Form 3160-3 (August 1999)

DEPARTMENT OF THE	UNITED STATES DEPARTMENT OF THE INTERIOR									
BUREAU OF LAND MA APPLICATION OFOR PERMIT TO	NGEMENT DRILL OR	REENETER TT. 12 (5.	Lease Serial No.	SF - 078095					
	(, i, i _e /,	puparish	6.	If Indian, Allottee or trib	pe Name					
la. Type of Work: DRILL	REENTER	070 FADALY 3 (5) 1	7.	If Unit or CA Agreemen	nt, Name and No					
1b. Type of Well: Oil Well Gas Well Gas Other	r	Single Zone Multiple Zor		Lease Name and Well Nase A 3M	io.					
2. Name of Operator BP AMERICA PRODUCTION COMPANY		***************************************	9.	API Well No. 30-645-	- 33 410					
3a. Address P.O. BOX 3092 HOUSTON, TX 77079-2064	1	e No. (include area code)		Field and Pool, or Explo	•					
	281-360			asin Dakota & Bl						
4. Loction of Well (Report location clearly and in accordant At surface 2130' FSL & 1940' FWL NESW	ice wiin any	State requirements.")	- 1	Sec., T., R., M., or Bik, ECTION 5 T31N	•					
At proposed prod. Zone 2440' FNL & 1820' FW	VL SEN	w <u>r</u>								
14. Distance in miles and direction from nearest town or post 8.6 MILES NORTH FROM AZTEC, NM				. County or Parish	13. State NEW MEXICO					
15. Distance from proposed* Location to nearest Property or lease line, ft. (Also to nearest drig. Ujnit line, if any) 700'		16. No. of Acres in lease 310.22		Spacing Unit dedicated to this well .22 W/						
18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft. 1400'		19. Proposed Depth 7658' MD 7585' TVD	20. BL WY29							
21. Elevations (show whether DF, KDB., RT, GL, etc.		22. Approximate date work will start* 23. Estimated duration								
6267' GL		01/25/06		8 DAYS						
		24. Attachments								
The following, completed in accordance with the requirements. Well plat certified by a registered surveyor. A Drilling Plan. A Surface Use Plan (if the location is on National for SUPO shall be filed with the appropriate Forest Service O	rest System	Lands, the 4. Bond to cover 20 above). 5. Operator certif 6. Such other sit	the operatification.	tions unless covered by an	existing bond on file (see Item					
	Name (Pri	suthorized offi	icer.	Date						
Cherry Alava	Cherry			10/20/2005						
Title -J										
Approved by (Signatura) Name	e (Printed/T	yped)		Date	2/25					
Title freld Manager - Mine										
Application approval does not warrant or certify the applicant hoperations thereon. Conditions of approval, if any, are attached.	nolds legal o	r equitable title to those rights in th	ne subject l	ease which would entitle th	e applicant to conduct					
Title 18 U.S.C. Section 1001 and title 43 U.S.C. Section 1212, any false, fictitious or fraudules, transports or representations			willfully to	o make to any department o	or agency of the United States					
*(Instructions on research)	ald C10	4 FOR Direction SULV	ra l 1e1/							

This action is subject to technical and procedural review pursuant to 43 CFR 3165.3 and appeal pursuant to 43 CFR 3185.4

NMOCD

PO Box 1980, Hobbs NM 88241-1980 District II PO Drawer KK, Artesia, NM 87211-0719

District III

1000 Rio Brazos Rd., Aztec, NM 87410

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 NUV

Form C-102 Revised February 21, 1994 Instructions on back

Submit to Appropriate District Office

State Lease - 4 Copies Fee Lease - 3 Copies

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WELL LOCATION AND ACREAGE DEDICATION PLAT

'API Numbe	r	¹ Pool Code	Pool Name	
30-045-33	410	71599:72319	Basin Dakota: Blanco	Mesaverde
Property Code		,	Property Name	Weil Number
361	Ca	ise A		· # 3M
OGRID No.		8	⁹ Elevation	
778	BF	AMERICA PROD	6267	

