Form 3160-3 (August 1999)		FORM APP OMB No. 10	004-0136
UNITED	STATES OF THE INTERIOR	Expires Novem	ber 30, 2000
	D MANAGEMENT	5. Lease Serial No. SF - 078414	
APPLICATION FOR PERM	IT TO DRILL OR REENTER	6. If Indian, Allottee or Trib	oe Name
		7 IFU-2 CA A	Name on d'Na
la. Type of Work: ☑ DRILL ☐ REENTER		7. If Unit or CA Agreement	i, Name and No.
lb. Type of Well: ☐ Oil Well Gas Well	Other Single Zone Multiple Zone	Lease Name and Well No DAY 3M	0.
2. Name of Operator Con	tact: MARY CORLEY	9. API Well No.	
BP AMERICA PRODUCTION COMPANY	E-Mail: corleyml@bp.com	300453	
3a. Address P.O. BOX 3092 HOUSTON, TX 77253	3b. Phone No. (include area code) Ph: 281,366,4491 Fx: 281,366,0700	10. Field and Pool, or Explosion BASIN DAKOTA/BL	oratory ANCO MESAVERDI
4. Location of Well (Report location clearly and in ac-	cordance with any State requirements.*)	11. Sec., T., R., M., or Blk.	and Survey or Area
At surface SWNE Lot G 2220FNL	1770FEL	G Sec 17 T29N R8W I	Mer NMP
At proposed prod. zone		10.0	110 0.
14. Distance in miles and direction from nearest town or 8 MILES FROM BLANCO, NEW MEXICO	post office*	12. County or Parish SAN JUAN	13. State NM
15. Distance from proposed location to nearest property (lease line, ft. (Also to nearest drig, unit line, if any)	or 16. No. of Acres in Lease	17. Spacing Unit dedicated	to this well
870	320.00	320.00 E/2	
 Distance from proposed location to nearest well, drill completed, applied for, on this lease, ft. 	ing, 19. Proposed Depth	20. BLM/BIA Bond No. on	file
1320	7572 MD	WY2924	
21. Elevations (Show whether DF, KB, RT, GL, etc. 6241 GL	22. Approximate date work will start 02/01/2003	23. Estimated duration 7 DAYS	
	24. Attachments		
The following, completed in accordance with the requirement	nts of Onshore Oil and Gas Order No. 1, shall be attached to	this form:	
 Well plat certified by a registered surveyor. A Drilling Plan. 	4. Bond to cover the operati Item 20 above).	ons unless covered by an existi	ng bond on file (see
A Surface Use Plan (if the location is on National Forest SUPO shall be filed with the appropriate Forest Service)	System Lands, the 5. Operator certification	nformation and/or plans as may	be required by the
25. Signature (Electronic Submission)	Name (Printed/Typed) MARY CORLEY		Date 01/14/2003
Title AUTHORIZED REPRESENTATIVE			<u> </u>
Approved by Ginature J. Mankiewicz	Name (Printed/Typed)		PEB 1 1 2003
Title	Office		<u> </u>
operations thereon. Conditions of approval, if any, are attached.	nt holds legal or equitable title to those rights in the subject	icase which would entitle the ap	pplicant to conduct

Additional Operator Remarks (see next page)

Electronic Submission #17619 verified by the BLM Well Information System For BP AMERICA PRODUCTION COMPANY, sent to the Farmington

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 department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

This action is subject 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".

Additional Operator Remarks:

The subject well was originally permitted as the Day B 1B on 11/03/1998 and re-permitted on 04/05/2000 as a Mesaverde completion.

Well location has already been prepared for drilling purposes in 1999.

Please note the change in well name from the Day B 1B to the Day 3M.

BP America Production Company respectfully request permission to drill the subject well to a total depth of approximately 7572', complete in the Basin Dakota Pool, produce the well for approximately 30 days to establish a production rate, then add a completion into the Blanco Mesaverde Pool and commingle production downhole.

Application for downhole commingling authority (NMOCD order R-11363) will be submitted to all appropriate parties for approval after production has been established in the Basin Dakota Pool and prior to completion of and downhole commingling with the Blanco Mesaverde.

SUPPLEMENTAL TO SURFACE USE PLAN

New facilities:

A 4 "diameter buried steel pipeline that is 388.92 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 Day B 1A gas well 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 to El Paso Field Services, refer to the attached survey plat.

