District 1 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

For drilling and production facilities, submit to appropriate NMOCD District Office.
For downstream facilities, submit to Santa Fe office

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

<u>P</u>	it or Be	<u>low-Grade</u>	: Tank]	Registra	<u>tion o</u>	<u>or Clos</u>	ure
Is p	oit or belov	v-grade tank c	overed by	a "general	plan"?	Yes 🛛 N	lo 🔲

Type of action: Registration of a pit or below-grade tank ☐ Closure of a pit or below-grade tank ☒					
Operator: BP AMERICA PROD. CO. Address: 200 ENERGY COURT. FARMINGTON.	•	al address:			
		A 6 20 - 20N - 0W			
Facility or well name: HUGHES #4	API #: 30-045- 23492 U/L or Qtr/Q				
County: SAN JUAN Latitude 36.70109 Longitude 10	7.09329 NAD: 1927 ☐ 1983 ☑ Surface Ov	vner Federal ⊠ Statt Throwate ☐ Indian ☐			
<u>Pit</u>	Below-grade tank	JAN 2006 PECEIVED explain April CONS. DIV. DIST. 3			
Type: Drilling ☐ Production ☐ Disposal ☑ BLOW	Volume:bbl_Type of fluid:				
Workover ☐ Emergency ☐	Construction material:	PECEIVED =			
Lined Unlined 🛛	Double-walled, with leak ditection? Yes If not	explane who not CONS. DIV.			
Liner type: Synthetic Thickness mil Clay	_ ,	DIST. 3			
Pit Volumebbl		The state of the s			
rit volumeooi	Landa CO Car	100			
Depth to ground water (vertical distance from bottom of pit to seasonal	Less than 50 feet	(20 points) (2) [[] [] [] [] [] [] [] [] []			
high water elevation of ground water.)	50 feet or more, but less than 100 feet	(10 points)			
,	100 feet or more	(0 points)			
	Yes	(20 points)			
Wellhead protection area: (Less than 200 feet from a private domestic	No	(0 points)			
water source, or less than 1000 feet from all other water sources.)	ING	(o points)			
	Less than 200 feet	(20 points)			
Distance to surface water: (horizontal distance to all wetlands, playas,	200 feet or more, but less than 1000 feet	(10 points)			
igation canals, ditches, and perennial and ephemeral watercourses.)	1000 feet or more	(0 points)			
	1300 100 100 100 100 100 100 100 100 100	(v 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) Indicat	e disnosal location: (check the onsite box if			
your are burying in place) onsite \(\square\) offsite \(\square\) If offsite, name of facility		-			
remediation start date and end date. (4) Groundwater encountered: No 🛛 Y	es [] 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	5.				
Additional Comments: PIT LOCATED APPROXIMATELY	<u> 102 FT. S60W FROM WE</u>	LL HEAD.			
PIT EXCAVATION: WIDTH n/a ft., LENGTH	n/a ft., DEPTH n/a ft				
PIT REMEDIATION: CLOSE AS IS: ☑, LANDFARM: ☐, CO		dain)			
Cubic yards: N/A	Sim Out. E, Of Ock 1822 E, Of HER E (C)	nam)			
NO TPH ANALYSIS CONDUCTED					
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: 12/15/04					
PrintedName/Title Jeff Blagg - P.E. # 11607 Signature					
Your certification and NMOCD approval of this application/closure does not otherwise endanger public health or the environment. Nor does it relieve the regulations.	ot relieve the operator of liability should the contents of the operator of its responsibility for compliance with an	of the pit or tank contaminate ground water or by other federal, state, or local laws and/or			
proval: CAS INSPECTOR, DIST. 69 Printed Name/Title Sig	nature Brandon Somell	Date: PJAN 0 9 2006			

