

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
20 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"/>	
Pit Type: Drilling <input type="checkbox"/> Production <input type="checkbox"/> Disposal <input checked="" type="checkbox"/> DEHY/SEP Workover <input type="checkbox"/> Emergency <input type="checkbox"/> Lined <input type="checkbox"/> Unlined <input checked="" type="checkbox"/> Liner type: Synthetic <input type="checkbox"/> Thickness _____ mil Clay <input type="checkbox"/> Volume _____ bbl	Below-grade tank Volume: _____ bbl Type of fluid: _____ Construction material: <u>N/A</u> 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)
	50 feet or more, but less than 100 feet	(10 points) 0
	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)
	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)
	200 feet or more, but less than 1000 feet	(10 points) 0
	1000 feet or more	(0 points)
Ranking Score (Total Points)		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:

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:


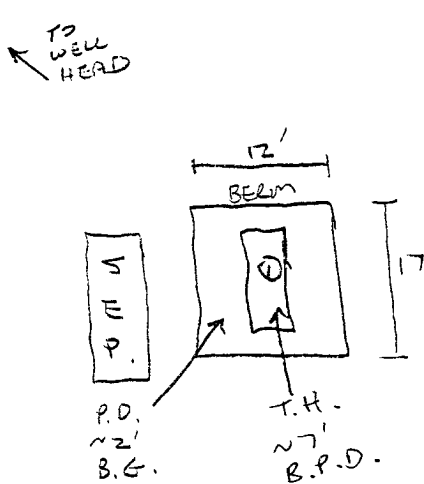
MAR 14 2005

Date: _____

Printed Name/Title DEPUTY OIL & GAS INSPECTOR, DIST. #2

Signature [Signature]

3465-22 OF 2

CLIENT: <u>BP</u>	BLAGG ENGINEERING, INC. P.O. BOX 87, BLOOMFIELD, NM 87413 (505) 632-1199	LOCATION NO: <u>31446</u> COCR NO: <u>12091</u>																										
FIELD REPORT: PIT CLOSURE VERIFICATION		PAGE No: <u>1</u> of <u>1</u>																										
LOCATION: NAME: <u>HARDIE LS</u> WELL #: <u>2A</u> TYPE: <u>DEHY. / SEP.</u> QUAD/UNIT: <u>C SEC: 25 TWP: 29N RNG: 8W PM: NM CNTY: ST NM</u> QTR/FOOTAGE: <u>800'N/1750'W</u> NE/NE CONTRACTOR: <u>HOT (JOAQUIN)</u>		DATE STARTED: <u>8/13/04</u> DATE FINISHED: _____ ENVIRONMENTAL SPECIALIST: <u>NV</u>																										
EXCAVATION APPROX. <u>10</u> FT. x <u>15</u> FT. x <u>7</u> FT. DEEP. CUBIC YARDAGE: <u>40</u>																												
DISPOSAL FACILITY: <u>ON-SITE</u> REMEDIATION METHOD: <u>LANDFARM</u>																												
LAND USE: <u>RANGE - BLM</u> LEASE: <u>SF 078416A</u> FORMATION: <u>MV</u>																												
FIELD NOTES & REMARKS: PIT LOCATED APPROXIMATELY <u>132</u> FT. <u>588E</u> FROM WELLHEAD.																												
DEPTH TO GROUNDWATER: <u>>100'</u> NEAREST WATER SOURCE: <u>>1000'</u> NEAREST SURFACE WATER: <u>>1000'</u>																												
NMOC D RANKING SCORE: <u>0</u> NMOC D TPH CLOSURE STD: <u>5000</u> PPM																												
SOIL AND EXCAVATION DESCRIPTION:		OVM CALIB. READ. = <u>53.8</u> ppm OVM CALIB. GAS = <u>100</u> ppm RF = 0.52 TIME: <u>10:46</u> am 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. 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> - <u>SOIL ABOVE BEDROCK</u>																												
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. <u>1</u>																												
ADDITIONAL COMMENTS: <u>COLLECTED SAMPLE FROM BEDROCK SURFACE. BEDROCK - SOFT TO HARD, FRAGILE TO SLIGHTLY FRIABLE.</u>																												
FIELD 418.1 CALCULATIONS																												
SCALE  0 FT	<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <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> </thead> <tbody> <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> </tbody> </table>		SAMP. TIME	SAMP. ID	LAB NO.	WEIGHT (g)	mL FREON	DILUTION	READING	CALC. (ppm)																		
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PIT PERIMETER	PIT PROFILE																											
<div style="display: flex; justify-content: space-between;"> <div style="width: 40%;">  <p style="font-size: small;">P.D. = PIT DEPRESSION; B.G. = BELOW GRADE; B = BELOW T.H. = TEST HOLE; ~ = APPROX.; T.B. = TANK BOTTOM</p> </div> <div style="width: 55%;"> <table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th colspan="2">OVM READING</th> </tr> <tr> <th>SAMPLE ID</th> <th>FIELD HEADSPACE (ppm)</th> </tr> </thead> <tbody> <tr><td>1 @ 9'</td><td>114.9</td></tr> <tr><td>2 @</td><td> </td></tr> <tr><td>3 @</td><td> </td></tr> <tr><td>4 @</td><td> </td></tr> <tr><td>5 @</td><td> </td></tr> </tbody> </table> <table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th colspan="3">LAB SAMPLES</th> </tr> <tr> <th>SAMPLE ID</th> <th>ANALYSIS</th> <th>TIME</th> </tr> </thead> <tbody> <tr><td>1 @ 9'</td><td>TPH (80158)</td><td>1025</td></tr> <tr><td>"</td><td>BTEX (80158)</td><td>"</td></tr> </tbody> </table> <p style="text-align: center; border: 1px solid black; border-radius: 50%; padding: 5px; display: inline-block;"> BOTH PASSED </p> </div> </div>			OVM READING		SAMPLE ID	FIELD HEADSPACE (ppm)	1 @ 9'	114.9	2 @		3 @		4 @		5 @		LAB SAMPLES			SAMPLE ID	ANALYSIS	TIME	1 @ 9'	TPH (80158)	1025	"	BTEX (80158)	"
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"	BTEX (80158)	"																										
TRAVEL NOTES: CALLOUT: <u>8/12/04 - AFTER.</u> ONSITE: <u>8/13/04 - MORN.</u>																												

