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: BP AMERICA PROD. CO. Telephone: (505)-326-9200 e-mail address:
Address: 200 ENERGY COURT, FARMINGTON, NM 87410
Facility or well name: WARREN A LS #1 API #: 30-045- 07142 U/L or Qtr/Qtr K Sec 25 T 28N R 9W
County: SAN JUAN Latitude 36.63086 Longitude 107.74323 NAD: 1927 ☐ 1983 ☒ Surface Owner Federal ☒ State ☐ Private ☐ Indian ☐

| **Pit** | **Below-grade tank** | | |
|---|---|---|---|
| Type: Drilling ☐ Production ☒ Disposal ☐ SEPARATOR<br>Workover ☐ Emergency ☐<br>Lined ☒ Unlined ☐ STEEL TANK<br>Liner type: Synthetic ☐ Thickness _____mil Clay ☐<br>Pit Volume _____bbl | Volume: _____bbl Type of fluid:<br>Construction material: N/A<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) | 10 |
| 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) | 0 |
| | **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 PIT LOCATED APPROXIMATELY 93 FT. N23W FROM WELL HEAD.
PIT EXCAVATION: WIDTH N/A ft., LENGTH N/A ft., DEPTH N/A ft.
PIT REMEDIATION: CLOSE AS IS: ☒, LANDFARM: ☐, COMPOST: ☐, STOCKPILE: ☐, OTHER ☐ (explain)
Cubic yards: N/A

RCVD APR5'07
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 alternative OCD-approved plan ☒.**

Date: 08/8/06

PrintedName/Title Jeff Blagg – P.E. # 11607 Signature

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, District #3 Signature Date: AUG 0 1 2007

VHL

CLIENT: BP

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

LOCATION NO. B089
COCR NO: 14641

# FIELD REPORT: PIT CLOSURE VERIFICATION

PAGE No: 1 of 1

LOCATION: NAME: WARREN A LS WELL # 1 TYPE: SEP.
QUAD/UNIT K SEC: 25 TWP: 28N RNG: 9W PM: NM CNTY: SJ ST: NM
QTR/FOOTAGE: 1850' S/1650' W NE/SW CONTRACTOR: HOI (EDGAR)

DATE STARTED 8/2/06
DATE FINISHED
ENVIRONMENTAL SPECIALIST NV

EXCAVATION APPROX. NA FT. x NA FT. x NA FT. DEEP. CUBIC YARDAGE: NA
DISPOSAL FACILITY: ON-SITE REMEDIATION METHOD: CLOSE AS IS
LAND USE: RANGE - BLM LEASE: SF077112 FORMATION: MV

FIELD NOTES & REMARKS: PIT LOCATED APPROXIMATELY 93 FT. N23W FROM WELLHEAD.
DEPTH TO GROUNDWATER <100' NEAREST WATER SOURCE >1,000' NEAREST SURFACE WATER: >1,000'
NMOCD RANKING SCORE 10 NMOCD TPH CLOSURE STD 1,000 PPM

OVM CALIB. READ. = 51.7 ppm
OVM CALIB. GAS = 100 ppm RF = 0.52
TIME: 11:05 (am)/pm DATE 8/1/06

## SOIL AND EXCAVATION DESCRIPTION:

SOIL TYPE: (SAND) / SILTY SAND / SILT / SILTY CLAY / CLAY / GRAVEL / OTHER
SOIL COLOR: PALE YELL. BROWN TO DK. YELL ORANGE
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 -
HC ODOR DETECTED: YES (NO) EXPLANATION -
SAMPLE TYPE: (GRAB) / COMPOSITE - # OF PTS. —
ADDITIONAL COMMENTS: STEEL TANK REMOVED PRIOR TO ARRIVAL.

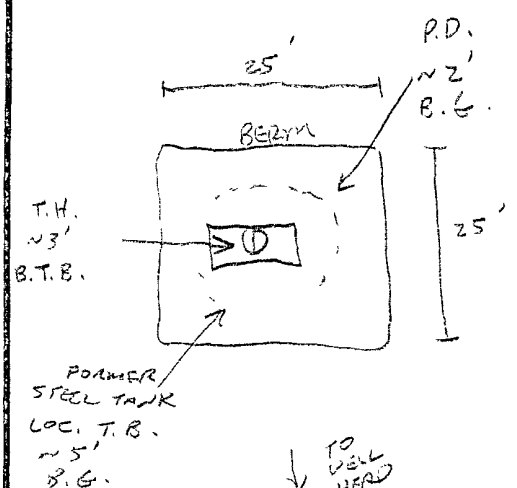
CLOSED

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 @ 8' | |
| 2 @ | |
| 3 @ | |
| 4 @ | |
| 5 @ | |

## LAB SAMPLES

| SAMPLE ID | ANALYSIS | TIME |
|---|---|---|
| De 8 | TPH (8015B) | 1125 |
| | | |
| | PASSED | |

## PIT PROFILE

NOT APPLICABLE

TRAVEL NOTES: CALLOUT: 8/1/06 - AFTER. ONSITE: 8/2/06 - MORN. (SCHED.)

