UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

FORM APPROVED OMB No. 1004-0136 Expires November 30, 2000

BUREAU OF LAND MANAGEMENT	5. Lease Serial No. SF - 078039
•	
APPLICATION FOR PERMIT TO DRILL OR REENTER	If Indian, Allottee or Tribe Name

AFFLICATION FOR FERMIN	TO DRILL OR RELATER		- 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Ia. Type of Work: ☑ DRILL ☐ REENTER	MAN CONTRACTOR OF THE CONTRACT	7. If Unit or CA Agreement,	Name and No.
1b. Type of Well: ☐ Oil Well ☐ Gas Well ☐ Oth 2. Name of Operator Contact: BP AMERICA PRODUCTION COMPANY	her Single Zone Multiple Zone CHERRY HLAVA E-Mail: HLAVACL@BP.COM	8. Lease Name and Well No BARNES GAS COM A 9. API Well No.	1 \$
	~	300453	
3a. Address HOUATON, TX 77253-3092	3b. Phone No. (include area code) Ph: 281-366-4081	10. Field and Pool, or Explo BASIN FRUITLAND	COAL
4. Location of Well (Report location clearly and in accord	ance with any State requirements.*)	11. Sec., T., R., M., or Blk.	and Survey or Area
At surface NESE 2180FSL 915FEL 3	6.96722 N Lat, 107.95056 W Lon	Sec 23 T32N R11W	Mer NMP
At proposed prod. zone NESE 2180FSL 915FEL 30	6.96722 N Lat, 107.95056 W Lon		
 Distance in miles and direction from nearest town or post MILES NORTH FROM AZTEC, NM 	office*	12. County or Parish SAN JUAN	13. State NM
5. Distance from proposed location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any)	16. No. of Acres in Lease	17. Spacing Unit dedicated	to this well
915	320.00	320.00 E/2	
18. Distance from proposed location to nearest well, drilling, completed, applied for, on this lease, ft.	19. Proposed Depth	20. BLM/BIA Bond No. on	file
	3145 MD 3145 TVD	WY2924	
21. Elevations (Show whether DF, KB, RT, GL, etc. 6397 GL	22. Approximate date work will start 01/04/2005	23. Estimated duration 7	
	24. Attachments		
The following, completed in accordance with the requirements	of Onshore Oil and Gas Order No. 1, shall be attached to	this form:	
 Well plat certified by a registered surveyor. A Drilling Plan. A Surface Use Plan (if the location is on National Forest Sys SUPO shall be filed with the appropriate Forest Service Of the Company of the Comp	Item 20 above). Stem Lands, the 5. Operator certification	ons unless covered by an existing formation and/or plans as may	
25. Signature (Electronic Submission)	Name (Printed/Typed) CHERRY HLAVA Ph: 281-366-4081		Date 11/18/2004
Title AGENT			
Approved by (Signature) Title Title	Name (Printed/Typed) Office	•	Date 19/15
Application approval does not warrant or certify the applicant hoperations thereon. Conditions of approval, if any, are attached.			
Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, States any false, fictitious or fraudulent statements or represental	make it a crime for any person knowingly and willfully t tions as to any matter within its jurisdiction.	o make to any department or ag	ency of the United

Additional Operator Remarks (see next page)

Electronic Submission #51087 verified by the BLM Well Information System For BP AMERICA PRODUCTION COMPANY, sent to the Farmington

This action is suffect to technical and procedural review pursuant to 43 CFR 3165.3 and appeal pursuant to 43 CFR 3165.4

DRILLING OPERATIONS AUTHORIZED ARE SUBJECT TO COMPLIANCE WITH ATTACHED "GENERAL REQUIREMENTS".

