

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

State of New Mexico
Energy Minerals and Natural Resources

Form C-144
June 1, 2004

District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

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

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> e-mail address: _____		
Address: <u>200 ENERGY COURT, FARMINGTON, NM 87410</u>		
Facility or well name: <u>HUGHES LS #99</u> API #: <u>30-045- 24648</u> U/L or Qtr/Qtr <u>D</u> Sec <u>30</u> T <u>29N</u> R <u>8W</u>		
County: <u>SAN JUAN</u> Latitude <u>36.70159</u> Longitude <u>107.72100</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"/> <u>BLOW</u> 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"/> Pit 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 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: (check the onsite box if you 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: <u>PIT LOCATED APPROXIMATELY 162 FT. S49E FROM WELL HEAD</u>
<u>PIT EXCAVATION: WIDTH N/Aft., LENGTH N/Aft., DEPTH N/Aft.</u>
<u>PIT REMEDIATION: CLOSE AS IS: <input checked="" type="checkbox"/> LANDFARM: <input type="checkbox"/> COMPOST: <input type="checkbox"/> STOCKPILE: <input type="checkbox"/> OTHER <input type="checkbox"/> (explain)</u>
Cubic yards: <u>N/A</u>
BEDROCK BOTTOM

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: 08/22/05

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: DEPUTY OIL & GAS INSPECTOR, DIST. 4 Signature [Signature] Date: FEB 28 2006

30045 24648

36.70159 / 107.72100

CLIENT: BP
BLAGG ENGINEERING, INC.
P.O. BOX 87, BLOOMFIELD, NM 87413
(505) 632-1199
LOCATION NO: 81615COCR NO: 13943**FIELD REPORT: PIT CLOSURE VERIFICATION**PAGE No: 1 of 1 D+ALOCATION: NAME: HUGHES LS WELL #: 99 TYPE: BLOWQUAD/UNIT: D SEC: 30 TWP: 29N RNG: 8W PM: NM CNTY: SJ ST: NMQTR/FOOTAGE: 800'N/800'W NW/NE CONTRACTOR: PAS (FERNANDO)DATE STARTED: 8/18/05

DATE FINISHED: _____

ENVIRONMENTAL SPECIALIST: NVEXCAVATION APPROX. NA FT. x NA FT. x NA FT. DEEP. CUBIC YARDAGE: NADISPOSAL FACILITY: ON-SITE REMEDIATION METHOD: CLOSE AS ISLAND USE: RANGE - BLM LEASE: NM 073162/SF 079938 FORMATION: MV/OKFIELD NOTES & REMARKS: PIT LOCATED APPROXIMATELY 162 FT. 549E FROM WELLHEAD.DEPTH TO GROUNDWATER: >100' NEAREST WATER SOURCE: >1000' NEAREST SURFACE WATER: >1000'NMOC D RANKING SCORE: 0 NMOC D TPH CLOSURE STD: 5,000 PPMSOIL AND EXCAVATION DESCRIPTION: ELEV. - 6,491'
 OVM CALIB. READ. = 51.9 ppm CHECK
 OVM CALIB. GAS = 100 ppm RF = 0.52
 TIME: 2:35 am/pm DATE: 8/18/05
SOIL TYPE: (SAND) SILTY SAND / SILT / SILTY CLAY / CLAY / GRAVEL / OTHER BEDROCK (SANDSTONE)SOIL COLOR: DK. YELL. ORANGE TO DK. GRAY BEDROCK - LT. GRAYCOHESION (ALL OTHERS): (NON COHESIVE) SLIGHTLY COHESIVE / COHESIVE / HIGHLY COHESIVECONSISTENCY (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 SATURATEDDISCOLORATION/STAINING OBSERVED: YES NO EXPLANATION - BET. 3.5' - 4' BELOW GRADE (DK. GRAY) + BEDROCK (LT. GRAY) CLOSEDHC ODOR DETECTED: YES NO EXPLANATION - DISCOLORED PORTION + OVM SAMPLESAMPLE TYPE: (GRAB) COMPOSITE - # OF PTS. -ADDITIONAL COMMENTS: SAMPLED SOIL ABOVE BEDROCK, INSTRUCTED OPERATOR TO DILUTE/AERATE
BEDROCK BOTTOM IMPACTED SOIL + LEAVE IN PLACE.

