

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

Form C-144
March 12, 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 ☒

RCVD MAR26'07
OIL CONS. DIV.
DIST. 3

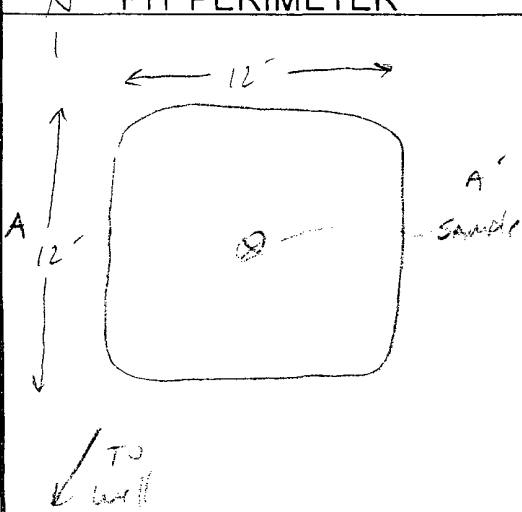
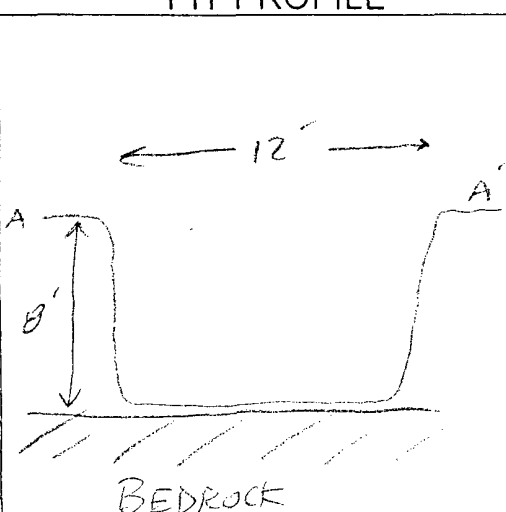
Operator: <u>BP AMERICA PROD. CO.</u> Telephone: <u>(505) 326-9200</u>		
Address: <u>200 Energy Court, Farmington, NM 87410</u>		
Facility or well name: <u>HUGHES A #5</u>	API #: <u>30-045-23516</u>	U/L or Qtr/Qt: <u>A</u> Sec <u>33</u> T <u>29N</u> R <u>8W</u>
County: <u>San Juan</u> Latitude <u>36.68738</u> Longitude <u>107.67707</u>	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 ☐ Volume _____ bbl		
Below-grade tank Volume: _____ bbl Type of fluid: _____ Construction material: <u>N/A</u> 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:

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: <u>05/19/04</u>	
Printed Name/Title: <u>Jeff Blagg - P.E. # 11607</u>	Signature: <u>[Signature]</u>
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: <u>MAR 26 2007</u>	
Date: _____	
Printed Name/Title: <u>EGVIT OIL & GAS INSPECTOR, DIST. 3</u>	Signature: <u>[Signature]</u>

