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.

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

8. Well Name and No.
WARREN LS 5A

2. Name of Operator
BP AMERICA PRODUCTION CO
Contact: MARY CORLEY
E-Mail: corleyml@bp.com

9. API Well No.
30-045-25227-00-S1

3a. Address
P. O. BOX 3092
HOUSTON, TX 77253

3b. Phone No. (include area code)
Ph: 281.366.4491
Fx: 281.366.0700

10. Field and Pool, or Exploratory
BLANCO MESAVERDE
OTERO CHACRA

4. Location of Well *(Footage, Sec., T., R., M., or Survey Description)*
Sec 24 T28N R9W NWSE Tract A GONZALES 1770FSL 1840FEL
36.64511 N Lat, 107.73663 W Lon

11. County or Parish, and State
SAN JUAN COUNTY, NM

MAR 2004

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 Commi ng
	☐ 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.)

DHC 1431 AZ

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

The Blanco Mesaverde (72319) & Otero Chacra (82329) Pools are Pre-Approved Pools for Downhole Commingling per NMOCD order R-11363. The working and overriding royalty interest owners in the proposed commingled pools are identical, therefore no further notification of this application is required.

CONDITIONS OF APPROVAL
Adhere to previously issued stipulations.

Production is proposed to be allocated based on the subtraction method using the projected future decline for production from the 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

If cement isolation work is necessary, contact this office.

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

Electronic Submission #28059 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 03/01/2004 (04MXH1347SE)

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

Signature (Electronic Submission) — Date 02/18/2004

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved By _____ Title Petr. Eng. Date 3/2/04

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 #28059 that would not fit on the form

32. Additional remarks, continued

be attributed to the Chacra. Attached is the future production decline estimates for the Mesaverde.

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

Warren LS 5 A
Well Work Procedure

Complete Menefee, recomplete to Chacra, downhole co-mingle Chacra, and Mesaverde

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 4791'.

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

7. TIH with bit and scraper for 4-1/2" casing to PBTD at 4846'. Work casing scraper across Mesaverde perforations and Menefee interval from 3928'–4816' and across proposed Chacra perforations from 3117-3341'.

8. RU WL unit. RIH with 4-1/2" CIBP. Set CIBP at 4330'

9. Load hole w/ 2% KCl and pressure test casing to 2,500 psi w/ rig pumps

10. RU WL unit. RIH w/ CBL and log from 4,330' to top of liner. Confirm that top of cement is no deeper than ~~3,100~~ 2617'. Contact engineer if top of cement is below 3,100' to discuss block squeeze.

11. RIH with 3-1/8" casing guns with Schlumberger's Prospector, select-fire charge. Perforate Menefee formation (correlate to GR log).

    Menefee perforations, 3 **spf** (20 shots/ 60 holes):
    3928, 3937, 4025, 4039, 4043, 4049, 4062, 4073, 4111, 4115, 4119, 4127, 4152, 4156, 4159, 4185, 4202, 4215, 4217, 4303'.

12. Spearhead 500 gal 15% HCL, establish injection rate, and proceed with fracture stimulation according to Schlumberger schedule. Maintain surface pressures ≤ 3000 psi during frac job. Flush frac with foam. Fill out GWSI scorecard.

13. Flowback frac immediately.

14. RU WL unit. RIH with 4-1/2" CIBP. Set CIBP at 3900'.

15. RIH with 3-1/8" casing guns. Perforate Chacra formation (correlate to GR log).

    Chacra perforations, 4 **spf** (15 shots/ 60 holes):
    3117, 3119, 3123, 3125, 3127, 3129, 3131, 3133, 3205, 3207, 3236, 3264, 3266, 3339, 3341'.

16. Spearhead 500 gal 15% HCL, establish injection rate, and proceed with fracture stimulation according to Schlumberger schedule. Maintain surface pressures ≤ 3000 psi during frac job. Flush frac with foam. Fill out GWSI scorecard.

17. Flowback frac immediately.

18. TIH with tubing and bit. Cleanout fill and drill bridge plugs set at 3900' and 4330'. Cleanout fill to PBTD at 4846'. Blow well dry at PBTD.

