

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: RIDDLE C LS #1 API #: 30-045- 10279 U/L or Qtr/Qtr K Sec 30 T 31N R 9W  
County: SAN JUAN Latitude 36.86694 Longitude 107.82579 NAD: 1927 ☐ 1983 ☒ Surface Owner Federal ☒ State ☐ Private ☐ Indian ☐

**Pit**

Type: Drilling ☐ Production ☐ Disposal ☒ SEPARATOR

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

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 BP CROUCH MESA LF (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 135 FT. S52E FROM WELL HEAD.

PIT EXCAVATION: WIDTH 33 ft., LENGTH 21 ft., DEPTH 9 ft.

PIT REMEDIATION: CLOSE AS IS: ☐ LANDFARM: ☐ COMPOST: ☐ STOCKPILE: ☐ OTHER ☒ EXCAVATION

Cubic yards: 170

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: 04/26/05

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. #

Signature Jerry Fatt

Date: FEB 21 2006

CLIENT:

BP

## BLAGG ENGINEERING, INC.

P.O. BOX 87, BLOOMFIELD, NM 87413

(505) 632-1199

LOCATION NO: B1509

COCR NO: 13985

## FIELD REPORT: PIT CLOSURE VERIFICATION

PAGE No: 1 of 2

LOCATION: NAME: RIDDLE C LS WELL #: 1 TYPE: SEP

DATE STARTED: 4-22-05

QUAD/UNIT: K SEC: 30 TWP: 31N RNG: 9W PM: NM CNTY: SJ ST: NM

DATE FINISHED: 5-2-05

QTR/FOOTAGE: 1650 FSL x 500 FWL NELS CONTRACTOR: PYS(FERNANDO)

ENVIRONMENTAL SPECIALIST: JCB

EXCAVATION APPROX. \_\_\_\_\_ FT. x \_\_\_\_\_ FT. x \_\_\_\_\_ FT. DEEP. CUBIC YARDAGE: \_\_\_\_\_

DISPOSAL FACILITY: SEE Pg. 2 OF 2 REMEDIATION METHOD: \_\_\_\_\_

LAND USE: RANGE-BLM LEASE: NM013203 078519-A FORMATION: MV

FIELD NOTES &amp; REMARKS: PIT LOCATED APPROXIMATELY 135 FT. S52E FROM WELLHEAD.

DEPTH TO GROUNDWATER: &gt;100 NEAREST WATER SOURCE: &gt;1000 NEAREST SURFACE WATER: &gt;1000

NMOC D RANKING SCORE: 0 NMOC D TPH CLOSURE STD: 5000 PPM

## SOIL AND EXCAVATION DESCRIPTION:

OVM CALIB. READ. = 52.9 ppm  
 OVM CALIB. GAS = 100 ppm RF = 0.52  
 TIME: 0905 am/pm DATE: 4/22

SOIL TYPE: SAND / SILTY SAND / SILT / SILTY CLAY / CLAY / GRAVEL / OTHER Clayey Sand w/ River cobbles

SOIL COLOR: DARK BROWN

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: Minor Gray Stain

HC ODOR DETECTED: YES / NO EXPLANATION: Moderate to Strong

SAMPLE TYPE: GRAB / COMPOSITE - # OF PTS. 1

ADDITIONAL COMMENTS:

