Form 3160-3 (April 2004)

UNITED STATES DEPARTMENT OF THE INTERIOR

FORM APPROVED OMB NO. 1004-0137

Expires: March 31,2007

5:\ Lease Serial No.

	BUREAU OF LAND N	MANAGEN	FY3 12 50	<i>05</i>	NM - 010	989
	APPLICATION FOR PERMIT 1			0 6	If Indian, Allottee or Tribe	
<i>j</i>			RECEPTED	W. S	1	
	<u> </u>	010	FARMING DEFEN	3	If Unit or CA Agreement, N	lame and No.
la.	Type of Work: X DRILL	REENT	ER ZZ 18151		1 N 4 W. H M.	
lb.	Type of Well: Oil Well X Gas Well O	ther X	Single Zone Multiple Zo		Lease Name and Well No. Fields A	20 S
2.	Name of Operator				API Well No.	
BF	America Production Company				30-045-33	3164
	P.O. Box 3092	3b. Pho	ne No. (include area code)	10.	Field and Pool, or Explorat	
	eet Address	ł	281-366-4081	İ	Basin Fruitlai	nd Coal
Ho	ouston, TX 77079-2064					
4.	Location of well(Report location clearly and In accordance	e with any Sta	te requirements.*)]11.	Sec.,T.,R.,M.,or Blk.and Si	irvey or Area
/	At surface 1550' FS1980' FEL NE SE	Lat. 30	5.9533 Long. 107.93	361		
(At proposed prod. zone			7	25 T 32N I	R 11W
14.	Distance in miles and direction from the nearest town or po	ost office*		12.	County or Parish	13. State
13	.8 MILES NORTH FROM AZTEC			j	SAN JUAN	NM
15.	Distance from proposed*		16. No. of acres in lease	17. Spacing	Unit dedicated to this well	
	location to nearest	30'				- /
	property or lease line, it.	JU	320		320 <i>E</i>	12
	(Also to nearest drlg. unit line, if any)		10 7 17	20 DING		<u>/</u> ,
18.	1 1	00'	19. Proposed Depth	20. BLM/ I	BIA Bond No. on file	• *
	applied for, on this lease, ft.	<i>7</i> 0	2935'		WY2924	
21.	Elevations (Show whether DF. RT, GR, etc.)		22. Aproximate date work will s	start*	23. Estimated duration	
	6227 GR		9/15/2005		3 DAYS	
_			24. Attachments		<u>* </u>	
Th	e following, completed in accordance with the requirements	of Onshore O	l and Gas Order No. 1 shall be att	ached to this	form:	
	Well plat certified by a registered surveyor.			perations un	less covered by existing bon	d on file(see
	 A Drilling Plan. A Surface Use Plan (if the location is on National Forest S 	System I ands	item 20 above). the 5. Operator certification	n.		
٥.	SUPO shall be filed with the appropriate Forest Service Of	-			ion and/ or plans as may be	required by the a
		,	authorized officer.			. ,
25.	. Signature	T			Date	
	Cherry Alava	Cher	ry Hlava			6/8/2005
Tit			. <u>y 111070</u>	·	·!	0/0/2003
	Regulatory Analyst					
Ap	proved By (Signature)	Name	(Printed/ Typed)		Date	
	Am byalo				7/1	s/os
△ ^{Tit}		Office				
170	Ang the ld Managar - Min	erals				
	phication approval does not warrant or certify that the applications thereon.	ant holds legal	or equitable title to those rights in	the subject	lease which would entitle th	e applicant to con-
	orditions of approval, if any, are attached.					
=	Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section	1212, make it	a crime for any person knowingly	and willfully	to make to any denartment	or agency of the I
Sta	ates any false, fictitious or fraudulent statements or representa					

* (Instructions on page 2)

District 1 PO Box 1980, Hobbs NM 88241-1980

District II

PO Drawer KK, Artesia, NM 87211-0719

District III

1000 Rio Brazos Rd., Aziec, NM 87410

District IV

PO Box 2088, Santa Fc. 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

Fee Lease - 4 Copies

AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

30-045-33	716 29	Basin Fruitland Coa	./
Property Code		5 Property Name	* Well Number
000511	Fields A		# 20S
OGRID No.		* Operator Name	♥ Elevation
778	BP AMERICA PR	ODUCTION COMPANY	6227