19. 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.

20. Land 2-3/8" production tubing at 4790'.

21. Pressure test tubing to 500 psi with rig pumps.

22. Swab down tubing with sandline.

23. RU SL unit. Run gauge ring for 2-3/8" tubing. Pull plug and set tubing stop for plunger. RD slickline unit.

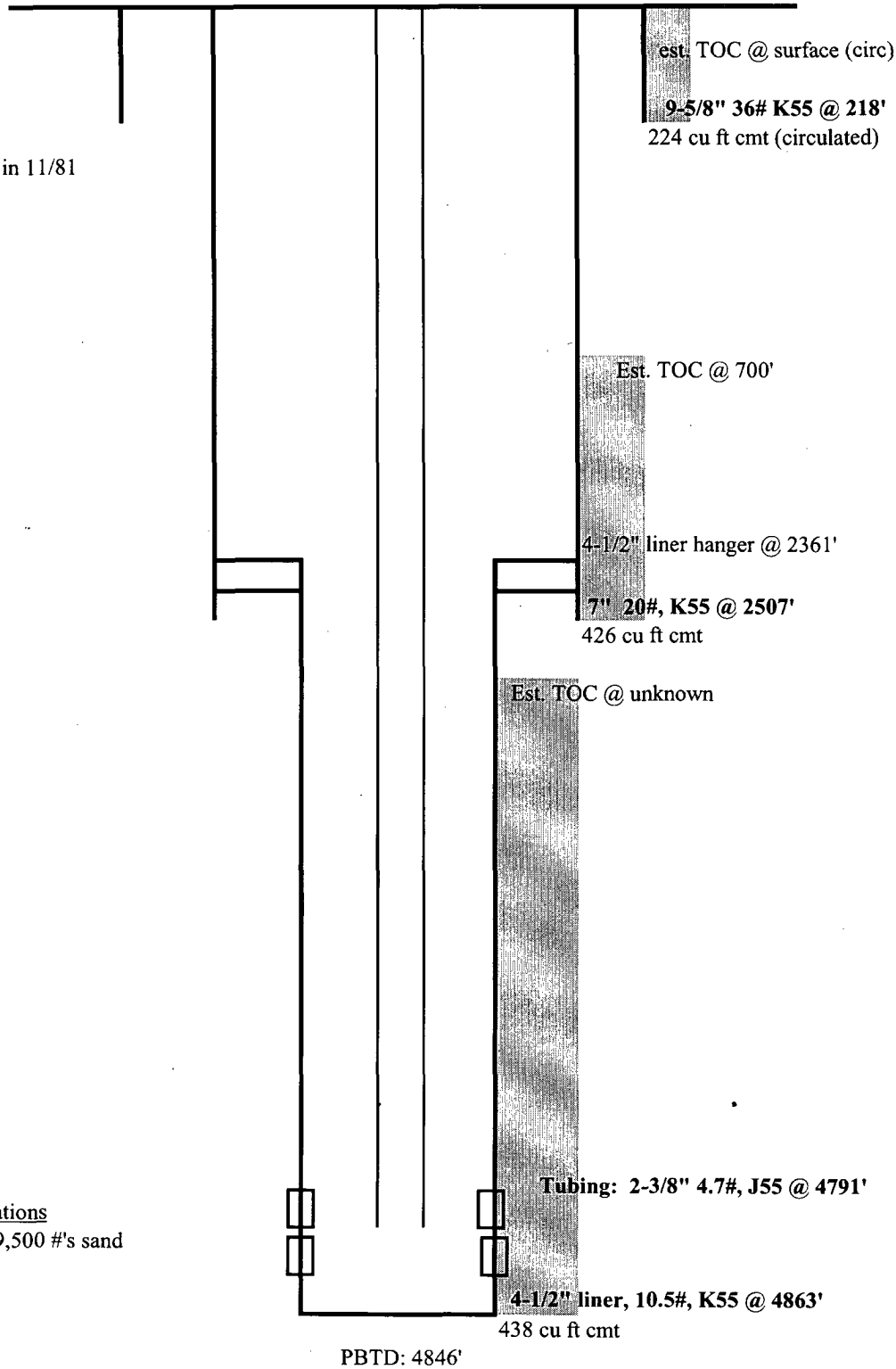
24. ND BOP's. NU WH. Test well for air. Return well to production and downhole co-mingle Chacra, and Mesaverde.

