

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENTFORM 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.**5. Lease Serial No.  
NMSF079319

6. If Indian, Allottee or Tribe Name

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

**SUBMIT IN TRIPLICATE - Other instructions on reverse side.**

1. Type of Well

☐ Oil Well ☒ Gas Well ☐ Other2. Name of Operator  
BP AMERICA PRODUCTION COContact: MARY CORLEY  
E-Mail: corleym@bp.com8. Well Name and No.  
SCHWERTDFEGERLS 93a. Address  
P. O. BOX 3092  
HOUSTON, TX 772533b. Phone No. (include area code)  
Ph: 281.366.4491  
Fx: 281.366.07009. API Well No.  
30-045-07037-00-C110. Field and Pool, or Exploratory  
BLANCO MV/ PC  
OTERO CHACRA

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

Sec 31 T28N R8W NENE 1190FNL 0654FEL  
36.62169 N Lat, 107.71489 W Lon

11. County or Parish, and State

SAN JUAN COUNTY, NM

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

## TYPE OF SUBMISSION

## TYPE OF ACTION

- ☒
- Notice of Intent
- 
- ☐
- Subsequent Report
- 
- ☐
- Final Abandonment Notice

- ☐
- Acidize
- 
- ☐
- Alter Casing
- 
- ☐
- Casing Repair
- 
- ☐
- Change Plans
- 
- ☐
- Convert to Injection

- ☐
- Deepen
- 
- ☐
- Fracture Treat
- 
- ☐
- New Construction
- 
- ☐
- Plug and Abandon
- 
- ☐
- Plug Back

- ☐
- Production (Start/Resume)
- 
- ☐
- Reclamation
- 
- ☐
- Recomplete
- 
- ☐
- Temporarily Abandon
- 
- ☐
- Water Disposal

- ☐
- Water Shut-Off
- 
- ☐
- Well Integrity
- 
- ☒
- Other
- 
- Subsurface Commingling

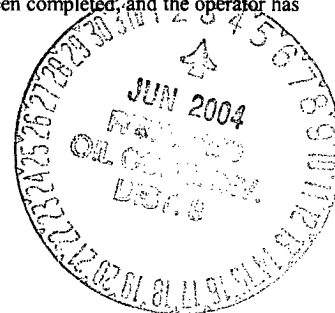
13. Describe Proposed or Completed Operation (clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recompleate horizontally, give subsurface locations and measured and true vertical 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 recompleation 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 and trimingle production downhole with the existing South Blanco Pictured Cliffs and Blanco Mesaverde Pools as per the attached procedure. Application also submitted to NMOCD s Santa Fe Office for approval (copy attached).

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



04C 3263

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

Electronic Submission #29599 verified by the BLM Well Information System  
For BP AMERICA PRODUCTION CO, sent to the Farmington  
Committed to AFMSS for processing by MATTHEW HALBERT on 05/25/2004 (04MXH1668SE)

Name (Printed/Typed) MARY CORLEY

Title AUTHORIZED REPRESENTATIVE

Signature (Electronic Submission)

Date 04/15/2004

## THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved By

Original Signed: Stephen Mason

Title

JUN 01 2004

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

NMOCD

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 within its jurisdiction.

\*\* BLM REVISED \*\* BLM REVISED \*\* BLM REVISED \*\* BLM REVISED \*\* BLM REVISED \*\*

**Additional data for EC transaction #29599 that would not fit on the form**

**32. Additional remarks, continued**

value of the total remaining production.

**Schwerdtfeger A LS 9**  
**Complete the Chacra & Downhole tri-mingle Pictured Cliffs, Chacra, & Mesaverde**

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**Procedure:**

1. Check anchors. MIRU workover rig.
2. Check and record tubing, casing, and bradenhead pressures.
3. Blow down well. Kill with 2% KCL water ONLY if necessary.
4. Nipple down WH. NU BOPs and diversion spool with 3" outlets and 3" pipe to the blow tank. Pressure test BOPs to 500 psi. Monitor flowing casing pressure with gauge (with casing flowing to blow tank) throughout workover.
5. RU slickline unit or wireline unit. RIH and set plug (CIBP, tbg collar stop, or plug set in nipple) for isolation.
6. TOH with 2-3/8" production tubing currently set at 5315'.

