DSem 05363280

ABOVE THIS LINE FOR DIVISION USE ONLY

NEW MEXICO OIL CONSERVATION DIVISION

- Engineering Bureau -1220 South St. Francis Drive, Santa Fe, NM 87505



		ADMINISTRATIVE ARRIVATION OFFICE	
		ADMINISTRATIVE APPLICATION CHECKLIST	
		ANDATORY FOR ALL ADMINISTRATIVE APPLICATIONS FOR EXCEPTIONS TO DIVISION RULES WHICH REQUIRE PROCESSING AT THE DIVISION LEVEL IN SANTA FE	AND REGULATIONS
wbbi	[DHC-Down	ndard Location] [NSP-Non-Standard Proration Unit] [SD-Simultaneous Denhole Commingling] [CTB-Lease Commingling] [PLC-Pool/Lease Comol Commingling] [OLS - Off-Lease Storage] [OLM-Off-Lease Measure [WFX-Waterflood Expansion] [PMX-Pressure Maintenance Expansion] [SWD-Salt Water Disposal] [IPI-Injection Pressure Increase]	mingling] ment]
[1]	TYPE OF AP [A]	PLICATION - Check Those Which Apply for [A] Location - Spacing Unit - Simultaneous Dedication	
		□ NSL □ NSP □ SD	
	Check	One Only for [B] or [C] Commingling - Storage - Measurement	2005
	(-1	X DHC ☐ CTB ☐ PLC ☐ PC ☐ OLS ☐ OLM	DEC
	[C]	Injection - Disposal - Pressure Increase - Enhanced Oil Recovery WFX PMX SWD IPI EOR PPR	28
	[D]	Other: Specify	PM 12
[2]	NOTIFICATI [A]	ION REQUIRED TO: - Check Those Which Apply, or Does Not Apply Working, Royalty or Overriding Royalty Interest Owners	14 Z
	[B]	Offset Operators, Leaseholders or Surface Owner	
	[C]	Application is One Which Requires Published Legal Notice	
	[D]	Notification and/or Concurrent Approval by BLM or SLO U.S. Bureau of Land Management - Commissioner of Public Lands, State Land Office	
	[E]	For all of the above, Proof of Notification or Publication is Attached, a	and/or,
	[F]	☐ Waivers are Attached	
[3]		CURATE AND COMPLETE INFORMATION REQUIRED TO PROC ATION INDICATED ABOVE.	ESS THE TYPE
[4] appro appli	oval is accurate a	FION: I hereby certify that the information submitted with this application find complete to the best of my knowledge. I also understand that no action valued information and notifications are submitted to the Division.	or administrative vill be taken on this
	Note:	Statement must be completed by an individual with managerial and/or supervisory capac	city.
	y Corley or Type Name	Signature Sr. Regulatory Analyst Title corleyml@bp.com e-mail Address	12/14/2005 Date

District I

1625 N. French Dr., Hobbs, NM 88240

District II

811 South First, Artesia, NM 88210

District III

1000 Rio Brazos Rd., Aztec, NM 87410

District IV 2040 South Pacheco, Santa Fe, NM 87505

12 Dedicated Acres

160

¹³ Joint or Infill

State of New Mexico Energy, Minerals & Natural Resources Department

OIL CONSERVATION DIVISION

2040 South Pacheco

Submit to Appropriate District Office

¹⁵ Order No.

State Lease - 4 Copies

Revised August 15, 2000

Form C-102

Fee Lease - 3 Copies

Santa Fe, NM 87505

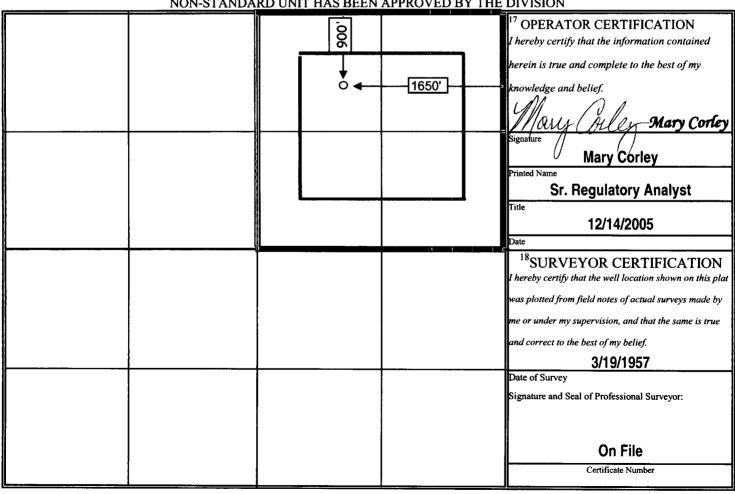
AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

