

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  
220 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  
March 12, 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>BP AMERICA PROD. CO.</u> Telephone: <u>(505) 326-9200</u>		
Address: <u>200 Energy Court, Farmington, NM 87410</u>		
Facility or well name: <u>HARDIE LS #2A</u>	API #: <u>30-045-22812</u>	U/L or Qtr/Qtr <u>C</u> Sec <u>25</u> T <u>29N</u> R <u>8W</u>
County: <u>San Juan</u> Latitude <u>36.70164</u> Longitude <u>107.63095</u>	NAD: 1927 <input type="checkbox"/> 1983 <input checked="" type="checkbox"/> Surface Owner Federal <input checked="" type="checkbox"/> State <input type="checkbox"/> Private <input type="checkbox"/> Indian <input type="checkbox"/>	
<b>Pit</b> Type: Drilling <input type="checkbox"/> Production <input type="checkbox"/> Disposal <input checked="" type="checkbox"/> BLOW Workover <input type="checkbox"/> Emergency <input type="checkbox"/> Lined <input type="checkbox"/> Unlined <input checked="" type="checkbox"/> Liner type: Synthetic <input type="checkbox"/> Thickness <u>      </u> mil Clay <input type="checkbox"/> Volume <u>      </u> bbl	<b>Below-grade tank</b> Volume: <u>      </u> bbl Type of fluid: <u>      </u> Construction material: <u>N/A</u> Double-walled with leak detection? Yes <input checked="" 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 50 feet or more, but less than 100 feet 100 feet or more	(20 points) (10 points) <u>0</u> ( 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 No	(20 points) ( 0 points) <u>0</u>
Distance to surface water: (horizontal distance to all wetlands, playas, irrigation canals, ditches, and perennial and ephemeral watercourses.)	Less than 200 feet 200 feet or more, but less than 1000 feet 1000 feet or more	(20 points) (10 points) <u>0</u> ( 0 points)
Ranking Score (Total Points)		<u>0</u>

**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:

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.

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: 08/17/04

Printed Name/Title Jeff Blagg - P.E. # 11607

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:

MAR 14 2007

Date:       

DEPUTY OIL & GAS INSPECTOR, DIST. #3

Printed Name/Title       

Signature Bob Bell

RCVD MAR14/07  
OIL CONS. DIV.  
DIST. 3

3004522812

36.70164 107.63095

CLIENT: <u>BP</u>	<b>BLAGG ENGINEERING, INC.</b> <b>P.O. BOX 87, BLOOMFIELD, NM 87413</b> <b>(505) 632-1199</b>	LOCATION NO: <u>81446</u> COCR NO: <u>12091</u>
<b>FIELD REPORT: PIT CLOSURE VERIFICATION</b>		PAGE No: <u>1</u> of <u>1</u>
LOCATION: NAME: <u>HARDIE LS</u> WELL #: <u>2A</u> TYPE: <u>BLOW</u> QUAD/UNIT: <u>C SEC: 25 TWP: 29N RNG: 8W</u> PM: <u>NM</u> CNTY: <u>ST</u> ST: <u>NM</u> QTR/FOOTAGE: <u>800N/1750W</u> NEINW CONTRACTOR: <u>HDI (JOAQUIN)</u>		DATE STARTED: <u>8/13/04</u> DATE FINISHED: _____ ENVIRONMENTAL SPECIALIST: <u>NV</u>
EXCAVATION APPROX. <u>19</u> FT. x <u>18</u> FT. x <u>4</u> FT. DEEP. CUBIC YARDAGE: <u>50</u>		
DISPOSAL FACILITY: <u>ON-SITE</u> REMEDIATION METHOD: <u>LANDFARM</u>		
LAND USE: <u>RANGE-BLM</u> LEASE: <u>SF078416A</u> FORMATION: <u>MV</u>		
FIELD NOTES & REMARKS: PIT LOCATED APPROXIMATELY <u>170</u> FT. <u>54E</u> FROM WELLHEAD.		
DEPTH TO GROUNDWATER: <u>&gt;100'</u> NEAREST WATER SOURCE: <u>&gt;1000'</u> NEAREST SURFACE WATER: <u>&gt;1000'</u>		
NMOCD RANKING SCORE: <u>0</u> NMOCD TPH CLOSURE STD: <u>5000</u> PPM		
SOIL AND EXCAVATION DESCRIPTION: <u>ELEV. -6388'</u>		
OVM CALIB. READ. = <u>53.8</u> ppm OVM CALIB. GAS = <u>100</u> ppm RF = 0.52 TIME: <u>10:46</u> am/pm DATE: <u>8/13/04</u>		
SOIL TYPE: <u>SAND</u> SILTY SAND / SILT / SILTY CLAY / CLAY / GRAVEL / OTHER <u>BEDROCK (SANDSTONE)</u>		
SOIL COLOR: <u>LT. MED. TO MED. GRAY</u> <u>BEDROCK - OLIVE GRAY</u>		
COHESION (ALL OTHERS): <u>NON COHESIVE</u> SLIGHTLY COHESIVE / COHESIVE / HIGHLY COHESIVE		
CONSISTENCY (NON COHESIVE SOILS): <u>LOOSE</u> <u>FIRM</u> 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 / <u>MOIST</u> / WET / SATURATED / <u>SUPER SATURATED</u> ← SOIL ABOVE BEDROCK		
DISCOLORATION/STAINING OBSERVED: <u>YES</u> / NO EXPLANATION - <u>ENTIRE PIT AREA + BEDROCK SURFACE.</u>		
HC ODOR DETECTED: <u>YES</u> / NO EXPLANATION - <u>ENTIRE PIT + OVM SAMPLE</u>		
SAMPLE TYPE: <u>GRAB</u> COMPOSITE - # OF PTS. _____		
ADDITIONAL COMMENTS: <u>COLLECTED SAMPLE FROM BEDROCK SURFACE. BEDROCK - SOFT TO HARD, FRIABLE TO SLIGHTLY FRIABLE.</u>		
<div style="border: 1px solid black; padding: 2px; display: inline-block;">BEDROCK BOTTOM</div>		