3004523516

CLIENT: <u>BP</u>	BLAGG ENGINEERING, INC. P.O. BOX 87, BLOOMFIELD, NM 87413 (505) 632-1199	LOCATION NO: <u>81387</u> COCR NO: <u>12155</u>																																
FIELD REPORT: PIT CLOSURE VERIFICATION		PAGE No: <u>1</u> of <u>1</u>																																
LOCATION: NAME: <u>HUGHES A</u> WELL #: <u>5</u> TYPE: <u>SEP</u> QUAD/UNIT: <u>A</u> SEC: <u>33</u> TWP: <u>29N</u> RNG: <u>8W</u> PM: <u>NM</u> CNTY: <u>SJ</u> ST: <u>NM</u> QTR/FOOTAGE: <u>880'N/1170'E</u> <u>NELINE</u> CONTRACTOR: <u>HD - ONOFRE</u>		DATE STARTED: <u>5-18-04</u> DATE FINISHED: <u>5-18-04</u> ENVIRONMENTAL SPECIALIST: <u>ICB</u>																																
EXCAVATION APPROX. <u>12</u> FT. x <u>12</u> FT. x <u>8</u> FT. DEEP. CUBIC YARDAGE: <u>30±</u>																																		
DISPOSAL FACILITY: <u>ONSITE</u> REMEDIATION METHOD: <u>LF</u>																																		
LAND USE: <u>RANGE - BLM</u> LEASE: <u>SF 078049</u> FORMATION: <u>DK</u>																																		
FIELD NOTES & REMARKS: PIT LOCATED APPROXIMATELY <u>99</u> FT. <u>N40°E</u> FROM WELLHEAD.																																		
DEPTH TO GROUNDWATER: <u>>100</u> NEAREST WATER SOURCE: <u>>1000</u> NEAREST SURFACE WATER: <u>>1000</u>																																		
NMOCD RANKING SCORE: <u>0</u> NMOCD TPH CLOSURE STD: <u>5000</u> PPM																																		
SOIL AND EXCAVATION DESCRIPTION:		OVM CALIB. READ. = <u>52.7</u> ppm OVM CALIB. GAS = <u>100</u> ppm RF = 0.52 TIME: <u>1420</u> am/pm DATE: <u>5-18-04</u>																																
SOIL TYPE: SAND / <u>SILTY SAND</u> / SILT / SILTY CLAY / CLAY / GRAVEL / OTHER <u>BEDROCK SS @ 8'</u> SOIL COLOR: <u>ORANGE TAN</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): NON PLASTIC / SLIGHTLY PLASTIC / COHESIVE / MEDIUM PLASTIC / HIGHLY PLASTIC DENSITY (COHESIVE CLAYS & SILTS): SOFT / FIRM / STIFF / VERY STIFF / HARD MOISTURE: DRY / <u>SLIGHTLY MOIST</u> / MOIST / WET / SATURATED / SUPER SATURATED DISCOLORATION/STAINING OBSERVED: <u>YES</u> NO EXPLANATION. <u>MODERATE</u> <u>GRAY STREAKS</u> HC ODOR DETECTED: <u>YES</u> NO EXPLANATION. <u>MODERATE</u> SAMPLE TYPE: <u>GRAB/COMPOSITE</u> - # OF PTS. <u>1</u> ADDITIONAL COMMENTS: <u>SMALL PIT, EXCAVATE TO S.S. BEDROCK @ 8' BGR</u> <u>8' BEDROCK BOTTOM</u>																																		
FIELD 418.1 CALCULATIONS																																		
SCALE  0 FT N	<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> </tbody> </table>	SAMP. TIME	SAMP. ID	LAB NO.	WEIGHT (g)	mL FREON	DILUTION	READING	CALC. (ppm)																									PIT PERIMETER 
SAMP. TIME	SAMP. ID	LAB NO.	WEIGHT (g)	mL FREON	DILUTION	READING	CALC. (ppm)																											
OVM READING <table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th>SAMPLE ID</th> <th>FIELD HEADSPACE (ppm)</th> </tr> </thead> <tbody> <tr><td>1 @ 9'</td><td>238</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>		SAMPLE ID	FIELD HEADSPACE (ppm)	1 @ 9'	238	2 @		3 @		4 @		5 @		PIT PROFILE 																				
SAMPLE ID	FIELD HEADSPACE (ppm)																																	
1 @ 9'	238																																	
2 @																																		
3 @																																		
4 @																																		
5 @																																		
LAB SAMPLES <table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th>SAMPLE ID</th> <th>ANALYSIS</th> <th>TIME</th> </tr> </thead> <tbody> <tr><td>1008</td><td>TMH</td><td>1415</td></tr> <tr><td> </td><td>DTG</td><td> </td></tr> <tr><td> </td><td>CL</td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> </tbody> </table>		SAMPLE ID	ANALYSIS	TIME	1008	TMH	1415		DTG			CL					BEDROCK SANDSTONE																	
SAMPLE ID	ANALYSIS	TIME																																
1008	TMH	1415																																
	DTG																																	
	CL																																	
P.D. = PIT DEPRESSION; B.G. = BELOW GRADE; B = BELOW T.H. = TEST HOLE; ~ = APPROX.; T.B. = TANK BOTTOM																																		
TRAVEL NOTES: CALLOUT: <u>5-18-04</u> ONSITE: <u>5-18-04</u>																																		

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified Nonhalogenated Volatile Organics Total Petroleum Hydrocarbons