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

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

| | | | |
|---|---|---|---|
| Client: | Blagg / BP | Project #: | 94034-010 |
| Sample ID: | 1 @ 8' | Date Reported: | 08-03-06 |
| Laboratory Number: | 38037 | Date Sampled: | 08-02-06 |
| Chain of Custody No: | 14641 | Date Received: | 08-02-06 |
| Sample Matrix: | Soil | Date Extracted: | 08-02-06 |
| Preservative: | Cool | Date Analyzed: | 08-03-06 |
| Condition: | Cool and Intact | Analysis Requested: | 8015 TPH |

| Parameter | Concentration (mg/Kg) | Det. Limit (mg/Kg) |
|---|---|---|
| **Gasoline Range (C5 - C10)** | **ND** | **0.2** |
| **Diesel Range (C10 - C28)** | **ND** | **0.1** |
| **Total Petroleum Hydrocarbons** | **ND** | **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: **Warren A LS #1 Separator Pit Grab Sample**

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

# Chloride

| | | | |
|---|---|---|---|
| Client: | Blagg / BP | Project #: | 94034-010 |
| Sample ID: | 1 @ 8' | Date Reported: | 08-03-06 |
| Lab ID#: | 38037 | Date Sampled: | 08-02-06 |
| Sample Matrix: | Soil | Date Received: | 08-02-06 |
| Preservative: | Cool | Date Analyzed: | 08-03-06 |
| Condition: | Cool and Intact | Chain of Custody: | 14641 |

| Parameter | Concentration (mg/Kg) |
|---|---|
| **Total Chloride** | **90.0** |

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

Comments: **Warren A LS #1 Separator Pit Grab Sample**

Analyst

Review

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# CHAIN OF CUSTODY RECORD

14641

| Client / Project Name | Project Location | ANALYSIS / PARAMETERS |
|---|---|---|
| BLAGG / BP | WARREN A LS #1 | |
| Sampler: NV | Client No. 94034-010 | |

| Sample No./ Identification | Sample Date | Sample Time | Lab Number | Sample Matrix | No. of Containers | TPH 8015B | | CHLORIDE | | | | Remarks |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | PRESERVED COOL |
| | | | | | | | | | | | | GRAB SAMPLES |
| ① @ 7' | 8/2/06 | 1115 NV | 38036 | SOIL | 1 | ✓ | | ✓ | | | | BLOW/PRODUCTION TANK PIT |
| | | | | | | | | | | | | |
| ① @ 8' | 8/2/06 | 1125 NV | 38037 | SOIL | 1 | ✓ | | ✓ | | | | SEPARATOR PIT |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |

| Relinquished by: (Signature) | Date | Time | Received by: (Signature) | Date | Time |
|---|---|---|---|---|---|
| Nelson VJ | 8/2/06 | 1358 | Ruth Vaull | 8/2/06 | 1358 |
| Relinquished by: (Signature) | | | Received by: (Signature) | | |
| Relinquished by: (Signature) | | | Received by: (Signature) | | |

ENVIROTECH INC.
5796 U.S. Highway 64
Farmington, New Mexico 87401
(505) 632-0615

| Sample Receipt | Y | N | N/A |
|---|---|---|---|
| Received Intact | ✓ | | |
| Cool - Ice/Blue Ice | ✓ | | |

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

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

## Quality Assurance Report

| | | | |
|---|---|---|---|
| Client: | QA/QC | Project #: | N/A |
| Sample ID: | 08-03-06 QA/QC | Date Reported: | 08-03-06 |
| Laboratory Number: | 38031 | Date Sampled: | N/A |
| Sample Matrix: | Methylene Chloride | Date Received: | N/A |
| Preservative: | N/A | Date Analyzed: | 08-03-06 |
| Condition: | N/A | Analysis Requested: | TPH |

| | I-Cal Date | I-Cal RF: | C-Cal RF: | % Difference | Accept. Range |
|---|---|---|---|---|---|
| **Gasoline Range C5 - C10** | 07-11-05 | 9.9873E+002 | 9.9973E+002 | **0.10%** | **0 - 15%** |
| **Diesel Range C10 - C28** | 07-11-05 | 1.0009E+003 | 1.0029E+003 | **0.20%** | **0 - 15%** |

| Blank Conc. (mg/L - mg/Kg) | Concentration | Detection Limit |
|---|---|---|
| **Gasoline Range C5 - C10** | **ND** | **0.2** |
| **Diesel Range C10 - C28** | **ND** | **0.1** |
| **Total Petroleum Hydrocarbons** | **ND** | **0.2** |

| Duplicate Conc. (mg/Kg) | Sample | Duplicate | % Difference | Accept. Range |
|---|---|---|---|---|
| **Gasoline Range C5 - C10** | **726** | **722** | **0.6%** | **0 - 30%** |
| **Diesel Range C10 - C28** | **515** | **512** | **0.6%** | **0 - 30%** |

| Spike Conc. (mg/Kg) | Sample | Spike Added | Spike Result | % Recovery | Accept. Range |
|---|---|---|---|---|---|
| **Gasoline Range C5 - C10** | **726** | **250** | **975** | **99.9%** | **75 - 125%** |
| **Diesel Range C10 - C28** | **515** | **250** | **763** | **99.8%** | **75 - 125%** |

*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: **QA/QC for Samples 38031 - 38033, 38036 - 38037**

Analyst

Review

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