

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  
1 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: BP AMERICA PROD. CO. Telephone: (505) 326-9200

Address: 200 Energy Court, Farmington, NM 87410

Facility or well name: HEATH, WD A #2 API #: 30-045-08381 U/L or Qtr/Qu A Sec 17 T 29N R 9W

County: San Juan Latitude 36.72950 Longitude 107.79612 NAD: 1927 ☐ 1983 ☒ Surface Owner Federal ☒ State ☐ Private ☐ Indian ☐

**Pit**

Type: Drilling ☐ Production ☐ Disposal ☒ BLOW (II)

Workover ☐ Emergency ☐

Lined ☒ Unlined ☐ STEEL TANK

Liner type: Synthetic ☐ Thickness        mil Clay ☐ 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)

100 feet or more

( 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

(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)

1000 feet or more

( 0 points)

0

**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: 08/06/04

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:

Date: JAN 09 2006

Printed Name/Title DEPUTY OIL & GAS INSPECTOR, DIST. 3

Signature Debra Parrell

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>80166</u>
		COCR NO: <u>—</u>

**FIELD REPORT: PIT CLOSURE VERIFICATION**

LOCATION: NAME: <u>HEATH, W.D. A</u> WELL #: <u>2</u> TYPE: <u>BLOW (II)</u>	PAGE No: <u>1</u> of <u>1</u>
QUAD/UNIT: <u>A</u> SEC: <u>17</u> TWP: <u>29N</u> RNG: <u>9W</u> PM: <u>NM</u> CNTY: <u>SJ</u> ST: <u>NM</u>	DATE STARTED: <u>8/6/04</u>
QTR/FOOTAGE: <u>1020N/960E</u> NE/E CONTRACTOR: <u>LTL (BRIAN)</u>	DATE FINISHED: <u>—</u>
EXCAVATION APPROX. <u>NA</u> FT. x <u>NA</u> FT. x <u>NA</u> FT. DEEP. CUBIC YARDAGE: <u>NA</u>	ENVIRONMENTAL SPECIALIST: <u>NV</u>
DISPOSAL FACILITY: <u>ON-SITE</u> REMEDIATION METHOD: <u>CLOSE AS IS</u>	
LAND USE: <u>RANGE-BLM</u> LEASE: <u>SF 076337</u> FORMATION: <u>MV</u>	

**FIELD NOTES & REMARKS:**PIT LOCATED APPROXIMATELY 174 FT. N86E FROM WELLHEAD.DEPTH TO GROUNDWATER: >100' NEAREST WATER SOURCE: >1000' NEAREST SURFACE WATER: >1000'NMOCD RANKING SCORE: 0 NMOCD TPH CLOSURE STD: 5000 PPM**SOIL AND EXCAVATION DESCRIPTION:**ELEV. -5730'

OVM CALIB. READ. = 53.6 ppm CHECK  
 OVM CALIB. GAS = 100 ppm RF = 0.52  
 TIME: 11:30 am/pm DATE: 8/4/04

SOIL TYPE: SAND / SILTY SAND / SILT / SILTY CLAY / CLAY / GRAVEL / OTHERSOIL COLOR: DK. YEL. 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

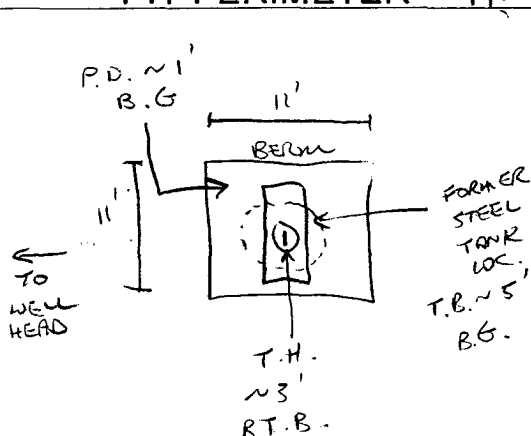
DENSITY (COHESIVE CLAYS &amp; SILTS): SOFT / FIRM / STIFF / VERY STIFF / HARD

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: REMOVED 21 BBL STEEL TANK, THEN ADVANCED TEST HOLE. NO TPH ANALYSIS WAS CONDUCTED.CLOSED**FIELD 418.1 CALCULATIONS****SCALE**

0 FT

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

**PIT PERIMETER****OVM READING**

SAMPLE ID	FIELD HEADSPACE (ppm)
1 @ 8'	0.0
2 @	
3 @	
4 @	
5 @	

**LAB SAMPLES**

SAMPLE ID	ANALYSIS	TIME
		1000

**PIT PROFILE**

NOT APPLICABLE

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

**TRAVEL NOTES:**CALLOUT: 8/5/04 - AFTER.ONSITE: 8/6/04 - MORN. (SCHED.)

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State of New Mexico  
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Form C-144  
March 12, 2004

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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

Address: 200 Energy Court, Farmington, NM 87410

Facility or well name: HEATH, WD A #2 API #: 30-045-08381 U/L or Qtr: Qtr. A Sec 17 T 29N R 9W

County: San Juan Latitude 36.72950 Longitude 107.79612 NAD: 1927 ☐ 1983 ☒ Surface Owner Federal ☒ State ☐ Private ☐ Indian ☐

**Pit**  
Type: Drilling ☐ Production ☐ Disposal ☒ SEPARATOR (II)  
Workover ☐ Emergency ☐  
Lined ☒ Unlined ☐ STEEL TANK  
Liner type: Synthetic ☐ Thickness \_\_\_\_\_ mil Clay ☐ 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)

<b>Ranking Score (Total Points)</b>	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:

