8/23/07 DATE IN	SUSPENSE		N. Jones Ngineer	8/23/07 LOGGED IN	TYPE DHC	APP NO. p TD SO 723537265
			ABOVE	THIS LINE FOR DIVISION USE ONLY	-3936-	<i>y i</i>
2007		EW ME	•	NSERVATION DI ng Bureau - rive, Santa Fe, NM 8	101 - 5	
		DMINI	STRATIVE	APPLICATIO	ON CHECK	LIST
Application A [NSL-F [DI	cronyms: Ion-Stand IC-Downi [PC-Poo [1	WHI dard Locat hole Comm I Comming WFX-Water [SWD-5	CH REQUIRE PROCE ion] [NSP-Non-St ingling] [CTB-I ling] [OLS - Off flood Expansion] Salt Water Dispos	SSING AT THE DIVISION L Candard Proration Ur Lease Commingling] [-Lease Storage] [EVEL IN SANTA FE hifi [SD-Simulta [PLC-Pool/Le OLM-Off-Lease aintenance Exp Pressure Increas	ase Commingling] Measurement] pansion] sej
		PLICATIO	N - Check Those	Which Apply for [A multaneous Dedicati SD]	
	Check ([B]	-	or [B] or [C] ling - Storage - M(CTB	easurement PLC PC] ols 🗌 c	DLM
	[C]	Injection -		re Increase - Enhance SWD [] IPI [ed Oil Recovery	PPR
	[D]	Other: Spe	ecify			
[2] NOTI	FICATI [A]	_ `		ck Those Which App werriding Royalty In	•	ot Apply
	[B]	Offse	t Operators, Leas	eholders or Surface (Owner	
	[C]	Appli	cation is One Wh	ich Requires Publish	ed Legal Notice	
	[D]	Notif	ication and/or Coleau of Land Management-	ncurrent Approval by Commissioner of Public Lands,	BLM or SLO	
	[E]	_	-	oof of Notification o		Attached, and/or,
	[F]	🗌 Waiv	ers are Attached			
			ND COMPLET		REQUIRED T	O PROCESS THE TYPE
	TFICAT	ION. I ha	eby certify that the	he information submi	itted with this an	plication for administrative

[4] **CERTIFICATION:** I hereby certify that the information submitted with this application for administrative approval is **accurate** and **complete** to the best of my knowledge. I also understand that the application will be taken on this application until the required information and notifications are submitted to the Division.

Note: Statement must be completed by an individual with managerial and/or supervisory capacity.

Toya Colvin	loya	COL	Regulatory Analyst	8/17/07
Print or Type Name	Signature		Title	Date

Toya.Colvin@bp.com e-mail Address District I

District II

1301 W. Grand Avenue. Artesia. NM 88210

s, NM 88240

District III Aziec, NM 87410 00 Rio Brazos Road

1220 S. St. Françis Dr., Santa Fe, NM 87505

District IV

State of New Mexico Energy, Minerals and Natural Resources Department

Form C-107A Revised June 10, 2003

Oil Conservation Division 1220 South St. Francis Dr.

Santa Fe, New Mexico 87505

APPLICATION TYPE Single Well Establish Pre-Approved Pools EXISTING WELLBORE Yes No

APPLICATION FOR DOWNHOLE COMMINGLING

<u>BP America Production Company</u> P.O. Box 3092 Houston, TX 77253

Well No.

2M

Address

GOOCH

Operator

Lease

Unit C Section 29 T28N, R08W

Unit Letter-Section-Township-Range

County

San Juan

DHC-3936

OGRID No. <u>000778</u> Property Code <u>001212</u> API No. <u>30-045-24936</u> Lease Type: <u>X</u> Federal ____ State ____ Fee

DATA ELEMENT	U	PPER ZONE	-	INTERMEDIATE-ZONE			LOWER ZONE			
Pool Name	0	tero Chacra		В	lanco Mesa	averde		Basin Dakota		
Pool Code	82329				72319			71599		
Top and Bottom of Pay Section (Perforated or Open-Hole Interval)	To Be Determined 3160 - 3290			4170'- 4720'				6570'- 6708'		
Method of Production (Flowing or Artificial Lift)	A	rtificial Lift			Artificial	Lift		Artificial Lift		
Bottomhole Pressure (Note: Pressure data will not be required if the bottom perforation in the lower zone is within 150% of the depth of the top perforation in the upper zone)		370			375			375		
Oil Gravity or Gas BTU (Degree API or Gas BTU)		1280		1286			1286			
Producing, Shut-In or New Zone		New Zone		Producing			Producing			
Date and Oil/Gas/Water Rates of Last Production. (Note: For new zones with no production history, applicant shall be required to attach production estimates and supporting data.)	Date: Rates:			Date: Rates:			Date: Rates:			
Fixed Allocation Percentage (Note: If allocation is based upon something other than current or past production, supporting data or explanation will be required.)	Oil	Gas %	%	Oil	%	ias %	Oil	Gas %	%	

