Form 3160-5
(August 1999)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANGEMENT

FORM APPROVED
OMB No. 1004-0135
Expires November 30, 2000

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to re-enter an Abandoned well. Use Form 3160-3 (APD) for such proposals

SUBMIT IN TRIPLICATE – Other instructions on reverse side

5. Lease Serial No.: **SF - 079938**

6. If Indian, Allottee or tribe Name:

7. Unit or CA/Agreement, Name and/or No.:

1. Type of Well: ☐ Oil Well ☒ Gas Well ☐ Other

8. Well Name and No.: **Jones A 1M**

2. Name of Operator: **BP America Production Company Attn: Mary Corley**

9. API Well No.: **30-045-31720**

3a. Address: **P.O. Box 3092 Houston, TX 77253**

3b. Phone No. *(include area code)*: **281-366-4491**

10. Field and Pool, or Exploratory Area: **Basin DK/ Blanco MV & Otero Chacra**

4. Location of Well *(Footage, Sec., T., R., M., or Survey Description)*: **1940' FNL & 1640' FWL Sec 35 T29N R08W**

11. County or Parish, State: **San Juan County, New Mexico**

MAY 2005

12. CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION			
☒ Notice of Intent	☐ Acidize	☐ Deepen	☐ Production (Start/Resume)	☐ Water shut-Off
☐ Subsequent Report	☐ Alter Casing	☐ Fracture Treat	☐ Reclamation	☐ Well Integrity
☐ Final Abandonment Notice	☐ Casing Repair	☐ New Construction	☐ Recomplete	☐ Abandon
	☐ Change Plans	☐ Plug and Abandon	☐ Water Disposal	
	☐ Injection	☐ Plug Back	☒ Other **Downhole Commingle**	

13. Describe Proposed or Completed Operation (clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recomplete horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompletion in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the site is ready for final inspection.

BP America Production Company request permission to complete the subject well into the Otero Chacra Pool and commingle production Downhole with the existing Basin Dakota & Blanco Mesaverde production as per the attached procedure.

Production is proposed to be allocated based on the subtraction method using the projected future decline for production from both the Dakota & Mesaverde. That 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 is the future production decline estimates for the DK & MV.

Form C-107A is being submitted (copy attached) to NMOCD for their approval

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

DHC 1294A

CONDITIONS OF APPROVAL
Adhere to previously issued stipulations.

RECEIVED
070 FARMINGTON NM
2005 APR 5 PM 2

14. I hereby certify that the foregoing is true and correct

Name (Printed/typed): **Mary Corley** Title: **Senior Regulatory Analyst**

Signature: Mary Corley Date: **3/31/2005**

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by: Title: Petr. Eng. Date: 5/3/05

Conditions of approval, if any, are attached. Approval of this notice does not warrant or Certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Office

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 witin its jurisdiction.

NMOCD

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 Department

OIL CONSERVATION DIVISION
2040 South Pacheco
Santa Fe, NM 87505

Form C-102
Revised August 15, 2000

Submit to Appropriate District Office
State Lease - 4 Copies
Fee Lease - 3 Copies

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

[1] API Number	[2] Pool Code	[3] Pool Name
30-045-31720	82329	Otero Chacra

[4] Property Code	[5] Property Name	[6] Well Number
000578	Jones A	1M

[7] OGRID No.	[8] Operator Name	[9] Elevation
000778	BP America Production Company	