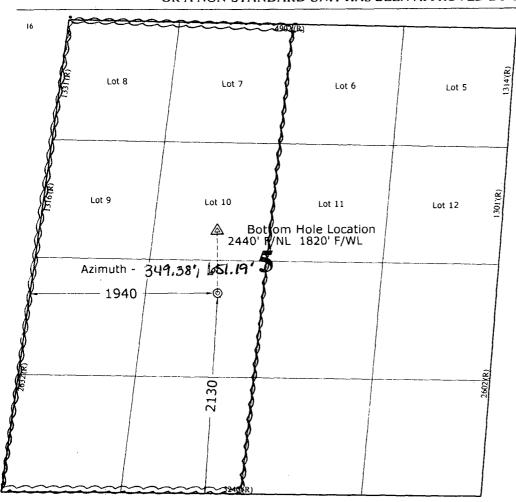
¹⁰ Surface Location

{	UL or Lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
	K	5	31 N	11 W		2130	SOUTH	1940	WEST	SAN JUAN

"Bottom Hole Location If Different From Surface

7 UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
F	5	31 N	11 W		2440	NORTH	1820	WEST	SAN JUAN
12 Dedicated Acres	Join	t or Infill	Consolidatio	n Code	Order No.				
1010 00	.1	1		i i					

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



I hereby certify that the information contained I	
true and complete to the best of my knowledge at	

17 OPER ATOR CERTIFICATION

IB SURVEYOR CERTIFICATION

Date

I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.

Revised September 23, 2005 <u>August 9, 2005</u> Date of Survey



Certificate Number

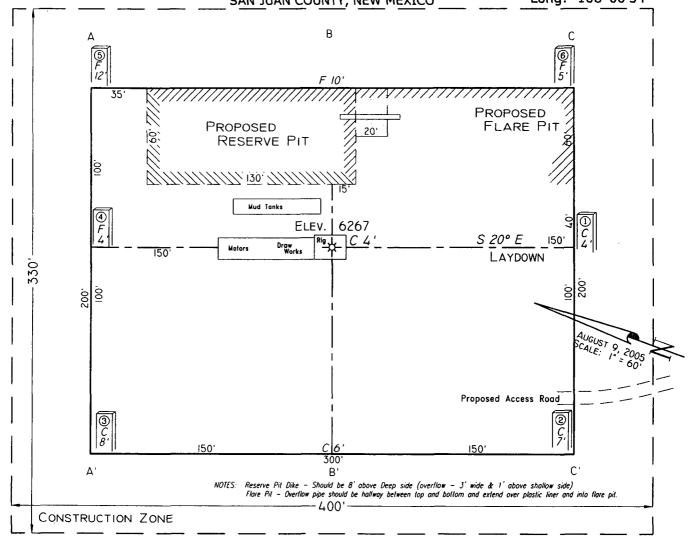
Submit 3 Copies To Appropriate District Office State of New Mexico	Form C-103
District I Energy, Minerals and Natural Resources 1625 N. French Dr., Hobbs, NM 88240	WELL API NO. 22 7 12 2 2 1 2
District II	NEW WELL 30-045 - 33410
1301 W. Grand Ave., Artesia, NM 88210 OIL CONSERVATION DIVISION 1220 See the St. Francis Div	5. Indicate Type of Lease
District III 1220 South St. Francis Dr. 1000 Rio Brazos Rd., Aztec, NM 87410	STATE FEE
District IV Santa Fe, NM 8/505	6. State Oil & Gas Lease No.
1220 S. St. Francis Dr., Santa Fe, NM 87505	
SUNDRY NOTICES AND REPORTS ON WELLS	7. Lease Name or Unit Agreement Name
(DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A	Case A
DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH PROPOSALS.)	(APD filed with BLM SF 078095)
1. Type of Well: Oil Well Gas Well Other	8. Well Number
	3 M
2. Name of Operator	9. OGRID Number
BP AMERICA PRODUCTION COMPANY	10. Pool name or Wildcat
3. Address of Operator P.O. BOX 3092 HOUSTON, TX 77079-2064	Basin Dakota & Blanco Mesaverde
	Dasin Dakota & Bianco Mesaver de
4. Well Location	
	<u>0</u> feet from the <u>West</u> line
Section 5 Township 31N Range 11W	NMPM SAN JUAN County