0.0				NEERING	•	LOC	CATION NO	81479
CLIENT: BP		P.O. BOX	87, BLC (505) 632), NM 874	l	CR NO:	
FIELD REPORT: PIT CLOSURE VERIFICATION PAGE No: / of /								
LOCATION: NAME:	HUGHE	.5	WELL#:	4 TYPE	BLOW			12/15/04
QUAD/UNIT: A SE							FINISHED:	
QTR/FOOTAGE:/ ©	20/2/81	0'E	NE/NE CONT	RACTOR: 5 ERG	A (DEMI	S) ENVI	RONMENTAL IALIST:	NV
EXCAVATION A	PPROX.	FT. x	NA FT	. x <u><i>NA</i></u> FT	. DEEP. C	UBIC YAR	DAGE:	NA
DISPOSAL FACILITY	Y:	04-217	(E	REMEDIA	TION METH	OD: _	crose i	95 IS
LAND USE: LA	NGE - 1	Bem	LEASE:	5F 078	3046	FORMAT	ION:	DK
FIELD NOTES &	REMARK	(S: PIT LOC	ATED APPRO	XIMATELY 10	<u> </u>	260M	FROM	WELLHEAD.
DEPTH TO GROUNDWAT				>1000/		SURFACE WAT	rer:>/	000/
NMOCD RANKING SCOR	E:	NMOCD TPH	CLOSURE STD:	5000 P	РМ			
SOIL AND EXC	AVATIOI	N DESCRIPT	ION:		OVM CALIB.	READ. =		RF = 0.52
	· · · · · · · · · · · · · · · · · · ·							12/15/04
SOIL TYPE: SANDI	SILTY SAND	SILT / SILTY	CLAY / CLAY /	GRAVEL /OTH				
SOIL COLOR: COHESION (ALL OTHERS				HESIVE / HIGHLY	COHESIVE			
CONSISTENCY (NON CO	HESIVE SOI	LS): COOSP (FIRM	O DENSE / VERY	DENSE				
PLASTICITY (CLAYS): NO DENSITY (COHESIVE OL					/ HIGHLY PLAST	ic		
MOISTURE: DRY / SLIGH								CLOSED
DISCOLORATION/STAINI	NG OBSERVI	ED: YES NO EXF						روونون
HC ODOR DETECTED: Y SAMPLE TYPE: (GRAB/)							1	
ADDITIONAL COMMENTS			28W 2128	conduct	<u>. 4</u>			· · · · · · · · · · · · · · · · · · ·
			FI	ELD 418.1 CALC	ULATIONS			
SCALE	SAMP. TIMI	E SAMP. ID	LAB NO.	WEIGHT (g)	mL FREON	DILUTION	READING	CALC. (ppm)
0 FT								
PIT PEI	DIMETE	ED 6 .)	1	<u> </u>		DITE	POEIL	
PI PEI		A 10 U	<u> </u>)VM		FIIF	ROFIL	
	7	WEAD	1	ADING				!
	19',	Me.	SAMPLE	FIELD HEADSPACE (ppm)				
	<u> </u>		1@6.5	0.0				
	RERM		3 @		_			1
)	· · · · · · · · · · · · · · · · · · ·		4 @ 5 @		-∤			
1 7	00	191					_	
l l	ا جمعد			<u> </u>	_	OT A	PLICA	عدك
1		1 1						
	\							:
P.D.,	T.H		SAMPLE	AMPLES NALYSIS TIME	_			
~7.5 BG.	•		ID A	- 1115				
P.D. = PIT DEPRESSION; B.G	G. = BELOW G	SRADE: B = BELOW						
T.H. = TEST HOLE; ~ = APPI	ROX.; T.B. = T.	ANK BOTTOM						
TRAVEL NOTES:	CALLOUT:	12/15/04-1	nord.	ONSITE:	12/15/04-	morn.		

30093.