27' x 15' x 4' Deep Earthen Pit. USE

BEDROCK  
BOTTOM

Backhoe to collect Samples from East &amp; West Sides @ Near equip. limits

## FIELD 418.1 CALCULATIONS

## SCALE

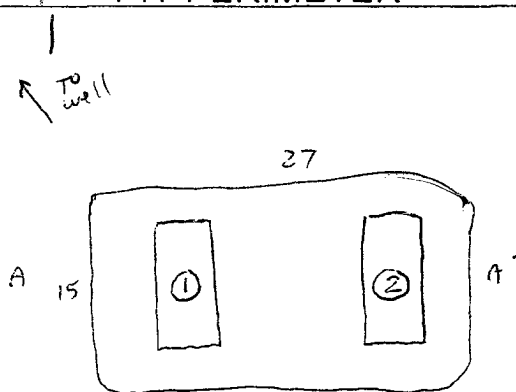


0 FT

N

## PIT PERIMETER

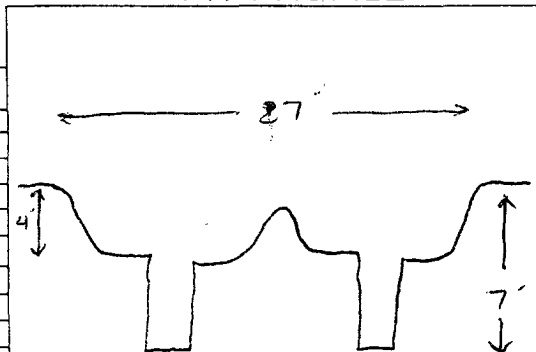
## PIT PROFILE

OVM  
READING

SAMPLE ID	FIELD HEADSPACE (ppm)
1 @ 7'	210
2 @ 7'	234
3 @	
4 @	
5 @	

## LAB SAMPLES

SAMPLE ID	ANALYSIS	TIME
(2) RT	TDH / GTEX	1255



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

TRAVEL NOTES:

CALLOUT: 4/22/05 ONSITE: 4/22/05 1230

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

LOCATION NO: \_\_\_\_\_

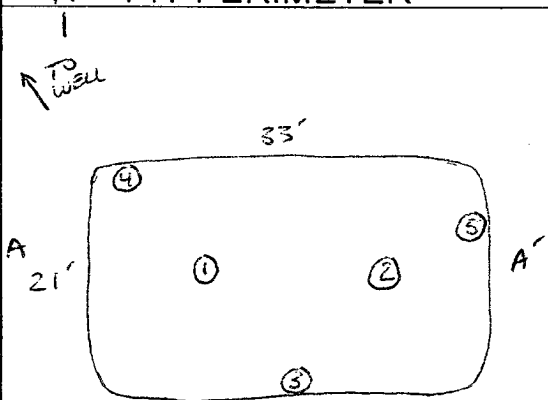
COCR NO: 13985**FIELD REPORT: PIT CLOSURE VERIFICATION**PAGE No: 2 of 2LOCATION: NAME: RIDGE C LS WELL #: 1 TYPE: SEPDATE STARTED: 4-22-05DATE FINISHED: 5-2-05QUAD/UNIT: K SEC: 30 TWP: 31N RNG: 9W PM: NM CNTY: SJ ST: NMQTR/FOOTAGE: 1650 FSL x 500 FWL <sup>NE(5W)</sup> CONTRACTOR: P+S (FERNANDO)ENVIRONMENTAL SPECIALIST: JCSEXCAVATION APPROX. 33 FT. x 21 FT. x 9 FT. DEEP. CUBIC YARDAGE: 170 ±DISPOSAL FACILITY: BP CROUCH MESA LF REMEDIATION METHOD: EXCAVATIONLAND USE: RANGE - BLW LEASE: NM073203 FORMATION: MV**FIELD NOTES & REMARKS:**PIT LOCATED APPROXIMATELY 135 FT. SSZE FROM WELLHEAD.DEPTH TO GROUNDWATER: >100 NEAREST WATER SOURCE: >1000 NEAREST SURFACE WATER: >1000NMOCD RANKING SCORE: 0 NMOCD TPH CLOSURE STD: 5000 PPM**SOIL AND EXCAVATION DESCRIPTION:**
 OVM CALIB. READ. = 52.1 ppm  
 OVM CALIB. GAS = 100 ppm RF = 0.52  
 TIME: 1030 am/pm DATE: 5-2-05

 SOIL TYPE: SAND / SILTY SAND / SILT / SILTY CLAY / CLAY / GRAVEL / OTHER - CLAYEY SAND w/ RIVER cobbles  
 SOIL COLOR: - CLAYSTONE @ 9" BE
COHESION (ALL OTHERS): NON COHESIVE / SLIGHTLY COHESIVE / COHESIVE / HIGHLY COHESIVECONSISTENCY (NON COHESIVE SOILS): LOOSE / FIRM / DENSE / VERY DENSEPLASTICITY (CLAYS): NON PLASTIC / SLIGHTLY PLASTIC / COHESIVE / MEDIUM PLASTIC / HIGHLY PLASTICDENSITY (COHESIVE CLAYS & SILTS): SOFT / FIRM / STIFF / VERY STIFF / HARDMOISTURE: DRY / SLIGHTLY MOIST / MOIST / WET / SATURATED / SUPER SATURATEDDISCOLORATION/STAINING OBSERVED: YES / NO EXPLANATION - MINOR GRASS STAINHC ODOR DETECTED: YES / NO EXPLANATION - MODERATESAMPLE TYPE: GRAB / COMPOSITE - # OF PTS. —

