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.
NMSF080112

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.
RIDDLE F LS 5A

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

9. API Well No.
30-045-26580-00-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 32 T28N R8W SESE 0690FSL 1000FEL
36.61298 N Lat, 107.69803 W Lon

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

MAY 2003

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 Commingl 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.)

BP America Production Company request permission to recomplete the subject well into the Otero Charca Pool and commingle production downhole with the existing Blanco Mesaverde Pool 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.

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

DHC 1206 AZ

CONDITIONS OF APPROVAL
Adhere to previously issued stipulations.

14. I hereby certify that the foregoing is true and correct.
Electronic Submission #21217 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 05/09/2003 (03MXH0793SE)

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

Signature (Electronic Submission) — Date 04/30/2003

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved By **/s/ Jim Lovato** — Title — Date MAY - 9 2003

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 ****

NMOCD

Additional data for EC transaction #21217 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.

Riddle F LS #5A Chacra Recompletion and Downhole Commingle Procedure

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.
5. Tag for fill and tally OH with 2-3/8" production tubing currently set at 5025'.
6. TIH with bit and scraper for 4-1/2" casing to 5030'. Work casing scraper across Mesaverde perforations (4570' – 5029') and new Chacra interval (3540' – 3680').
7. RU WL unit. RIH with 4-1/2" CIBP. Set CIBP at 3725'.
8. RIH with 3-1/8" casing guns. Perforate Chacra formation (correlate to GR log).

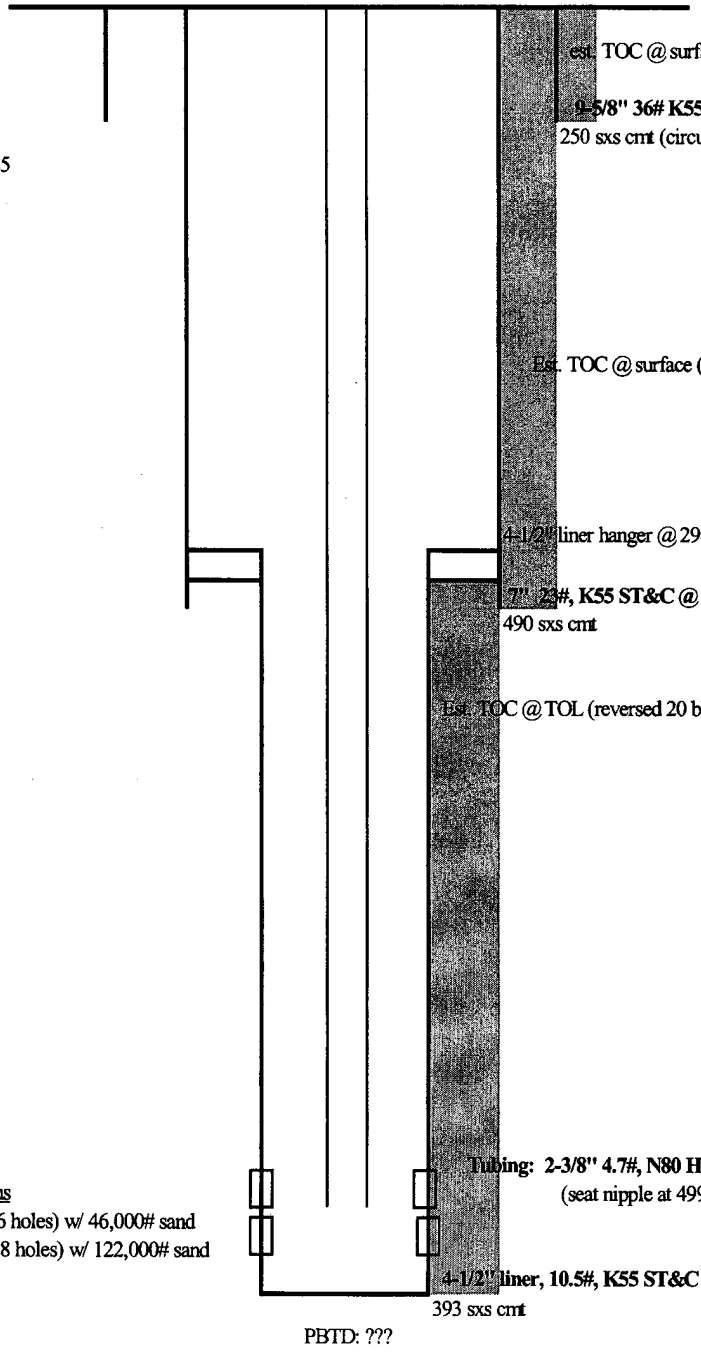
   Chacra perforations, **2 spf** (22 shots/ 42 holes):
   3540' – 3545'
   3560' – 3565'
   3656' – 3662'
   3672' – 3678'
9. Spearhead 500 gal 15% HCL, establish injection rate, and proceed with fracture stimulation according to Schlumberger schedule.
10. Flowback frac immediately.
11. TIH with tubing and bit. Cleanout fill and drill bridge plug set at 3725'. Cleanout fill to PBTD. Blow well dry at PBTD.
12. RIH with 2-3/8" production tubing.
13. Land 2-3/8" production tubing at 5000'.
14. ND BOP's. NU WH. Test well for air. Return well to production and downhole commingle Chacra and Mesaverde production.