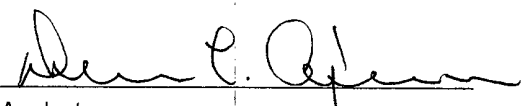
Client:	Blagg / BP	Project #:	94034-010
Sample ID:	1 @ 8'	Date Reported:	05-19-04
Laboratory Number:	28720	Date Sampled:	05-18-04
Chain of Custody No.:	12155	Date Received:	05-18-04
Sample Matrix:	Soil	Date Extracted:	05-19-04
Preservative:	Cool	Date Analyzed:	05-19-04
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

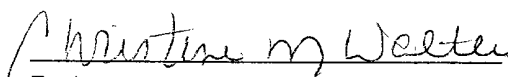
Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	8.0	0.2
Diesel Range (C10 - C28)	ND	0.1
Total Petroleum Hydrocarbons	8.0	0.2

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: **Hughes A #5 Separator 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:	1 @ 8'	Date Reported:	05-19-04
Laboratory Number:	28720	Date Sampled:	05-18-04
Chain of Custody:	12155	Date Received:	05-18-04
Sample Matrix:	Soil	Date Analyzed:	05-19-04
Preservative:	Cool	Date Extracted:	05-19-04
Condition:	Cool & Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	ND	1.8
Toluene	110	1.7
Ethylbenzene	17.5	1.5
p,m-Xylene	197	2.2
o-Xylene	70.9	1.0
Total BTEX	395	

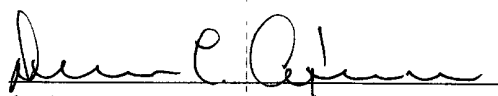
ND - Parameter not detected at the stated detection limit.

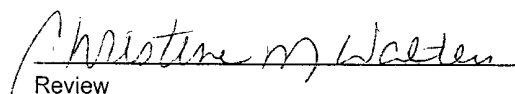
Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	99 %
	1,4-difluorobenzene	99 %
	Bromochlorobenzene	99 %

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: Hughes A #5 Separator Pit.


Analyst


Review

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

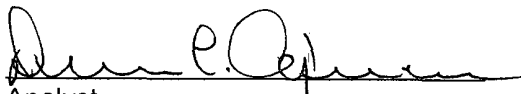
Total Chloride

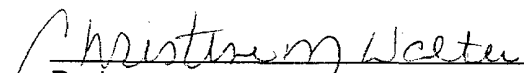
Client:	Blagg / BP	Project #:	94034-010
Sample ID:	1 @ 8'	Date Reported:	05-19-04
Lab ID#:	28720	Date Sampled:	05-18-04
Sample Matrix:	Soil	Date Received:	05-18-04
Preservative:	Cool	Date Analyzed:	05-19-04
Condition:	Cool and Intact	Chain of Custody:	12155

Parameter	Concentration (mg/Kg)
Total Chloride	17.0

Reference: Standard Methods For The Examination of Water And Waste Water", 18th ed., 1992.

Comments: Hughes A #5 Separator Pit.


Analyst


Review

CLIENT: BPBLAGG ENGINEERING, INC.
P.O. BOX 87, BLOOMFIELD, NM 87413
(505) 632-1199LOCATION NO: 81387C.O.C. NO: 14482

FIELD REPORT: LANDFARM/COMPOST PILE CLOSURE VERIFICATION

LOCATION: NAME: HUGHES A WELL #: 5 PITS: PROD, SEP.DATE STARTED: 9/2/05

DATE FINISHED: _____

QUAD/UNIT: A SEC: 33 TWP: 29N RNG: 8W PM: NM CNTY: ST ST: NMENVIRONMENTAL
SPECIALIST: NVQTR/FOOTAGE: NE/NE CONTRACTOR: _____

SOIL REMEDIATION:

REMEDICATION SYSTEM: LANDFARM

APPROX. CUBIC YARDAGE: _____

LAND USE: RANGE - BURN

LIFT DEPTH (ft): _____

0.5-1.0

FIELD NOTES & REMARKS:

DEPTH TO GROUNDWATER: >100'NEAREST SURFACE WATER: >1,000'NEAREST WATER SOURCE: >1,000'NMOCD RANKING SCORE: 0NMOCD TPH CLOSURE STD: 5,000 PPMSOIL TYPE: SANDY SILTY SAND / SILT / SILTY CLAY / CLAY / GRAVEL / OTHER _____SOIL COLOR: PALE YELL. BROWN w/ MINOR AMOUNT OF MED. GRAYCOHESION (ALL OTHERS): NON COHESIVE / SLIGHTLY COHESIVE / COHESIVE / HIGHLY COHESIVECONSISTENCY (NON COHESIVE SOILS): LOOSE / FIRM / DENSE / VERY DENSE