SCALE



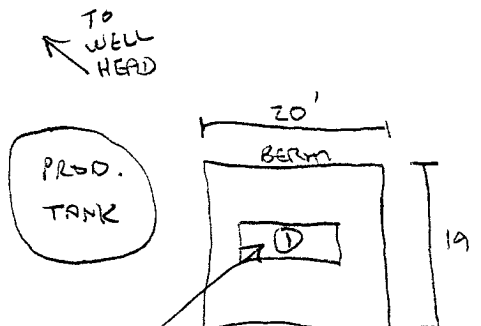
0 FT

FIELD 418.1 CALCULATIONS

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

PIT PERIMETER

PIT PROFILE



T.H.

~ 1'

B.P.D.

P.D. ~ 3' B.G.

OVM
READING

SAMPLE ID	FIELD HEADSPACE (ppm)
1 @ 4'	2,789
2 @	
3 @	
4 @	
5 @	

LAB SAMPLES

SAMPLE ID	ANALYSIS	TIME
DC 4'	TPH (8015B)	1538
"	BTEX (9018)	"

PASSED

NOT APPLICABLE

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

TRAVEL NOTES:

CALLOUT: 8/18/05 - noonONSITE: 8/18/05 - AFTER.

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 @ 4'	Date Reported:	08-22-05
Laboratory Number:	34098	Date Sampled:	08-18-05
Chain of Custody No:	13943	Date Received:	08-19-05
Sample Matrix:	Soil	Date Extracted:	08-20-05
Preservative:	Cool	Date Analyzed:	08-22-05
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

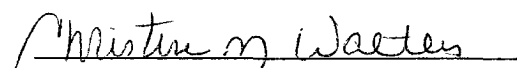
Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	899	0.2
Diesel Range (C10 - C28)	49.4	0.1
Total Petroleum Hydrocarbons	948	0.2

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: **Hughes LS #99 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 @ 4'	Date Reported:	08-22-05
Laboratory Number:	34098	Date Sampled:	08-18-05
Chain of Custody:	13943	Date Received:	08-19-05
Sample Matrix:	Soil	Date Analyzed:	08-22-05
Preservative:	Cool	Date Extracted:	08-20-05
Condition:	Cool & Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	598	2.1
Toluene	5,570	1.8
Ethylbenzene	3,650	1.7
p,m-Xylene	18,360	1.5
o-Xylene	6,700	2.2
Total BTEX	34,880	

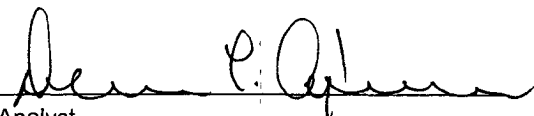
ND - Parameter not detected at the stated detection limit.

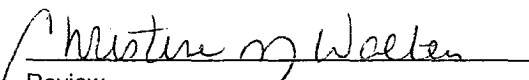
Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	97.0 %
	1,4-difluorobenzene	97.0 %
	Bromochlorobenzene	97.0 %

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: Hughes LS #99 Blow Pit Grab Sample.