Riddle F LS #5A

Sec 32, T28N, R8W

API # 30-045-26580

GL: 6335'



History:
Completed in Dec 1985

Mesaverde Perforations
MF: 4570' - 4712' (36 holes) w/ 46,000# sand
PL: 4828' - 5029' (128 holes) w/ 122,000# sand

NOTES:

updated: 4/15/2003 jad

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
30-045-26580	82329	Otero Chacra

[4] Property Code	[5] Property Name	[6] Well Number
000978	Riddle F LS	5A

[7] OGRID No.	[8] Operator Name	[9] Elevation
000778	BP America Production Company	6335' GR

[10] Surface Location

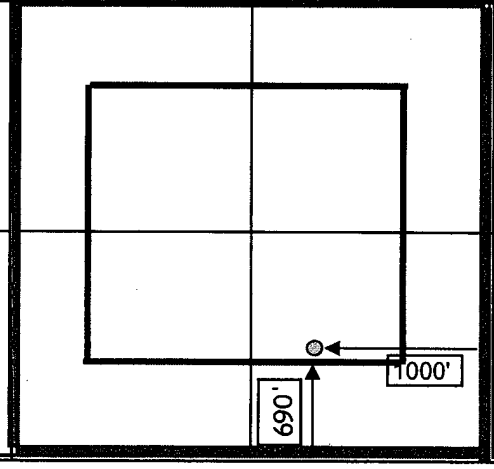
UL or lot no.	Section	Township	Range	Lot Idn	Feet from	North/South	Feet from	East/West	County
Unit P	32	28N	08W		690'	South	1000'	East	San Juan

[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

04/30/2003

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:

Fred B Kerr 3950

Certificate Number

Riddle F LS 5A

Future Production Decline Estimate Mesaverde

(Monthly Factor .0306)

Month	Gas Volume
Jan-2002	**127**
Feb-2002	**170**
Mar-2002	**153**
Apr-2002	**127**
May-2002	**169**
Jun-2002	**144**
Jul-2002	**153**
Aug-2002	**226**
Sep-2002	**381**
Oct-2002	**149**
Nov-2002	**146**
Dec-2002	**146**
Jan-2003	146
Feb-2003	146
Mar-2003	146
Apr-2003	146
May-2003	146
Jun-2003	146
Jul-2003	146
Aug-2003	146
Sep-2003	146
Oct-2003	146
Nov-2003	146
Dec-2003	145
Jan-2004	145
Feb-2004	145
Mar-2004	145
Apr-2004	145
May-2004	145
Jun-2004	145
Jul-2004	145
Aug-2004	145
Sep-2004	145
Oct-2004	145
Nov-2004	145
Dec-2004	145

ln(Qf/Qi) = -dt
Qi = 169 MCFD (05/2002)
Qf = 149 MCFD (10/2002)
t = 5 months (.041666 yrs)
d = 0.32 annual decline
0.027 monthly decline (0.32/12)

Corrected Volumes
149/169 = .88166
.88166 * .41666 = .36735
0.0306125

Month	Gas Volume
Jan-2005	144
Feb-2005	144
Mar-2005	144
Apr-2005	144
May-2005	144
Jun-2005	144
Jul-2005	144
Aug-2005	144
Sep-2005	144
Oct-2005	144
Nov-2005	144
Dec-2005	144
Jan-2006	144
Feb-2006	144
Mar-2006	144
Apr-2006	144
May-2006	144
Jun-2006	144
Jul-2006	144
Aug-2006	144
Sep-2006	144
Oct-2006	144
Nov-2006	144
Dec-2006	143
Jan-2007	143
Feb-2007	143
Mar-2007	143
May-2007	143
Jun-2007	143
Jul-2007	143
Aug-2007	143
Sep-2007	143
Oct-2007	143
Nov-2007	143
Dec-2007	143
Jan-2008	143