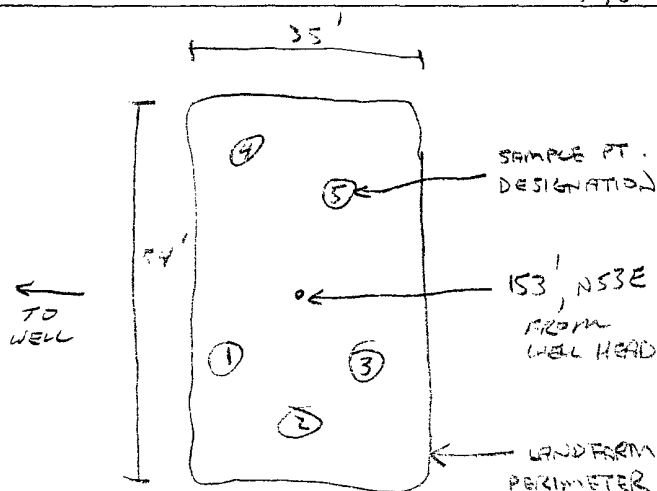
PLASTICITY (CLAYS): NON PLASTIC / SLIGHTLY PLASTIC / COHESIVE / MEDIUM PLASTIC / HIGHLY PLASTIC

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

MOISTURE: DRY / SLIGHTLY MOIST / MOIST / WET / SATURATED / SUPER SATURATEDDISCOLORATION/STAINING OBSERVED: YES / NO EXPLANATION - MED. GRAY INTERMIXED IN SAMPLE PTS. ①, ②, ③HC ODOR DETECTED: YES / NO EXPLANATION - SEWER LIKE IN SAMPLE PTS. ①, ②, ③SAMPLING DEPTHS (LANDFARMS): 8-12 (INCHES)SAMPLE TYPE: GRAB / COMPOSITE # OF PTS. 5CLOSED

ADDITIONAL COMMENTS: _____

SKETCH/SAMPLE LOCATIONS

OVM CALIB. READ. = 53.2 ppm
OVM CALIB. GAS = 100 ppm RF = 0.52
TIME: 12:50 am/pm DATE: 9/2/05

OVM RESULTS

LAB SAMPLES

SAMPLE ID	FIELD HEADSPACE (ppm)	SAMPLE ID	ANALYSIS	TIME	RESULTS
LF-1	0.0	LF-1	TPH (SS, SR)	1355	6.3

SCALE

0 1 FT

P.C. - 5-18-04

TRAVEL NOTES: CALLOUT: N/AONSITE: 9/2/05

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified Nonhalogenated Volatile Organics Total Petroleum Hydrocarbons

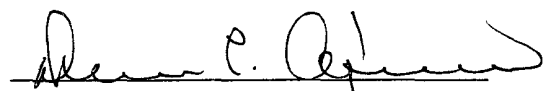
Client:	Blagg / BP	Project #:	94034-010
Sample ID:	LF - 1	Date Reported:	09-23-05
Laboratory Number:	34419	Date Sampled:	09-21-05
Chain of Custody No:	14482	Date Received:	09-22-05
Sample Matrix:	Soil	Date Extracted:	09-22-05
Preservative:	Cool	Date Analyzed:	09-23-05
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

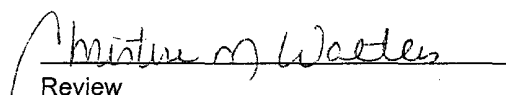
Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	ND	0.2
Diesel Range (C10 - C28)	6.3	0.1
Total Petroleum Hydrocarbons	6.3	0.2

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 A #5 Landfarm 5 Pt. Composite Sample.**


Analyst


Review

CLIENT:

BP

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

LOCATION NO: 81387

C.O.C. NO: 14548

FIELD REPORT: LANDFARM/COMPOST PILE CLOSURE VERIFICATION

LOCATION: NAME: HUGHES A WELL #: 5 PITS: PROD, SEP.