[10] Surface Location

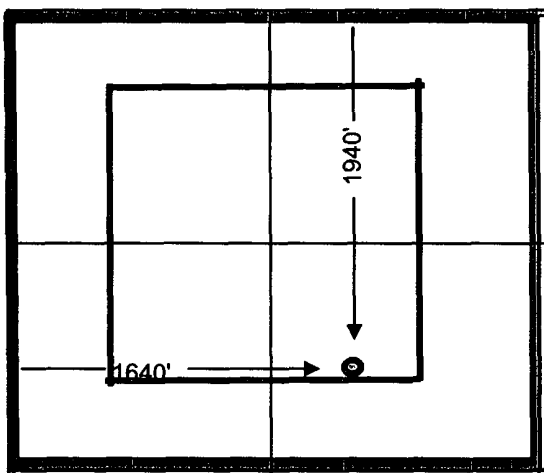
UL or lot no.	Section	Township	Range	Lot Idn	Feet from	North/South	Feet from	East/West	County
F	35	29N	08W		1940	North	1640	West	San Juan

[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	[13] Joint or Infill	[14] Consolidation Code	[15] Order No.
160			

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: Mary Corley

Title: Sr. Regulatory Analyst

Date: 3/31/2005

[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.

Date of Survey: 5/19/2003

Signature and Seal of Professional Surveyor:

Gary Vann 7016

Certificate Number

Jones A 1 M
Procedure to Complete into the Chacra & DHC with Dakota & Mesaverde
March 9, 2005

1. Perform pre-rig site inspection. Check for: size of location, Gas Taps, other wells, other operators, running equipment, wetlands, wash (dikes req.), H2S, barriers needed for equipment, Landowner issues, location of pits (buried lines in pits), Raptor nesting, critical location, check anchors. Check ID wellhead, if earth pit is required have One Call made 48 hours prior to digging.

2. Perform second site visit after lines are marked to ensure all lines clear marked pit locations. Planning and Scheduling to ready location for rig.

3. RU slickline unit or wireline unit. Pressure test lubricator and equipment. RIH and set **two** barriers (CIBP, tbg collar stop w/plug, or plug set in nipple) for isolation in tubing string.

4. Check and record tubing, casing, and bradenhead pressures. Ensure production casing has double casing valves installed. Double valve all casing strings.

5. MIRU workover rig. LO/TO all necessary equipment including but not limited to: meter run, Automation, Separators and water lines.

6. Blow down well. Kill with 2% KCL water ONLY if necessary.

7. Check all casing strings to ensure no pressure exist on any annulus. **The operations of removal of wellhead and installation of BOP's will be performed under a dispensation for one (1) barrier on the backside.**

8. Nipple down Wellhead. NU BOPs and diversion spool with 3" outlets and 3" pipe to the blow tank. Pressure test BOPs to 200 psi above BHP. Monitor flowing casing pressure with gauge (with casing flowing to blow tank) throughout workover.

9. Install stripping rubber, pull tubing hanger up above pipe rams, and shut pipe rams. Remove stripping rubber. Strip tubing hanger out of hole. Re-install stripping rubber.

10. TOH and LD 2-3/8" production tubing currently set at 7280'. Using approved "Under Balance Well Control Tripping Procedure".

11. TIH w/ scraper for 4-1/2". Check the distance between the top of the blind rams and the length of the bottom hole assembly that is being run. If the BHA is too long then the well has to be top killed and monitored prior to opening bind rams. RIH to PBTD at +/7,296'. POOH.

12. Set bridge plug at 4,300'. Fill casing w/ 2%KCl and test to 2,500 psi w/ rig pumps.

13. RU E-line equipment. Pressure test lubricator and equipment. Log well w/ CBL from PBTD to 2500'. If TOC is below Chacra', contact engineer to discuss need for remedial cement squeeze.

14. TIH w/ workstring and blow well dry.

15. Prepare for explosive operations. Follow Schlumberger Explosive SOP including radio silence, suspension of welding operations, and isolation of electrical devices from the work area. Perform Pre-job Safety Meeting to review JSA and procedures.

16. RIH with 3-1/8" casing guns w/lubricator. Perforate Chacra formation w/ 4 SPF.

17. NU Frac isolation equipment. Install and monitor production casing and treating pressure during entire job in frac van via pressure transducers on production casing and treating line. Spearhead 500 gal 15% HCL, establish injection rate, and proceed with fracture stimulation according to Schlumberger schedule. Maintain surface pressures less than 3,000 psi during frac job. Flush frac with foam. Fill out GWSI scorecard.