ADDITIONAL DATA

Are all working, royalty and overriding royalty interests identical in all commingled zones? If not, have all working, royalty and overriding royalty interest owners been notified by certified mail?	Yes <u>X</u> Yes	No _No
Are all produced fluids from all commingled zones compatible with each other?	Yes_ <u>X</u>	_ No
Will commingling decrease the value of production?	Yes	NoX
If this well is on, or communitized with, state or federal lands, has either the Commissioner of Public Lands or the United States Bureau of Land Management been notified in writing of this application?	Yes <u>X</u>	No
NMOCD Reference Case No. applicable to this well:		

Attachments:

C-102 for each zone to be commingled showing its spacing unit and acreage dedication. Production curve for each zone for at least one year. (If not available, attach explanation.) For zones with no production history, estimated production rates and supporting data. Data to support allocation method or formula. Notification list of working, royalty and overriding royalty interests for uncommon interest cases. Any additional statements, data or documents required to support commingling.

PRE-APPROVED POOLS

If application is to establish Pre-Approved Pools, the following additional information will be required:

List of other orders approving downhole commingling within the proposed Pre-Approved Pools

List of all operators within the proposed Pre-Approved Pools

Proof that all operators within the proposed Pre-Approved Pools were provided notice of this application. Bottomhole pressure data.

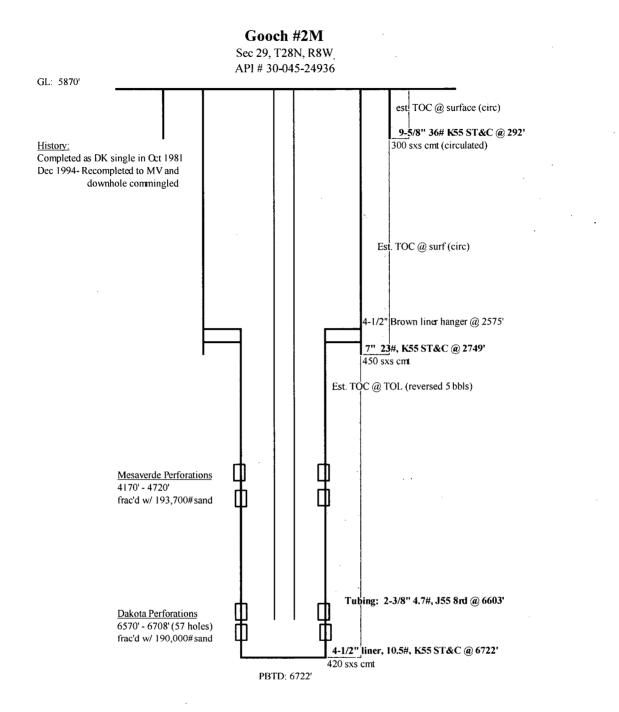
I hereby certify that the information above is true and complete to the best of my knowledge and belief.

signature JOYA	(ori	<u> </u>	Regulatory Analyst	DATE 08	<u>8/17/07</u>
TYPE OR PRINT NAME	Tova Colvin	TE	LEPHONE NO. (281) 366	-7148	

E-MAIL ADDRESS Toya.Colvin@bp.com

Gooch #2M Payadd Procedure Sec 29, T28N, R8W API #: 30-045-24936

- 1. Check anchors. MIRU workover rig.
- 2. If necessary, kill with 2% KCL water. Nipple down WH. NU BOPs.
- 3. Tag for fill and tally OH with 2-3/8" production tubing currently set at 6603'. Visually inspect tubing while POOH.
- 4. TIH with bit and scraper for $4 \frac{1}{2}$ casing to 6722.
- 5. TIH with tubing-set RBP. Set RBP at 3500'. Load hole with 2% KCL.
- 6. Pressure test casing to 2500 psi. Unset RBP and POH.
- 7. RIH with CBP and set at 3500'. Run CBL and perforate using 3-1/8" casing guns (2 SPF 120 deg phasing) with Schlumberger's select-fire charge 3160'-3190' and 3270'-3290'.
- 8. RU frac equipment. Use Slick Water 2% KCL-N2 foam in fracture stimulation.
- 9. Frac Chacra according to pump schedule.
- 10. Flowback frac fluid immediately.
- 11. TIH with tubing and notched collar. Cleanout fill to 3500'. Blow well dry.
- 12. Test Chacra Zone for 8 hours.
- 13. POOH with tubing and pick up bit and drill bridge plug at 3500' and cleanout to PBTD of 6722'.
- 14. ND BOP's. NU WH. Test well for air. Return well to production. as down hole commingle Dakota, Mesa Verde, and Chacra.



