

DATE IN 2/28/05	SUSPENSE	ENGINEER [Signature]	LOGGED IN	TYPE DHC-3414	APP NO. p WVS 0506139230
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ABOVE THIS LINE FOR DIVISION USE ONLY

NEW MEXICO OIL CONSERVATION DIVISION
 - Engineering Bureau -
 1220 South St. Francis Drive, Santa Fe, NM 87505



RECEIVED

ADMINISTRATIVE APPLICATION CHECKLIST

THIS CHECKLIST IS MANDATORY FOR ALL ADMINISTRATIVE APPLICATIONS FOR EXCEPTIONS TO DIVISION RULES AND REGULATIONS WHICH REQUIRE PROCESSING AT THE DIVISION LEVEL IN SANTA FE

Application Acronyms:

[NSL-Non-Standard Location] [NSP-Non-Standard Proration Unit] [SD-Simultaneous Dedication]
[DHC-Downhole Commingling] [CTB-Lease Commingling] [PLC-Pool/Lease Commingling]
[PC-Pool Commingling] [OLS - Off-Lease Storage] [OLM-Off-Lease Measurement]
[WFX-Waterflood Expansion] [PMX-Pressure Maintenance Expansion]
[SWD-Salt Water Disposal] [IPI-Injection Pressure Increase]
[EOR-Qualified Enhanced Oil Recovery Certification] [PPR-Positive Production Response]

Oil Conservation Division
 1220 South St. Francis Drive
 Santa Fe, NM 87505

- [1] **TYPE OF APPLICATION** - Check Those Which Apply for [A]
- [A] Location - Spacing Unit - Simultaneous Dedication
☐ NSL ☐ NSP ☐ SD
- Check One Only for [B] or [C]
- [B] Commingling - Storage - Measurement
☒ DHC ☐ CTB ☐ PLC ☐ PC ☐ OLS ☐ OLM
- [C] Injection - Disposal - Pressure Increase - Enhanced Oil Recovery
☐ WFX ☐ PMX ☐ SWD ☐ IPI ☐ EOR ☐ PPR
- [D] Other: Specify _____
- [2] **NOTIFICATION REQUIRED TO:** - Check Those Which Apply, or Does Not Apply
- [A] ☐ Working, Royalty or Overriding Royalty Interest Owners
- [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, and/or,
- [F] ☐ Waivers are Attached
- [3] **SUBMIT ACCURATE AND COMPLETE INFORMATION REQUIRED TO PROCESS THE TYPE OF APPLICATION INDICATED ABOVE.**

[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 **no action** 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.

Mary Corley
 Print or Type Name

[Signature]
 Signature

Sr. Regulatory Analyst 02/21/2005
 Title Date
corleyml@bp.com
 e-mail Address

Allocation Method
Jones A LS 4A

BP America Production Company request permission to complete the subject well into the Otero Chacra and tricomingle 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 – 077123

Pre Approved Pools:

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

District I
1623 N. French Drive, Hobbs, NM 88240

2000
District II

811 South First Street, Artesia, NM 88210

District III
1000 Rio Brazos Road, Aztec, NM 87410

Pools

District IV

2040 South Pacheco, Santa Fe, NM 87505

State of New Mexico
Energy, Minerals and Natural Resources Department

Form C-107A
Revised May 15,

OIL CONSERVATION DIVISION

2040 South Pacheco
Santa Fe, New Mexico 87505

APPLICATION TYPE

☒ Single Well

☐ Establish Pre-Approved

EXISTING WELLBORE

☒ Yes ☐ No

APPLICATION FOR DOWNHOLE COMMINGLING

DHC-3414

BP America Production Company P. O. Box 3092 Houston, TX 77253

Operator

Address

Jones A LS 4

Unit J Section 13 T28N, R09W

San Juan

Lease

Well No.