18. Flowback frac immediately. Flow well through choke manifold on ¼", ½" and ¾" chokes increasing drawdown until well dies or stabilizes. This is to aid in reducing sand flowback. Recommend 8 hours of flow for each choke size.

19. Rig up air package/unit, pressure test all lines (Testing procedure to be supplied from air company), TIH with tubing and bit for 4-1/2" casing. Cleanout fill to top of BP set at 4,300'. **Perform well test on Chacra for regulatory and document well test in DIMS.**

20. Cleanout fill and BP set at 4,300'. Cleanout to PBTD at +/- 7,296'. Blow well dry.

21. Rabbit tubing and RIH with 2-3/8" production tubing (with muleshoe, F-nipple with plug, 4 ft pup, X-nipple with plug).

22. Land 2-3/8" production tubing at +/-5,760'. Lock down hanger.

23. Pressure test tubing to 500 psi with air unit, make sure tubing spool valves are open. Care should be taken during pressure testing of the tubing due to potential problem caused if tubing parts close to surface or above the hanger. Check all casing string for pressure. **The operations of removal of wellhead and installation of BOP's will be performed under a dispensation for one (1) barrier on the backside.**

24. ND BOP's. NU Wellhead. During Master valve placement ensure the top of hanger has spacer nipple in place to bottom of bonnet flange so plunger equipment will not hang up through tree. Pressure test Wellhead.

25. RU WL unit. Run gauge ring for 2-3/8" tubing. Pull plugs and set tubing stop for plunger. Communicate plunger equipment status to IC room personnel.

26. RD slickline unit.

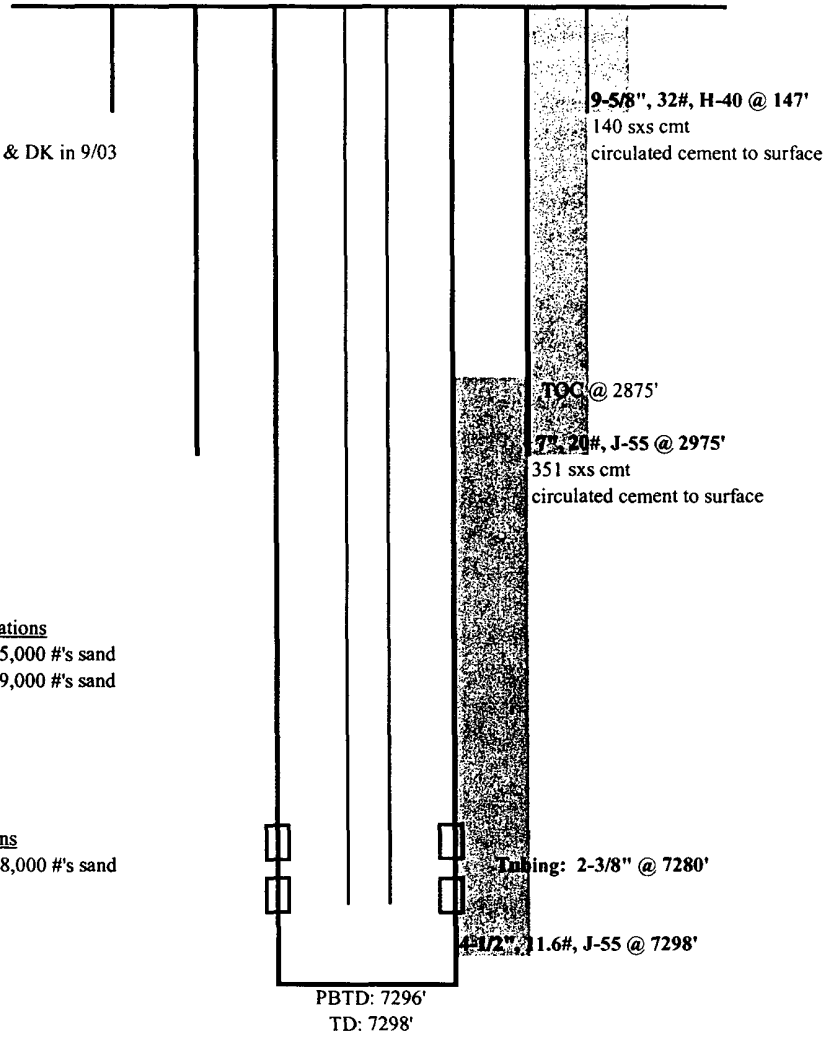
27. Test well for air. Return well to production and downhole tri-mingle Chacra, Mesaverde, and Dakota.