ADDITIONAL COMMENTS:

27' x 15' x 4' Deep Earthen Pit. Use Backhoe toBEDROCK  
BOTTOMEXCAVATE IMPACTED SOILS TO BEDROCK CLAYSTONE @ 9" BGLCLOSED**FIELD 418.1 CALCULATIONS****SCALE**

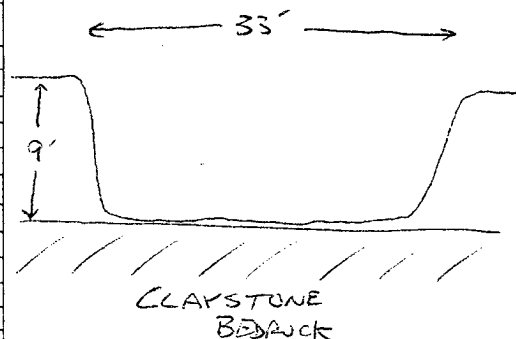
0 1 FT

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

SAMPLE ID	FIELD HEADSPACE (ppm)	DATE
1 @ 7'	210	4/22
2 @ 7'	234	4/22
3 @ 9'	212	5/2
4 @ 9'	201	5/2
5 @ 9'	153	5/2

**LAB SAMPLES**

SAMPLE ID	ANALYSIS	TIME
(2) @ 7'	TPH/BTEX	1255 - 4/22/05

PASSED**PIT PROFILE**
 P.D. = PIT DEPRESSION; B.G. = BELOW GRADE; B = BELOW  
 T.H. = TEST HOLE; ~ = APPROX.; T.B. = TANK BOTTOM
**TRAVEL NOTES:**

CALLOUT: \_\_\_\_\_

ONSITE: 4/22/05 - 5/2/05

# ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

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

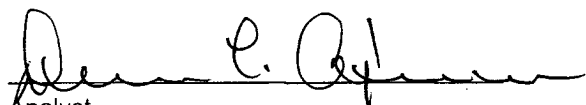
Client:	Blagg / BP	Project #:	94034-010
Sample ID:	2 @ 7'	Date Reported:	04-26-05
Laboratory Number:	32770	Date Sampled:	04-22-05
Chain of Custody No:	13985	Date Received:	04-25-05
Sample Matrix:	Soil	Date Extracted:	04-25-05
Preservative:	Cool	Date Analyzed:	04-26-05
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

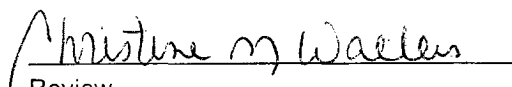
Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	229	0.2
Diesel Range (C10 - C28)	314	0.1
Total Petroleum Hydrocarbons	543	0.2

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: **Riddle CLS #1 Sep Pit.**

  
Analyst

  
Review

# ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

## EPA METHOD 8021 AROMATIC VOLATILE ORGANICS

Client:	Blagg / BP	Project #:	94034-010
Sample ID:	2 @ 7'	Date Reported:	04-26-05
Laboratory Number:	32770	Date Sampled:	04-22-05
Chain of Custody:	13985	Date Received:	04-25-05
Sample Matrix:	Soil	Date Analyzed:	04-26-05
Preservative:	Cool	Date Extracted:	04-25-05
Condition:	Cool & Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	133	2.1
Toluene	184	1.8
Ethylbenzene	743	1.7
p,m-Xylene	2,180	1.5
o-Xylene	282	2.2
Total BTEX	3,520	

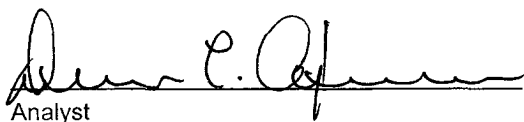
ND - Parameter not detected at the stated detection limit.

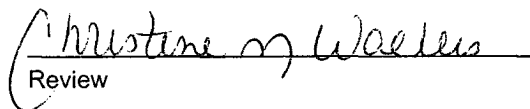
Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	99.0 %
	1,4-difluorobenzene	99.0 %
	Bromochlorobenzene	99.0 %

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: Riddle CLS #1 Sep Pit.

  
Analyst

  
Review