DATE STARTED: 3/28/06

QUAD/UNIT: A SEC: 33 TWP: 29N RNG: 8W PM: NM CNTY: SJ ST: NM

DATE FINISHED:

QTR/FOOTAGE: NE/NE CONTRACTOR:

ENVIRONMENTAL SPECIALIST: NV

40

SOIL REMEDIATION:

REMEDATION SYSTEM: LANDFARM

APPROX. CUBIC YARDAGE:

LAND USE: RANGE - BLUM

LIFT DEPTH (ft):

0.5 - 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 BEDROCK FRAGMENTSSOIL COLOR: Pale Yell. Brown to Grayish BrownCOHESION (ALL OTHERS): NON COHESIVE / SLIGHTLY COHESIVE / COHESIVE / HIGHLY COHESIVECONSISTENCY (NON COHESIVE SOILS): LOOSE / FIRM / DENSE / VERY DENSE

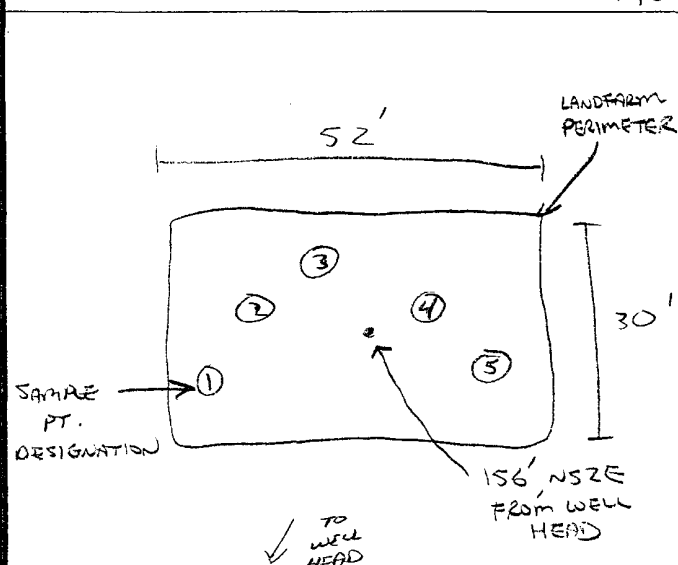
PLASTICITY (CLAYS): NON PLASTIC / SLIGHTLY PLASTIC / COHESIVE / MEDIUM PLASTIC / HIGHLY PLASTIC

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

MOISTURE: DRY / SLIGHTLY MOIST / MOIST / WET / SATURATED / SUPER SATURATEDDISCOLORATION/STAINING OBSERVED: YES / NO EXPLANATION -HC ODOR DETECTED: YES / NO EXPLANATION -SAMPLING DEPTHS (LANDFARMS): 6-8 (INCHES)SAMPLE TYPE: GRAB / COMPOSITE - # OF PTS. 5

ADDITIONAL COMMENTS:

SKETCH/SAMPLE LOCATIONS



OVM CALIB. READ. = 53.6 ppm
OVM CALIB. GAS = 100 ppm RF = 0.52
TIME: 9:50 am/pm DATE: 3/24/06

OVM RESULTS

LAB SAMPLES

SAMPLE ID	FIELD HEADSPACE (ppm)	SAMPLE ID	ANALYSIS	TIME	RESULTS
LF-1	0.0	LF-1	TPH (9258)	1320	9.9

SCALE



0

FT

P.C. - 5/18/04

TRAVEL NOTES: CALLOUT: N/A

ONSITE: 3/28/06

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified Nonhalogenated Volatile Organics Total Petroleum Hydrocarbons

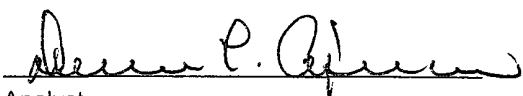
Client:	Blagg / BP	Project #:	94034-010
Sample ID:	LF - 1	Date Reported:	03-30-06
Laboratory Number:	36627	Date Sampled:	03-28-06
Chain of Custody No:	14548	Date Received:	03-29-06
Sample Matrix:	Soil	Date Extracted:	03-29-06
Preservative:	Cool	Date Analyzed:	03-30-06
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

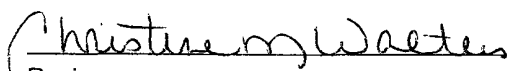
Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	ND	0.2
Diesel Range (C10 - C28)	9.9	0.1
Total Petroleum Hydrocarbons	9.9	0.2

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 A #5 Landfarm 5 Pt. Composite Sample.**


Analyst


Review