DISTRICT I P.O. Box 1980, Hobbs, NM 88240 DISTRICT II 311 South First,, Artesia, NM 88210 DISTRICTIII 1000 Rio Brazos Rd., Aztec, NM 87410

2040 South Pacheco, Sante Fe, NM 87505

DISTRICT IV

State of New Mexico Energy, Minerals and Natural Resources Department

Revised October 18, 1994 Submit to Appropriate District Office State Lease - 4 Copies Fee Lease - 3 Copies

Form C-182

OIL CONSERVATION DIVISION 2040 South Pacheco

Santa Fe, New Mexico 87505

WELL LOCATION AND ACREAGE DEDICATION PLAT

	00-0-0-2	21320	11777	£ 72319	כה כן	IN DAKOTA ?	Blanco Mes	Well Nun	
Property Code		Property Name	Property Name						
0004	2 0				Day 🕰			3M	18
GRID No.		Operator Name						Elevation	
0007	78			AMOCO PI	RODUCTION	COMPANY			6448'
				Su	rface Loca	ation			
UL or lot no.	Section	Township	Range	Lot. Idn	Feet from the	North/South Line	Feet from the	East/West Line	County
UNIT G	17	29N	W8		2220'	NORTH	1770'	EAST	San Juan
		Bott	om Hole	Location	If Differer	nt From Sur	face	,	
UL or lot no.	Section	Township	Range	Lot. Idn	Feet from the	North/South Line	Feet from the	East/West Line	County
dicated Acreage	:	Joint or Infill	Cons	olidation Code	Order No.				
320						N5 C414	6		

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

1		OPERATOR CERTIFICATION
:		I hereby certify that the informtion contained herein is true and complete togine best of my knowledge and belief
	, 9	Signature Signature
		Printed Name
	7	
		Position Sr. Business Analyst
	1770'	Date 03/29/2000
		SURVEY CERTIFICATION
	15 16 11 10	I hamby certify that the well location shown on this plot was plotted from field notes of actual surveys made by one or under my supervision, and that the same is true and correct to the best of my knowledge and belief.
		08/26/1998
	EEB 2003	Date of Survey
		Signature & Seal of Professional Surveyor
	×	Gary D. Vann
<u> </u>		Certificate No.

BP AMERICA PRODUCTION COMPANY DRILLING AND COMPLETION PROGRAM

Prospect Name: Day

Well No: 3M

Lease: Day

Day

Surface Location: 17-29N-8W, 2220 FNL, 1770 FEL Field: Blanco Mesaverde/Basin Dakota

County: San Juan State: New Mexico

Date: December 16, 2002

OBJECTIVE: Drill 50' below the top of the Lower Cubero (DKOT Mbr.), set 4 1/2" production casing, Stimulate CH, MF, PL and DKOT intervals

METHOD OF DRILLING

APPROXIMATE DEPTHS OF GEOLOGICAL MA

ME	APPROXIMATE DEPT	HS OF	GEOLOGICAL N	IARKER	
TYPE OF TOOLS	DEPTH OF DRILLING	Estimated GL: 6450)'	Estimated KB:	6464'
Rotary	0 - TD	MARKER		SUBSEA	TVD
	LOG PROGRAM			4452'	2012'
TYPE	DEPTH INVERAL	Kirtland	-	4252'	2212'
OPEN HOLE		Fruitland		3896'	2568'
None		Fruitland Coal	*	3594'	2871'
		Pictured Cliffs	*	3378'	3087'
		Lewis	#	3143'	3321'
CASED HOLE		Cliff House	#	1867'	4597'
GR-CCL-TDT	TDT – TD to 7" shoe	Menefee	#	1602'	4863'
CBL	Identify 4 1/2" cement top	Point Lookout	#	1174'	5290'
		Mancos		929'	5534'
REMARKS:		Greenhorn		-799	7263'
 Please report any flare 	es (magnitude & duration).	Graneros	1	-858'	7322'
		DKOT/Two Wells	#	-893'	7357'
		Paguate	#	-1005'	7469'
		U.Cubero	#	-1026'	7490'
	SPECIAL TESTS	L.Cubero	#	-1058'	7522'
Type: None		TOTAL DEPTH		-1108	7572'
Remarks		# Probable completion int	# Probable completion interval * Possible Pay		
		DRILL CUTTING SAMPLES		DRILLING	3 TIME
		Frequency Depth		Frequency [Depth
		none Producti	on hole	Geolograph	0-TD

MUD PF	ROGRAM:						
Approx.	. Interval		Type Mud	Weight, #/ga	Vis, sec/qt	W/L cc's/30 min	Other Specification
0	- 200		Spud	8.6-9.2			
200	- 3421	(1)	Water/LSND	8.6-9.2		<6	
3421	- 7572		Gas/Air/N2/Mist	Volume suf	ficient to maint	tain a stable and clea	an wellbore

REMARKS:

(1) The hole will require sweeps to keep unloaded while fresh water drilling. Let hole conditions dictate frequency.