Analyst


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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: HUGHES LS #99 API #: 30-045- 24648 U/L or Qtr/Qtr D Sec 30 T 29N R 8W
County: SAN JUAN Latitude 36.70159 Longitude 107.72100 NAD: 1927 ☐ 1983 ☒ Surface Owner Federal ☒ State ☐ Private ☐ Indian ☐

Pit
Type: Drilling ☐ Production ☐ Disposal ☒ DEHYDRATOR
Workover ☐ Emergency ☐
Lined ☐ Unlined ☒
Liner type: Synthetic ☐ Thickness _____ mil Clay ☐
Pit Volume _____ bbl

Below-grade tank
Volume: _____ bbl Type of fluid: _____
Construction material: N/A
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	(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
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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 you 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 123 FT. S61W 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

BEDROCK BOTTOM

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: 08/22/05

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

Signature Jeff C. 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: DEPUTY OIL & GAS INSPECTOR, DIST. 4

Printed Name/Title _____

Signature [Signature]

Date: FEB 28 2006

CLIENT: <u>BP</u>	BLAGG ENGINEERING, INC. P.O. BOX 87, BLOOMFIELD, NM 87413 (505) 632-1199	LOCATION NO: <u>81615</u> COCR NO: <u>13943</u>
FIELD REPORT: PIT CLOSURE VERIFICATION		PAGE No: <u>1</u> of <u>1</u>
LOCATION: NAME: <u>HUGHES</u> <u>LS</u> WELL #: <u>99</u> TYPE: <u>DETH.</u> QUAD/UNIT: <u>D</u> SEC: <u>30</u> TWP: <u>29N</u> RNG: <u>8W</u> PM: <u>NM</u> CNTY: <u>SJ</u> ST: <u>NM</u> QTR/FOOTAGE: <u>800'N 800'W</u> NW/NE CONTRACTOR: <u>P+S (FERNANDO)</u>		DATE STARTED: <u>8/18/05</u> DATE FINISHED: _____ ENVIRONMENTAL SPECIALIST: <u>NV</u>
EXCAVATION APPROX. <u>NA</u> FT. x <u>NA</u> FT. x <u>NA</u> FT. DEEP. CUBIC YARDAGE: <u>NA</u> DISPOSAL FACILITY: <u>ON-SITE</u> REMEDIATION METHOD: <u>CLOSE AS IS</u> LAND USE: <u>RANGE-BURN</u> LEASE: <u>Nm 073162 / SF 079938</u> FORMATION: <u>MV/DK</u>		
FIELD NOTES & REMARKS: <u>PIT LOCATED APPROXIMATELY 123 FT. S61W FROM WELLHEAD.</u> DEPTH TO GROUNDWATER: <u>>100'</u> NEAREST WATER SOURCE: <u>>1,000'</u> NEAREST SURFACE WATER: <u>>1,000'</u> NMOCD RANKING SCORE: <u>0</u> NMOCD TPH CLOSURE STD: <u>5,000</u> PPM		
SOIL AND EXCAVATION DESCRIPTION: <u>ELEV. - 6491'</u>		OVM CALIB. READ. = _____ ppm OVM CALIB. GAS = <u>100</u> ppm RF = <u>0.52</u> TIME: _____ am/pm DATE: _____
SOIL TYPE: <u>SAND</u> / SILTY SAND / SILT / SILTY CLAY / CLAY / GRAVEL / OTHER <u>BEDROCK (SANDSTONE)</u> SOIL COLOR: <u>DK. YELL. ORANGE TO DK. YELL. BROWN</u> <u>BEDROCK - DK. YELL. BROWN</u> COHESION (ALL OTHERS): <u>NON COHESIVE</u> / SLIGHTLY COHESIVE / COHESIVE / HIGHLY COHESIVE CONSISTENCY (NON COHESIVE SOILS): <u>LOOSE</u> / FIRM / DENSE / VERY DENSE PLASTICITY (CLAYS): <u>NON PLASTIC</u> / SLIGHTLY PLASTIC / COHESIVE / MEDIUM PLASTIC / HIGHLY PLASTIC DENSITY (COHESIVE CLAYS & SILTS): <u>SOFT</u> / FIRM / STIFF / VERY STIFF / HARD MOISTURE: <u>DRY</u> / <u>SLIGHTLY MOIST</u> / <u>MOIST</u> / WET / SATURATED / SUPER SATURATED DISCOLORATION/STAINING OBSERVED: <u>YES</u> NO EXPLANATION - <u>BET. 3'-3.5' BELOW GRADE (DK. YELL. BROWN) & BEDROCK</u> HC ODOR DETECTED: <u>YES</u> NO EXPLANATION - <u>DISCOLORED PORTION & OVM SAMPLE.</u> SAMPLE TYPE: GRAB / COMPOSITE - # OF PTS. <u>—</u> ADDITIONAL COMMENTS: <u>COLLECTED SAMPLE FROM SOIL ABOVE BEDROCK. BEDROCK - VERY HARD,</u> <div style="border: 1px solid black; padding: 2px; display: inline-block;"> <u>BEDROCK BOTTOM</u> </div> <u>COMPETENT. INSTRUCTED OPERATOR TO CLOSE AS IS.</u>		