11. Elevation (Show whether DR, RKB, RT, GR, etc.	
6267'	
Pit or Below-grade Tank Application or Closure	>200 41000
Pit type_DRILLINGDepth to Groundwater >100'_Distance from nearest fresh water well > 1000'	Distance from nearest surface water > 1000
Pit Liner Thickness: 12 mil Below-Grade Tank: Volume bbls; Constru	uction Material
12. Check Appropriate Box to Indicate Nature of Notice	Report or Other Data
	•
	BSEQUENT REPORT OF:
PERFORM REMEDIAL WORK PLUG AND ABANDON REMEDIAL WO	RK ☐ ALTERING CASING ☐
TEMPORARILY ABANDON	
	RILLING OPNS. P AND A
PULL OR ALTER CASING MULTIPLE COMPL CASING/CEMEN	RILLING OPNS. P AND A
PULL OR ALTER CASING MULTIPLE COMPL CASING/CEMEN OTHER: LINED DRILLING PIT OTHER:	RILLING OPNS. P AND A NT JOB
PULL OR ALTER CASING MULTIPLE COMPL CASING/CEMEN OTHER: LINED DRILLING PIT Ø OTHER: 13. Describe proposed or completed operations. (Clearly state all pertinent details, a	RILLING OPNS. P AND A NT JOB Indigive pertinent dates, including estimated date
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PULL OR ALTER CASING MULTIPLE COMPL CASING/CEMENOTHER: LINED DRILLING PIT OTHER: 13. Describe proposed or completed operations. (Clearly state all pertinent details, a of starting any proposed work). SEE RULE 1103. For Multiple Completions: A or recompletion. Construct a lined drilling pit per BP America - San Juan Basin Drilling/ Workover 11/17/2004. Pit will be closed according to closure plan on file. I hereby certify that the information above is true and complete to the best of my knowledgrade tank has been/will be constructed or closed according to NMOCD guidelines , a general permit	RILLING OPNS. PAND A not provided the strack wellbore diagram of proposed completion. Pit Construction Plan issued date of proposed completion. Pit Construction Plan issued date of not proposed completion. Pit Construction Plan issued date of proposed completion. Pit Construction Plan issued date of not propo