CASING PROGRAM:	(Normally, tubular goods allocation letter specifies casing sizes to be used. Hole sizes will be governed by Contract)						
Casing String	Estimated	Casing Size	Grade	Weight	Hole Size	Landing Pt, Cmt, Etc.	
	Depth	_					
Surface/Conductor	200	9 5/8"	H-40 ST&C	32#	13.5"	1	
Intermediate 1	3421	7"	J/K-55 ST&C	20#	8.75"	1,2	
Production	7572	4 1/2"	J-55	11.6#	6.25"	3	
DEMADES.							

REMARKS:

- (1) Circulate Cement to Surface
- (2) Set casing 100' into Lewis Shale
- (3) Bring cement 100' above 7" shoe

CORING PROGRAM:

None

COMPLETION PROGRAM:

Rigless, 3-4 Stage Limited Entry Hydraulic Frac

GENERAL REMARKS:

Notify BLM/NMOCD 24 hours prior to Spud, BOP testing, and Casing and Cementing.

Form 46 Reviewed by: Logging program reviewed by: N/A

 PREPARED BY:
 APPROVED:
 DATE:

 December 17, 2002
 December 17, 2002

 Version 1.0
 Version 1.0

Cementing Program

Well Name: Location: County: State:	Day 3M 17-29N-8W, 22 San Juan New Mexico	20 FNL, 1770 l	FEL		Field: API No. Well Flac Formation KB Elev (6 GL Elev. (: Dakota N		rde / Basin D <i>a</i> erde	ikota	
Casing Program										
Casing String	Est. Depth	Hole Size	Casing Size	Thread	TOC	Stage To		Cmt Cir. Out		
0	(ft.)	(in.)	(in.)	CT C	(ft.)	Or TOL	π.)	(bbl.)		
Surface	200	12.25	9.625	ST&C	Surface	NA				
Intermediate Production -	3421 7572	8.75 6.25	7 4.5	LT&C ?	Surface 3321	NA NA				
Casing Propertie			actor Included)		3321	INA.				
Casing String	ss. Size	Weight	Grade	Burst	Collapse	Joint St.		Capacity	Drift	
Casing String		_	Grade		•					
Surface	(in.) 9.62	(lb/ft)	2 H-40	(psi.) 3370	(psi.)	(1000 lb:	s.) 254	(bbl/ft.) 0.0787	(in.)	8.845
Intermediate) K-55	3740		2270	234	0.0707		6.456
Production -	4.		3 J-55	5350		4960	154	0.0405		3.875
r rougetion -	7.	5 11.	3 3-33	3330	,	4900	104	0.0133		5.075
Mud Program										
Apx. Interval	Mud Type	Mud Weight		Recomm	ended Mud	Properties Prio	Ceme	ntina:		
(ft.)	maa iypo	maa vroigini		PV	<20	T TOPOLICO I IIO	COMO	iung.		
(14.)				YP	<10					
0 - SCP	Water/Spud	8.6-9.2	,	Fluid Los						
SCP - ICP	Water/LSND	8.6-9.		i idid Loc	K 410					
ICP - ICP2	Gas/Air Mist	0.0-9 N/			•					
ICP2 - TD	LSND	8.6 - 9.2	_							
Cementing Progra										
			Surface		Interme	diate		Production		
Excess %, Lead			100		75			40		
Excess %, Tail			NA		0			40		
BHST (est deg. F)		75		120)		183		
Special Instruction			1,6,7		1,6,8	В		2,4,6		
•	1. Do not wash	pumps and lin								
	2. Wash pumps									
	3. Reverse out									
	4. Run Blend Te	est on Cement								
	5. Record Rate	, Pressure, and	Density on 3.5"	disk						
	6. Confirm dens	sitometer with p	pressurized mud	scales						
	7. 1" cement to	surface if cem	ent is not circulat	ted.						
	8. If cement is r	not circulated to	surface, run ter	np. survey	10-12 hr. af	ter landing plug.				
Notes:	*Do not wash u	p on top of plu	g. Wash lines be	fore displac	ing product	tion cement job	o minr	nize drillout.		
Surface:										
	Preflush		20 bbl.	FreshWa	iter					
			-					•		
	Slurry 1	110) sx Class G Cer	nent				125	cuft	
	TOC@Surface		+ 2% CaCl2 (a	ccelerator)						
			0.25 #/sk Cello	phane Flak	e (lost circu	lation additive)		0.3132	cuft/ft	ОН
			0.1% D46 antif	oam						
Slurry Properties:		Density		Yield		Water				
-		(lb/gai)		(ft3/sk)		(gal/sk)				
		- ·								
	Slurry 1	15.8	3	1.16	6		4.95			