1625 N. French Dr., Hobbs, NM 88240 District II 1301 W. Grand Avenue, Artesia, NM 88210 1000 Rio Brazos Road, Aztec, NM 87410

Energy Minerals and Natural Resources

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

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

Printed Name/Title

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 🖾 (505-326-9200 ___e-mail address: BP AMERICA PROD. CO. Telephone: Operator: Address: 200 ENERGY COURT. FARMINGTON. NM 87410 API#: 30-045- 23492 Facility or well name: HUGHES #4 U/L or Otr/Otr A Sec 29 T 29N R 8W County: SAN JUAN Latitude 36.70109 Longitude 107.69329 NAD: 1927 🔲 1983 🔀 Surface Owner Federal 🖾 State 📋 Private 🔲 Indian 🔲 Pit Below-grade tank Type: Drilling Production Disposal DEHY/SEP Volume: Workover ☐ Emergency ☐ Double-walled, with leak of Yes I If Mt, explain why not. Lined Unlined Liner type: Synthetic Thickness _____mil Clay [Pit Volume Less than 50 feet (20 points) Depth to ground water (vertical distance from bottom of pit to seasonal 0 50 feet or more, but less than 100 feet (10 points) high water elevation of ground water.) 100 feet or more (0 points) Yes (20 points) Wellhead protection area: (Less than 200 feet from a private domestic 0 No (0 points) water source, or less than 1000 feet from all other water sources.) Less than 200 feet (20 points) Distance to surface water: (horizontal distance to all wetlands, playas, 200 feet or more, but less than 1000 feet (10 points) 0 igation canals, ditches, and perennial and ephemeral watercourses.) 1000 feet or more (0 points) Ranking Score (Total Points) 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 your are burying in place) onsite \(\square\) offsite \(\square\) 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 Attach soil sample results and a diagram of sample locations and excavations. Additional Comments: PIT LOCATED APPROXIMATELY 93 FT. S63E 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: BEDROCK BOTTOM, 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 property that the above-described property is true and complete to the best of my knowledge and belief. has been/will be constructed or closed according to NMOCD guidelines \(\sigma, \) a general permit \(\sigma, \) or an alternative OCD-approved plan \(\sigma. \) 12/16/04 Date **Jeff Blagg – P.E. # 11607** PrintedName/Title 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. CEPATTY OIL & GAS INSPECTOR, DIST. 45 proval:

Signature Brundon J.M.