SCALE  0 FT	<b>FIELD 418.1 CALCULATIONS</b>																																																
	<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <th>SAMP. TIME</th> <th>SAMP. ID</th> <th>LAB NO.</th> <th>WEIGHT (g)</th> <th>mL FREON</th> <th>DILUTION</th> <th>READING</th> <th>CALC. (ppm)</th> </tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> </table>	SAMP. TIME	SAMP. ID	LAB NO.	WEIGHT (g)	mL FREON	DILUTION	READING	CALC. (ppm)																																								
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**PIT PERIMETER**

**OVM READING**

SAMPLE ID	FIELD HEADSPACE (ppm)
1 @ 6'	149.6
2 @	
3 @	
4 @	
5 @	

**LAB SAMPLES**

SAMPLE ID	ANALYSIS	TIME
1 @ 6'	TAH (80158)	1038
"	BTEX (80213)	"

BOTH PASSED

**PIT PROFILE**

NOT APPLICABLE

TRAVEL NOTES: CALLOUT: 8/12/04 - AFTER. ONSITE: 8/13/04 - MORN.

# ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

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

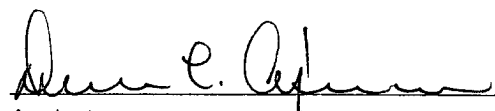
Client:	Blagg / BP	Project #:	94034-010
Sample ID:	1 @ 6'	Date Reported:	08-17-04
Laboratory Number:	30041	Date Sampled:	08-13-04
Chain of Custody No:	12091	Date Received:	08-16-04
Sample Matrix:	Soil	Date Extracted:	08-16-04
Preservative:	Cool	Date Analyzed:	08-17-04
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

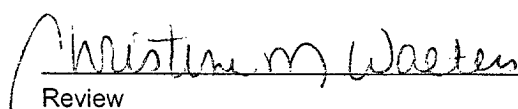
Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	349	0.2
Diesel Range (C10 - C28)	663	0.1
Total Petroleum Hydrocarbons	1,010	0.2

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: **Hardie LS #2A Blow Pit Grab Sample.**

  
Analyst

  
Review

# ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

## EPA METHOD 8021 AROMATIC VOLATILE ORGANICS

Client:	Blagg / BP	Project #:	94034-010
Sample ID:	1 @ 6'	Date Reported:	08-17-04
Laboratory Number:	30041	Date Sampled:	08-13-04
Chain of Custody:	12091	Date Received:	08-16-04
Sample Matrix:	Soil	Date Analyzed:	08-17-04
Preservative:	Cool	Date Extracted:	08-16-04
Condition:	Cool & Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	ND	1.8
Toluene	ND	1.7
Ethylbenzene	ND	1.5
p,m-Xylene	7.6	2.2
o-Xylene	17.5	1.0
Total BTEX	25.1	

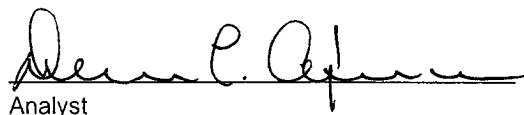
ND - Parameter not detected at the stated detection limit.

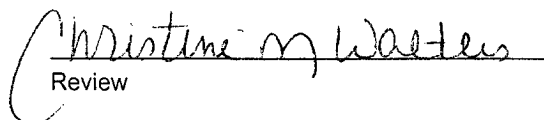
Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	99 %
	1,4-difluorobenzene	99 %
	Bromochlorobenzene	99 %

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: Hardie LS #2A Blow Pit Grab Sample.

  
Analyst

  
Review