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: 08/11/04

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

Signature: [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: JAN 09 2006

ate: \_\_\_\_\_

DEPUTY OIL & GAS INSPECTOR, DIST. 4

Printed Name/Title: \_\_\_\_\_

Signature: [Signature]

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>80166</u> COCR NO: <u>12090</u>
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<b>FIELD REPORT: PIT CLOSURE VERIFICATION</b>		PAGE No: <u>1</u> of <u>1</u>
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LOCATION: NAME: <u>HEATH, W.D. A</u> WELL #: <u>2</u> TYPE: <u>SEP. (II)</u> QUAD/UNIT: <u>A SEC: 17 TWP: 29N RNG: 9W PM: Nm CNTY: SJ ST: NM</u> QTR/FOOTAGE: <u>1020'N/960'E</u> NEI/NE CONTRACTOR: <u>LTL (BRIAN)</u>	DATE STARTED: <u>8/6/04</u> DATE FINISHED: _____ ENVIRONMENTAL SPECIALIST: <u>NV</u>
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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>SF076337</u> FORMATION: <u>MV</u>

FIELD NOTES & REMARKS:	PIT LOCATED APPROXIMATELY <u>129</u> FT. <u>5745</u> FROM WELLHEAD. DEPTH TO GROUNDWATER: <u>&gt;100'</u> NEAREST WATER SOURCE: <u>&gt;1000'</u> NEAREST SURFACE WATER: <u>&gt;1000'</u> NMOC D RANKING SCORE: <u>0</u> NMOC D TPH CLOSURE STD: <u>5000</u> PPM
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SOIL AND EXCAVATION DESCRIPTION: <u>ELEV. -5730'</u> SOIL TYPE: <u>SAND</u> / SILTY SAND / SILT / SILTY CLAY / CLAY / GRAVEL / OTHER _____ SOIL COLOR: <u>OK. YELL. ORANGE TO BLACK</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> / SLIGHTLY MOIST / MOIST / WET / SATURATED / SUPER SATURATED DISCOLORATION/STAINING OBSERVED: YES / NO EXPLANATION - <u>OLIVE GRAY BET. 9'-11' ; BLACK BET. 6'-9'</u> HC ODOR DETECTED: <u>YES</u> / NO EXPLANATION - <u>DISCOLORED SOIL</u> SAMPLE TYPE: <u>GRAB</u> COMPOSITE - # OF PTS. _____ ADDITIONAL COMMENTS: <u>REMOVED 45 BBL STEEL TANK, THEN ADVANCED TEST HOLE. INSTRUCTED OPERATOR TO OILITE &amp; AERATE IMPACTED SOIL &amp; LEAVE IN PLACE.</u>	OVM CALIB. READ. = <u>53.6</u> ppm CHECK OVM CALIB. GAS = <u>100</u> ppm RF = 0.52 TIME: <u>11:30</u> am/pm DATE: <u>8/4/04</u>
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CLOSED

SCALE	FIELD 418.1 CALCULATIONS							
0 FT	SAMP. TIME	SAMP. ID	LAB NO.	WEIGHT (g)	mL FREON	DILUTION	READING	CALC. (ppm)

**PIT PERIMETER**

**OVM READING**

SAMPLE ID	FIELD HEADSPACE (ppm)
1 @ 11'	235.2
2 @	
3 @	
4 @	
5 @	

**LAB SAMPLES**

SAMPLE ID	ANALYSIS	TIME
DE 11'	TPH (80158)	1030
"	BTEX (80218)	"
<b>BOTH PASSED</b>		

**PIT PROFILE**

NOT APPLICABLE

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

# ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

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

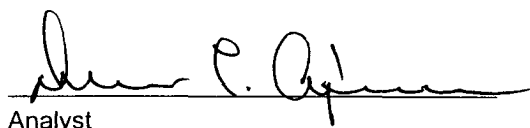
Client:	Blagg / BP	Project #:	94034-010
Sample ID:	1 @ 11'	Date Reported:	08-11-04
Laboratory Number:	29898	Date Sampled:	08-06-04
Chain of Custody No:	12090	Date Received:	08-09-04
Sample Matrix:	Soil	Date Extracted:	08-09-04
Preservative:	Cool	Date Analyzed:	08-11-04
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

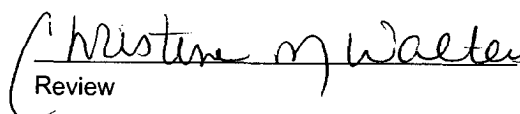
Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	2,990	0.2
Diesel Range (C10 - C28)	546	0.1
Total Petroleum Hydrocarbons	3,540	0.2

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: **Heath, W. D. A #2 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 @ 11'	Date Reported:	08-11-04
Laboratory Number:	29898	Date Sampled:	08-06-04
Chain of Custody:	12090	Date Received:	08-09-04
Sample Matrix:	Soil	Date Analyzed:	08-11-04
Preservative:	Cool	Date Extracted:	08-09-04
Condition:	Cool & Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	684	1.8
Toluene	2,850	1.7
Ethylbenzene	1,760	1.5
p,m-Xylene	2,650	2.2
o-Xylene	2,560	1.0
Total BTEX	10,500	

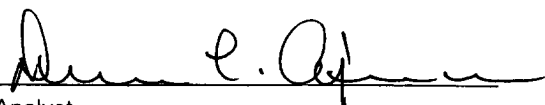
ND - Parameter not detected at the stated detection limit.

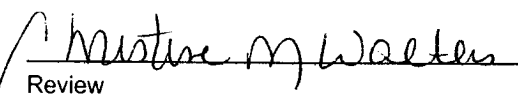
Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	98 %
	1,4-difluorobenzene	98 %
	Bromochlorobenzene	98 %

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: Heath, W. D. A #2 Separator Pit Grab Sample.

  
Analyst

  
Review