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C102Report

District I

District I

District III

Form C-102 Permit 24484

State of New Mexico Phone: (505) 393-6161 Fax: (505) 393-0720 **Energy, Minerals and Natural Resources Oil Conservation Division** 1301 W. Grand Ave., Artesia, NM 88210 Phone: (505) 748-1283 Fax: (505) 748-9720 1220 S. St Francis Dr. Santa Fe, NM 87505

1000 Rio Brazos Rd., Aztec, NM 87410 Phone: (505) 334-6178 Fax: (505) 334-6170 District IV

1625 N. French Dr., Hobbs, NM 88240

1220 S. St Francis Dr., Santa Fe, NM 87505 Phone: (505) 476-3470 Fax: (505) 476-3462

WELL LOCATION AND ACREAGE DEDICATION PLAT

1. API Number 30-045-249 36	2. Pool Code 82329	Name ACRA (GAS)			
4. Property Code . 608	•	5. Property Name GOOCH			
7. OGRID No. 778	•	tor Name UCTION COMPANY	9. Elevation		

	10. Surface Location											
UL - Lot	Section	Township	Range	Lot Idn	Feet From	N/S Line	Feet From	E/W Line	County			
С	29	28N	08W		1100	N	1800	W	SAN JUAN			

10 Courses I and the

11. Bottom Hole Location If Different From Surface

				II Pottom								
UL -	- Lot	Section	Township	Range	Lot	Idn	Feet From	N/S L	ine	Feet From	E/W Line	County
12		cated Acres	13	Joint or Infill		14	. Consolidation (Code			15. Order No.	

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

OPERATOR CERTIFICATION

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

belief. E-Signed By: JOYA COUL Title: Regulatory Analyst Date: 8/22/07

SURVEYOR CERTIFICATION

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.

Surveyed By:

Date of Survey: 8/8/1980 Certificate Number: 3950

Dakota For	mation							
API#	3004524936							
Starting 1/9	6 thru 3/09							
Exponential	Decline							
Qi =	24.4	mcfd	1-Jan-2007					· · · ·
Qf =	23.4	mcfd						
D =	1.78%	per year						
Starting 4/0	9 thru 08/36							
Exponential								
Qi =		mcfd						
Qf =		mcfd						
D =		per year						
		Gas		Gas	Gas		Gas	
	Gas Rate			Rate	Volume		Rate	Volu
Date	mcf/d		Date	mcf/d	MMSCF	Date	mcf/d	MMS
Date	mena	MINIOUI	Date		MINIOUI	Date	inci/u	
Jan-07	24.38	0.76	Aug-09	22.48	0.70	Mar-12	17.57	0
Feb-07	24.34	0.68	Sep-09	22.30	0.67	Apr-12	17.43	0
Mar-07	24.31	0.75	Oct-09	22.12	0.69	May-12	17.29	0
Apr-07	24.27	0.73	Nov-09	21.95	0.66	Jun-12	17.16	0
May-07	24.23		Dec-09	21.78	0.68	Jul-12	17.02	0
Jun-07	24.20		Jan-10	21.60	0.67	Aug-12	16.89	0
Jul-07	24.16	0.75	Feb-10	21.44	0.60	Sep-12	16.76	0
Aug-07	24.12	0.75	Mar-10	21.28	0.66	Oct-12	16.63	0
Sep-07	24.09	0.72	Apr-10	21.11	0.63	Nov-12	16.50	0
Oct-07	24.05	0.75	May-10	20.94	0.65	Dec-12	16.37	0
Nov-07	24.02	0.72	Jun-10	20.78	0.62	Jan-13	16.28	0
Dec-07	23.98	0.74	Jul-10	20.62	0.64	Feb-13	16.16	0
Jan-08	23.88	0.74	Aug-10	20.45	0.63	Mar-13	16.03	0
Feb-08	23.84	0.69	Sep-10	20.29	0.61	Apr-13	15.91	0
Mar-08	23.81			20.13	0.62	May-13	15.78	0
Apr-08	23.77		Nov-10	19.98	0.60	Jun-13	15.66	0
May-08	23.74		Dec-10	19.82	0.61	Jul-13	15.54	0
Jun-08	23.70		Jan-11	19.66	0.61	Aug-13	15.41	0
Jul-08	23.67	0.73	Feb-11	19.51	0.55	Sep-13	15.29	0
Aug-08	23.63		Mar-11	19.36	0.60	Oct-13	15.17	0
Sep-08	23.59		Apr-11	19.21	0.58	Nov-13	15.05	0
Oct-08	23.56		May-11	19.06	0.59	Dec-13	14.93	0
Nov-08	23.52		Jun-11	18.91	0.57	Jan-14	14.82	0
Dec-08	23.49		Jul-11	18.76	0.58	Feb-14	14.70	0
Jan-09	23.52	0.73	Aug-11	18.61	0.58	Mar-14	14.59	0
Feb-09	23.48	0.66	Sep-11	18.47	0.55	Apr-14	14.48	0
Mar-09	23.38	0.73	Oct-11	18.32	0.57	May-14	14.36	0
Apr-09	23.20	0.70	Nov-11	18.18	0.55	Jun-14	14.25	0
May-09	23.02	0.71	Dec-11	18.03	0.56	Jul-14	14.14	0
Jun-09	22.84		Jan-12	17.84	0.55	Aug-14	14.03	0
Jul-09	22.66		Feb-12	17.70	0.51	Sep-14	13.92	0