Jones A 1 M

Sec 35, T29N, R9W

API # 30-045-31720

GL: 6257'



History:
Completed in MV & DK in 9/03

Mesaverde Perforations
4377' - 4763' w/ 85,000 #'s sand
4798' - 5157' w/ 89,000 #'s sand

Dakota Perforations
7095' - 7313' w/ 48,000 #'s sand

updated: 3/9/05 CFR

Jones A 1M

Future Production Decline Estimate

Mesaverde Daily Rates

Month	Gas Volume
Jan-2004	**318**
Feb-2004	**440**
Mar-2004	**377**
Apr-2004	**341**
May-2004	**325**
Jun-2004	**290**
Jul-2004	**310**
Aug-2004	**278**
Sep-2004	**174**
Oct-2004	**410**
Nov-2004	**294**
Dec-2004	**266**
Jan-2005	**238**
Feb-2005	**219**
Mar-2005	**216**
Apr-2005	214
May-2005	212
Jun-2005	210
Jul-2005	209
Aug-2005	207
Sep-2005	205
Oct-2005	203
Nov-2005	201
Dec-2005	200
Jan-2006	198
Feb-2006	196
Mar-2006	194
Apr-2006	193
May-2006	191
Jun-2006	189
Jul-2006	188
Aug-2006	186
Sep-2006	184
Oct-2006	183
Nov-2006	181
Dec-2006	179

ln(Qf/Qi) = -dt

Qf=	266
Qi=	278
rate=	266
time=	5
dt=	-0.044124805
decline=	-0.008824961

Month	Gas Volume
Jan-2007	178
Feb-2007	176
Mar-2007	175
Apr-2007	173
May-2007	172
Jun-2007	170
Jul-2007	169
Aug-2007	167
Sep-2007	166
Oct-2007	164
Nov-2007	163
Dec-2007	161
Jan-2008	160
Feb-2008	159
Mar-2008	157
Apr-2008	156
May-2008	154
Jul-2008	153
Aug-2008	152
Sep-2008	150
Oct-2008	149
Nov-2008	148
Dec-2008	146
Jan-2009	145
Feb-2009	144
Mar-2009	143
Apr-2009	141
May-2009	140
Jun-2009	139
Jul-2009	138
Aug-2009	137
Sep-2009	135
Oct-2009	134
Nov-2009	133
Dec-2009	132
Jan-2010	131

Month	Gas Volume
Feb-2010	129
Mar-2010	128
Apr-2010	127
May-2010	126
Jun-2010	125
Jul-2010	124
Aug-2010	123
Sep-2010	122
Oct-2010	121
Nov-2010	120
Dec-2010	119
Jan-2011	117
Feb-2011	116
Mar-2011	115
Apr-2011	114
May-2011	113
Jun-2011	112
Jul-2011	111
Aug-2011	110
Sep-2011	109
Oct-2011	109
Nov-2011	108
Dec-2011	107
Jan-2012	106
Feb-2012	105
Mar-2012	104
Apr-2012	103
May-2012	102
Jun-2012	101
Jul-2012	100
Aug-2012	99
Sep-2012	98
Oct-2012	98
Nov-2012	97
Dec-2012	96
Jan-2013	95