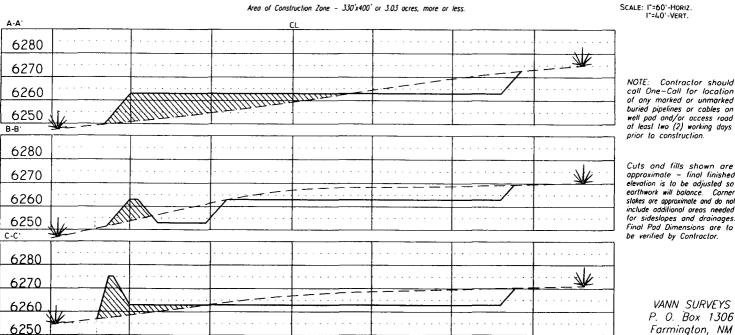
PAD LAYOUT PLAN & PROFILE BP AMERICA PRODUCTION COMPANY

Case A #3M 2130' F/SL 1940' F/WL SEC. 5, T31N, R11W, N.M.P.M. SAN JUAN COUNTY, NEW MEXICO

36.9258° Lat: 108.0150° Long:

36°55'33" 108°00'54" Lat: Long:





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

> VANN SURVEYS P. O. Box 1306 Farmington, NM

BP AMERICA PRODUCTION COMPANY DRILLING AND COMPLETION PROGRAM 9/27/2005 Field: Blanco Mesaverde/Basin Dakota Lease: Case A Well Name & No. Case A #3M County: San Juan, New Mexico Surface Location: 5-31N-11W: 2130' FSL, 1940' FWL Minerals: State Surface: Lat: 36.9258213 deg; Long: -108.0142858 deg Rig: Aztec 184 BH Location: 5-31N-11W: 2440' FNL, 1820' FWL; Lat: 36.9275724 deg; Long: -108.0144026 deg OBJECTIVE: Drill 250' below the top of the Two Wells Mbr, set 4-1/2" production casing, Stimulate DK, MF, and PL intervals METHOD OF DRILLING APPROXIMATE DEPTHS OF GEOLOGICAL MARKER **DEPTH OF DRILLING** Estimated KB: 6,281.0' TYPE OF TOOLS SUBSEA TVD APPROX. MD 0 - TD Rotary Marker LOG PROGRAM Oio Alamo 4.524 1,757 1.792 4,453 1,865 **Type** Depth Interval Kirtland 1,8281 Fruitland 3.996 2,337 Single Run 2,285 Fruitland Coal 2,549 2,609 3,732 Pictured Cliffs 3,319 2,962 3,031 Lewis 3.082 3,199 3,271 4,485' Cased Hole Cliff House # 1,869 4,412 **RST-CBL** TD to 7" shoe Menefee # 1.549 4,732 4,805' 5.258 Point Lookout 1,096 5,185 Identify 4 1/2" cement top REMARKS: Mancos 789' 5,492 5,565 This is an unconventional location, with a surface location in the SW/4 and Greenhorn -946' 7,227 7,300 BHL in the NW/4. BHL should be no further east than the footage requested Graneros (bent,mkr) -998' 7,279 7,352 (1820 FWL). See attached map. Two Wells # -1,054 7,408 7,335 # -1,140 7.421' 7,494 Paguate Cubero # -1,167 7,448 7,521' L. Cubero # -1,189 7,470' 7,543' The recommended TD is intended to penetrate the uppermost BRCN (~10') -1,216 7.497 7,570 so that the entire ENCN can be produced. Offsetting wells encountered no Encinal Cyn # water flow at this depth. See attached cross-section. 7,658' TOTAL DEPTH: -1.304 7.585' - In this area the Cliffhouse member of the Mesa Verde Fm can be wet. # Probable completion interval * Possible Pay SPECIAL TESTS **DRILL CUTTING SAMPLES DRILLING TIME** DEPTH **FREQUENCY** TYPE **FREQUENCY DEPTH** 30'/10' intervals 3,371 to TD Geolograph 0 - TD None REMARKS: MUD PROGRAM: Other Specification Interval TypeMud #/gal Vis, sec/qt /30 min 200' Spud 8.8 - 9.0Sufficient to clean hole. Water/LSND 8.4 - 9.0 Sweep hole while whilst water drilling, LCM onsite 3.371 <9 7,658 1000 cfm for hammer Volume sufficient to maintain a stable and clean wellbore CASING PROGRAM: CasingString Depth Size **Casing Size** Grade, Thread Weight **Landing Point** Cement Surface/Conductor 200' 32# 13 1/2* 9-5/8" H-40 ST&C cmt to surface J/K-55 ST&C Intermediate 1 3,371 8-3/4" 20# 100' below LWIS cmt to surface DKOT Production 7,658 6-1/4" 4-1/2" P-110 11.6# 150' inside Intermediate -TOC survey required CORING PROGRAM: None **COMPLETION PROGRAM:** Rigless, 2-3 Stage Limited Entry Hydraulic Frac, FMC Unihead **GENERAL REMARKS:** Notify BLM/NMOCD 24 hours prior to Spud, BOP testing, and Casing and Cementing. **BOP Pressure Testing Requirements Formation** Depth Anticipated bottom hole pressure Max anticipated surface pressure** Cliffhouse 4,412 **Point Lookout** 5.185 600 0 Dakota 7,335 2600 986.3 Requested BOP Pressure Test Exception = 1500 psi ** Note: Determined using the following formula: ABHP - (.22*TVD) = ASP Logging program reviewed by: Form 46 Reviewed by: PREPARED BY: APPROVED: DATE: DATE: APPROVED: HGJ JMP 27-Sep-05 Form 46 7-84bw For Production Dept. For Drilling Dept.