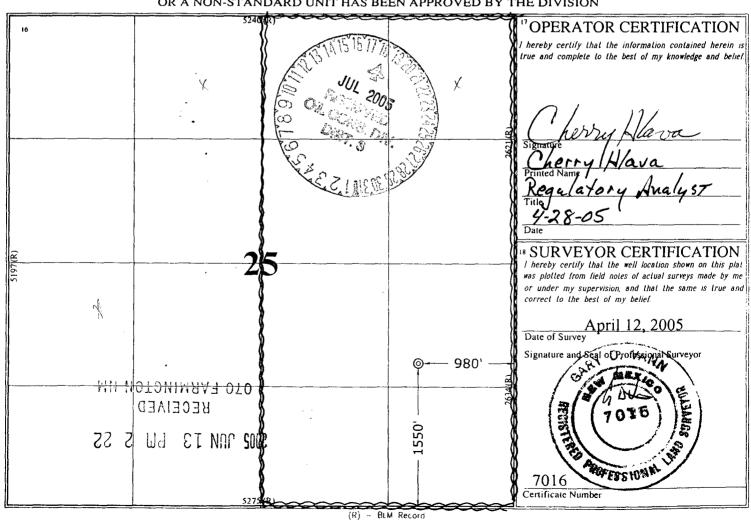
Surface Location

UL or Lot No	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
I	25	32 N	11 W		1550	SOUTH	980	EAST	SAN JUAN

"Bottom Hole Location If Different From Surface

' UL or lot no.	Sect	ion To	`ownship	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
Dedicated A	cres 11	Joint or la	nfill ¹⁴	Consolidatio	n Code 15	Order No.		<u> </u>		

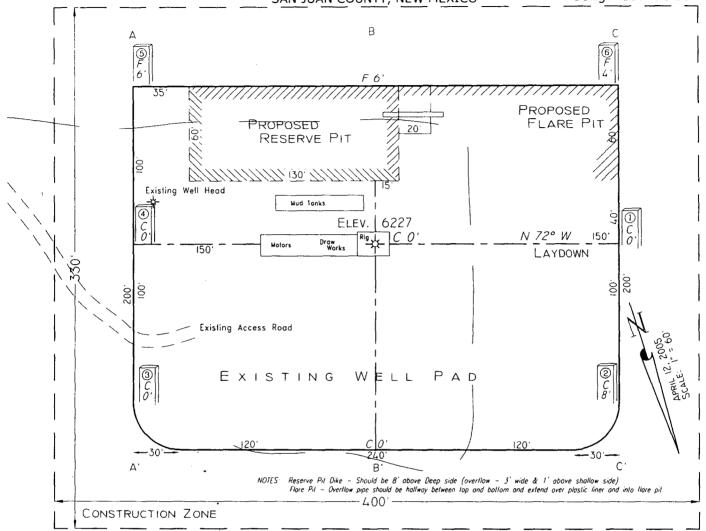
NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION



PAD LAYOUT PLAN & PROFILE BP AMERICA PRODUCTION COMPANY

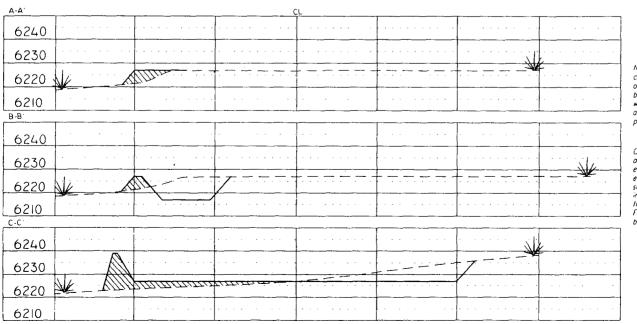
Fields A # 20S 1550' F/SL 980' F/EL SEC. 25, T32N, R11W, N.M.P.M. SAN JUAN COUNTY, NEW MEXICO Lat: 36.9533° Long: 107.9361°

Lat: 36°57'12" Long: 107°56'10"



Area of Construction Zone - 330'x400' or 3.03 acres, more or less

SCALE: 1"=60"-HORIZ, 1"=40"-VERT.



NOTE: Contractor should call One-Call for location of any marked or unmarked buried pipelines or cables on well pad and/or access road at least two (2) working days prior (a construction.

Cuts and fills shown are approximate - final linished elevation is to be adjusted so earthwork will balance. Corner stakes are approximate and do not include additional areas needed for sidestopes and drainages. Final Pad Dimensions are to be verified by Contractor

VANN SURVEYS P. O. Box 1306 Farmington, NM

Additional Operator Remarks Fields A 20S APD

Notice of Staking was submitted on 05/02/05.

Please note the well is staked on an existing Fields A 2A well pad.