Contingency: *If the tubing is in poor condition, replace entire tubing string.*

7. TIH w/ bit and scraper for 7-5/8" casing to liner top at 5068'. Work casing scraper across PC perforations at 2967 – 3010, Mesaverde perforations from 4875' - 5068' and proposed Chacra interval from 3930 - 4090'.
8. RU WL unit. RIH with 7-5/8" CIBP. Set CIBP at 4800'.
9. RIH with 3-1/8" casing guns. Perforate Chacra formation (correlate to GR log).

Chacra perforations, 2 spf (15 shots/ 30 holes):

3938, 3939, 3940, 3941, 3964, 3965, 3966, 3967, 4048, 4049, 4065, 4072, 4073, 4074, 4085'.

10. TIH w/ packer and frac string. Set packer at 3100'.
11. Spearhead 500 gal 15% HCL, establish injection rate, and proceed with fracture stimulation according to Schlumberger schedule. Maintain surface pressures  $\leq$  5500 psi during frac job. Flush frac with foam. Fill out GWSI scorecard.
12. Flowback frac immediately.
13. TIH with tubing and bit for 7-5/8" casing. Cleanout fill and drill bridge plug set at 4800'. Cleanout fill to liner top at 5068'.
14. TIH with tubing and bit for 4-1/2" casing. Cleanout to PBTB at 5379'. Blow well dry.
15. Rabbit tubing and RIH with 2-3/8" production tubing (with a muleshoe and X-nipple with blanking plug). Fill tubing with KCL water while RIH.

16. Land 2-3/8" production tubing at 5315'.
17. Pressure test tubing to 500 psi with rig pumps.
18. Swab down tubing with sandline.
19. RU SL unit. Run gauge ring for 2-3/8" tubing. Pull plug and set tubing stop for plunger.  
RD slickline unit.
20. ND BOP's. NU WH. Test well for air. Return well to production and downhole tri-mingle  
PC, Chacra, and Mesaverde.

# Schwerdtfeger A LS #9

Sec 31, T28N, R8W

API # 30-045-07037

GL: 6714'