				NEERING	-	LOC	ATION NO	BIYTA	
CLIENT: Sf		P.O. BOX	(505) 632		, NIVI 0/2		CR NO:	13367	
FIELD RE	PORT:	PIT CL	OSURE	VERIF	ICATIO	N PAG	E No:		DJA
LOCATION: NAME	: HUGHES	<u> </u>	WELL#:	4 TYPE	: DEHY. 15		STARTED:	12/15/04	
quad/unit: A	SEC: 29 T	WP: 292 RNO	5: V PM:)	JM CNTY: 5	J ST: NM		FINISHED:		1
QTR/FOOTAGE:				RACTOR: SIER		S SPEC	IALIST:	NV	
EXCAVATION	APPROX.	NA FT. X	NA FT.	x NA FT	. DEEP. CI	JBIC YARE	AGE:	NA	
DISPOSAL FACILI	TY:	00-517	E	REMEDIA	TION METH	OD: _	close p	32 12	1
LAND USE: K	PANGE - 1	BLM	LEASE:	240180	>46	FORMAT	ION:	DK]
FIELD NOTES 8	REMARK	S: PIT LOC.	ATED APPROX	MATELY 9	3 FT.	563E	FROM	WELLHEAD.]
DEPTH TO GROUNDWA	ATER: >100	NEAREST W	ATER SOURCE:	>1000'	NEAREST S	SURFACE WAT	ER:	000'	
NMOCD RANKING SCO	RE:	_ NMOCD TPH	CLOSURE STD: .	5000 PI	РМ				•
SOIL AND EX	CAVATION	DESCRIPT	ION:		OVM CALIB.				ł
SOIL AND LA	OAVAIIOI	I BLOOKII I	1014.		OVM CALIB. TIME: 10:0			$\frac{RF = 0.52}{12 \cdot 12 \cdot 12}$	
SOIL TYPE: GAND	SILTY SAND	/ SILT / SILTY O	CLAY / CLAY /	GRAVEL / OTH				12113104	1
SOIL COLOR:	PALE YE	LL. ORANGE	TO BLAC	Κ	BEDROCK			7	
COHESION (ALL OTHE CONSISTENCY (NON C	•				COHESIVE				
PLASTICITY (CLAYS):		•			HIGHLY PLAST	ic /	2		
DENSITY (COHESIVE C	•						15K A5	LEZZED)	ł
MOISTURE: DRY / SLIC DISCOLORATION/STAIL					GRADE (47	THED. GRA	17 TO 6	PLACK)	
HC ODOR DETECTED:	YES/NO EXPL	ANATION - 015	COLORED 50	SIL ou	n sample				
SAMPLE TYPE: GRAB	// COMPOSITE - i rs: Collec	# OF PTS. — Two KAMPL	F Flow B	EORXX SL	NFACE.	BE DEVEN	- HARS	scientry	
BEDROCK	FRIAB	LE. INSTRUC							
68,101.1	4 LED	JE WIN A	T AREA.	LD 418.1 CALC	LUATIONS				
SCALE	SAMP. TIME	SAMP. ID	LAB NO.	WEIGHT (g)	mL FREON	DILUTION	READING	CALC. (ppm)	1
	STATE THE	SAWII . ID	DAD NO.	WEIGHT (g)	IIIL I KLON	DIECTION	READING	CAEC. (ppill)	
0 FT				}					1
PIT PE	RIMETE	R N	·			PITP	ROFIL	E	
			(VM					
 -	. 1		SAMPLE	DING FIELD HEADSPACE	-				
├	71		10 1@3	(ppm) 225-5					
	BERM	~	2@						ł
	1/4		3 @ 4 @		_				
		20'	5@			2.00	0 81 8	•	
10	The last of the la	\			No	T APPL	JOHEG	_	
MEND MEND		\mathcal{I}							
/	SEP				-				ĺ
9.9.	المنتت	\ . \ \ . \ \	IARS	AMPLES					•
ا 1.5		7.H·1	SAMPLE AN	IALYSIS TIME					j
B. G.		B.P.D.		(80128) 102	2				
		.							•
P.D. = PIT DEPRESSION; I T.H. = TEST HOLE; ~ = AP				ZAILED)	1				İ
TRAVEL NOTES:	CALLOUT:	1)	road.	ONOTE	12/15/04 -	moles:	`		•
	CALLOUT: _	-/-/-/-/		_ UNSIIE:	6113101				•



EPA METHOD 8015 Modified Nonhalogenated Volatile Organics Total Petroleum Hydrocarbons

Client:	Blagg / BP	Project #:	94034-010
Sample ID:	1 @ 3'	Date Reported:	12-16-04
Laboratory Number:	31454	Date Sampled:	12-15-04
Chain of Custody No:	13367	Date Received:	12-15-04
Sample Matrix:	Soil	Date Extracted:	12-16-04
Preservative:	Cool	Date Analyzed:	12-16-04
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	581	0.2
Diesel Range (C10 - C28)	128	0.1
Total Petroleum Hydrocarbons	709	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 #4 Separator Pit Grab Sample.

Analyst C. (a)

Misture of Walles



EPA METHOD 8021 AROMATIC VOLATILE ORGANICS

Client:	Blagg / BP	Project #:	94034-010
Sample ID:	1 @ 3'	Date Reported:	12-16-04
Laboratory Number:	31454	Date Sampled:	12-15-04
Chain of Custody:	13367	Date Received:	12-15-04
Sample Matrix:	Soil	Date Analyzed:	12-16-04
Preservative:	Cool	Date Extracted:	12-16-04
Condition:	Cool & Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)	
Benzene	1,140	1.8	
Toluene	905	1.7	
Ethylbenzene	705	1.5	
p,m-Xylene	3,020	2.2	
o-Xylene	2,460	1.0	
Total BTEX	8,230		

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	97 %
	1,4-difluorobenzene	97 %
	Bromochlorobenzene	97 %

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 #4 Separator Pit Grab Sample.

