No. 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 For drilling and production facilities, submit to appropriate NMOCD District Office.

For downstream facilities, submit to Santa Fe office

Form C-144

June 1, 2004

Pit or Below-Grade Tank Registration or Closure
Is pit or below-grade tank covered by a "general plan"? Yes No 🗵

| Operator: Dugan Production Corp | _Telephone: <u>(505)325-1821</u> e-mail addre | ess: |
|---|---|--|
| Address: P.O. Box 420, Farmington, New Mexico | | |
| Facility or well name: Mary Lou 90 API #: | | 2 T <u>24N</u> R <u>10W</u> |
| County: <u>San Juan</u> Latitude 36.26611 Longi | | |
| Pit | Below-grade tank | |
| | Volume:bbl Type of fluid: | |
| Workover ☐ Emergency ☐ | Construction material: | |
| Lined 🔲 Unlined 🔀 | Double-walled, with leak detection? Ye | es If not, explain why not. |
| Liner type: Synthetic Thicknessmil Clay | | |
| Pit Volume650 ±bbl | | |
| | Less than 50 feet | (20 points) |
| Depth to ground water (vertical distance from bottom of pit to s | seasonal 50 feet or more, but less than 100 feet | (10 points) 0 |
| nigh water elevation of ground water.) | 100 feet or more | (0 points) |
| | . Yes | (20 points) |
| Wellhead protection area: (Less than 200 feet from a private de | omestic | (0 points) 0 |
| water source, or less than 1000 feet from all other water source | s.) | |
| Distance to surface water: (horizontal distance to all wetlands, | Less than 200 feet | (20 points) |
| rrigation canals, ditches, and perennial and ephemeral waterco | 200 feet or more, but less than 1000 feet urses.) | |
| | 1000 feet or more | (0 points) |
| | Ranking Score (Total Points) | 0 |
| | | |
| his is a pit closure: (1) attach a diagram of the facility showin | a the nit's relationship to other equipment and tanks | (2) Indicate disposal location: Scheck the onsite boy if |
| r are burying in place) onsite (2) offsite (1) If offsite, name of | | |
| ediation start date and end date. (4) Groundwater encountered | | |
| | • | urracent. and attach sample results. (5) |
| ch soil sample results and a diagram of sample locations and e | xcavations. | 15/6/1/8/9 |
| Additional Comments: | | |
| 27' x 27' x 5'± deep unlined abandon production pit., center | <i>S</i> - | NOV 2005 |
| Collect 5 point composite of pit contents from base to 2 feet be | low base for laboratory testing. | RECEIVED 3 |
| See attached field sampling report and laboratory test reports. | | OUL COMS. DINY. 3 |
| | | OIST. 8 |
| | | V.C. SAN |
| hereby certify that the information above is true and complete | to the best of my knowledge and belief. I further o | partify the character against an helpy grade to |
| nas been/will be constructed or closed according to NMOCI Date: <u>NOV 15</u> , 2005 | D guidelines ⊠, a general permit □, or an (attacl | hed) alternative OCD-approved plan . |
| Printed Name/Title JEFF BLACK - AGE | T Signature fuff | Cless. |
| Your certification and NMOCD approval of this application/ck otherwise endanger public health or the environment. Nor does regulations. | | |
| Approval: CEUTY CL & GAS MATALICE, CES | | 1 7 200 NOV 1 7 200 |
| | | |