** OPERATOR-SUBMITTED ** OPERATOR-SUBMITTED ** OPERATOR-SUBMIT

District I
PO Box 1980, Hobbs NM 8R241-1980
District II
PO Drawer KK, Artesia, NM 87211-0719
District III
1000 Rio Brazos Rd., Aztec. NM 87410
District IV
PO Box 2088, Santa Fe, NM 87504-2088

State of New Mexico
Energy, Minerals & Natural Resources Department

OIL CONSERVATION DIVISION PO Box 2088 Santa Fe, NM 87504-2088 Form C-102
Revised February 21, 1994
Instructions on back
Submit to Appropriate District Office
State Lease - 4 Copies

AMENDED REPORT

Fee Lease - 3 Copies

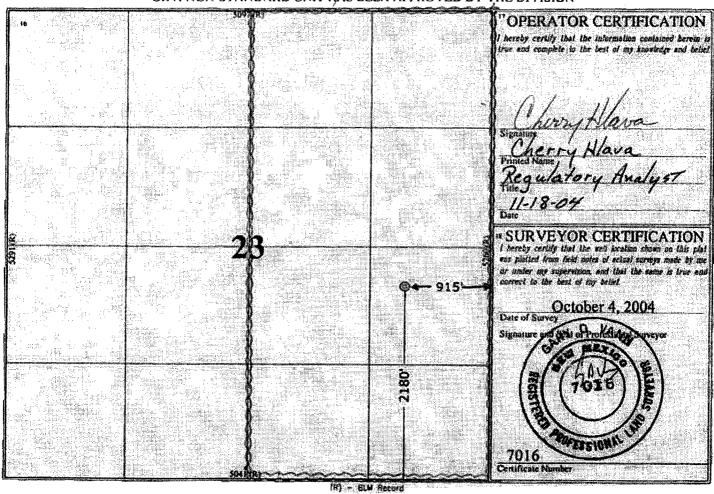
WELL LOCATION AND ACREAGE DEDICATION PLAT

130-045-32	700	* Prof Cride 71629	Basin Fruitland Co	pa/
4 Property Code			5 Property Name	4 Well Number
000295	Bar	nes Gas Com A	# 1S	
7 OGRID No.	***		* Elevation	
000778	BP.	AMERICA PRO	6397	

		1	2180	SOUTH	915	EAST	SAN JUAN		
"Bottom Hole Location If Different From Surface									
cuen Towns	hip Hange	Lox Idn	Peet from the	North/South line	Feet from the	East/West line	County		
	ction Towns	ction Township Range	ction Township Range Locidn	ction Township Range Los idn Feet from the	ction Township Range Lot idn Feet from the North/Sputh line	ction Township Range Locidin Feet from the North/Sputh line Seet from the	ction Township Range Lot Idn Feet from the North/Sputh line Feet from the East/West line		

NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED

OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION



Submit 3 Copies To Appropriate District	State of	of New M	exico		Form C	C-103
Office District I	Energy, Minera	ls and Nat	ural Resources		March 4	1, 2004
1625 N. French Dr., Hobbs, NM 88240				WELL API NO	30-045-36	2020
District II	OIL CONSEI	OVATION	NOISION	NEW WELL	<i>30-04</i> 5 - 59	*70C
1301 W. Grand Ave., Artesia, NM 88210				5. Indicate Type	e of Lease	
<u>District III</u> 1000 Rio Brazos Rd., Aztec, NM 87410		ith St. Fra		STATE	FEE	
District IV	Santa	Fe, NM 8	7505	6. State Oil &	Gas Lease No.	
1220 S. St. Francis Dr., Santa Fe, NM						
87505	ES AND REPORTS	ONLYZZEL	<u> </u>	7 Tagas Name	on I Tuit A one amount NY	
(DO NOT USE THIS FORM FOR PROPOSA					or Unit Agreement Names Gas Com A	ame
DIFFERENT RESERVOIR. USE "APPLICA				I .	th BLM SF - 078093)	
PROPOSALS.)				8. Well Number		
1. Type of Well:				o. Well Nullion	1 S	
Oil Well Gas Well 🛛 C	Other				1.0	
2. Name of Operator				9. OGRID Nu	nber	
BP AMERICA PRODUCTION CO)			000778		
3. Address of Operator				10. Pool name	or Wildcat	
P.O. BOX 3092 HOUSTON, TX 7	7079-2064			Basin Fruitlan	d Coal	
4. Well Location						
Unit Letter I : 2180	_feet from theSo	u <u>th</u> li	ne and <u>915</u> fe	et from the East	line	
Section 23	Township 321		Range 11W		SAN JUAN Cou	nty
"我们是我们 "。	11. Elevation (Show			.)	1.00	
			97'			
Pit or Below-grade Tank Application (For p						
Pit Location: UL I Sect 23 Twp 321	Rng 11W Pit type	_Drilling_De	pth to Groundwater ≥	100' Distance from	nearest fresh water well <u>1</u> 0	<u> </u>
Distance from nearest surface water_>100	0' Below-grade Tank I	Location UL	I Sect 23 Twp	32N Rng 11W	:	
					 ,	
2230 feet from the South line and 90	00_feet from theEast_	ine PLEAS	E SEE ATTACHED P	ADLAYOUI		
12. Check An	propriate Box to	Indicate N	Nature of Notice.	Report or Othe	er Data	
NOTICE OF INT				SEQUENT R		
	PLUG AND ABANDO	ом П	REMEDIAL WOR		ALTERING CASING	а□
		Ц	1.2252 ****		, , , , , , , , , , , , , , , , , , , ,	~ U
TEMPORARILY ABANDON	CHANGE PLANS		COMMENCE DR	ILLING OPNS.	PLUG AND	
		_	1		ABANDONMENT	
	MULTIPLE		CASING TEST A	ND 🗆		
	COMPLETION		CEMENT JOB			
OTHER: Lined Drilling PIT PERMIT		X	OTHER:			
· · · · · · · · · · · · · · · · · · ·						
13. Describe proposed or complet	ed operations. (Clea	rly state all	pertinent details, an	id give pertinent d	ates, including estimat	ed date
of starting any proposed work). SEE RULE 1103.	For Multip	ole Completions: A	ttach wellbore dia	gram of proposed com	pletion
or recompletion.	wan Dasin Dailling/	Wantrarian	Dit Constantion T)	L. MACON D	
Please reference BP America's San J Construction Plan issued date of 04/2					ne NWIOCD. Drining	, pit
Construction I fan issued date of 04/	13/2004. Tit will be	Cioscu acce	nuing to closure p	ian on the.		
I hereby certify that the information ab	ove is true and comp	lete to the h	est of my knowledg	e and belief I for	than contifu that any nit an	halam
grade tank has been/will be constructed or clo						
			_ , , ,	(
SIGNATURE		_TITLE_R	egulatory Analyst	DAT	E_11 <u>/14/04</u>	
Type or print name Cherry Hlava	E-n	nail address	: hlavacl@bp.com	Tele	ephone No. 281-366-	4081
(This space for State use)						
		/ RFC RF	FF 65 6 68 54	**************************************	n no	<u> </u>
APPPROVED BY	17 70000	TITLE_	21 APP (1 ALP)	M Draw By. A	DATE	0 20
Conditions of approval, if any:	r / July					
. //	•					

PAD LAYOUT PLAN & PROFILE BP AMERICA PRODUCTION COMPANY Barnes Gas Com A #1S 2180' F/SL 915' F/EL

36°58'09" Lat: SEC. 23, T32N, R11W, N.M.P.M. Long: 107°57'13" SAN JUAN COUNTY, NEW MEXICO В C Α F 5 **PROPOSED** FLARE PIT **PROPOSED** RESERVE PIT 8 7]71/71/71/71 39.71/71/ Mud Tonks **⊕** C2 ELEV. S 70° E 150 150 LAYDOWN 2 S 5 6410 6400 NOTE: Contractor should call One-Call for location MAININ 6390 of any marked or unmarked buried pipelines or cables on well pad and/or access road at least two (2) working days prior to construction. 6380 B-B 6410 Cuts and fills shown are approximate - final finished elevation is to be adjusted so 6400 earthwork will balance. Corner 6390 satineoric ent bolance. Corner states are approximate and do not include additional areas needed for sidestapes and drainages. Final Pad Dimensions are to be verified by Contractor. 6380 c-c.

6410 6400

6390

VANN SURVEYS P. O. Box 1306 Farmington, NM

BP AMERICA PRODUCTION COMPANY DRILLING AND COMPLETION PROGRAM

Prospect Name: Barnes GC A

Lease:

Well No: 1S

Surface Location: Section 23I, T32N, R11W; 2180 FSL, 915 FEL

County: San Juan State: New Mexico

Date: October 29, 2004

Field: Basin Fruitland Coal

OBJECTIVE: Drill to a T	D of 3145' MD	- topset FT	with 7" casing and air	drill the Fruitland	Coal interval. u	nderream ai	nd set 5.5" lin	er.	
	THOD OF D			APPROXIN					RKER
TYPE OF TOOLS			DRILLING		d GL: 639		Estimated		
Rotary		– TD		MARKE			IBSEA		S. DEPTH
	LOG PROG			Ojo Alamo Kirtland Fruitland			5088 5006 3704		1320 1402 2704
TYPE Mud log & gas chromat		EPTH INVE casing se		Fruitland Co Pictured Clif	1		3539 3258		2869 3150
REMARKS: (fee land) At TD and prior to compoperator will FAX or emchromatograph analysis seam to the FFO-PMT 8997 or chip harraden(at hilkewdn@bp.com, fa	nail a copy o s covering the geologist (C @nm.blm.go	of the <u>mud</u> the lower b Chip Harra ov) and to	log and gas asal Fruitland coa den @ 505-599-						
				TOTAL DEP			3263		3145
				# Probable of			* Possible		
	SPECIAL T	ESTS		I	TTING SAN			LING T	
TYPE				FREQUEN			FREQUEN		DEPTH
None				none	none		Geolograph	<u> </u>	0-TD
REMARKS:									
MUD PROGRAM:	1 _			1	. 1		1		_
Approx. Interval		Type Mud		ga Vis, sec/q	t W/L.cc	's/30 min	Other 9	Specific	cation
0 - 120 (MD)		Spud	8.6-9.2						
120 - 2854	` '	Nater/LSN			<6				
2854 - TD		Gas/Air/N2	2/Mist Volume s	sufficient to mai	ntain a stab	ole and cle	an wellbor	9	
REMARKS: (1) The hole will require	•	•						•	
CASING PROGRAM:	(Normally, tubu	ılar goods al	location letter specifie						
Casing String	Estimate	d Depth		Grade	Weight	Hole Siz		ng Pt, (Cmt, Etc.
Surface/Conductor	1 20 4	20 (MD)	9 5/8"		32.3	12.			
Intermediate	000	2854	7"	J-55, 8 RND	20.0	8.7			
Liner REMARKS:		04 to TD	5 1/2"	J-55, 8RND	15.5	11.	.0" 2		
	Cuntana			•					
(1) Circulate Cement to (2) Under-ream open-h		n fram 6)E" +o 11 0"						
(2) Under-ream open-r	iole section	n Irom 6.4	25 10 11.0 .						
CORING PROGRAM: None									
COMPLETION PROGR No frac, perforated line GENERAL REMARKS:	er completi	ion. Run	2-3/8" reduced o	collar tubing to	a depth o	f xxxx' MI	D.		·
Notify BLM/NMOCD 24		to Spud, E							
Form 46 Reviewed by:				ging program re	eviewed by:	N/A			
PREPARED BY:		APPR	OVED:	DATE:					
Form 46 12-00 MNP									

BOP Test Pressure

BP America Production Company BOP Pressure Testing Requirements

Well Name: Barnes GC A

County: San Juan

18

State: New Mexico

Formation	TVD	Anticipated Bottom Hole Pressure	Maximum Anticipated Surface Pressure **
Ojo Alamo Kirtland Fruitland Coal PC Lewis Shale Cliff House Menefee Shale Point Lookout Mancos Dakota		200 250	0

** Note: Determined using the following formula: ABHP - (.22*TVD) = ASP

Requested BOP Pressure Test Exception: 850 psi

C. HARRADEN/ November 23, 2004

BP AMERICA/ Barnes BARNES GC COM A # 1S APD

STIPULATION/CONDITION OF APPROVAL

This well is located in an area where the base of the fresh water San Jose aquifer is near the surface. In order to protect the integrity of this shallow fresh water aquifer, a minimum surface csg. depth of 207' is stipulated as a condition of approval for this APD.