## History:

Completed as MV/PC dual in 10/57

Added MF and co-mingled in 9/02

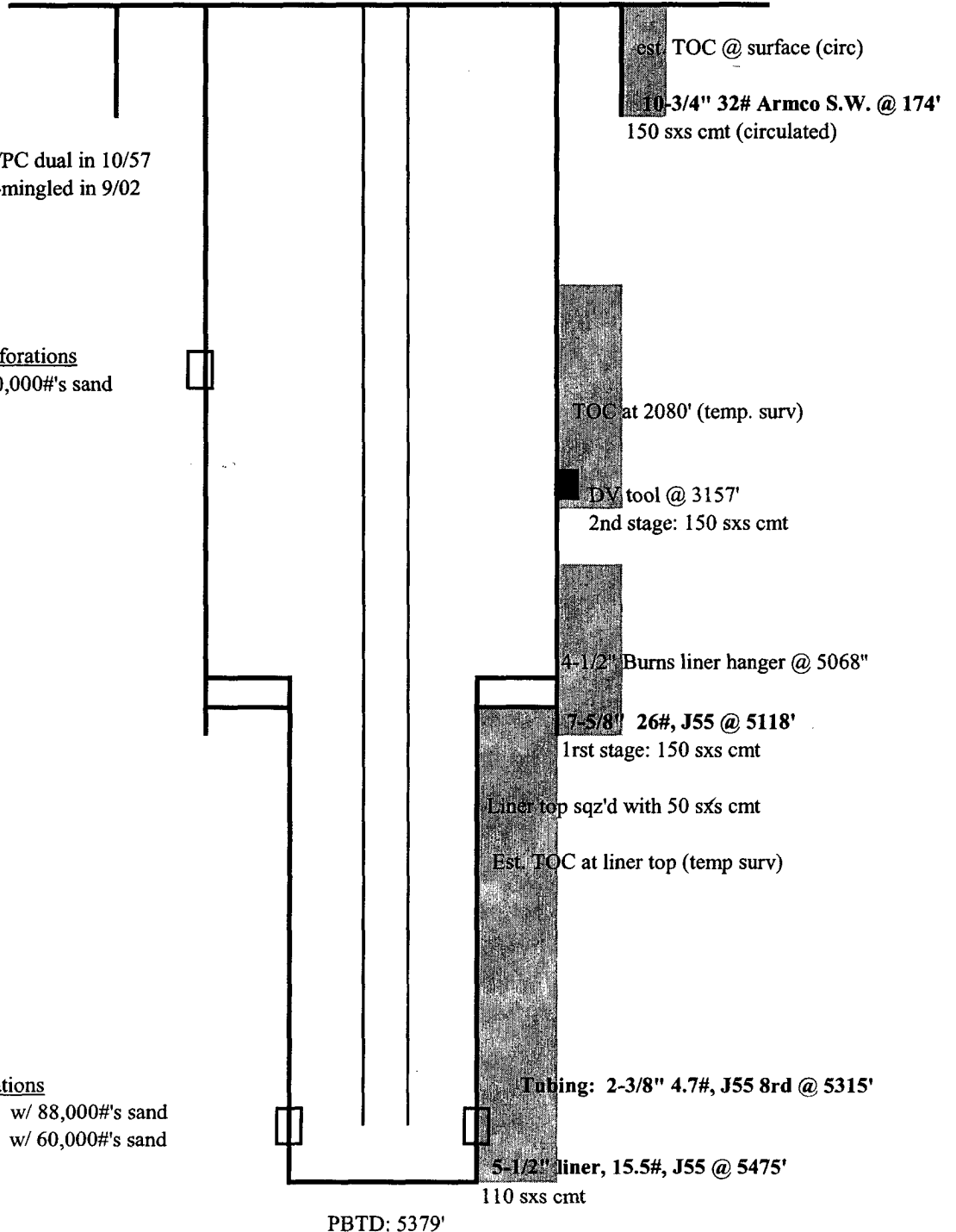
## Pictured Cliffs Perforations

2967' - 3010' w/ 40,000#'s sand

## Mesaverde Perforations

MF - 4875' - 5135' w/ 88,000#'s sand

PL - 5227' - 5373' w/ 60,000#'s sand



updated: 4/6/04 CFR

# Schwerdtfeger A LS 9

## Future Production Decline Estimate

### Mesaverde Daily Rates

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

$$Q_f = 124$$

$$Q_i = 126$$

$$\text{rate} = 124$$

$$\text{time} = 8$$

$$** dt = -0.016000341$$

$$\text{decline} = -0.248005291$$

Month	Gas Volume
Jan-2003	163
Feb-2003	131
Mar-2003	150
Apr-2003	138
May-2003	127
Jun-2003	126
Jul-2003	119
Aug-2003	125
Sep-2003	128
Oct-2003	126
Nov-2003	128
Dec-2003	127
Jan-2004	124**
Feb-2004	124
Mar-2004	124
Apr-2004	123
May-2004	123
Jun-2004	123
Jul-2004	123
Aug-2004	122
Sep-2004	122
Oct-2004	122
Nov-2004	122
Dec-2004	121
Jan-2005	121
Feb-2005	121
Mar-2005	121
Apr-2005	120
May-2005	120
Jun-2005	120
Jul-2005	120
Aug-2005	119
Sep-2005	119
Oct-2005	119
Nov-2005	119
Dec-2005	118