Analyst C. Cay

Mistire Mucelles
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

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

For drilling and production facilities, submit to appropriate NMOCD District Office. For downstream facilities, submit to Santa Fe

Form C-144

June 1, 2004

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 \(\subseteq\) Closure of a pit or below-grade tank \(\subseteq\) BP AMERICA PROD. CO. Telephone: (505-326-9200 e-mail address: Operator: Address: 200 ENERGY COURT. FARMINGTON. NM 87410 Facility or well name: _HUGHES #4 API#: 30-045- 23492 U/L or Otr/Otr A Sec 29 T 29N R 8W Longitude 107.69329 County: SAN JUAN Latitude 36.70109 NAD: 1927 ☐ 1983 ☑ Surface Owner Federal ☑ State ☐ Private ☐ Indian ☐ Below-grade tank Type: Drilling Production Disposal PROD TANK Volume: ____ Workover ☐ Emergency ☐ Construction materia Double-walled, with leak Lined ☐ Unlined ☒ Liner type: Synthetic Thickness mil Clay Pit Volume Less than 50 feet (20 points) Depth to ground water (vertical distance from bottom of pit to seasonal 0 50 feet or more, but less than 100 feet (10 points) high water elevation of ground water.) 100 feet or more (0 points) Yes (20 points) Wellhead protection area: (Less than 200 feet from a private domestic 0 No (0 points) water source, or less than 1000 feet from all other water sources.) Less than 200 feet (20 points) Distance to surface water: (horizontal distance to all wetlands, playas, 200 feet or more, but less than 1000 feet (10 points) 0 igation canals, ditches, and perennial and ephemeral watercourses.) 1000 feet or more (0 points) Ranking Score (Total Points) O 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 your 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 120 FT. SOE 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: 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 part of below-grade tank has been/will be constructed or closed according to NMOCD guidelines ⊠, a general permit □, or an alternative OCD-approved plan ⊠. 12/16/04 **Jeff Blagg – P.E. # 11607** 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.

Signature Branson Fred D

CEPUTY OIL & GAS INSPECTOR, DIST.