Unit Letter-Section-Township-Range

County

OGRID No. 000778 Property Code 000759 API No. 30-045-23719 Lease Type: ☒ Federal ☐ State ☐ Fee

DATA ELEMENT	UPPER ZONE UNDES.	INTERMEDIATE ZONE UNDES.	LOWER ZONE UNDES.
Pool Name	Blanco PC South	Otero Chacra	Blanco Mesaverde
Pool Code	72439	82329	72319
Top & Bottom of Pay Section (Perforated or Open-Hole Interval)	2905' - 3006'	3198' - 3371	4541' - 5496'
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	Producing	New Zone	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?
If not, have all working, royalty and overriding royalty interest owners been notified by certified mail?

Yes ☒ No ☐
Yes ☐ No ☐

Are all produced fluids from all commingled zones compatible with each other?

Yes ☒ No ☐

Will commingling decrease the value of production?

Yes ☐ No ☒

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 ☒ No ☐

NMOCD Reference Case No. applicable to this well:

Attachments:

- C-102 for each zone to be commingling 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 Mary Corley TITLE Sr. Regulatory Analyst DATE 02/21/2005

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

Jones A LS 4A Future Production Decline Estimate **Pictured Cliffs** **Daily Rates**

Month	Gas Volume
Jan-2004	1
Feb-2004	0
Mar-2004	0
Apr-2004	0
May-2004	0
Jun-2004	0
Jul-2004	0
Aug-2004	0
Sep-2004	9
Oct-2004	5
Nov-2004	2
Dec-2004	3
Jan-2005	3
Feb-2005	3
Mar-2005	2
Apr-2005	2
May-2005	2
Jun-2005	2
Jul-2005	1
Aug-2005	1
Sep-2005	1
Oct-2005	1
Nov-2005	1
Dec-2005	1
Jan-2006	1
Feb-2006	1
Mar-2006	1
Apr-2006	0
May-2006	0
Jun-2006	0
Jul-2006	0
Aug-2006	0
Sep-2006	0
Oct-2006	0
Nov-2006	0
Dec-2006	0

$\ln(Q_f/Q_i) = -dt$
 $Q_f = 3$
 $Q_i = 5$
 $rate = 3$
 $time = 4$
 $dt = -0.510825624$
 $decline = -0.127706406$

Month	Gas Volume
Jan-2007	0
Feb-2007	0
Mar-2007	0
Apr-2007	0
May-2007	0
Jun-2007	0
Jul-2007	0
Aug-2007	0
Sep-2007	0
Oct-2007	0
Nov-2007	0
Dec-2007	0
Jan-2008	0
Feb-2008	0
Mar-2008	0
Apr-2008	0
May-2008	0
Jun-2008	0
Jul-2008	0
Aug-2008	0
Sep-2008	0
Oct-2008	0
Nov-2008	0
Dec-2008	0
Jan-2009	0
Feb-2009	0
Mar-2009	0
Apr-2009	0
May-2009	0
Jun-2009	0
Jul-2009	0
Aug-2009	0
Sep-2009	0
Oct-2009	0
Nov-2009	0
Dec-2009	0
Jan-2010	0

Month	Gas Volume
Feb-2010	0
Mar-2010	0
Apr-2010	0
May-2010	0
Jun-2010	0
Jul-2010	0
Aug-2010	0
Sep-2010	0
Oct-2010	0
Nov-2010	0
Dec-2010	0
Jan-2011	0
Feb-2011	0
Mar-2011	0
Apr-2011	0
May-2011	0
Jun-2011	0
Jul-2011	0
Aug-2011	0
Sep-2011	0
Oct-2011	0
Nov-2011	0
Dec-2011	0
Jan-2012	0
Feb-2012	0
Mar-2012	0
Apr-2012	0
May-2012	0
Jun-2012	0
Jul-2012	0
Aug-2012	0
Sep-2012	0
Oct-2012	0
Nov-2012	0
Dec-2012	0
Jan-2013	0