Warren LS 5A

Sec 24, T28N, R9W

API # 30-045-25227

GL: 5850'



History:
Completed as MV in 11/81

Mesaverde Perforations
4336' - 4816' w/ 69,500 #'s sand

PBTD: 4846'
TD: 4863'

updated: 1/21/04 CFR

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
30-045-25227	82329	Otero Chacra

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

[7] OGRID No.	[8] Operator Name	[9] Elevation
000778	BP America Production Company	5850' GR

[10] Surface Location

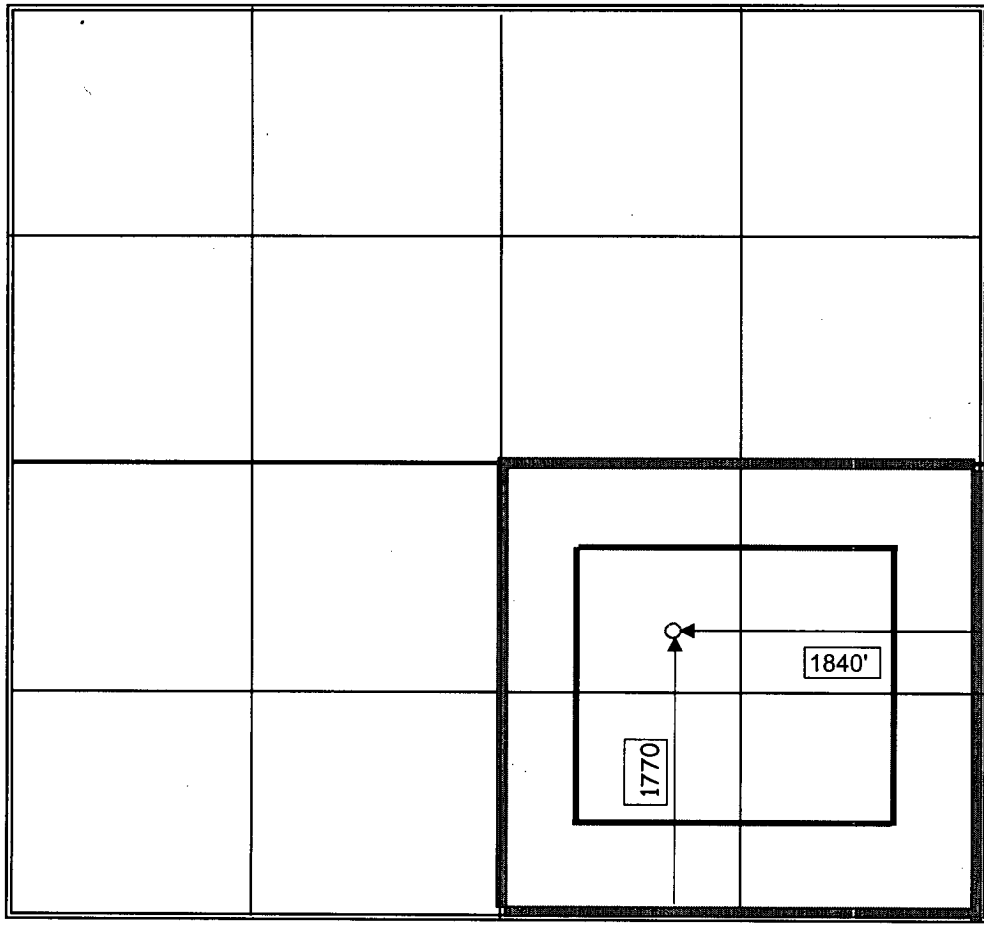
UL or lot no.	Section	Township	Range	Lot Idn	Feet from	North/South	Feet from	East/West	County
Unit J	24	28N	09W		1770'	South	1840'	East	San Juan