proval: Printed Name/Title

BLAGG ENGINEERING, INC. CLIENT: 8P P.O. BOX 87, BLOOMFIELD, NM 87413	LOCATION NO: \$1479
(505) 632-1199	cocr no: 13367
FIELD REPORT: PIT CLOSURE VERIFICATION	PAGE No:/_ of/_ D d
LOCATION: NAME: HUGHES WELL#: 4 TYPE: PROD. TANK	DATE STARTED: _/Z//5/64_
QUAD/UNIT: A SEC: 29 TWP: 290 RNG: 8W PM: NM CNTY: SJ ST: NM	ENVIRONMENTAL
QTR/FOOTAGE: 10201/810E NEINE CONTRACTOR: SIERRA (DENNIS)	SPECIALIST: NV
EXCAVATION APPROX. <u>NA</u> FT. x <u>NA</u> FT. x <u>NA</u> FT. DEEP. CUBIC	
DISPOSAL FACILITY: ON SITE REMEDIATION METHOD:	CLOSE AS 15
LAND USE: RANGE - BLM LEASE: STO78046 FO	
FIELD NOTES & REMARKS: PIT LOCATED APPROXIMATELY 720 FT. 5 DEPTH TO GROUNDWATER: 2105 NEAREST WATER SOURCE: 2100 NEAREST SURFA	
NMOCD RANKING SCORE: NMOCD TPH CLOSURE STD: 5000 PPM	
SOIL AND EXCAVATION DESCRIPTION: OVM CALIB. READ	··
OVM CALIB. GAS	<u>/00</u> ppm <u>RF = 0.52</u> 3D /pm DATE: /2/15/04
SOIL TYPE: SAND / SILTY SAND / SILT / SILTY CLAY / CLAY / GRAVEL / OTHER	(SANDSTOUE)
SOIL COLOR: OLIVE GRAY COHESION (ALL OTHERS): NON COHESIVE) SLIGHTLY COHESIVE / COHESIVE / HIGHLY COHESIVE	TO IT. GRAY
CONSISTENCY (NON COHESIVE SOILS): OOSE FIRM DENSE / VERY DENSE	
PLASTICHY (CEATS): NON PLASTIC / SLIGHTLY PLASTIC / COHESIVE / MEDIUM PLASTIC / HIGHLY PLASTIC PENSITY (COHESIVE CLAYS & SILTS): SOFT / FIRM / STIFF / VERY STIFF / HARD	
MOISTURE: DRY / SLIGHTLY MOIST MOIST/ WET / SATURATED / SUPER SATURATED	(CLESED)
DISCOLORATION/STAINING OBSERVED YES NO EXPLANATION -	
HC ODOR DETECTED (YES) NO EXPLANATION - SAMPLE TYPE: GRAD/ COMPOSITE - # OF PTS	- 1
ADDITIONAL COMMENTS: COLLECTED SAMPLE FROM REDROCK SURFACE, KEDROCK	
BEDROCK ERIAGIE INSTRUCTED OPERATOR TO DILUTE ARRATE	DISCOURED SOIL
FIELD 418.1 CALCULATIONS	
SCALE SAMP. TIME SAMP. ID LAB NO. WEIGHT (g) mL FREON DILL	TION READING CALC. (ppm)
0 FT	
	IT DDOELLE
PIT PERIMETER OVM	IT PROFILE
) READING	
SAMPLE FIELD HEADSPACE ID (ppm)	
1@ 2' 359	
(PLOD.) 2 @ 3 @	
10 4@	
HEAD 10 TO TO THE TOTAL TO THE TOTAL	APPLICABLE
	7777 = 70,780€
Ot 1°	
LAB SAMPLES	1
SAMPLE ANALYSIS TIME	
T. Y. : (De 2' TPH (8015B) 1120	
NO-3	j
8.6. Brex (802.18) "	
NO-3	



EPA METHOD 8015 Modified Nonhalogenated Volatile Organics Total Petroleum Hydrocarbons

Client:	Blagg / BP	Project #:	94034-010
Sample ID:	1 @ 2'	Date Reported:	12-16-04
Laboratory Number:	31455	Date Sampled:	12-15-04
Chain of Custody No:	13367	Date Received:	12-15-04
Sample Matrix:	Soil	Date Extracted:	12-16-04
Preservative:	Cool	Date Analyzed:	12-16-04
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	6,730	0.2
Diesel Range (C10 - C28)	708	0.1
Total Petroleum Hydrocarbons	7,440	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 #4 Production Tank Pit Grab Sample.

Analyst C. Cy

Review Mulaters



EPA METHOD 8021 AROMATIC VOLATILE ORGANICS

Client:	Blagg / BP	Project #:	94034-010
Sample ID:	1 @ 2'	Date Reported:	12-16-04
Laboratory Number:	31455	Date Sampled:	12-15-04
Chain of Custody:	13367	Date Received:	12-15-04
Sample Matrix:	Soil	Date Analyzed:	12-16-04
Preservative:	Cool	Date Extracted:	12-16-04
Condition:	Cool & Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	1,020	1.8
Toluene	2,680	1.7
Ethylbenzene	4,330	1.5
p,m-Xylene	4,050	2.2
o-Xylene	4,850	1.0
Total BTEX	16,930	

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery	
-	Fluorobenzene	97 %	
	1,4-difluorobenzene	97 %	
	Bromochlorobenzene	97 %	

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 #4 Production Tank Pit Grab Sample.

Analyst C. Ceduran

A Mustine m Walter Review