Month	Gas Volume
Jan-2006	118
Feb-2006	118
Mar-2006	118
Apr-2006	117
May-2006	117
Jun-2006	117
Jul-2006	117
Aug-2006	116
Sep-2006	116
Oct-2006	116
Nov-2006	116
Dec-2006	115
Jan-2007	115
Feb-2007	115
Mar-2007	115
Apr-2007	114
May-2007	114
Jun-2007	114
Jul-2007	114
Aug-2007	113
Sep-2007	113
Oct-2007	113
Nov-2007	113
Dec-2007	112
Jan-2008	112
Feb-2008	112
Mar-2008	112
Apr-2008	111
May-2008	111
Jun-2008	111
Jul-2008	111
Aug-2008	111
Sep-2008	110
Oct-2008	110
Nov-2008	110
Dec-2008	110
Jan-2009	109

Month	Gas Volume
Feb-2009	109
Mar-2009	109
Apr-2009	109
May-2009	108
Jun-2009	108
Jul-2009	108
Aug-2009	108
Sep-2009	107
Oct-2009	107
Nov-2009	107
Dec-2009	107
Jan-2010	106
Feb-2010	106
Mar-2010	106
Apr-2010	106
May-2010	105
Jun-2010	105
Jul-2010	105
Aug-2010	105
Sep-2010	104
Oct-2010	104
Nov-2010	104
Dec-2010	104
Jan-2011	103
Feb-2011	103
Mar-2011	103
Apr-2011	103
May-2011	102
Jun-2011	102
Jul-2011	102
Aug-2011	102
Sep-2011	101
Oct-2011	101
Nov-2011	101
Dec-2011	101
Jan-2012	100

# Schwerdtfeger A LS 9

4/15/2004

## Future Production Decline Estimate

### Mesaverde Daily Rates

Month	Gas Volume
Feb-2012	100
Mar-2012	100
Apr-2012	100
May-2012	100
Jun-2012	100
Jul-2012	100
Aug-2012	99
Sep-2012	99
Oct-2012	99
Nov-2012	99
Dec-2012	99
Jan-2013	99
Feb-2013	99
Mar-2013	98
Apr-2013	98
May-2013	98
Jun-2013	98
Jul-2013	98
Aug-2013	98
Sep-2013	98
Oct-2013	97
Nov-2013	97
Dec-2013	97
Jan-2014	97
Feb-2014	97
Mar-2014	97
Apr-2014	97
May-2014	96
Jun-2014	96
Jul-2014	96
Aug-2014	96
Sep-2014	96
Oct-2014	96
Nov-2014	96
Dec-2014	95
Jan-2015	95

Month	Gas Volume
Feb-2015	95
Mar-2015	95
Apr-2015	95
May-2015	95
Jun-2015	95
Jul-2015	94
Aug-2015	94
Sep-2015	94
Oct-2015	94
Nov-2015	94
Dec-2015	94
Jan-2016	94
Feb-2016	93
Mar-2016	93
Apr-2016	93
May-2016	93
Jun-2016	93
Jul-2016	93
Aug-2016	93
Sep-2016	92
Oct-2016	92
Nov-2016	92
Dec-2016	92
Jan-2017	92
Feb-2017	92
Mar-2017	92
Apr-2017	91
May-2017	91
Jun-2017	91
Jul-2017	91
Aug-2017	91
Sep-2017	91
Oct-2017	91
Nov-2017	91
Dec-2017	90
Jan-2018	90