Jones A LS 4A Future Production Decline Estimate **Pictured Cliffs** **Daily Rates**

2/21/2005

Month	Gas Volume
Feb-2013	0
Mar-2013	0
Apr-2013	0
May-2013	0
Jun-2013	0
Jul-2013	0
Aug-2013	0
Sep-2013	0
Oct-2013	0
Nov-2013	0
Dec-2013	0
Jan-2014	0
Feb-2014	0
Mar-2014	0
Apr-2014	0
May-2014	0
Jun-2014	0
Jul-2014	0
Aug-2014	0
Sep-2014	0
Oct-2014	0
Nov-2014	0
Dec-2014	0
Jan-2015	0
Feb-2015	0
Mar-2015	0
Apr-2015	0
May-2015	0
Jun-2015	0
Jul-2015	0
Aug-2015	0
Sep-2015	0
Oct-2015	0
Nov-2015	0
Dec-2015	0
Jan-2016	0

Month	Gas Volume
Feb-2016	0
Mar-2016	0
Apr-2016	0
May-2016	0
Jun-2016	0
Jul-2016	0
Aug-2016	0
Sep-2016	0
Oct-2016	0
Nov-2016	0
Dec-2016	0
Jan-2017	0
Feb-2017	0
Mar-2017	0
Apr-2017	0
May-2017	0
Jun-2017	0
Jul-2017	0
Aug-2017	0
Sep-2017	0
Oct-2017	0
Nov-2017	0
Dec-2017	0
Jan-2018	0
Feb-2018	0
Mar-2018	0
Apr-2018	0
May-2018	0
Jun-2018	0
Jul-2018	0
Aug-2018	0
Sep-2018	0
Oct-2018	0
Nov-2018	0
Dec-2018	0
Jan-2019	0

Jones A LS 4A Future Production Decline Estimate **Mesaverde Daily Rates**

2/21/2005

Month	Gas Volume
Jan-2004	98
Feb-2004	94
Mar-2004	100
Apr-2004	96
May-2004	98
Jun-2004	78
Jul-2004	119
Aug-2004	142
Sep-2004	213
Oct-2004	124
Nov-2004	108
Dec-2004	94
Jan-2005	94
Feb-2005	93
Mar-2005	93
Apr-2005	92
May-2005	92
Jun-2005	91
Jul-2005	91
Aug-2005	90
Sep-2005	90
Oct-2005	89
Nov-2005	89
Dec-2005	88
Jan-2006	88
Feb-2006	87
Mar-2006	87
Apr-2006	87
May-2006	86
Jun-2006	86
Jul-2006	85
Aug-2006	85
Sep-2006	84
Oct-2006	84
Nov-2006	83
Dec-2006	83

$$\ln(Q_f/Q_i) = -dt$$

$$Q_f = 94$$

$$Q_i = 98$$

$$\text{rate} = 94$$

$$\text{time} = 8$$

$$dt = -0.041672696$$

$$\text{decline} = -0.005209087$$

Month	Gas Volume
Jan-2007	83
Feb-2007	82
Mar-2007	82
Apr-2007	81
May-2007	81
Jun-2007	80
Jul-2007	80
Aug-2007	80
Sep-2007	79
Oct-2007	79
Nov-2007	78
Dec-2007	78
Jan-2008	78
Feb-2008	77
Mar-2008	77
Apr-2008	76
May-2008	76
Jun-2008	76
Aug-2008	75
Sep-2008	75
Oct-2008	74
Nov-2008	74
Dec-2008	74
Jan-2009	73
Feb-2009	73
Mar-2009	72
Apr-2009	72
May-2009	72
Jun-2009	71
Jul-2009	71
Aug-2009	71
Sep-2009	70
Oct-2009	70
Nov-2009	70
Dec-2009	69
Jan-2010	69