3	¹ API Numbe 0-045-070			1 Code 329				Pool Name ro Chacra	
⁴ Propert	•				⁵ Property Nam Storey LS				⁶ Well Number 4
⁷ OGRI 0007				BP Ameri	8 Operator Nan ca Production	on Company			[°] Elevation 6260' GR
				1	USurface I	cocation			1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
UL or lot no.	Section	Township	Range	Lot Idn	Feet from	North/South	Feet from	East/West	County
Unit B	34	28N	08W		900'	North	1650'	East	San Juan
-		- T	" Botto	m Hole l	Location If	Different I	From Sur	face	
UL or lot no.	Section	Township	Range	Lot Idn	Feet from	North/South	Feet	East/West	County

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

Consolidation Code



State of New Mexico

Form C-107A Revised May 15,

2000

District II

811 South First Street, Artesia, NM 88210

District III

d. Aztec. NM 87410

Pools District IV

St

Lease

2040 South Pacheco, Santa Fe, NM 87505

Energy, Minerals and Natural Resources Department

OIL CONSERVATION DIVISION

2040 South Pacheco

Santa Fe, New Mexico 87503

APPLICATION TYPE X Single Well

Establish Pre-Approved

EXISTING WELLBORE _X_ Yes ___ No

APPLICATION FOR DOWNHÓLE COMMINGLING

BP America	Production	on Company	P. O. Box 3092	Houston, TX 77253	
Operator		,	Addr	ess	
Storey LS	4	Unit B	Section 34 T28N	. R08W	San Juan

Unit Letter-Section-Township-Range County OGRID No. <u>000778</u> Property Code <u>001133</u> API No. <u>30-045-07047</u> Lease Type: <u>X</u> Federal ___ State ___ Fee

Well No.

DATA ELEMENT	UPPER ZONE	INTERMEDIATE ZONE	LOWER ZONE
Pool Name	Blanco PC South	Otero Chacra	Blanco Mesaverde
Pool Code	72439	82329	72319
Top & Bottom of Pay Section (Perforated or Open-Hole Interval)	2646' – 2678'	To Be Determined	4308' – 5009'
Method of Production (Flowing or Artificial Lift)	Artificial Lift	Artificial Lift	Artificial Lift
Bottomhole Pressure	425	430	590
Oil Gravity or Gas BTU (Degree API or Gas BTU)	1246	1210	1246
Producing, Shut-In or New Zone	USE EXUTE DECLINE Producing	BALANCE OF New Zone	USE EXETINE Producing
Date and Oil/Gas/Water Rates of Last Production.	Date: Rates:	Date: Rates:	Date: Rates:
Fixed Allocation Percentage	Oil Gas %	Oil Gas %	Oil Gas %

ADDITIONAL DATA

Are all working, royalty and overriding royalty interests identical in all commingled zones?	Yes_X_ No
If not, have all working, royalty and overriding royalty interest owners been notified by certified mail?	Yes No
Are all produced fluids from all commingled zones compatible with each other?	
	Yes_X_ 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 th	e ini	formation	above	is true and	comp	lete to t	he	best of	`my]	knowl	edge a	nd be	lief.

SIGNATURE_	Mause	Alex TITLE	Sr. Regulatory Analyst	DATE	12/14/2005	
	(// -	_	-	_		_

TYPE OR PRINT NAME Mary Corley _TELEPHONE NO. (281) 366-4491

Allocation Method Storey LS 4

BP America Production Company request permission to complete the subject well into the Otero Chacra and tricommingle production downhole with the existing South Blanco Pictured Cliffs and Blanco Mesaverde Pools as per the attached procedure.

The interest owners are identical between these three Pools, therefore, no additional notification is required prior to downhole commingling approval.