Jones A 1M

Future Production Decline Estimate

Mesaverde Daily Rates

Month	Gas Volume
Feb-2013	94
Mar-2013	93
Apr-2013	93
May-2013	92
Jun-2013	91
Jul-2013	90
Aug-2013	89
Sep-2013	89
Oct-2013	88
Nov-2013	87
Dec-2013	86
Jan-2014	86
Feb-2014	85
Mar-2014	84
Apr-2014	83
May-2014	83
Jun-2014	82
Jul-2014	81
Aug-2014	80
Sep-2014	80
Oct-2014	79
Nov-2014	78
Dec-2014	78
Jan-2015	77
Feb-2015	76
Mar-2015	76
Apr-2015	75
May-2015	74
Jun-2015	74
Jul-2015	73
Aug-2015	72
Sep-2015	72
Oct-2015	71
Nov-2015	70
Dec-2015	70
Jan-2016	69

Month	Gas Volume
Feb-2016	69
Mar-2016	68
Apr-2016	67
May-2016	67
Jun-2016	66
Jul-2016	66
Aug-2016	65
Sep-2016	64
Oct-2016	64
Nov-2016	63
Dec-2016	63
Jan-2017	62
Feb-2017	62
Mar-2017	61
Apr-2017	61
May-2017	60
Jun-2017	60
Jul-2017	59
Aug-2017	59
Sep-2017	58
Oct-2017	57
Nov-2017	57
Dec-2017	56
Jan-2018	56
Feb-2018	55
Mar-2018	55
Apr-2018	55
May-2018	54
Jun-2018	54
Jul-2018	53
Aug-2018	53
Sep-2018	52
Oct-2018	52
Nov-2018	51
Dec-2018	51
Jan-2019	50

Jones A 1M

Future Production Decline Estimate

Dakota Daily Rates

Month	Gas Volume
Jan-2004	**79**
Feb-2004	**109**
Mar-2004	**94**
Apr-2004	**85**
May-2004	**80**
Jun-2004	**72**
Jul-2004	**77**
Aug-2004	**69**
Sep-2004	**43**
Oct-2004	**102**
Nov-2004	**73**
Dec-2004	**66**
Jan-2005	**60**
Feb-2005	**55**
Mar-2005	**54**
Apr-2005	54
May-2005	53
Jun-2005	53
Jul-2005	52
Aug-2005	52
Sep-2005	51
Oct-2005	51
Nov-2005	50
Dec-2005	50
Jan-2006	49
Feb-2006	49
Mar-2006	49
Apr-2006	48
May-2006	48
Jun-2006	47
Jul-2006	47
Aug-2006	46
Sep-2006	46
Oct-2006	46
Nov-2006	45
Dec-2006	45

ln(Qf/Qi) = -dt

Qf=	66
Qi=	69
rate=	66
time=	5
dt=	-0.044451763
decline=	-0.008890353

Month	Gas Volume
Jan-2007	44
Feb-2007	44
Mar-2007	44
Apr-2007	43
May-2007	43
Jun-2007	42
Jul-2007	42
Aug-2007	42
Sep-2007	41
Oct-2007	41
Nov-2007	41
Dec-2007	40
Jan-2008	40
Feb-2008	40
Mar-2008	39
Apr-2008	39
May-2008	39
Jul-2008	38
Aug-2008	38
Sep-2008	38
Oct-2008	37
Nov-2008	37
Dec-2008	37
Jan-2009	36
Feb-2009	36
Mar-2009	36
Apr-2009	35
May-2009	35
Jun-2009	35
Jul-2009	34
Aug-2009	34
Sep-2009	34
Oct-2009	33
Nov-2009	33
Dec-2009	33
Jan-2010	33

