Form 3160-5
(August 1999)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

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.
NMSF077123

6. If Indian, Allottee or Tribe Name

7. If Unit or CA/Agreement, Name and/or No.
NMNM73469

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

8. Well Name and No.
WARREN LS 3

2. Name of Operator
BP AMERICA PRODUCTION CO
Contact: MARY CORLEY
E-Mail: CORLEYML@BP.COM

9. API Well No.
30-045-07435-00-C1

3a. Address
200 ENERGY CT
FARMINGTON, NM 87402

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

10. Field and Pool, or Exploratory
AZTEC PICTURED CLIFFS
BLANCO MESAVERDE

4. Location of Well *(Footage, Sec., T., R., M., or Survey Description)*
Sec 13 T28N R9W NWSW Tract H LUJAN 1550FSL 1090FWL
36.65907 N Lat, 107.74481 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	☐ 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	☒ Other Subsurface Commingling
	☐ Change Plans	☐ Plug and Abandon	☐ Temporarily Abandon	
	☐ Convert to Injection	☐ Plug Back	☐ Water Disposal	

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 and tricommingle production downhole with the existing Aztec 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.

JAN 2005
Oil Cons. Div.
Dist. 3

14. I hereby certify that the foregoing is true and correct.
Electronic Submission #51789 verified by the BLM Well Information System
For BP AMERICA PRODUCTION CO, sent to the Farmington
Appropriate AFMSS for processing by MATTHEW HALBERT on 12/17/2004 (05MXH0247SE)

CONDITIONS OF APPROVAL
Adhere to previously issued stipulations.

Name *(Printed/Typed)* MARY CORLEY
Title AUTHORIZED REPRESENTATIVE

Signature (Electronic Submission)
Date 12/10/2004

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved By Jim Lovato
Title Petr. Eng.
Date 1/4/05

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 within its jurisdiction.

**** BLM REVISED ** BLM REVISED ** BLM REVISED ** BLM REVISED ** BLM REVISED ****

Additional data for EC transaction #51789 that would not fit on the form

32. Additional remarks, continued

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

Warren LS 3
Recompletion to Chacra & Downhole Commingle Procedure
December 9, 2004

1. Check ID wellhead; if earth pit is required have One Call made 48 hours prior to digging.

2. RU slickline unit or wireline unit. Pressure test lubricator and equipment. RIH and set barriers for isolation in tubing string.

3. Check and record tubing, casing, and bradenhead pressures.

4. MIRU workover rig.

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

6. Check all casing strings to ensure no pressure exist on any annulus. 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.

7. TOH with 2-3/8" tubing currently set at 4600'.

8. TIH with bit and scraper for 5-1/2" casing to top of liner at 2299' and work down to PBTD.

9. RIH with 5-1/2" CIBP. Set CIBP (+/-3800'). Load well with 2% KCl to bottom of PC formation. POOH.

10. RU E-line equipment. Pressure test lubricator and equipment. RIH w/ CBL and log from +/- 3,800' to top of liner. Confirm that top of cement is at least 500' above top shot in Chacra formation. Contact engineer if top of cement is below this point to discuss block squeeze.

11. RIH with 3-1/8" casing guns w/lubricator. Perforate Chacra formation (correlate to GR log), 11 spots @ 4 spf = 44 holes (SPF could change): 3371', 3340, 3330, 3323, 3310, 3248, 3235, 3228, 3208, 3201, 3198'.

12. NU Frac Isolation equipment, Spearhead 500 gal 15% HCL, establish injection rate, and proceed with fracture stimulation according to Schlumberger schedule.

13. Flowback frac immediately.

14. ND Frac isolation equipment, release packer and TOH with frac string and packer. LD frac string.

15. Rig up air package/unit, pressure test all. TIH with tubing and bit for 5-1/2" casing. Cleanout fill to top of CIBP. **Perform well test on Chacra for regulatory and document well test in DIMS.** Then cleanout fill and drill bridge plug set at +/-3800'. Cleanout fill to PBTD 4700'.