BP America Production Company respectfully requests permission to drill the subject well to a total depth of approximately 2935' and complete into the Basin Fruitland Coal.

If terrain allows it is our intent to pre-set the 9 5/8" casing on the above mentioned well by drilling a surface hole with air/air mist in lieu of drilling mud and the surface casing be cemented with 94.5 cu/ft type I-II, 20% FLYASH, 14.5 PPG, 7.41 gal/sk, 1.61 cf/sk Yield, 80 DEG BHST ready mix cement. If the area will not allow for pre-set the approved cement program will be followed.

SUPPLEMENTAL TO SURFACE USE PLAN

New Facilities:

A 4.5" diameter buried steel pipeline that is +/- 200 feet in length will be constructed. The pipe wall thickness is .156 and the pipe wall strength is 42,000#. It will be adjacent to the access road and tie the well into an existing gas meter operated by BP America Production Company. The pipeline will not be used to transport gas to drill the well. After the well is spud the pipeline will be authorized by a right-of-way issued by El Paso Field Services.

APD/ROW

•		_		PI	O ARACT	RICA PRO	DUCTIO	N C) A	NY			
				DI		IG AND CO								
					DKILLI		7/2005	N PR	COGRA	HIV				
L aaca:	Fields A				Woll No.	me & No. Field								
	San Juan,	New A	Mexico											
Minerals:		INEW I	VIEXICO	-+	Surface	Surface: Lat: 36.9533 Long:-107.9361								
Rig:	Aztec 507				RHI		at: 36.9533 Long:-107.9361 E 1/4, S25, T32N, R11W : 1550' FSL, 980' FEL							
OBJECTIVE:		of ET	toncet ET	with 7		rillout and under				_	<u> </u>			
OBSECTIVE.	Dim to top	OI I	, topsett i	WILLI	casing, c	iniout and under	realit i fullari	u 00a	i iiici va	٠.				
		IETU	OD OF DRI	LLINI				ADDD	OYIMA	rc	DEPTHS OF	SEOLOGI	CAL MA	DKED
TVDE	OF TOOLS		JU OF DKI		PTH OF D	BILLING	Actual		6227					
	Rotary				0 - TD		Marker			27 Estimated KB: 6,238 SUBSEA TVD				APPROX. MD
	Ttotaly	10	G PROGRA	A.M.			Ojo Alamo				4,433'	1.805'		
Туре			O FROOM		h Interval		Kirtland			1	4,312			1,926'
Mudlog w/ ga			7"		g depth to	rn	Fruitland Fm			+	3,669			2,569'
wadiog w ga	S CHOIL.			043111	gacparto		Fruitland Co		-	#	3,489'			2,749'
							Pictured Cliff				3,300'			2,938'
										1	-,	1	*	1
									$\neg \vdash$	\dashv		†		
							 		\top	1	· · · · · · · · · · · · · · · · · · ·	_		1
							<u> </u>		<u> </u>	7		1		
REMARKS:		· · · · · · · · · · · · · · · · · · ·							_	1			· · · · · · · · · · · · · · · · · · ·	
At TD and prior	to completion	on of t	the Fruitlan	d coa	interval, th	ne operator will								
FAX or email a	•					•				_			_	
covering the lov	ver basal Fr	uitland	d coal sean	i to th	e FFO-PM	T geologist				╛		<u> </u>		
(Chip Harraden	@ 505-599	- 8997	7, chip_harr	aden	@nm.blm.g	ov) and to the						_		1
BP geologist at	hilkewdn@	bp.cor	m, fax (281	366-	7099.			-	- -	7		+	·	
										_		_	-	
										┪				
							TOTAL D	EPTH	1:	\dashv	3,303'	2	,935'	2,935'
							# Probable completion interval				al	*	Possible	Pav
SPECIAL TEST	rs						DRILL CUTTING SAMPLES DRILLING TIME							
TYPE							FREQUENCY DEPTH				FREQUENCY DEPTH			
None							nor					Geolograph 0		0 - TD
REMARKS:										_			<u> </u>	
			•											
MUD PROGRA	M:			•						******		·		
Interval	ТуреМи	d	#/gal		Vi	s, sec/qt	/30 min	Γ			Other	Specifica	tion	
200'	Spuc	_	8.8 - 9			nt to clean hole.				_				
none	Water/LS		8.4 - 9				<9		Swe	eep	hole while wh	ilst water	drilling. L	CM onsite
2,935'	Air		N/A			1800 cfm	1	 		veep hole while whilst water drilling, LCM onsite se sufficient to maintain a stable and clean wellb				
			IVA		L	1800 CIIII		<u> </u>	Volume	: 50	inicient to mai	illairi a Sia	DIE AND	clear welloore
CASING PROC							T							
CasingSt		<u> </u>	Depth	 	Size	Casing Size	Grade, Th			Weight Landing Po				
Surface/Condu	ctor	<u> </u>	200'		13 1/2"	9-5/8*	H-40 ST	&C	32#	-				nt to surface
Production			2,734'		8 3/4"	7"	J-55		20.0	-			Cr	nt to surface
Production line	<u> </u>	27	704' - TD	.6 1	/4" x 12"	5-1/2"	J-55	15.5		 				
CODING SEC	3DA44	L		Щ.		<u> </u>	none						none	
CORING PROC	SKAM:											<u> </u>		
None	00000									_				
COMPLETION			al Darde											
		nterv	ai. Perfora	ie unc	emented li	ner, run 2-3/8* ti	ping							
GENERAL REI		150 -	or to Count	POT	l tootie	d Casine 110		_						
and the second second second second second	***************************************			, bUF	testing, ar	nd Casing and C	ementing.				***************************************			
BOP Pressure		quire	ments			- <u> </u>								
Forma	tion		Depth		Ar	ticipated botto	m hole press	ure			Max ant	cipated s	urface p	ressure**
Fruitla	ınd	<u> </u>	2,749'			50	0					C)	
Pictured	Cliffs		2,938'			20	0					()	
										_				
Regue	ested BOP	Prese	ure Test Ev	centi	n = 1500 r	osi ** r	lote: Determ	ined u	sing the	fol	lowing formula	· ARHD	. (22*T)	D) = ASP
Form 46 Revie		. 555				viewed by:	.o.o. Determ		only ule	.01	owing formula	. ADITE	(.EE 1 V	<i>5)</i> - A01
PREPARED B					APPROVE			DATE	•		APPE	OVED:		DATE:
DNH/DDR	TT/HGJ						 	-Jun-(
Form 46 7-84b					or Drilling (For Production			