Cementing Program

Casing Equipment:

9-5/8", 8R, ST&C

1 Guide Shoe

1 Top Wooden Plug 1 Autofill insert float valve

Centralizers, 1 per joint except top joint

1 Stop Ring

1 Thread Lock Compound

	Fresh Water Lead Slurry 1	20 ьы	fresh water		
	Slurry 1		290 sx Class "G" Cem	ent	751 cuft
	Olarry .		+ 3% D79 extende	er	
	TOC@Surface		+ 2% S1 Calcium	Chloride	
			+1/4 #/sk. Celloph	ane Flake	
			+ 0.1% D46 antifo	am'	
	Tail		60 sx 50/50 Class "G	"/Poz	75 cuft
	Slurry 2		+ 2% gel (extende	r)	
	500	ft fill	0.1% D46 antifoar	n	0.1503 cuft/ft OH
			+1/4 #/sk. Celloph	ane Flake	0.1746 cuft/ft csg ar
			+ 2% CaCl2 (acce	lerator)	_
Slurry Properties:		Density	Yield	Water	
		(lb/gal)	(ft3/sk)	(gal/sk)	
Slurry 1		11.4	2.61	17.77	
Slurry 2		13.5	1.27	5.72	
asing Equipment	:	7", 8R, ST&C			
		 1 Float Shoe (autofill with 1 Float Collar (autofill with 1 Stop Ring 14 Centralizers (one in modern automater) 2 Fluidmaster vane central 1 Top Rubber Plug 1 Thread Lock Compound 	h minimal LCM in mud) niddle of first joint, then e alizers @ base of Ojo	very third collar)	
Production:	Fresh Water	10 bbl	CW/100		
	rresii water	10 DDI	CW100		
(,					
	Lead		150 LiteCrete D961 / D	0124 / D154	375 cuft
	Slurry 1		+ 0.03 gps D47 an	ntifoam	
	TOC, 100' above	7" shoe	+ 0.5% D112 fluid	loss	•
			+ 0.11% D65 TIC		
	Tail		160 sx 50/50 Class "G"	"/Poz	221 cuft
	Slurry 2		+ 5% D20 gel (exte	ender)	+ 5 #/sk D24 gilsonite
	1538	ft fill	+ 0.1% D46 antifo		+ 0.15% D65 TIC
			+ 1/4 #/sk. Celloph		+ 0.1% D800 retarder
			+ 0.25% D167 Flu		=
				· · · · · · · ·	

BP America Production Company BOP Pressure Testing Requirements

Well Name: Day

County: San Juan

3M

State: New Mexico

Formation	TVD	Anticipated Bottom Hole Pressure	Maximum Anticipated Surface Pressure **
Ojo Alamo	2012'		
Fruitland Coal	2568'		
PC	3087'		
Lewis Shale	3143'		
Cliff House	4597'	500	lo
Menefee Shale	4863'		
Point Lookout	5290'	600	l o
Mancos	5534'		_
Dakota	7357'	2600	1400

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

Requested BOP Pressure Test Exception: | 1500 psi

SAN JUAN BASIN Dakota Formation Pressure Control Equipment

Background

The objective Dakota 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 double 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 Basin Dakota. No abnormal temperature, pressure, or H2S anticipated.

Equipment Specification

Interval

BOP Equipment

Below conductor casing to total depth

11" nominal or 7 1/16",3000 psi double ram preventer with rotating head.

All ram type preventers and related control equipment will be hydraulically tested to 250 psi (low pressure) and 2000 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.