| 30-045-2802 | 6 | 36.26611 × 107 | .92413 | |
|---|---|--|------------------------|--|
| CLIENT: DUGAA | P.O. BOX | G ENGINEERING, 87, BLOOMFIELD, 505) 632-1199 | | LOCATION NO: |
| FIELD REP | ORT: PIT CL | OSURE VERIFI | CATION | PAGE No: of |
| QUAD/UNIT: M SE | C: 32 TWP: 24 N RNG | WELL#: 90 TYPE: a: 10W pm: NM CNTY: 5J | ST: NM | DATE STARTED: 11-2-05 DATE FINISHED: 11-2-05 ENVIRONMENTAL |
| | | contractor: NA | | ENVIRONMENTAL FCB |
| 1 | | NA FT. X NA FT. | | |
| DISPOSAL FACILITY | · NA | REMEDIAT | TION METHOD: | CLOSP AS 15 |
| | | | | |
| | | ATED APPROXIMATELY 5 | | |
| 1 | | ATER SOURCE: >1000 | | DE WATER: |
| NMOCD RANKING SCORE | : NMOCD TPH | CLOSURE STD: 5003 PP | OVM CALIB. READ | - 57.7 |
| SOIL AND EXC | AVATION DESCRIPT | ION: | OVM CALIB. GAS = | PPM 	 RF = 0.52 |
| | | | | amfor DATE: 1(・2・0で |
| SOIL COLOR: | rellow tar | CLAY / CLAY / GRAVEL / OTHE | | |
| COHESION (ALL OTHERS | HESIVE SOILS): (LOOSE FIRM | COHESIVE / COHESIVE / HIGHLY | COHESIVE | |
| | | 7 DENSE / VERT DENSE 1C / COHESIVE / MEDIUM PLASTIC / | HIGHLY PLASTIC | |
| | YS & SILTS): SOFT / FIRM / ST | | | |
| MOISTURE: DRY (SLIGH DISCOLORATION/STAINI | TLY MOIST MOIST / WET / SAT | TURATED / SUPER SATURATED | | |
| HC ODOR DETECTED: YE | ES / (NO) EXPLANATION - | | | |
| SAMPLE TYPE: GRAB (C ADDITIONAL COMMENTS: | OMPOSITE)# OF PTS5 | - 27 x 27 x 5- Point Compos | 5 Deps , the of P/+ | ABANDON Earthon 177. Contacts Fox 166. |
| | | | V | |
| SCALE | AMP. TIME SAMP. ID | FIELD 418.1 CALCI LAB NO. WEIGHT (g) | | JTION READING CALC. (ppm) |
| O, FT | | | | |
| i . | RIMETER | | F | PIT PROFILE |
| 1 | XIII I III X | OVM | | |
| ' | , | READING SAMPLE FIELD HEADSPACE | | ' |
| | 27 | 1D (ppm) | _ | |
| | (x (x) | 2 @ | | 27 |
| } | n 177 | 3 @ 4 @ | | |
| A | 8 27'A | 5.e 7.2 | 5' | |
| | 9 3 | companye | | |
| | | @S-7' | - | |
| | | | | |
| | | LAB SAMPLES | | |
| | | S-PULT TOH STE 0952 | | |
| | Page Unit | <u>€</u> . | | |
| P.D. = PIT DEPRESSION; B.I T.H. = TEST HOLE; ~ = APP | G. = BELOW GRADE; 8 = BELOW ROX.; T.B. = TANK BOTTOM | | | |
| TRAVEL NOTES: | CALLOUT: | ONSITE: 1 | 1-2-05 | |
| | | | | |



EPA METHOD 8015 Modified Nonhalogenated Volatile Organics Total Petroleum Hydrocarbons

| Client: | Blagg / Dugan | Project #: | 94034-010 |
|----------------------|-----------------|---------------------|-----------|
| Sample ID: | Mary Lou 90 | Date Reported: | 11-08-05 |
| Laboratory Number: | 34899 | Date Sampled: | 11-02-05 |
| Chain of Custody No: | 14584 | Date Received: | 11-03-05 |
| Sample Matrix: | Soil | Date Extracted: | 11-07-05 |
| Preservative: | Cool | Date Analyzed: | 11-08-05 |
| Condition: | Cool and Intact | Analysis Requested: | 8015 TPH |

| Parameter | Concentration (mg/Kg) | Det. Limit (mg/Kg) |
|------------------------------|--------------------------|--------------------------|
| Gasoline Range (C5 - C10) | 5.5 | 0.2 |
| Diesel Range (C10 - C28) | 8.8 | 0.1 |
| Total Petroleum Hydrocarbons | 14.3 | 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 Composite.

(Analyst Masters Walters

Review



EPA METHOD 8021 AROMATIC VOLATILE ORGANICS

| Client: | Blagg / Dugan | Project #: | 94034-010 |
|--------------------|---------------|---------------------|-----------|
| Sample ID: | Mary Lou 90 | Date Reported: | 11-08-05 |
| Laboratory Number: | 34899 | Date Sampled: | 11-02-05 |
| Chain of Custody: | 14584 | Date Received: | 11-03-05 |
| Sample Matrix: | Soil | Date Analyzed: | 11-08-05 |
| Preservative: | Cool | Date Extracted: | 11-07-05 |
| Condition: | Cool & Intact | Analysis Requested: | BTEX |

| Parameter | Concentration (ug/Kg) | Det. Limit (ug/Kg) | Limit | |
|--------------|-----------------------|--------------------------|-------|--|
| | | | | |
| Benzene | 70.2 | 1.8 | | |
| Toluene | 1,200 | 1.7 | | |
| Ethylbenzene | 401 | 1.5 | | |
| p,m-Xylene | 2,920 | 2.2 | | |
| o-Xylene | 781 | 1.0 | | |
| Total BTEX | 5,370 | | | |

ND - Parameter not detected at the stated detection limit.

| Surrogate Recoveries: | Parameter | Percent Recovery |
|-----------------------|---------------------|------------------|
| | Fluorobenzene | 99.0 % |
| | 1,4-difluorobenzene | 99.0 % |
| | Bromochlorobenzene | 99.0 % |

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 Composite.

Muster Wallers
Analyst

Review Way Buck



Chloride

| Client: | Blagg / Dugan | Project #: | 94034-010 |
|----------------|-----------------|-------------------|-----------|
| Sample ID: | Mary Lou 90 | Date Reported: | 11-09-05 |
| Lab ID#: | 34899 | Date Sampled: | 11-02-05 |
| Sample Matrix: | Soil | Date Received: | 11-03-05 |
| Preservative: | Cool | Date Extracted: | 11-07-05 |
| Condition: | Cool and Intact | Date Analyzed: | 11-08-05 |
| | | Chain of Custody: | 14584 |

Parameter Concentration (mg/L)

Total Chloride 510

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

Comments: Various Pit Closures 5 - Point Composite.

t /