Cementing Program

			18	- ·				· · · · · · · · · · · · · · · · · · ·	
Well Name:	Fields A #20S					L			
Location:	Sec 25 - 32N - 1		L. 980' FEL		API No.				
County:	San Juan	1	- ,		Well Flac				
State:	New Mexico	1			Formation:	Fruitland C	oal		
		-			KB Elev (es	t) (238		
					GL Elev. (es	st) (3227		
Casing Program:		=======================================						- <u></u>	=
Casing String	Est. Depth	Hole Size	Casing Size	Thread	TOC	Stage Too	l Ci	mt Cir. Out	
	(ft.)	(in.)	(in.)		(ft.)	Or TOL (ft.) (b	bl.)	
Surface	200	13.5	9.625	_ST&C	Surface	NA			
Production -	2734	8.75	7	87LT&C	Surface	NA			
Casing Propertie	s:	(No Safety F	actor Included)						
Casing String	Size	Weight	Grade	Burst	_Collapse	Joint St.	C	apacity	Drift
	(in.)	(lb/ft)		(psi.) 🞾	NQ _{psi.)}	(1000 lbs.)	(b	bl/ft.)	(in.)
Surface	9.62	5 3:	2 H-40	-337	0	1400	254	0.0787	8.84
Production -	7	7 2	0 K-55	374	0	2270 254	234	0.0405	6.45
Mud Program		·							
Apx. Interval	Mud Type	Mud Weight		Recomme	ended Mud Pr	operties Prio Ce	menting	<u>1:</u>	
(ft.)				PV	<20				
				YP	<10				
0 - SCP	Water/Spud	8.6 -9 .	2	Fluid Los	s <6				
SCP - TD	Water/LSND	8.6-9.	2						
SCP - TD	Gas/Air/N2/Mist	N.	<u> </u>						
			==			<u>-</u>			
Cementing Progra	am:		Surface		Producti	~~			
Evene % Lond			100			OII			
Excess %, Lead			NA		40				
Excess %, Tail BHST (est deg. F			75		40				
Special Instruction			75 1,6,7		120 2,4,6				
Special ilistruction	1. Do not wash	numne and lir			2,4,0				
	2. Wash pumps		ies.						
	3. Reverse out	and lines.							
	4. Run Blend Te	act on Comon	•						
	5. Record Rate,								
	6. Confirm dens	itometer with	pressurized mud	d scales					
	6. Confirm dens	sitometer with surface if cen	pressurized mud nent is not circul	d scales ated.	10-12 hr. after	r landing plug.			
Notes:	 Confirm dens 1" cement to 	sitometer with surface if cen	pressurized mud nent is not circul	d scales ated.	10-12 hr. after	r landing plug.			
Notes:	6. Confirm dens 7. 1" cement to 8. If cement is r	sitometer with surface if cen not circulated (pressurized munent is not circul to surface, run to	d scales ated. emp. survey		r landing plug.	ninmize	e drillout.	
	6. Confirm dens 7. 1" cement to 8. If cement is r	sitometer with surface if cen not circulated (pressurized munent is not circul to surface, run to	d scales ated. emp. survey			ninmize	e drillout.	
Notes: Surface:	6. Confirm dens 7. 1" cement to 8. If cement is r	sitometer with surface if cen not circulated (pressurized munent is not circul to surface, run to	d scales ated. emp. survey	ing production		ninmize	e drillout.	
	6. Confirm dens 7. 1" cement to 8. If cement is r *Do not wash up	sitometer with surface if cen not circulated if	pressurized munent is not circul to surface, run to ug. Wash lines b	d scales ated. emp. survey efore displac	ing production		ninmize		cuft
	6. Confirm dens 7. 1" cement to 8. If cement is r *Do not wash up Preflush Slurry 1	sitometer with surface if cen not circulated if	pressurized munent is not circul to surface, run te ug. Wash lines b 20 bbl.	d scales ated. emp. survey efore displace FreshWa	ing production		ninmize		cuft
