District []

State of New Mexico
Energy, Minerals and Natural Resources Department

DISTRICT OFFICE

AND I COPY TO

SANTA FE OFFICE

Outside VABO734

ent bedrock submiticopyti
Appropriate

exceeds bistrict oppio
And I copy to

OIL CONSERVATION DIVISION P.O. BOX 2088

SANTA FE, NEW MEXICO 87504-2088

PIT REMEDIATION AND CLOSURE REPORT

30-645-11714	
Operator: BP AMERICA PRODUCTION C	O. Telephone: (505) 326-9200
Address: 200 ENERGY COURT, FARMIN	
Facility or Well Name: GCU #230	
Location: Unit or Qtr/Qtr SecA SecA	14 TOON R BW County San Juan
Pit Type: Separator Dehydrator Other_	31001
Land Type: BLM X, State , Fee, Fee	_, Other
Pit Location: Pit dimensions: (Attach diagram)	length NA, width NA, depth NA
Reference: wellhea	•
Footage from refere	
Direction from refer	ence: 44 Degrees East North of West South
Depth To Groundwater: (Vertical distance from contaminants to seasonal bigh water elevation of groundwater)	Less than 50 feet (20 points) 50 feet to 99 feet (10 points) Greater than 100 feet (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)
Distance To Surface Water; (Horizontal distance to perennial lakes, ponds, rivers, streams, creeks, irrigation canals and ditches)	Less than 100 feet (20 points) 100 feet to 1000 feet (10 points) Greater than 1000 feet (0 points)
	RANKING SCORE (TOTAL POINTS):0_
revised: 09/11/02	hal1202 wn

Date Remediation Star	rted:	Date	Completed:	-4-03
emediation Method:	Excavation X	Appi	rox. cubic yards	NA
-Check all appropriate sections)	Landfarmed		u Bioremediation	
	OtherCLOSE			
Remediation Location: (i.e. landfarmed onsite, name and location of offsite facility)	Onsite X Offsite			
General Description of	Remedial Action: Exca	vation. Test hole	advanced. No remed	liation necessary.
Bedrock B	ottom, RISK ASS	sessed		
		1		
Groundwater Encount	ered: No X Ye	Depth		
Closure Sampling:	Sample location see Atta	ched Documents		
	Sample depth 7	(Test h	ole bottom)	
locations and depths)	Sample date 4-3-c	San	nple time <u>0830</u>	. ·
	Sample Results	1		·
	Soil: Benzene	(ppm) <u>ND</u>	Water: Benzene	(ppb)
	Total BTEX	(ppm) 0.715	Toluene	(ppb)
	Field Headspace	(ppm) 190.7	Ethylbenzene	(ppb)
	ТРН	(ppm) <u>1405</u> 0	Total Xylenes	(ppb)
Groundwater Sample:	Yes	No X	(If yes, attach samp	le results)
I HEREBY CERTIFY KNOWLEDGE AND	THAT THE INFORMATIO	n above is true	AND COMPLETE TO	THE BEST OF MY
DATE 4-4-0	<u>δ</u>	RINTED NAME	Jeffrey C. Blagg	
SIGNATURE	My C BloggA	ND TITLE]	President P.E.	‡ 11607
nevised: 03/27/02 /				bei1202 wpd