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 @ 9'	Date Reported:	08-17-04
Laboratory Number:	30042	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

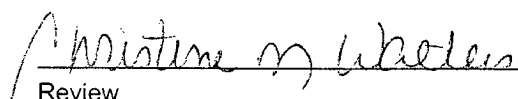
Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	0.4	0.2
Diesel Range (C10 - C28)	1.6	0.1
Total Petroleum Hydrocarbons	2.0	0.2

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 Dehydrator/Separator 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 @ 9'	Date Reported:	08-17-04
Laboratory Number:	30042	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	15.8	1.7
Ethylbenzene	ND	1.5
p,m-Xylene	113	2.2
o-Xylene	34.5	1.0
Total BTEX	163	

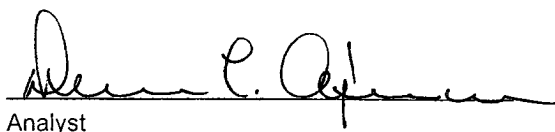
ND - Parameter not detected at the stated detection limit.

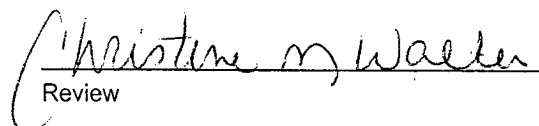
Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	99 %
	1,4-difluorobenzene	99 %
	Bromochlorobenzene	99 %

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 Dehydrator/Separator Pit Grab Sample.