Month	Gas Volume
Feb-2010	32
Mar-2010	32
Apr-2010	32
May-2010	31
Jun-2010	31
Jul-2010	31
Aug-2010	31
Sep-2010	30
Oct-2010	30
Nov-2010	30
Dec-2010	30
Jan-2011	29
Feb-2011	29
Mar-2011	29
Apr-2011	28
May-2011	28
Jun-2011	28
Jul-2011	28
Aug-2011	27
Sep-2011	27
Oct-2011	27
Nov-2011	27
Dec-2011	27
Jan-2012	26
Feb-2012	26
Mar-2012	26
Apr-2012	26
May-2012	25
Jun-2012	25
Jul-2012	25
Aug-2012	25
Sep-2012	24
Oct-2012	24
Nov-2012	24
Dec-2012	24
Jan-2013	24

Jones A 1M

Future Production Decline Estimate

Dakota Daily Rates

Month	Gas Volume
Feb-2013	23
Mar-2013	23
Apr-2013	23
May-2013	23
Jun-2013	23
Jul-2013	22
Aug-2013	22
Sep-2013	22
Oct-2013	22
Nov-2013	22
Dec-2013	21
Jan-2014	21
Feb-2014	21
Mar-2014	21
Apr-2014	21
May-2014	20
Jun-2014	20
Jul-2014	20
Aug-2014	20
Sep-2014	20
Oct-2014	20
Nov-2014	19
Dec-2014	19
Jan-2015	19
Feb-2015	19
Mar-2015	19
Apr-2015	19
May-2015	18
Jun-2015	18
Jul-2015	18
Aug-2015	18
Sep-2015	18
Oct-2015	18
Nov-2015	17
Dec-2015	17
Jan-2016	17

Month	Gas Volume
Feb-2016	17
Mar-2016	17
Apr-2016	17
May-2016	17
Jun-2016	16
Jul-2016	16
Aug-2016	16
Sep-2016	16
Oct-2016	16
Nov-2016	16
Dec-2016	16
Jan-2017	15
Feb-2017	15
Mar-2017	15
Apr-2017	15
May-2017	15
Jun-2017	15
Jul-2017	15
Aug-2017	14
Sep-2017	14
Oct-2017	14
Nov-2017	14
Dec-2017	14
Jan-2018	14
Feb-2018	14
Mar-2018	14
Apr-2018	13
May-2018	13
Jun-2018	13
Jul-2018	13
Aug-2018	13
Sep-2018	13
Oct-2018	13
Nov-2018	13
Dec-2018	13
Jan-2019	12

District I
1625 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

OIL CONSERVATION DIVISION
2040 South Pacheco
Santa Fe, New Mexico 87505

APPLICATION FOR DOWNHOLE COMMINGLING

Form C-107A
Revised May 15,

APPLICATION TYPE
_X_ Single Well
___ Establish Pre-Approved

EXISTING WELLBORE
_X_ Yes ___ No

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

Jones A 1M **Unit F Section 35 T29N, R08W** **San Juan**
Lease Well No. Unit Letter-Section-Township-Range County

OGRID No. **000778** Property Code **000578** API No. **30-045-31720** Lease Type: **X** Federal ___ State ___ Fee

DATA ELEMENT	UPPER ZONE	INTERMEDIATE ZONE	LOWER ZONE
Pool Name	**Otero Chacra**	**Blanco Mesaverde**	**Basin Dakota**
Pool Code	**82329**	**72319**	**71599**
Top & Bottom of Pay Section (Perforated or Open-Hole Interval)	**To Be Determined**	**4377' - 5157**	**7095' – 7313'**
Method of Production (Flowing or Artificial Lift)	**Artificial Lift**	**Artificial Lift**	**Artificial Lift**
Bottomhole Pressure		**430**	**590**
Oil Gravity or Gas BTU (Degree API or Gas BTU)		**950**	**950**
Producing, Shut-In or New Zone	**New Zone**	**Producing**	**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_____ No_X_

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_X_ 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 Mary Corley TITLE **Sr. Regulatory Analyst** DATE **03/31/2005**

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