SCALE 0 FT	FIELD 418.1 CALCULATIONS																																																																																																																																																																															
PIT PERIMETER <p style="margin-top: 20px;">P.D. ~ 2.5' B.G.</p>	<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> <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> <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> </tbody> </table> <table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th colspan="3">OVM READING</th> </tr> <tr> <th>SAMPLE ID</th> <th>FIELD HEADSPACE (ppm)</th> <th> </th> </tr> </thead> <tbody> <tr><td>1 @ 3.5'</td><td>3283</td><td> </td></tr> <tr><td>2 @</td><td> </td><td> </td></tr> <tr><td>3 @</td><td> </td><td> </td></tr> <tr><td>4 @</td><td> </td><td> </td></tr> <tr><td>5 @</td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </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 @ 3.5'</td><td>TPH (80158)</td><td>1602</td></tr> <tr><td>"</td><td>BTEX (80218)</td><td>"</td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> </tbody> </table> <div style="text-align: center; margin-top: 10px;"> <div style="border: 2px solid black; border-radius: 50%; padding: 10px; display: inline-block;"> PASSED </div> </div>	SAMP. TIME	SAMP. ID	LAB NO.	WEIGHT (g)	mL FREON	DILUTION	READING	CALC. (ppm)																																																																																	OVM READING			SAMPLE ID	FIELD HEADSPACE (ppm)		1 @ 3.5'	3283		2 @			3 @			4 @			5 @																																	LAB SAMPLES			SAMPLE ID	ANALYSIS	TIME	1 @ 3.5'	TPH (80158)	1602	"	BTEX (80218)	"																								
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PIT PROFILE <div style="text-align: center; font-size: 2em; margin-top: 50px;"> NOT APPLICABLE </div>	TRAVEL NOTES: CALLOUT: <u>8/18/05 - NOON</u> ONSITE: <u>8/18/05 - AFTER</u>
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EPA METHOD 8015 Modified Nonhalogenated Volatile Organics Total Petroleum Hydrocarbons


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Preservative:	Cool	Date Analyzed:	08-22-05
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

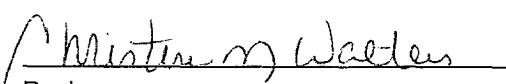
Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	902	0.2
Diesel Range (C10 - C28)	412	0.1
Total Petroleum Hydrocarbons	1,310	0.2

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: **Hughes LS #99 Dehydrator 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 @ 3.5'	Date Reported:	08-22-05
Laboratory Number:	34099	Date Sampled:	08-18-05
Chain of Custody:	13943	Date Received:	08-19-05
Sample Matrix:	Soil	Date Analyzed:	08-25-05
Preservative:	Cool	Date Extracted:	08-20-05
Condition:	Cool & Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	117	2.1
Toluene	1,250	1.8
Ethylbenzene	1,390	1.7
p,m-Xylene	10,070	1.5
o-Xylene	3,600	2.2
Total BTEX	16,430	

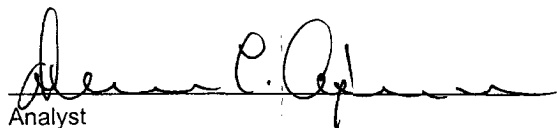
ND - Parameter not detected at the stated detection limit.