16. RIH with 2-3/8" production tubing.

17. Land 2-3/8" production tubing at +/-4600'.

18. ND BOP's. NU Wellhead. Pressure test Wellhead.

19. RU WL unit. Run gauge ring. Pull plug and set tubing stop for plunger.

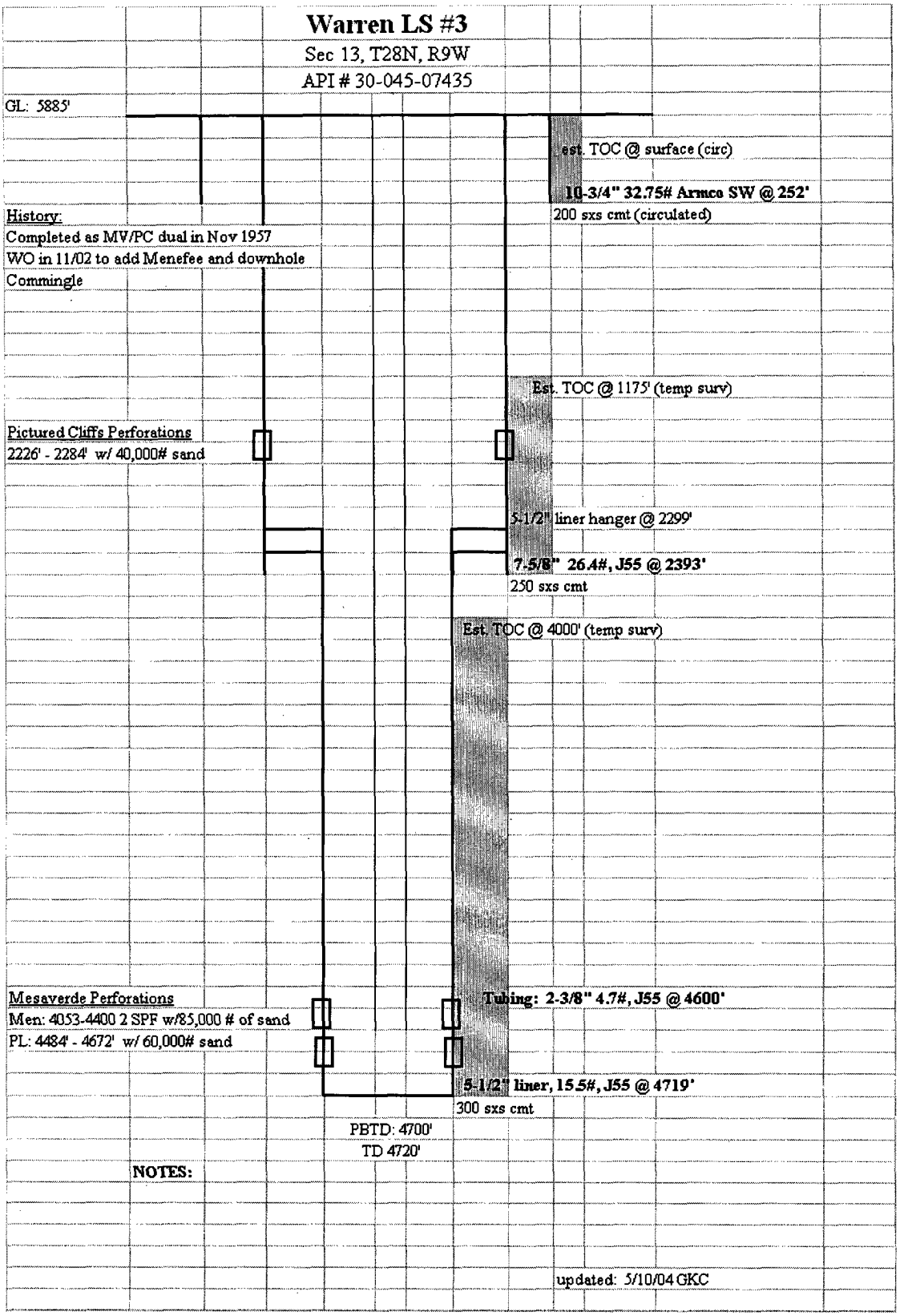
20. RD slickline unit.

21. Test well for air. Return well to production and downhole tri-mingle Pictured Cliffs, Chacra and Mesaverde. RD and release all equipment.