# Future Production Decline Estimate Pictured Cliffs Daily Rates

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

$$Q_f = 124$$

$$Q_i = 125$$

$$\text{rate} = 124$$

$$\text{time} = 6$$

$$dt = -0.008032172$$

$$\text{decline} = -0.165998215$$

Month	Gas Volume
Jan-2003	163
Feb-2003	131
Mar-2003	150
Apr-2003	143
May-2003	127
Jun-2003	139
Jul-2003	119
Aug-2003	125
Sep-2003	133
Oct-2003	126
Nov-2003	128
Dec-2003	127
Jan-2004	124**
Feb-2004	124
Mar-2004	124
Apr-2004	123
May-2004	123
Jun-2004	123
Jul-2004	123
Aug-2004	122
Sep-2004	122
Oct-2004	122
Nov-2004	122
Dec-2004	121
Jan-2005	121
Feb-2005	121
Mar-2005	121
Apr-2005	120
May-2005	120
Jun-2005	120
Jul-2005	120
Aug-2005	119
Sep-2005	119
Oct-2005	119
Nov-2005	119
Dec-2005	118

Month	Gas Volume
Jan-2006	118
Feb-2006	118
Mar-2006	118
Apr-2006	117
May-2006	117
Jun-2006	117
Jul-2006	117
Aug-2006	116
Sep-2006	116
Oct-2006	116
Nov-2006	116
Dec-2006	115
Jan-2007	115
Feb-2007	115
Mar-2007	115
Apr-2007	114
May-2007	114
Jun-2007	114
Jul-2007	114
Aug-2007	113
Sep-2007	113
Oct-2007	113
Nov-2007	113
Dec-2007	113
Jan-2008	112
Feb-2008	112
Mar-2008	112
Apr-2008	112
May-2008	111
Jul-2008	111
Aug-2008	111
Sep-2008	111
Oct-2008	110
Nov-2008	110
Dec-2008	110
Jan-2009	110

Month	Gas Volume
Feb-2009	109
Mar-2009	109
Apr-2009	109
May-2009	109
Jun-2009	108
Jul-2009	108
Aug-2009	108
Sep-2009	108
Oct-2009	107
Nov-2009	107
Dec-2009	107
Jan-2010	107
Feb-2010	106
Mar-2010	106
Apr-2010	106
May-2010	106
Jun-2010	105
Jul-2010	105
Aug-2010	105
Sep-2010	105
Oct-2010	104
Nov-2010	104
Dec-2010	104
Jan-2011	104
Feb-2011	103
Mar-2011	103
Apr-2011	103
May-2011	103
Jun-2011	102
Jul-2011	102
Aug-2011	102
Sep-2011	102
Oct-2011	101
Nov-2011	101
Dec-2011	101
Jan-2012	101



# Schwerdtfeger A LS 9

4/15/2004

## Future Production Decline Estimate

### Pictured Cliffs Daily Rates

Month	Gas Volume
Feb-2012	100
Mar-2012	100
Apr-2012	100
May-2012	100
Jun-2012	100
Jul-2012	100
Aug-2012	99
Sep-2012	99
Oct-2012	99
Nov-2012	99
Dec-2012	99
Jan-2013	99
Feb-2013	98
Mar-2013	98
Apr-2013	98
May-2013	98
Jun-2013	98
Jul-2013	98
Aug-2013	97
Sep-2013	97
Oct-2013	97
Nov-2013	97
Dec-2013	97
Jan-2014	97
Feb-2014	96
Mar-2014	96
Apr-2014	96
May-2014	96
Jun-2014	96
Jul-2014	96
Aug-2014	95
Sep-2014	95
Oct-2014	95
Nov-2014	95
Dec-2014	95
Jan-2015	95

Month	Gas Volume
Feb-2015	94
Mar-2015	94
Apr-2015	94
May-2015	94
Jun-2015	94
Jul-2015	94
Aug-2015	93
Sep-2015	93
Oct-2015	93
Nov-2015	93
Dec-2015	93
Jan-2016	93
Feb-2016	92
Mar-2016	92
Apr-2016	92
May-2016	92
Jun-2016	92
Jul-2016	92
Aug-2016	91
Sep-2016	91
Oct-2016	91
Nov-2016	91
Dec-2016	91
Jan-2017	91
Feb-2017	90
Mar-2017	90
Apr-2017	90
May-2017	90
Jun-2017	90
Jul-2017	90
Aug-2017	89
Sep-2017	89
Oct-2017	89
Nov-2017	89
Dec-2017	89
Jan-2018	89