Month	Gas Volume
Feb-2010	68
Mar-2010	68
Apr-2010	68
May-2010	67
Jun-2010	67
Jul-2010	67
Aug-2010	66
Sep-2010	66
Oct-2010	66
Nov-2010	65
Dec-2010	65
Jan-2011	65
Feb-2011	64
Mar-2011	64
Apr-2011	64
May-2011	63
Jun-2011	63
Jul-2011	63
Aug-2011	62
Sep-2011	62
Oct-2011	62
Nov-2011	61
Dec-2011	61
Jan-2012	61
Feb-2012	60
Mar-2012	60
Apr-2012	60
May-2012	59
Jun-2012	59
Jul-2012	59
Aug-2012	59
Sep-2012	58
Oct-2012	58
Nov-2012	58
Dec-2012	57
Jan-2013	57

Jones A LS 4A Future Production Decline Estimate **Mesaverde Daily Rates**

2/21/2005

Month	Gas Volume
Feb-2013	57
Mar-2013	56
Apr-2013	56
May-2013	56
Jun-2013	56
Jul-2013	55
Aug-2013	55
Sep-2013	55
Oct-2013	54
Nov-2013	54
Dec-2013	54
Jan-2014	54
Feb-2014	53
Mar-2014	53
Apr-2014	53
May-2014	52
Jun-2014	52
Jul-2014	52
Aug-2014	52
Sep-2014	51
Oct-2014	51
Nov-2014	51
Dec-2014	51
Jan-2015	50
Feb-2015	50
Mar-2015	50
Apr-2015	50
May-2015	49
Jun-2015	49
Jul-2015	49
Aug-2015	49
Sep-2015	48
Oct-2015	48
Nov-2015	48
Dec-2015	48
Jan-2016	47

Month	Gas Volume
Feb-2016	47
Mar-2016	47
Apr-2016	47
May-2016	46
Jun-2016	46
Jul-2016	46
Aug-2016	46
Sep-2016	45
Oct-2016	45
Nov-2016	45
Dec-2016	45
Jan-2017	44
Feb-2017	44
Mar-2017	44
Apr-2017	44
May-2017	44
Jun-2017	43
Jul-2017	43
Aug-2017	43
Sep-2017	43
Oct-2017	42
Nov-2017	42
Dec-2017	42
Jan-2018	42
Feb-2018	42
Mar-2018	41
Apr-2018	41
May-2018	41
Jun-2018	41
Jul-2018	40
Aug-2018	40
Sep-2018	40
Oct-2018	40
Nov-2018	40
Dec-2018	39
Jan-2019	39

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

State of New Mexico
Energy, Minerals & Natural Resources DepartmentOIL CONSERVATION DIVISION
2040 South Pacheco
Santa Fe, NM 87505Form C-102
Revised August 15, 2000Submit to Appropriate District Office
State Lease - 4 Copies
Fee Lease - 3 Copies

AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-045-23179	² Pool Code 82329	³ Pool Name Otero Chacra
⁴ Property Code 000759	⁵ Property Name Jones A LS	⁶ Well Number 4A
⁷ OGRID No. 000778	⁸ Operator Name BP America Production Company	⁹ Elevation 6310' GR

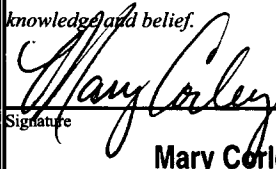
¹⁰ Surface Location

UL or lot no. J	Section 13	Township 28N	Range 08W	Lot Idn	Feet from 1645	North/South South	Feet from 1790	East/West East	County San Juan
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¹¹ Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from	North/South	Feet	East/West	County
¹² Dedicated Acres 160	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

				¹⁷ OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.  Signature Mary Corley
				Printed Name Sr. Regulatory Analyst
				Title 2/17/2005
				Date
				¹⁸ 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. 8/13/1979
				Date of Survey
				Signature and Seal of Professional Surveyor: Fred B Kerr 3950
				Certificate Number

