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: Dugan Production Corp Telephone: (505)325-1821 e-mail address:
Address: P.O. Box 420, Farmington, New Mexico 87401
Facility or well name: Pac Ten #1 API #: 30-045-25917 U/L or Qtr/Qtr P Sec 7 T 24N R 9W
County: San Juan Latitude 36.32376 Longitude 107.82330 NAD: 1927 ☐ 1983 ☐ Surface Owner Federal ☒ State ☐ Private ☐ Indian ☐

| **Pit** | **Below-grade tank** | | |
|---|---|---|---|
| Type: Drilling ☐ Production ☒ Disposal ☐<br>Workover ☐ Emergency ☐<br>Lined ☐ Unlined ☒<br>Liner type: Synthetic ☐ Thickness ____mil Clay ☐<br>Pit Volume 77 ± bbl | Volume: ____bbl Type of fluid: ____<br>Construction material: ____<br>Double-walled, with leak detection? Yes ☐ 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<br>50 feet or more, but less than 100 feet<br>100 feet or more | (20 points)<br>(10 points)<br>( 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<br>No | (20 points)<br>( 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<br>200 feet or more, but less than 1000 feet<br>1000 feet or more | (20 points)<br>(10 points)<br>( 0 points) | 10 |
| | **Ranking Score (Total Points)** | | 10 |

**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 your 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 3'± deep unlined production separator pit, center located 69 feet North 35° West of wellhead.
Use backhoe to remove impacted pit contents to dimension of 12' x 12' x 8' ± 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.

DEC 2005
RECEIVED
OIL CONS. DIV.
DIST. 3

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 DEPUTY OIL & GAS INSPECTOR, DIST. #3 Signature Denny Foust Date: DEC 29 2005

30-045-25417 [illegible] 30.5C516 x 107-82330

CLIENT: DUGAN

**BLAGG ENGINEERING, INC.**
**P.O. BOX 87, BLOOMFIELD, NM 87413**
**(505) 632-1199**

LOCATION NO: _____
COCR NO: 14602

# FIELD REPORT: PIT CLOSURE VERIFICATION

PAGE No: 1 of 1

LOCATION: NAME: PAC TEN WELL #: 1 TYPE: SEP
QUAD/UNIT: P SEC: 7 TWP: 24N RNG: 9W PM: NM CNTY: SJ ST: NM
QTR/FOOTAGE: 790 FSL x 790 FEL CONTRACTOR: DPC

DATE STARTED: 12-14-05
DATE FINISHED: 12-22-05
ENVIRONMENTAL SPECIALIST: JCB

EXCAVATION APPROX. 12 FT. x 12 FT. x 8 FT. DEEP. CUBIC YARDAGE: 27±
DISPOSAL FACILITY: ON-SITE REMEDIATION METHOD: LF
LAND USE: RANGE - BLM LEASE: NM 45207 FORMATION: GAL

FIELD NOTES & REMARKS: PIT LOCATED APPROXIMATELY 69 FT. N35W FROM WELLHEAD.
DEPTH TO GROUNDWATER: >100 NEAREST WATER SOURCE: >1000 NEAREST SURFACE WATER: <1000
NMOCD RANKING SCORE: 10 NMOCD TPH CLOSURE STD: 1000 PPM

OVM CALIB. READ. = 52.2 ppm
OVM CALIB. GAS = 100 ppm RF = 0.52
TIME: 0835 (am/pm) DATE: 12/14