District I  
1625 N. French Drive, Hobbs, NM 88240

District II  
811 South First Street, Artesia, NM 88210

District III  
1000 Rio Brazos Road, Aztec, NM 87410

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, 2000

**OIL CONSERVATION DIVISION**

2040 South Pacheco  
Santa Fe, New Mexico 87505

APPLICATION TYPE

☒ Single Well

☐ Establish Pre-Approved Pools

EXISTING WELLBORE

☒ Yes ☐ No

**APPLICATION FOR DOWNHOLE COMMINGLING**

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

Operator **Schwerdtfeger A LS 9** Address **Unit A Section 31 T28N, R08W** **San Juan**  
Lease **Well No. Unit Letter-Section-Township-Range** County  
OGRID No. **000778** Property Code **001033** API No. **30-045-07037** Lease Type: ☒ Federal ☐ State ☐ Fee

DATA ELEMENT	UPPER ZONE	INTERMEDIATE ZONE	LOWER ZONE
Pool Name	<b>Blanco Pictured Cliffs S.</b>	<b>Otero Chacra</b>	<b>Blanco Mesaverde</b>
Pool Code	<b>72439</b>	<b>82329</b>	<b>72319</b>
Top & Bottom of Pay Section (Perforated or Open-Hole Interval)	<b>2967' - 3010'</b>	<b>3938' - 4085</b>	<b>4875' - 5068'</b>
Method of Production (Flowing or Artificial Lift)	<b>Artificial Lift</b>	<b>Artificial Lift</b>	<b>Artificial Lift</b>
Bottomhole Pressure	<b>280</b>	<b>430</b>	<b>490</b>
Oil Gravity or Gas BTU (Degree API or Gas BTU)	<b>1416</b>	<b>1210</b>	<b>1416</b>
Producing, Shut-In or New Zone	<b>Producing</b>	<b>New Zone</b>	<b>Producing</b>
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 ☒ 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 ☒ 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 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 \_\_\_\_\_ TITLE **Sr. Regulatory Analyst** DATE **04/15/2004**

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

**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**

<sup>1</sup> API Number <b>30-045-07342</b>	<sup>2</sup> Pool Code <b>82329</b>	<sup>3</sup> Pool Name <b>Otero Chacra</b>
<sup>4</sup> Property Code <b>001033</b>	<sup>5</sup> Property Name <b>Schwerdtfeger A LS</b>	<sup>6</sup> Well Number <b>9</b>
<sup>7</sup> OGRID No. <b>000778</b>	<sup>8</sup> Operator Name <b>BP America Production Company</b>	<sup>9</sup> Elevation <b>5800' GR</b>

<sup>10</sup> Surface Location

UL or lot no. <b>Unit A</b>	Section <b>31</b>	Township <b>28N</b>	Range <b>08W</b>	Lot Idn	Feet from <b>1190'</b>	North/South <b>North</b>	Feet from <b>654'</b>	East/West <b>East</b>	County <b>San Juan</b>
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<sup>11</sup> Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from	North/South	Feet	East/West	County
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<sup>12</sup> Dedicated Acres <b>160</b>	<sup>13</sup> Joint or Infill	<sup>14</sup> Consolidation Code	<sup>15</sup> Order No.
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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

	<sup>17</sup> <b>OPERATOR CERTIFICATION</b> I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.  <i>Mary Corley</i> Signature <b>Mary Corley</b> Printed Name <b>Sr. Regulatory Analyst</b> Title <b>04/15/2004</b> Date
	<sup>18</sup> <b>SURVEYOR CERTIFICATION</b> 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. <b>00/00/1957</b> Date of Survey Signature and Seal of Professional Surveyor:  <b>On File</b> Certificate Number