30	0	45	//	7	Z.	4
	$\overline{}$, -,	"	/	1	7

CLIENT: BP	P.O. BOX			•	13	CATION NO.	10707
FIELD REPORT	r: PIT CL		· · · · · · · · · · · · · · · · · · ·			SE No:/	
LOCATION: NAME: GCU		WELL#: 4	234 TYPE	: BLOW I		_	4/3/03
QUAD/UNIT: A SEC: 14	TWP: Z8N RNC	3:13W PM:	UN CNTY: 5	I ST: NM		E FINISHED: _	
QTR/FOOTAGE: 790 2/7	90 E M	ENE CONTI	RACTOR: 44L	. (OAN)		RONMENTAL CIALIST:	NV
EYCAMATION APPROX	WA ET Y	<i>_∧A</i> FT.	× <u>va</u> ft	. DEEP. CI	JBIC YAR	DAGE:	NA
DISPOSAL FACILITY:	0N-514 5WRF. LSE	€	REMEDIA	TION METH	OD:	CLOSE !	45 15
LAND USE: RANGE -	SURF. LIE	LEASE:	NM 078	3391A	FORMA	TION:	PC
FIELD NOTES & REMAR	KS: PIT LOC	ATED APPROX	KIMATELY 3	<u>5</u> FT	544W	_ FROM	WELLHEAD.
DEPTH TO GROUNDWATER: >/	NEAREST W	ATER SOURCE:	>/200	/ NEAREST S	URFACE WA	TER:	000)
NMOCD RANKING SCORE:	NMOCD TPH	CLOSURE STD:	5000 P	PM'			
SOIL AND EXCAVATION				OVM CALIB.			
JOIL / HO LAONAATIC	TO COOKIN 1	-		OVM CALIB.			$\frac{RF = 0.52}{4/3.03}$
SOIL TYPE: SAND SILTY SAN	ND / SILT / SILTY (CLAY / CLAY /	GRAVEL / OTH				
SOIL COLOR: MOD. TELL.	BROWN (FILL ME	TERIAL)	MED. TO OK.	GRAY (ABOUR	BEDROCK	177).	
COHESION (ALL OTHERS): NON C CONSISTENCY (NON COHESIVE SO				COHESIVE			
PLASTICITY (OLAYS): NON PLASTI				/ HIGHLY PLAST	ıc		
DENSITY (COHESIVE CLAYS & OILT	·			•	(RISK AS	rezzed)
MOISTURE: DRY / SLIGHTLY MOIS DISCOLORATION/STAINING OBSER				OY - REDAME		IFT. A	enus BZONOSK
HC ODOR DETECTED: YES / NO E		Direction - 2	, , , , , , , , , , , , , , , , , , , ,	-7 - 5507,55	K # 30.4		
SAMPLE TYPE: GRAB COMPOSITI	E-# OF PTS.	0 00130 7	- 685 \ 4	aliai Caiti			
BEORCK DISC	oloned soil Ab	BOUE BEDROS	K. DISCOLOR	eatiba um	ITED TO	AMPLE FIL	. A BOUF
	ack. Jangu						
SCALE SAME TO		T	ELD 418.1 CALC		1		
SAMP. TI	ME SAMP. ID	LAB NO.	WEIGHT (g)	mL FREON	DILUTIO	READING	CALC. (ppm)
0 FT					l		
PIT PERIMET	FR N	<u></u>	J	L	PIT	PROFIL	E
		1 0	∨M		() (I IVOI IL	
⊕	Pump JACK	REA	DING				
		SAMPLE	FIELD HEADSPACE (ppm)				
		1007	190.7	7			
		2 <u>@</u> 3 <u>@</u>		1			
BURIED PIPING 400							
TH. NOT APPLICABLE							
8.6.							
EDGE OF WELL PAD							
LAB SAMPLES							
SAMPLE ANALYSIS TIME DO THE (BOISB) 0830							
			(8015B) 0834 (8021B) "				
		TAN	FAILED	7			
P.D. = PIT DEPRESSION; B.G. = BELOW T.H. = TEST HOLE; ~ = APPROX.; T.B. =	GRADE; B = BELOW TANK BOTTOM	BIEX -	PRISTED	1			
TRAVEL NOTES: CALLOUT: 4/2/05 - MORN. ONSITE: 4/3/03 - MORN.							
CALLOUT:			_ UNSITE:	7/ 2/03 - 1			
Pavised: 09/04/02	···						

Operator:

Well Name:

BP America Production Company (BP)

GCU #234

Well Site location:

790ft. FNL, 790 ft. FEL, Unit A, Sec. 14, T28N, R13W

Pit Type:

Blow Pit II

Producing Formation:

Pictured Cliffs

Pit Category:

Non vulnerable

Horizontal Distance to Surface Water:

> 1000 ft.

Vicinity Groundwater Depth:

> 100 ft.Farmington South, New Mexico (photo revised 1979)

Topographic Map:

RISK ASSESSMENT (non-vulnerable area)

Pit remediation activities were terminated when competent sandstone bedrock was encountered at eight (8) feet below grade.

No past or future threat to surface water or groundwater is likely based on the following considerations:

- Past production fluids were contained locally by the relatively shallow sandstone bedrock. 1. Groundwater levels located on or close to the well pad are estimated to be at a much greater depth below the bedrock.
- Site inspection did not indicate off site lateral fluid migration from the earthen pit toward any down 2. gradient surface water area estimated at greater than 1.00 miles (reference: topographic map listed above).
- Daily discharge into the earthen pit has been terminated (abandoned). Prior discharge into the pit 3. is believed to be under 5 barrels per day.

Based upon the information given, we conclude that the subsurface vertical and lateral impact from the earthen pit is very limited and that the sandstone bottom creates enough of a impermeable barrier as to subdue impact to groundwater below it (please refer to BP's (formerly Amoco Production Company) report "Post Excavation Pit Closure Investigation Summary, July, 1995", with cover letter dated November 30, 1995). BP therefore request closure approval for this specific pit.



EPA METHOD 8015 Modified Nonhalogenated Volatile Organics Total Petroleum Hydrocarbons

Client:	Blagg / BP	Project #:	94034-010
Sample ID:	1 @ 7'	Date Reported:	04-04-03
Laboratory Number:	25273	Date Sampled:	04-03-03
Chain of Custody No:	10707	Date Received:	04-03-03
Sample Matrix:	Soil	Date Extracted:	04-03-03
Preservative:	Cool	Date Analyzed:	04-04-03
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)	
Gasoline Range (C5 - C10)	790	0.2	
Diesel Range (C10 - C28)	13,260	0.1	
Total Petroleum Hydrocarbons	14,050	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:

GCU #234 Blow Pit II

Grab Sample.

Analyst C. Q

Misting Walters



EPA METHOD 8021 AROMATIC VOLATILE ORGANICS

Client:	Blagg / BP	Project #:	94034-010
Sample ID:	1 @ 7'	Date Reported:	04-04-03
Laboratory Number:	25273	Date Sampled:	04-03-03
Chain of Custody:	10707	Date Received:	04-03-03
Sample Matrix:	Soil	Date Analyzed:	04-04-03
Preservative:	Cool	Date Extracted:	04-03-03
Condition:	Cool & Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)	
Benzene	ND	1.8	
Toluene	ND	1.7	
Ethylbenzene	75.3	1.5	
p,m-Xylene	425	2.2	
o-Xylene	215	1.0	
Total BTEX	715		

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	96 %
	1,4-difluorobenzene	96 %
	Bromochlorobenzene	96 %

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:

GCU #234 Blow Pit II Grab Sample.

Analyst C. Cy

Review Wasters