Production is proposed to be allocated based on the subtraction method using the projected future decline for production from the Pictured Cliffs and Mesaverde Pools. This production shall serve as a base for production subtracted from the total production for the commingled well. The balance of the production will be attributed to the Chacra. Attached are the future production decline estimates for the Pictured Cliffs & Mesaverde Pools.

Commingling Production Downhole in the subject well from the proposed pools with not reduce the value of the total remaining production.

Application has also been submitted to BLM on Form 3160-5, Federal Lease No. SF - 078566

Pre Approved Pool:

Blanco-Mesaverde (72319) & South Blanco Pictured Cliffs (72439) Pools Blanco-Mesaverde (72319) & Otero-Chacra (82329) Pools South Blanco Pictured Cliffs (72439) & Otero-Chacra (82329) Pools

Storey LS 4

Future Production Decline Estimate Pictured Cliffs Daily Rates

Sas Volume	9 In(Qf/Qi) = -dt	9 Of= 15	19 Qi= 17	18 rate= 15	7 time= 7	5 dt= -0.	7 decline= -0.
	-dt	15	17	15		-0.125163143	-0.017880449

Jan-2004 Feb-2004 Mar-2004 Apr-2004 May-2004

Month

Jun-2004

Gas Volume	11	11	11	11	11	10	10	10	10	10	10	6	6	6				8			8	8	7	7	7	7	7	7	7	7	9		9	
Month	Jan-2007	Feb-2007	Mar-2007	Apr-2007	May-2007	Jun-2007	Jul-2007	Aug-2007	Sep-2007	Oct-2007	Nov-2007	Dec-2007	Jan-2008	Feb-2008	Mar-2008	Apr-2008	 Jul-2008		177	Nov-2008	Dec-2008	Jan-2009	Feb-2009	Mar-2009	Apr-2009	May-2009	Jun-2009	Jul-2009	Aug-2009	Sep-2009	Oct-2009	Nov-2009	Dec-2009	Jan-2010

Jan-2005 Feb-2005

Sep-2004 Oct-2004

Nov-2004

Dec-2004

Aug-2004

Jul-2004

May-2005 Jun-2005

Apr-2005

Mar-2005

Jul-2005 Aug-2005 Sep-2005 Oct-2005

Nov-2005

Dec-2005

Jan-2006

Feb-2006

May-2006

Jul-2006

Jul-2006

Sep-2006

Oct-2006

Dec-2006

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Gas																																				
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Month	Feb-2	Mar-2	Apr-2	May-2	Jun-2	Jul-2	Aug-2	Sep-2	Oct-2	Nov-2	Dec-2	Jan-2	Feb-2	Mar-2	Apr-2	√ay-2	Jun-2	Jul-2	Aug-2	3ep-2	Oct-2	Vov-2	Dec-2	Jan-2	ep-2	Mar-2	Apr-2	√ay-2	Jun-2	Jul-2	Aug-2	Sep-2	Oct-2	Z-vol	960-2	Jan-2
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Storey LS 4 Future Production Decline Estimate Pictured Cliffs Daily Rates

Gas	16	Mar-2016	Apr-2016 2	May-2016 2	Jun-2016	Jul-2016 2	Aug-2016	Sep-2016	Oct-2016	Nov-2016	Dec-2016	Jan-2017	Feb-2017	Mar-2017	Apr-2017	May-2017	Jun-2017	Jul-2017	Aug-2017	Sep-2017	Oct-2017	Nov-2017	Dec-2017	Jan-2018	Feb-2018	Mar-2018	Apr-2018	May-2018	Jun-2018	Jul-2018	Aug-2018	Sep-2018	Sep-2018 Oct-2018	Sep-2018 Oct-2018 Nov-2018	Sep-2018 Oct-2018 Nov-2018 Dec-2018				Gas Volume 2 2 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Gas Volume	3	က	င	ဇ	3	3	3	3	3	က	3	3	က		2	2	2	2	2	2	2	2	2	2	2		2	2	2	2	2	2	2	2 2 2	2 2 2		Gas Volume		Month Mar-2016 Apr-2016 Jun-2016 Jun-2016 Jun-2017 Aug-2017 Aug-2017 Aug-2017 Jun-2017 Jun-2017 Jun-2018 Mar-2018 May-2018 Jun-2018 Jun-2018
Month	Feb-2013	Mar-2013	Apr-2013	May-2013	Jun-2013	Jul-2013	Aug-2013	Sep-2013	Oct-2013	Nov-2013	Dec-2013	Jan-2014	Feb-2014	Mar-2014	Apr-2014	May-2014	Jun-2014	Jul-2014	Aug-2014	Sep-2014	Oct-2014	Nov-2014	Dec-2014	Jan-2015	Feb-2015	Mar-2015	Apr-2015	May-2015	Jun-2015	Jul-2015	Aug-2015	Sep-2015	Sep-2015 Oct-2015	Sep-2015 Oct-2015 Nov-2015	Sep-2015 Oct-2015 Nov-2015 Dec-2015	May-2013 May-2013 May-2013 Jun-2013 Jun-2013 Sep-2013 Sep-2014 Apr-2014 Jun-2014 Jun-2015 May-2015 May-2015 May-2015 Jun-2015 Jun-2015 Apr-2015 Apr-2015 Apr-2015 Apr-2015 Apr-2015 Aug-2015 Jun-2015 Aug-2015 Aug-2015 Aug-2015	[22] 우리 마다 마다 하나 모든	Gas Volume 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	