	6. Confirm dens 7. 1" cement to 8. If cement is r *Do not wash up	sitometer with surface if cen not circulated if	pressurized munent is not circul to surface, run to ug. Wash lines b	d scales ated. emp. survey efore displace FreshWa	ing production		ninmize	195	cuft cuft/ft OH
Surface:	6. Confirm dens 7. 1" cement to 8. If cement is r *Do not wash up Preflush Slurry 1 TOC@Surface	sitometer with surface if cen not circulated (p on top of plu	pressurized munent is not circul to surface, run te ug. Wash lines b 20 bbl.	d scales ated. emp. survey efore displace FreshWa ement (accelerator)	ing production	n cement job to r	ninmize	195	
	6. Confirm dens 7. 1" cement to 8. If cement is r *Do not wash up Preflush Slurry 1 TOC@Surface	sitometer with surface if centrol circulated if on top of plut p on top of plut 15	pressurized munent is not circul to surface, run te ug. Wash lines b 20 bbl.	d scales ated. emp. survey efore displace FreshWa ement accelerator)	ing production	n cement job to r	ninmize	195	
Surface:	6. Confirm dens 7. 1" cement to 8. If cement is r *Do not wash up Preflush Slurry 1 TOC@Surface	sitometer with surface if cen not circulated (p on top of plu	pressurized munent is not circulto surface, run to ug. Wash lines b 20 bbl. 34 sx Class G C + 2% CaCl2 (d scales ated. emp. survey efore displace FreshWa ement (accelerator)	ing production	n cement job to r	ninmize	195	

SAN JUAN BASIN Basin Fruitland Coal Formation Pressure Control Equipment

Background

The objective Fruitland Coal formation maximum surface pressure is anticipated to be less than 1000 psi, based on shut-in surface pressures from adjacent wells. Pressure control equipment working pressure minimum requirements are therefore 2000 psi. Equipment to be used will conform to API RP-53 (Figure 2.C.2) for a 2000 psi system per Federal Onshore Order No. 2. Due to available conventional equipment within the area, 3000 psi rated pressure control equipment will typically be utilized in a single ram type arrangement. Regional drilling rights to be utilized have substructure height limitations which exclude the use of annular preventers; therefore a rotating head will be installed above these rams. This pressure control equipment will be utilized for conventional drilling below conductor to total depth in the Fruitland. No abnormal temperature, pressure, or H2S anticipated.

Equipment Specification

Interval

BOP Equipment

Below conductor casing to total depth 11" nominal or 7 1/16", 2000 psi Single ram preventer with 3000 psi annular preventer and rotating head.

All ram type and annular preventers as well as related control equipment will be hydraulically tested to 250 psi (low pressure) and 1500 psi (high pressure), upon installation, following any repairs or equipment replacements, or at 30 day intervals. Accessories to BOP equipment will include kelly cock, upper kelly cock with a handle available, floor safety valves and choke manifold which will also be tested to equivalent pressure.

BP American Production Company

Well Control Equipment Schematic