Gooch 2M							Ĩ	
MesaVerde	e Formation							
API#	3004524936							
	· · · · · · · · · · · · · · · · · · ·							
Otentine 1/0	C +h 44/40							
	6 thru 11/12							
Exponentia		un of d	4 100 2007					
Qi = Qf =		mcfd	1-Jan-2007					
$Q_{I} = D = D$		mcfd						
<u>U</u> =	3.60%	per year						
Starting 12/	/12 thru 08/36							
Exponentia	I Decline					-		
Qi =	75.0	mcfd						
Qf =	8.0	mcfd						
D =	9.00%	per year						
		Gas		Gas	Gas		Gas	Gas
	Gas Rate			Rate	Volume		Rate	Volume
Date	mcf/d	MMSCF	Date	mcf/d	MMSCF	Date	mcf/d	MMSCF
100.07	00.05	0.00	A	04.04	0.00	Mar 40	70.70	
Jan-07	93.05		Aug-09	84.64	2.62	Mar-12	76.78	2.38
Feb-07	92.77	2.60	Sep-09	84.38	2.53	Apr-12	76.55	2.30
Mar-07	92.50	2.87	Oct-09	84.13	2.61	May-12	76.31	2.37
Apr-07	92.21	2.77	Nov-09	83.87	2.52	Jun-12	76.08	2.28
May-07	91 93		Dec-09	83.61	2.59	Jul-12	75.85	2.35
Jun-07	91.65		Jan-10	83.35	2.58	Aug-12	75.61	2.34
Jul-07	91.37	2.83	Feb-10	83.10	2.33 2.57	Sep-12 Oct-12	75.38 75.15	2.26 2.33
Aug-07	91.09 90.81	2.82 2.72	Mar-10	82.86 82.60	2.57	Nov-12	75.15	2.33
Sep-07 Oct-07	90.81		Apr-10	82.60	2.48	Dec-12	74.92	2.25
Nov-07	90.53		May-10 Jun-10	82.10	2.55	Jan-13	74.45	2.31
Dec-07	89.98		Jul-10	81.85	2.40	Feb-13	73.50	2.30
Jan-08	89.45		Aug-10	81.59	2.54	Mar-13	73.50	2.00
Feb-08	89.18		Sep-10	81.34	2.33	Apr-13		2.20
Mar-08				81.10	2.51	May-13		2.17
Apr-08	Contract of the second s		Nov-10	80.85	2.43	Jun-13		2.14
May-08			Dec-10	80.60	2.50	Jul-13		2.19
Jun-08			Jan-11	80.35	2.49	Aug-13		2.17
Jul-08			Feb-11	80.11	2.24	Sep-13		2.09
Aug-08			Mar-11	79.87	2.48	Oct-13		2.14
Sep-08			Apr-11	79.63	2.39	Nov-13		2.05
Oct-08	87.03		May-11	79.39	2.46	Dec-13	67.94	2.11
Nov-08	86.76		Jun-11	79.14	2.37	Jan-14	67.40	2.09
Dec-08	86.50	2.68	Jul-11	78.90	2.45	Feb-14	66.89	1.87
Jan-09	86.47	2.68	Aug-11	78.66	2.44	Mar-14	66.38	2.06
Feb-09	86.21	2.41	Sep-11	78.41	2.35	Apr-14	65.86	1.98
Mar-09	85.95	2.67	Oct-11	78.17	2.42	May-14	65.34	2.03
Apr-09	85.69		Nov-11	77.94	2.34	Jun-14		1.95
May-09			Dec-11	77.70	2.41	Jul-14		1.99
Jun-09	85.17		Jan-12	77.24	2.40	Aug-14		1.98
Jul-09	84.91	2.63	Feb-12	77.01	2.23	Sep-14	63.30	1.90