concentration<br>(ug/Kg) | Det.<br>Limit<br>(ug/Kg) |
|--------------|--------------------------|--------------------------|
| Benzene      | 37.0                     | 1.8                      |
| Toluene      | 145                      | 1.7                      |
| Ethylbenzene | 160                      | 1.5                      |
| p,m-Xylene   | 618                      | 2.2                      |
| o-Xylene     | 405                      | 1.0                      |
| Total BTEX   | 1,370                    |                          |


ND - Parameter not detected at the stated detection limit.

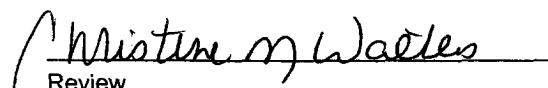
| Surrogate Recoveries: | Parameter           | Percent Recovery |
|-----------------------|---------------------|------------------|
|                       | Fluorobenzene       | 98.0 %           |
|                       | 1,4-difluorobenzene | 98.0 %           |
|                       | Bromochlorobenzene  | 98.0 %           |

References: Method 5030B, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Method 8021B, Aromatic Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: Various Pit Closures 5-Point Comp. @ 10'.

  
Analyst

  
Review

# ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

Chloride

|                |                      |                   |           |
|----------------|----------------------|-------------------|-----------|
| Client:        | Blagg / Dugan        | Project #:        | 94034-010 |
| Sample ID:     | Sixteen G's #1 - Sep | Date Reported:    | 12-19-05  |
| Lab ID#:       | 35471                | Date Sampled:     | 12-14-05  |
| Sample Matrix: | Soil                 | Date Received:    | 12-15-05  |
| Preservative:  | Cool                 | Date Analyzed:    | 12-19-05  |
| Condition:     | Cool and Intact      | Chain of Custody: | 14602     |

Parameter

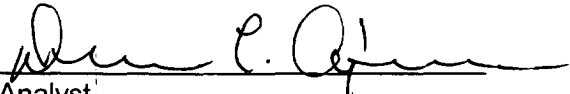
Concentration (mg/Kg)

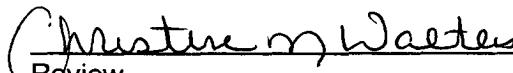
Total Chloride

67.8

Reference: Standard Methods For The Examination of Water And Waste Water", 18th ed., 1992.

Comments: Various Pit Closures 5-Point Comp. @ 10'.

  
Analyst

  
Review