Cementing Program

									
Well Name: Location: County: State:	Barnes GC A1S Sec 23 - 32N - 1 San Juan New Mexico		L, 915' FEL		Field: API No. Well Flac Formation: KB Elev (es GL Elev. (es	Frui	in Fruitland tland Coal 6408 6397		
Casing Program									
Casing String	Est. Depth	Hole Size	Casing Size	Thread	TOC	Stag	je Tool	Cmt Cir. Out	
	(ft.) 201	(in.)	(in.)		(ft.)	Or T	OL (ft.)	(bbl.)	
Surface	120	12.5	9.625	ST&C	Surface	NA			
Production -	2854	8.75	7	LT&C	Surface	NA_			
Casing Propertie			actor included)	_					
Casing String	Size	Weight	Grade	Burst	Collapse	Join		Capacity	Drift
	(in.)	(lb/ft)		(psi.)	(psi.)	•	0 lbs.)	(bbl/ft.)	(in.)
Surface	9.62		2 H-40	2270		1400	254		8.845
Production -		7 20	0 J-55	3740		2270	234	0.0405	6.331
77.15									
Mud Program	M T								
Apx. Interval	Mud Type	Mud Weight			nded Mud Pr	operties P	rio Cemeni	ing:	
(ft.)				PV	<20				
0.000				YP	<10				
0 - SCP	Water/Spud	8.6-9.2		Fluid Loss	 6				
SCP - TD	Water/LSND	8.6-9.2							
SCP - TD	Gas/Air/N2/Mist	NA NA	<u>`</u>						
Compating Decay									
Cementing Progra	am:		Surface		Production				
Evenes 9/ Lond			100			on			
Excess %, Lead					40				
Excess %, Tail			NA 75		40				
BHST (est deg. F	•		75 107		120				
Special Instruction			1,6,7		2,4,6				
	1. Do not wash p	•	es.						
	2. Wash pumps	and lines.							
	3. Reverse out								
	4. Run Blend Te								
			Density on 3.5"						
			ressurized mud s						
			ent is not circulate		40				
	8. If cement is no	ot circulated to	surface, run tem	p. survey 10-	-12 hr. atter k	anding plu	g.		
Notes:									
Notes.	*Do not wash un	on ton of plus	Wash lines hat	ara diantasina	- nraduation				
	Do not wash up	on top or plag	ı. Wash lines bef	ore displacing	production	cement joi	o to minmiz	e armout.	
Confess							· .		
Surface:	Donathorale		00.1-1.						
	Preflush		20 bbl.	FreshWate	r				
				_					
	Slurry 1	66	sx Class C Cen					83	cuft
	TOC@Surface		+ 2% CaCl2 (ad	ccelerator)					
								0.347	cuft/ft OH
Slurry Properties:		Density		Yield		Wate	er		
		(lb/gal)		(ft3/sk)		(gal/s	sk)		
	Slurry 1	15.2	?	1.27			5.8		
	-								
Casing Equipmen	t:	9-5/8", 8R, S	T&C						
9	•	1 Guide Sho							
		1 Top Woode							
		-	•						
		1 Autofill inse							
		Centralizers,	as needed						
		1 Stop Ring							
		1 Thread Loc	k Compound		*				
Production:									
	Fresh Water		10 bbl	CW100					

Schlumberger Private Page 1

Cementing Program

Lead Slurry 1 188 sx Class "G" Cement + 3% D79 extender

491 cuft

TOC@Surface

+ 2% S1 Calcium Chloride +1/4 #/sk. Cellophane Flake

+ 0.1% D46 antifoam'

83 sx 50/50 Class "G"/Poz

105 cuft

Tail Slurry 2

+ 2% gel (extender)

0.1% D46 antifoam +1/4 #/sk. Cellophane Flake + 2% CaCl2 (accelerator)

0.1503 cuft/ft OH 0.1746 cuft/ft csg ann

Slurry Properties:

Slurry 1

Slurry 2

Density (lb/gal) 11.4

500 ft fill

Yield (ft3/sk) 2.61 1.27

Water (gal/sk) 17.77 5.72

Casing Equipment:

13.5 7", 8R, ST&C

Centralizers, as needed

1 Float Shoe (autofill with minimal LCM in mud) 1 Float Collar (autofill with minimal LCM in mud)

1 Top Rubber Plug 1 Thread Lock Compound Form 3160-5 (August 1999)

UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

BUREAU OF LAND MANAGEMENT
RY NOTICES AND REPORTS ON WELLS

FORM APPROVED
OMB NO. 1004-0135
Expires: November 30, 2000

5. Lease Serial No. NMSF078039

SUNDRY Do not use thi abandoned we	NMSF078039 6. If Indian, Allottee or Tribe Name						
SUBMIT IN TRI	PLICATE - Other instru	ctions on reve	rse side.		7. If Unit or CA/Agreement, Name and/or No. NMNM83997		
1. Type of Well					8. Well Name and No.		
Oil Well Gas Well Oth					BARNES GAS C	OM A 15	
2. Name of Operator BP AMERICA PRODUCTION	CO Contact:	CHERRY HLA E-Mail: HLAVA(9. API Well No. 30-045-32700-00-X1		
3a. Address PO BOX 3092 HOUSTON, TX 77253		3b. Phone No. Ph: 281.366	(include area code 6.4081	or Exploratory FLAND COAL			
4. Location of Well (Footage, Sec., 7	otage, Sec., T., R., M., or Survey Description)					, and State	
Sec 23 T32N R11W NESE 2180FSL 915FEL SAN JUAN CC 36.96722 N Laţ, 107.95056 W Lon						OUNTY, NM	
12. CHECK APPI	ROPRIATE BOX(ES) T	O INDICATE	NATURE OF	NOTICE, RE	PORT, OR OTHE	ER DATA	
TYPE OF SUBMISSION			ТҮРЕ О	F ACTION			
Nation of Intent	Acidize	Deep	en	Producti	on (Start/Resume)	☐ Water Shut-Off	
Notice of Intent	Alter Casing		ure Treat	☐ Reclama	ition	☐ Well Integrity	
☐ Subsequent Report	☐ Casing Repair	□ New	Construction	Recomp	lete	Other Change to Original A	
Final Abandonment Notice	Change Plans	Plug	☐ Plug and Abandon		arily Abandon	Change to Original A PD	
	Convert to Injection	Plug	Back	isposal			
13. Describe Proposed or Completed Op If the proposal is to deepen direction Attach the Bond under which the wo following completion of the involver testing has been completed. Final A determined that the site is ready for the original APD was submitted. The original APD was submitted. We respectfully request to changuration. Please see attached and the site is ready for the original APD was submitted. BOP Equipment: BOP Equipment: Below conductor casing to tot 3000 psi annular preventer ar related control equipment will pressure), upon installation, for intervals. Accessories to BOP available, floor safety valves a second control equipment will pressure to BOP available, floor safety valves a second control equipment will pressure to BOP available, floor safety valves a second control equipment will pressure to BOP available, floor safety valves a second control equipment will pressure to BOP available, floor safety valves a second control equipment will pressure to BOP available, floor safety valves a second control equipment will pressure to BOP available, floor safety valves a second control equipment will pressure to BOP available, floor safety that the foregoing is second control equipment will pressure to BOP available, floor safety that the foregoing is second control equipment will pressure to BOP available.	ally or recomplete horizontally or will be performed or provid a operations. If the operation rebandonment Notices shall be final inspection.) ted on 11/18/04 and we are ange the BOP from a doched BOP diagram. Ital depth 11" nominal or and rotating head. All ram be hydraulically tested to ollowing any repairs or every equipment will include heand choke manifold whice	y, give subsurface lot the Bond No. on essults in a multiple iled only after all reare waiting on a uble ram stack 7 1/16", 2000 ptype and annul o 250 psi (low pulpment replaced)	ocations and meas file with BLM/BI completion or recepturements, inclusively approval. Ito a single ram plar preventers a coressure) and completion or at fer kelly cock wi	ured and true ve A. Required sul completion in a a ding reclamation a & annular preventer with as well as 1500 psi (high 30 day th a handle	rtical depths of all pert sequent reports shall b new interval, a Form 31 n, have been completed	inent markers and zones. be filed within 30 days 60-4 shall be filed once	
	Electronic Submission For BP AMERIC	A PRODUCTION	I CO. sent to th	ne Farmington			
Name (Printed/Typed) CHERRY	nitted to AFMSS for proces ⊢U Δ\/Δ	ssing by ADRIEN	NNE BRUMLEY Title AGENT		(05AXB0820SE)		
Transfer street types of IETHER	TILAVA		THE AGEN	I			
Signature (Electronic	Submission)		Date 02/22/2	2005			
	THIS SPACE F	OR FEDERAL	OR STATE	OFFICE US	SE .	, , ,	
Approved By Conditions of approval, if any, are attached			Title	1 Fy		bay 2 1/65	
certify that the applicant holds legal or eq which would entitle the applicant to cond	uitable title to those rights in t uct operations thereon.	he subject lease	Office \mathcal{J}	FO		/	

BP American Production Company

Well Control Equipment Schematic