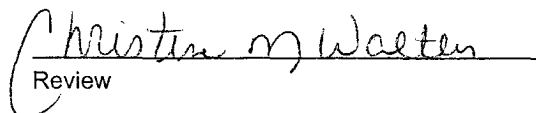
Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	99.0 %
	1,4-difluorobenzene	99.0 %
	Bromochlorobenzene	99.0 %

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: Hughes LS #99 Dehydrator Pit Grab Sample.


Analyst


Review

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

Form C-144
June 1, 2004

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

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> e-mail address: _____		
Address: <u>200 ENERGY COURT, FARMINGTON, NM 87410</u>		
Facility or well name: <u>HUGHES LS #99</u> API #: <u>30-045- 24648</u> U/L or Qtr/Qtr <u>D</u> Sec <u>30</u> T <u>29N</u> R <u>8W</u>		
County: <u>SAN JUAN</u> Latitude <u>36.70159</u> Longitude <u>107.72100</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"/> <u>SEPARATOR</u> 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"/> Pit 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 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: (check the onsite box if you 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: <u>PIT LOCATED APPROXIMATELY 81 FT. S29W FROM WELL HEAD.</u>
<u>PIT EXCAVATION: WIDTH N/Aft., LENGTH N/Aft., DEPTH N/Aft.</u>
<u>PIT REMEDIATION: CLOSE AS IS: <input checked="" type="checkbox"/> LANDFARM: <input type="checkbox"/> COMPOST: <input type="checkbox"/> STOCKPILE: <input type="checkbox"/> OTHER <input type="checkbox"/> (explain)</u>
Cubic yards: <u>N/A</u>
RISK ASSESSED

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: 08/22/05

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:

Printed Name/Title DEPUTY OIL & GAS INSPECTOR, DIST. 03

Signature [Signature]

Date: FEB 28 2006

CLIENT: <u>BP</u>	BLAGG ENGINEERING, INC. P.O. BOX 87, BLOOMFIELD, NM 87413 (505) 632-1199	LOCATION NO: <u>B1615</u> COCR NO: <u>13943</u>
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FIELD REPORT: PIT CLOSURE VERIFICATION		PAGE No: <u>1</u> of <u>1</u>
LOCATION: NAME: <u>HUGHES LS</u> WELL #: <u>99</u> TYPE: <u>SEP.</u> QUAD/UNIT: <u>D</u> SEC: <u>30</u> TWP: <u>29N</u> RNG: <u>8W</u> PM: <u>NM</u> CNTY: <u>ST</u> ST: <u>NM</u> QTR/FOOTAGE: <u>800'N/800'W</u> NW/NW CONTRACTOR: <u>P+S (FERNANDO)</u>		DATE STARTED: <u>8/18/05</u> DATE FINISHED: _____ ENVIRONMENTAL SPECIALIST: <u>NV</u>
EXCAVATION APPROX. <u>NA</u> FT. x <u>NA</u> FT. x <u>NA</u> FT. DEEP. CUBIC YARDAGE: <u>NA</u> DISPOSAL FACILITY: <u>ON-SITE</u> REMEDIATION METHOD: <u>CLOSE AS IS</u> LAND USE: <u>RANGE - BLM</u> LEASE: <u>NM 073162 / ST 079938</u> FORMATION: <u>MV/DK</u>		
FIELD NOTES & REMARKS: PIT LOCATED APPROXIMATELY <u>81</u> FT. <u>529W</u> FROM WELLHEAD. DEPTH TO GROUNDWATER: <u>>100'</u> NEAREST WATER SOURCE: <u>>1,000'</u> NEAREST SURFACE WATER: <u>>1,000'</u> NMOCD RANKING SCORE: <u>0</u> NMOCD TPH CLOSURE STD: <u>5,000</u> PPM		
SOIL AND EXCAVATION DESCRIPTION:		OVM CALIB. READ. = <u>51.9</u> ppm CHECK OVM CALIB. GAS = <u>100</u> ppm RF = 0.52 TIME: <u>2:35</u> am/pm DATE: <u>8/18/05</u>
SOIL TYPE: <u>SAND</u> / SILTY SAND / SILT / SILTY CLAY / CLAY / GRAVEL / OTHER _____ SOIL COLOR: <u>PALE YELL. ORANGE TO BLACK</u> COHESION (ALL OTHERS): <u>NON COHESIVE</u> / SLIGHTLY COHESIVE / COHESIVE / HIGHLY COHESIVE CONSISTENCY (NON COHESIVE SOILS): <u>LOOSE / 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 / WET</u> SATURATED / SUPER SATURATED DISCOLORATION/STAINING OBSERVED: <u>YES</u> / NO EXPLANATION - <u>BET. 6'-12' BELOW GRADE (LT. CLAY TO BLACK)</u> HC ODOR DETECTED: <u>YES</u> / NO EXPLANATION - <u>DISCOURED PORTION & OVM SAMPLE.</u> SAMPLE TYPE: <u>GRAB</u> / COMPOSITE - # OF PTS. _____ ADDITIONAL COMMENTS: <u>INSTRUCTED OPERATOR TO QUOTE / HEAVY IMPACTED SOIL & LEAVE IN PLACE.</u>		