Warren LS #3

Sec 13, T28N, R9W

API # 30-045-07435



Warren LS 3

Future Production Decline Estimate

Mesaverde Daily Rates

Month	Gas Volume
Jan-2003	**0**
Feb-2003	**37**
Mar-2003	**39**
Apr-2003	**28**
May-2003	**13**
Jun-2003	**0**
Jul-2003	**0**
Aug-2003	**0**
Sep-2003	**0**
Oct-2003	**0**
Nov-2003	**0**
Dec-2003	**0**
Jan-2004	**0**
Feb-2004	**0**
Mar-2004	**19**
Apr-2004	**16**
May-2004	**19**
Jun-2004	**16**
Jul-2004	**38**
Aug-2004	**36**
Sep-2004	35
Oct-2004	35
Nov-2004	34
Dec-2004	33
Jan-2005	33
Feb-2005	32
Mar-2005	31
Apr-2005	31
May-2005	30
Jun-2005	29
Jul-2005	28
Aug-2005	28
Sep-2005	27
Oct-2005	26
Nov-2005	26
Dec-2005	25

ln(Qf/Qi) = -dt

Qf= 16

Qi= 19

rate= 16

time= 4

dt= -0.171850257

decline= -0.687401028

Month	Gas Volume
Jan-2006	24
Feb-2006	24
Mar-2006	23
Apr-2006	23
May-2006	22
Jun-2006	22
Jul-2006	21
Aug-2006	21
Sep-2006	20
Oct-2006	20
Nov-2006	19
Dec-2006	19
Jan-2007	18
Feb-2007	18
Mar-2007	17
Apr-2007	17
May-2007	16
Jun-2007	16
Jul-2007	15
Aug-2007	15
Sep-2007	14
Oct-2007	14
Nov-2007	13
Dec-2007	13
Jan-2008	12
Feb-2008	12
Mar-2008	11
Apr-2008	11
May-2008	10
Jul-2008	10
Aug-2008	9
Sep-2008	9
Oct-2008	8
Nov-2008	8
Dec-2008	7
Jan-2009	7

Month	Gas Volume
Feb-2009	6
Mar-2009	6
Apr-2009	5
May-2009	5
Jun-2009	4
Jul-2009	4
Aug-2009	3
Sep-2009	3
Oct-2009	2
Nov-2009	2
Dec-2009	1
Jan-2010	1
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

Warren LS 3

Future Production Decline Estimate

Pictured Cliffs Daily Rates

Month	Gas Volume
Jan-2003	**59**
Feb-2003	**109**
Mar-2003	**124**
Apr-2003	**137**
May-2003	**138**
Jun-2003	**137**
Jul-2003	**131**
Aug-2003	**121**
Sep-2003	**135**
Oct-2003	**126**
Nov-2003	**117**
Dec-2003	**122**
Jan-2004	**125**
Feb-2004	**119**
Mar-2004	**127**
Apr-2004	**126**
May-2004	**119**
Jun-2004	**73**
Jul-2004	**109**
Aug-2004	**91**
Sep-2004	90
Oct-2004	90
Nov-2004	89
Dec-2004	89
Jan-2005	88
Feb-2005	88
Mar-2005	87
Apr-2005	87
May-2005	86
Jun-2005	86
Jul-2005	85
Aug-2005	85
Sep-2005	84
Oct-2005	84
Nov-2005	83
Dec-2005	83

ln(Qf/Qi) = -dt

Qf=	119
Qi=	122
rate=	119
time=	6
dt=	-0.024897552
decline=	-0.49380144

Month	Gas Volume
Jan-2006	82
Feb-2006	82
Mar-2006	81
Apr-2006	81
May-2006	80
Jun-2006	80
Jul-2006	79
Aug-2006	79
Sep-2006	78
Oct-2006	78
Nov-2006	78
Dec-2006	77
Jan-2007	77
Feb-2007	76
Mar-2007	76
Apr-2007	75
May-2007	75
Jun-2007	74
Jul-2007	74
Aug-2007	73
Sep-2007	73
Oct-2007	72
Nov-2007	72
Dec-2007	71
Jan-2008	71
Feb-2008	70
Mar-2008	70
Apr-2008	69
May-2008	69
Jul-2008	68
Aug-2008	68
Sep-2008	67
Oct-2008	67
Nov-2008	66
Dec-2008	66
Jan-2009	65

Month	Gas Volume
Feb-2009	65
Mar-2009	64
Apr-2009	64
May-2009	63
Jun-2009	63
Jul-2009	62
Aug-2009	62
Sep-2009	61
Oct-2009	61
Nov-2009	60
Dec-2009	60
Jan-2010	59
Feb-2010	59
Mar-2010	58
Apr-2010	58
May-2010	57
Jun-2010	57
Jul-2010	56
Aug-2010	56
Sep-2010	55
Oct-2010	55
Nov-2010	54
Dec-2010	54
Jan-2011	53
Feb-2011	53
Mar-2011	52
Apr-2011	52
May-2011	51
Jun-2011	51
Jul-2011	50
Aug-2011	50
Sep-2011	49
Oct-2011	49
Nov-2011	48
Dec-2011	48
Jan-2012	47