Analyst


Review

CLIENT: BP**BLAGG ENGINEERING, INC.**
P.O. BOX 87, BLOOMFIELD, NM 87413
(505) 632-1199LOCATION NO: 81446C.O.C. NO: 14617**FIELD REPORT: LANDFARM/COMPOST PILE CLOSURE VERIFICATION**LOCATION: NAME: HARDIE LS WELL #: 2A PITS: DEHY. / SEP. 800W
QUAD/UNIT: C SEC: 25 TWP: 29N RNG: 8W PM: NM CNTY: SJ ST: NM
QTR/FOOTAGE: NE/NW CONTRACTOR: _____DATE STARTED: 3/29/06

DATE FINISHED: _____

ENVIRONMENTAL
SPECIALIST: NVSOIL REMEDIATION: 90REMEDICATION SYSTEM: LANDFARM

APPROX. CUBIC YARDAGE: _____

LAND USE: RANGE - BLMLIFT DEPTH (ft): 1**FIELD NOTES & REMARKS:**DEPTH TO GROUNDWATER: >100' NEAREST SURFACE WATER: >1,000'NEAREST WATER SOURCE: >1,000' NMOCD RANKING SCORE: 0 NMOCD TPH CLOSURE STD: 5,000 PPM

SOIL TYPE: SAND / SILTY SAND / SILT / SILTY CLAY / CLAY / GRAVEL / OTHER _____

SOIL COLOR: _____

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

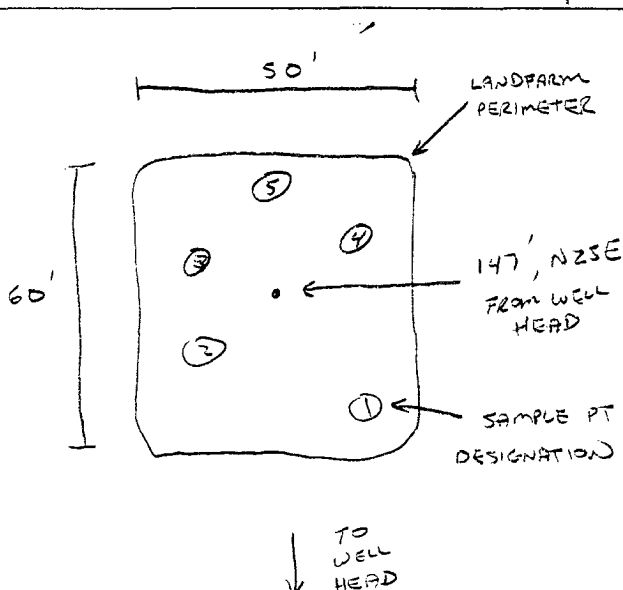
CLOSED

DISCOLORATION/STAINING OBSERVED: YES / NO EXPLANATION - _____

HC ODOR DETECTED: YES / NO EXPLANATION - _____

SAMPLING DEPTHS (LANDFARMS): 6-8 (INCHES)SAMPLE TYPE: GRAB / COMPOSITE # OF PTS. 5

ADDITIONAL COMMENTS: _____

SKETCH/SAMPLE LOCATIONSOVM CALIB. READ. = 53.2 ppm
OVM CALIB. GAS = 100 ppm RF = 0.52
TIME: 7:45 am/pm DATE: 3/29/06**OVM RESULTS****LAB SAMPLES**

SAMPLE ID	FIELD HEADSPACE (ppm)	SAMPLE ID	ANALYSIS	TIME	RESULTS
LF-1	0.0	LF-1	TPH (8015B)	1327	1,060

P.C. - 8/13/04

SCALE
0 FTTRAVEL NOTES: CALLOUT: N/AONSITE: 3/29/06

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified Nonhalogenated Volatile Organics Total Petroleum Hydrocarbons

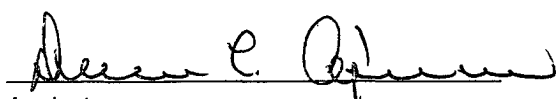
Client:	Blagg / BP	Project #:	94034-010
Sample ID:	LF - 1	Date Reported:	03-31-06
Laboratory Number:	36647	Date Sampled:	03-29-06
Chain of Custody No:	14617	Date Received:	03-30-06
Sample Matrix:	Soil	Date Extracted:	03-30-06
Preservative:	Cool	Date Analyzed:	03-31-06
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

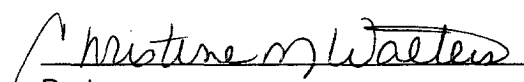
Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	ND	0.2
Diesel Range (C10 - C28)	1,060	0.1
Total Petroleum Hydrocarbons	1,060	0.2

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 Landfarm 5 Pt. Composite Sample.**


Analyst


Review