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. ~ 4.5' B.G.

OVM READING

SAMPLE ID	FIELD HEADSPACE (ppm)
1 @ 12'	3,312
2 @	
3 @	
4 @	
5 @	

LAB SAMPLES

SAMPLE ID	ANALYSIS	TIME
DC12	TPH (82158)	1548
"	BTEX (90218)	"
TGT. BTEX FAILED		

PIT PROFILE

NOT APPLICABLE

TRAVEL NOTES: CALLOUT: <u>8/18/05 - NOON.</u>	ONSITE: <u>8/18/05 - AFTER.</u>
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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified Nonhalogenated Volatile Organics Total Petroleum Hydrocarbons

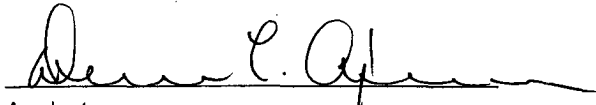
Client:	Blagg / BP	Project #:	94034-010
Sample ID:	1 @ 12'	Date Reported:	08-22-05
Laboratory Number:	34100	Date Sampled:	08-18-05
Chain of Custody No:	13943	Date Received:	08-19-05
Sample Matrix:	Soil	Date Extracted:	08-20-05
Preservative:	Cool	Date Analyzed:	08-22-05
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

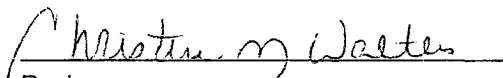
Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	3,680	0.2
Diesel Range (C10 - C28)	720	0.1
Total Petroleum Hydrocarbons	4,400	0.2

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: **Hughes LS #99 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 @ 12'	Date Reported:	08-22-05
Laboratory Number:	34100	Date Sampled:	08-18-05
Chain of Custody:	13943	Date Received:	08-19-05
Sample Matrix:	Soil	Date Analyzed:	08-22-05
Preservative:	Cool	Date Extracted:	08-20-05
Condition:	Cool & Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	316	2.1
Toluene	16,680	1.8
Ethylbenzene	5,070	1.7
p,m-Xylene	23,110	1.5
o-Xylene	8,150	2.2
Total BTEX	53,330	

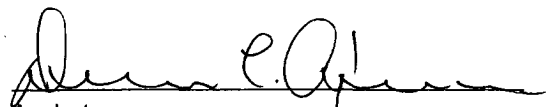
ND - Parameter not detected at the stated detection limit.

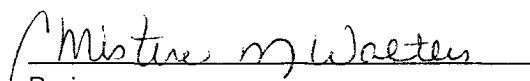
Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	97.0 %
	1,4-difluorobenzene	97.0 %
	Bromochlorobenzene	97.0 %

References: Method 5030B, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

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Review