Storey LS 4

Future Production Decline Estimate Mesaverde Daily Rates

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Mesaverde	
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Gas Volume

Month

Jan-2004 Feb-2004 Mar-2004

Gas Volume

Month

Feb-2010 Mar-2010 Apr-2010 May-2010 Jun-2010

Jul-2010

=-dt	26	28	5 6	7	-0.074107972	-0.010586853
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Apr-2004 May-2004

Jul-2004

Jun-2004

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Aug-2011 Sep-2011

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Aug-2004 Sep-2004 Oct-2004 Nov-2004 Dec-2004

31 32

Jan-2005 Feb-2005

Mar-2005 Apr-2005 May-2005

Jun-2005 Jul-2005

Aug-2005 Sep-2005 Oct-2005 Nov-2005 Jan-2006

Feb-2006

Dec-2005

Mar-2006 Apr-2006

May-2006 Jun-2006 Jul-2006

Aug-2006

Sep-2006 Oct-2006 Nov-2006 Dec-2006

Apr-2011

May-2011 Jun-2011 Jul-2011

Apr-2012	May-2012	Jun-2012	Jul-2012	Aug-2012	Sep-2012	Oct-2012	Nov-2012	Dec-2012	Jan-2013	
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Future Production Decline Estimate

Mesaverde Daily Rates

Gas Volume	7	7	7	7	7	7	7	7	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	5	5	5	5	5	5	5	5	5	5	5	5
- Month	Feb-2016	Mar-2016	Apr-2016	May-2016	Jun-2016	Jul-2016	Aug-2016	Sep-2016	Oct-2016	Nov-2016	Dec-2016	Jan-2017	Feb-2017	Mar-2017	Apr-2017	May-2017	Jun-2017	Jul-2017	Aug-2017	Sep-2017	Oct-2017	Nov-2017	Dec-2017	Jan-2018	Feb-2018	Mar-2018	Apr-2018	May-2018	Jun-2018	Jul-2018	Aug-2018	Sep-2018	Oct-2018	Nov-2018	Dec-2018	Jan-2019
ne l	10	10	10	10	10	10	10	10	10	6	6	6	6	6	6	6	6	6	6	8	8	8	8	8	8	8	8	8	8	8	8	7	7	7	7	<u>~</u>]
Gas Volume	113	113	013	013	013	013	013	013	113	113	113	114	2014	114)14	14)14	114)14	14)14	14)14	115	15	15	15	115	15	15	15	15	15	15	15	116
Month	Feb-201	Mar-201	Apr-201	May-201	Jun-201	Jul-201	Aug-201:	Sep-201	Oct-201	Nov-2013	Dec-201	Jan-2014	Feb-20	Mar-2014	Apr-2014	May-2014	Jun-2014	Jul-2014	Aug-2014	Sep-2014	Oct-2014	Nov-2014	Dec-2014	Jan-201	Feb-2015	Mar-2015	Apr-2015	May-2015	Jun-201	Jul-201	Aug-201	Sep-2015	Oct-2015	Nov-2015	Dec-2015	Jan-2016