[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

2/18/2004

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

Warren LS 5A

Future Production Decline Estimate

Mesaverde Daily Rates

2/18/2004

Month	Gas Volume		
Jan-2002	**39**	ln(Qf/Qi) = -dt	
Feb-2002	**41**	Qf=	38
Mar-2002	**43**	Qi=	42
Apr-2002	**26**	rate=	38
May-2002	**71**	time=	12
Jun-2002	**46**	dt=	-0.100083459
Jul-2002	**52**	decline=	-0.316930952
Aug-2002	**45**		
Sep-2002	**48**		
Oct-2002	**46**		
Nov-2002	**50**		
Dec-2002	**42**	**Start**	
Jan-2003	**0**		
Feb-2003	**65**		
Mar-2003	**64**		
Apr-2003	**48**		
May-2003	**52**		
Jun-2003	**42**		
Jul-2003	**44**		
Aug-2003	**43**		
Sep-2003	**42**		
Oct-2003	**42**		
Nov-2003	**38**	**End**	
Dec-2003	38		
Jan-2004	37		
Feb-2004	37		
Mar-2004	37		
Apr-2004	36		
May-2004	36		
Jun-2004	36		
Jul-2004	35		
Aug-2004	35		
Sep-2004	35		
Oct-2004	35		
Nov-2004	34		
Dec-2004	34		

Month	Gas Volume
Jan-2005	34
Feb-2005	33
Mar-2005	33
Apr-2005	33
May-2005	32
Jun-2005	32
Jul-2005	32
Aug-2005	31
Sep-2005	31
Oct-2005	31
Nov-2005	30
Dec-2005	30
Jan-2006	30
Feb-2006	29
Mar-2006	29
Apr-2006	29
May-2006	28
Jun-2006	28
Jul-2006	28
Aug-2006	28
Sep-2006	27
Oct-2006	27
Nov-2006	27
Dec-2006	26
Jan-2007	26
Feb-2007	26
Mar-2007	25
May-2007	25
Jun-2007	25
Jul-2007	24
Aug-2007	24
Sep-2007	24
Oct-2007	23
Nov-2007	23
Dec-2007	23
Jan-2008	22

Month	Gas Volume
Feb-2008	22
Mar-2008	22
Apr-2008	22
May-2008	21
Jun-2008	21
Jul-2008	21
Aug-2008	20
Sep-2008	20
Oct-2008	20
Nov-2008	19
Dec-2008	19
Jan-2009	19
Feb-2009	18
Mar-2009	18
Apr-2009	18
May-2009	17
Jun-2009	17
Jul-2009	17
Aug-2009	16
Sep-2009	16
Oct-2009	16
Nov-2009	15
Dec-2009	15
Jan-2010	15
Feb-2010	15
Mar-2010	14
Apr-2010	14
May-2010	14
Jun-2010	13
Jul-2010	13
Aug-2010	13
Sep-2010	12
Oct-2010	12
Nov-2010	12
Dec-2010	11
Jan-2011	11

Month	Gas Volume
Feb-2011	11
Mar-2011	10
Apr-2011	10
May-2011	10
Jun-2011	9
Jul-2011	9
Aug-2011	9
Sep-2011	9
Oct-2011	8
Nov-2011	8
Dec-2011	8
Jan-2012	7
Feb-2012	7
Mar-2012	7
Apr-2012	6
May-2012	6
Jun-2012	6
Jul-2012	5
Aug-2012	5
Sep-2012	5
Oct-2012	4
Nov-2012	4
Dec-2012	4
Jan-2013	3
Feb-2013	3
Mar-2013	3
Apr-2013	3
May-2013	2
Jun-2013	2
Jul-2013	2
Aug-2013	1
Sep-2013	1
Oct-2013	1
Nov-2013	0
Dec-2013	0
Jan-2014	0

Warren LS 5A

Future Production Decline Estimate

Mesaverde Daily Rates