## SOIL AND EXCAVATION DESCRIPTION:

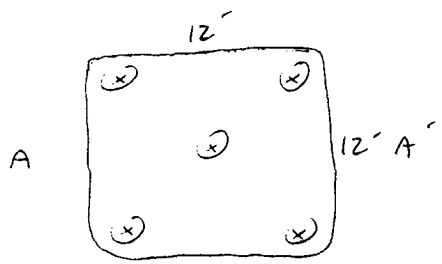
SOIL TYPE: SAND (SILTY SAND) / SILT / SILTY CLAY / CLAY / GRAVEL / OTHER _____
SOIL COLOR: LITE TAN
COHESION (ALL OTHERS): NON COHESIVE / (SLIGHTLY COHESIVE) / COHESIVE / HIGHLY COHESIVE
CONSISTENCY (NON COHESIVE SOILS): LOOSE / (FIRM) / DENSE / VERY DENSE
PLASTICITY (CLAYS): NON PLASTIC / SLIGHTLY PLASTIC / COHESIVE / MEDIUM PLASTIC / HIGHLY PLASTIC
DENSITY (COHESIVE CLAYS & SILTS): SOFT / FIRM / STIFF / VERY STIFF / HARD
MOISTURE: DRY / (SLIGHTLY MOIST) / MOIST / WET / SATURATED / SUPER SATURATED
DISCOLORATION/STAINING OBSERVED: (YES) / NO EXPLANATION - IN REMOVED SOILS
HC ODOR DETECTED: (YES) / NO EXPLANATION - IN REMOVED SOILS
SAMPLE TYPE: GRAB / (COMPOSITE) - # OF PTS. 5
ADDITIONAL COMMENTS: 12'x12'x8' Deep Earthen Pit. Use Backhoe To Remove Impacted Soils

FIELD 418.1 CALCULATIONS

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

SCALE 0 FT

## PIT PERIMETER




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

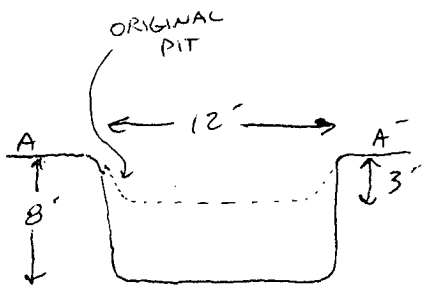
OVM READING

| SAMPLE ID | FIELD HEADSPACE (ppm) |
|---|---|
| 1 @ | |
| 2 @ | |
| 3 @ | |
| 4 @ | |
| 5 @ | |
| 5-Point @ 8' | 34 |

LAB SAMPLES

| SAMPLE ID | ANALYSIS | TIME |
|---|---|---|
| 5-Point | TPH | 1050 |
| | BTEX | |
| | Cl⁻ | |

## PIT PROFILE




TRAVEL NOTES: CALLOUT: _____ ONSITE: 12/14/05

revised: 09/04/02 bei1005C.skf

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

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

| | | | |
|---|---|---|---|
| Client: | Blagg / Dugan | Project #: | 94034-010 |
| Sample ID: | PacTen #1 - Sep | Date Reported: | 12-19-05 |
| Laboratory Number: | 35472 | 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 (mg/Kg) | Det. Limit (mg/Kg) |
|---|---|---|
| **Gasoline Range (C5 - C10)** | **1.7** | **0.2** |
| **Diesel Range (C10 - C28)** | **56.8** | **0.1** |
| **Total Petroleum Hydrocarbons** | **58.5** | **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. @ 8'.**

Analyst

Review

5796 U.S. Highway 64 • Farmington, NM 87401 • Tel 505 • 632 • 0615 • Fax 505 • 632 • 1865

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

# EPA METHOD 8021
# AROMATIC VOLATILE ORGANICS

| | | | |
|---|---|---|---|
| Client: | Blagg / Dugan | Project #: | 94034-010 |
| Sample ID: | PacTen #1 - Sep | Date Reported: | 12-19-05 |
| Laboratory Number: | 35472 | 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 (ug/Kg) | Det. Limit (ug/Kg) |
|---|---|---|
| **Benzene** | 1.8 | 1.8 |
| **Toluene** | 51.0 | 1.7 |
| **Ethylbenzene** | 76.5 | 1.5 |
| **p,m-Xylene** | 419 | 2.2 |
| **o-Xylene** | 78.5 | 1.0 |
| **Total BTEX** | 627 | |

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. @ 8'.**

Analyst

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

# Chloride

| | | | |
|---|---|---|---|
| Client: | Blagg / Dugan | Project #: | 94034-010 |
| Sample ID: | PacTen #1 - Sep | Date Reported: | 12-19-05 |
| Lab ID#: | 35472 | 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** | **97.8** |

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

Comments: **Various Pit Closures 5-Point Comp. @ 8'.**

Analyst

Review

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