Warren LS 3

Future Production Decline Estimate

Pictured Cliffs Daily Rates

Month	Gas Volume
Feb-2012	47
Mar-2012	46
Apr-2012	46
May-2012	45
Jun-2012	45
Jul-2012	44
Aug-2012	44
Sep-2012	43
Oct-2012	43
Nov-2012	42
Dec-2012	42
Jan-2013	41
Feb-2013	41
Mar-2013	40
Apr-2013	40
May-2013	39
Jun-2013	39
Jul-2013	38
Aug-2013	38
Sep-2013	38
Oct-2013	37
Nov-2013	37
Dec-2013	36
Jan-2014	36
Feb-2014	35
Mar-2014	35
Apr-2014	34
May-2014	34
Jun-2014	33
Jul-2014	33
Aug-2014	32
Sep-2014	32
Oct-2014	31
Nov-2014	31
Dec-2014	30
Jan-2015	30

Month	Gas Volume
Feb-2015	29
Mar-2015	29
Apr-2015	28
May-2015	28
Jun-2015	27
Jul-2015	27
Aug-2015	26
Sep-2015	26
Oct-2015	25
Nov-2015	25
Dec-2015	24
Jan-2016	24
Feb-2016	23
Mar-2016	23
Apr-2016	22
May-2016	22
Jun-2016	21
Jul-2016	21
Aug-2016	20
Sep-2016	20
Oct-2016	19
Nov-2016	19
Dec-2016	18
Jan-2017	18
Feb-2017	17
Mar-2017	17
Apr-2017	16
May-2017	16
Jun-2017	15
Jul-2017	15
Aug-2017	14
Sep-2017	14
Oct-2017	13
Nov-2017	13
Dec-2017	12
Jan-2018	12

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
30-045-07094	82329	Otero Chacra

[4] Property Code	[5] Property Name	[6] Well Number
001212	Warren LS	3

[7] OGRID No.	[8] Operator Name	[9] Elevation
000778	BP America Production Company	5948' GR

[10] Surface Location

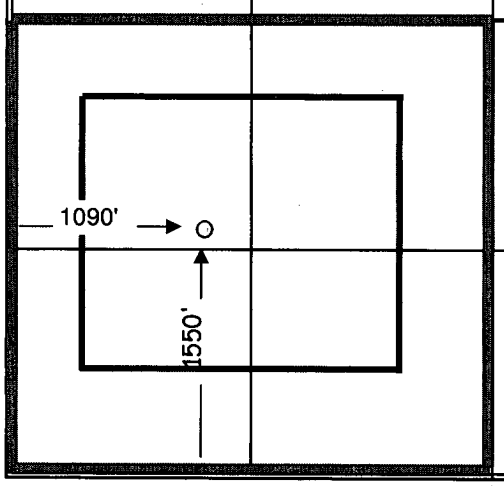
UL or lot no.	Section	Township	Range	Lot Idn	Feet from	North/South	Feet from	East/West	County
Unit L	13	28N	09W		1550	South	1090	West	San Juan

[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.

Mary Corley

Signature

Mary Corley

Printed Name

Sr. Regulatory Analyst

Title

12/10/2004

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.

on file

Date of Survey

Signature and Seal of Professional Surveyor:

Certificate Number

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

Form C-107A
Revised May 15,

OIL CONSERVATION DIVISION

2040 South Pacheco
Santa Fe, New Mexico 87505

APPLICATION TYPE
X Single Well
___ Establish Pre-Approved

EXISTING WELLBORE
X Yes ___ No

APPLICATION FOR DOWNHOLE COMMINGLING

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

Warren LS 3 Lease | Well No. | **Unit L Section 13 T28N, R09W** Unit Letter-Section-Township-Range | **San Juan** County

OGRID No. **000778** Property Code **001212** API No. **30-045-07435** Lease Type: **X** Federal ___ State ___ Fee

DATA ELEMENT	UPPER ZONE	INTERMEDIATE ZONE	LOWER ZONE
Pool Name	**Aztec Pictured Cliffs .**	**Otero Chacra**	**Blanco Mesaverde**
Pool Code	**71280**	**82329**	**72319**
Top & Bottom of Pay Section (Perforated or Open-Hole Interval)	**2226' – 2284'**	**3198' - 3371**	**4484' – 4672'**
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)	**1164**	**1210**	**1226**
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? 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.