Cementing Program

				_				
Well Name:	Cana A #214							
vveii mame. Location:	Case A #3M 5-31N-11W: 2	0400' ECL 40	IO EMI					
		2130' FSL, 194	IU FVVL		Well Floo			
County:	San Juan				Well Flac	Diana Massu	anda/Dasia Dakata	
State:	New Mexico				Formation:		erde/Basin Dakota	
					KB Elev (est) GL Elev. (est)	6281 6267		
Casing Program					GL LIEV. (est)	0201		
Casing String	Est. Depth	Hole Size	Casing Size	Thread	TOC	Stage Tool	Cmt Cir. Out	
out in the second	(ft.)	(in.)	(in.)	***************************************	(ft.)	Or TOL (ft.)	(bbl.)	
Surface	200	13.5	9.625	ST&C	Surface	NA	()	
Intermediate	3371	8.75	7	LT&C	Surface	NA		
Production -	7658	6.25	4.5	ST&C	3271	NA		
Casing Propertie			actor Included)					
Casing String	Size	Weight	Grade	Burst	Collapse	Joint St.	Capacity Drift	ł
July 2	(in.)	(lb/ft)		(psi.)	(psi.)	(1000 lbs.)	(bbl/ft.) (in.)	
Surface	9.62		2 H-40	2270		•		8.845
Intermediate			0 K-55	3740				6.456
Production -	4,:		6 J-55	5350				3.875
Mud Program		• • • • • • • • • • • • • • • • • • • •	0 0 00	000				0.0.0
Apx. Interval	Mud Type	Mud Weight	!	Recomm	nended Mud Pros	perties Prio Ceme	entina:	
(ft.)	aa .ypo	maa vvoigin	•	PV	<20		<u>a-</u>	
()				YP	<10			
0-SCP	Water/Spud	8.6-9.	2	Fluid Lo				
SCP - ICP	Water/LSND	8.6-9.		7 1010 20				
ICP - ICP2	Gas/Air Mist	0.0 0. N						
ICP2 - TD	LSND	8.6 - 9.	_					
Cementing Progra								
			Surface		Intermediate		Production	
Excess %, Lead			100		75		40	
Excess %, Tail			NA		0		40	
BHST (est deg. F	()		75		120		183	
Special Instruction	ns		1,6,7		1,6,8		2,4,6	
'	1. Do not wash	pumps and lin	ies.					
	2. Wash pumps	and lines.						
	Reverse out							
	4. Run Blend To	est on Cemen	t					
	Record Rate	, Pressure, an	d Density on 3.5	" disk				
	Confirm dens	sitometer with	pressurized mud	d scales				
			nent is not circula					
					/ 10-12 hr. after la			
Notes:	Do not wash u	p on top of plu	ig. Wash lines be	efore displa	icing production of	cement job to mir	nmize drillout.	•••
Surface:	Deadles		20 hb!	Car alise	l=4==			
	Preflush		20 bbl.	FreshW	ацег			4
	Slurry 1	15	4 sx Class C Ce				195 cuf	ι
	TOC@Surface		+ 2% CaCl2 (a	accelerator,)			
Ol		D "		30.33		181-1-	0.4887 cuf	t/ft OH
Slurry Properties		Density		Yield		Water		
		(lb/gal)		(ft3/sk)		(gal/sk)		
	Slurry 1	15		1.2	27	5.	.8	
Casing Equipmen	nt:	9-5/8", 8R,	ST&C					
		1 Guide Sh	oe					
		1 Top Woo	den Plug					
		4 4 4 4 6 11 1	المسلمة المساعدة					

1 Autofill insert float valve

1 Thread Lock Compound

1 Stop Ring

Centralizers, 1 per joint except top joint

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 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 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", 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.



Field: SAN JUAN, New Mexico Site: SEC 5-T31N-R11W

Well: Case A #3M

Wellpath: OH Plan: Plan #2



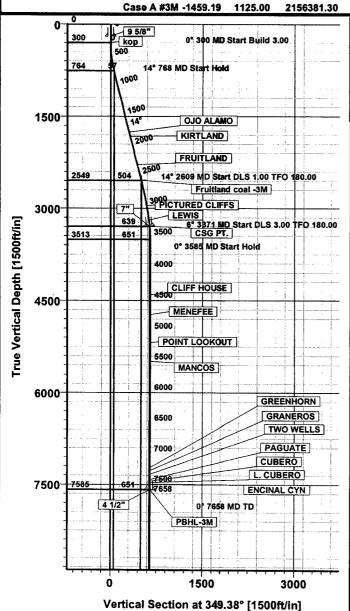
	SECTION DETAILS												
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	Target			
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00				
2	300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00				
3	768.23	14.05	349.38	763.55	56.13	-10.52	3.00	349.38	57.11				
4	2608.71	14.05	349.38	2549.00	495.19	-92.85	0.00	0.00	503.82	Fruitland coal -3M			
5	3371.40	6.42	349.38	3299.00	628.27	-117.80	1.00	180.00	639.22	CSG PT.			
6	3585.39	0.00	0.00	3512.55	640.04	-120.01	3.00	180.00	651.19				
7	7657.84	0.00	0.00	7585.00	640.04 /	-120.01	0.00	0.00	651.19	PBHL-3M			

TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Easting	Shape
Fruitland coal -3M	2549.00	495.19	-92.85	2156876.45	2670308.89	Point
CSG PT.	3299.00	628.27	-117.80	2157009.52	2670283.94	Point
PBHL-3M	7585.00	640.00	-120.00	2157021.25	2670281.74	Circle (Radiu

WELL DETAILS

Name	+N/-5	+E/-W	Northing	Easting	Latitude	Longitude	Slot
Case A #3M	-1459.19	1125.00	2156381.30	2670401.73	36°55'32.960N	108°00'49.019W	N/A



SITE DETAILS SEC 5-T31N-R11W SAN JUAN NEW MEXICO

Ground Level: 6538.00
Positional Uncertainty: 0.00
Convergence: -0.11