Month	Gas Volume
Feb-2008	142
Mar-2008	142
Apr-2008	141
May-2008	141
Jun-2008	140
Jul-2008	140
Aug-2008	140
Sep-2008	139
Oct-2008	139
Nov-2008	138
Dec-2008	138
Jan-2009	137
Feb-2009	137
Mar-2009	136
Apr-2009	136
May-2009	135
Jun-2009	135
Jul-2009	134
Aug-2009	134
Sep-2009	133
Oct-2009	133
Nov-2009	132
Dec-2009	132
Jan-2010	132
Feb-2010	131
Mar-2010	131
Apr-2010	130
May-2010	130
Jun-2010	129
Jul-2010	129
Aug-2010	128
Sep-2010	128
Oct-2010	128
Nov-2010	127
Dec-2010	127
Jan-2011	126

Riddle F LS 5A

4/30/2003

Future Production Decline Estimate Mesaverde

(Monthly Factor .0306)

Month	Gas Volume
Feb-2011	126
Mar-2011	125
Apr-2011	125
May-2011	124
Jun-2011	124
Jul-2011	124
Aug-2011	123
Sep-2011	123
Oct-2011	122
Nov-2011	122
Dec-2011	121
Jan-2012	121
Feb-2012	121
Mar-2012	120
Apr-2012	120
May-2012	119
Jun-2012	119
Jul-2012	119
Aug-2012	118
Sep-2012	118
Oct-2012	117
Nov-2012	117
Dec-2012	117
Jan-2013	116
Feb-2013	116
Mar-2013	115
Apr-2013	115
May-2013	115
Jun-2013	114
Jul-2013	114
Aug-2013	113
Sep-2013	113
Oct-2013	113
Nov-2013	112
Dec-2013	112
Jan-2014	111

Month	Gas Volume
Feb-2014	111
Mar-2014	111
Apr-2014	110
May-2014	110
Jun-2014	110
Jul-2014	109
Aug-2014	109
Sep-2014	109
Oct-2014	108
Nov-2014	108
Dec-2014	108
Jan-2015	107
Feb-2015	107
Mar-2015	107
Apr-2015	107
May-2015	106
Jun-2015	106
Jul-2015	106
Aug-2015	105
Sep-2015	105
Oct-2015	105
Nov-2015	104
Dec-2015	104
Jan-2016	104
Feb-2016	103
Mar-2016	103
Apr-2016	103
May-2016	102
Jun-2016	102
Jul-2016	102
Aug-2016	102
Sep-2016	101
Oct-2016	101
Nov-2016	101
Dec-2016	100
Jan-2017	100

Month	Gas Volume
Feb-2017	100
Mar-2017	99
Apr-2017	99
May-2017	99
Jun-2017	99
Jul-2017	98
Aug-2017	98
Sep-2017	98
Oct-2017	97
Nov-2017	97
Dec-2017	97
Jan-2018	96
Feb-2018	96
Mar-2018	96
Apr-2018	96
May-2018	95
Jun-2018	95
Jul-2018	95
Aug-2018	94
Sep-2018	94
Oct-2018	94
Nov-2018	94
Dec-2018	93
Jan-2019	93
Feb-2019	93
Mar-2019	92
Apr-2019	92
May-2019	92
Jun-2019	92
Jul-2019	91
Aug-2019	91
Sep-2019	91
Oct-2019	91
Nov-2019	90
Dec-2019	90
Jan-2020	90

Month	Gas Volume
Feb-2020	89
Mar-2020	89
Apr-2020	88
May-2020	88
Jun-2020	88
Jul-2020	87
Aug-2020	87
Sep-2020	86
Oct-2020	86
Nov-2020	85
Dec-2020	85
Jan-2021	85
Feb-2021	84
Mar-2021	84
Apr-2021	83
May-2021	83
Jun-2021	82
Jul-2021	82
Aug-2021	82
Sep-2021	81
Oct-2021	81
Nov-2021	80
Dec-2021	80
Jan-2022	80
Feb-2022	79
Mar-2022	79
Apr-2022	78
May-2022	78
Jun-2022	78
Jul-2022	77
Aug-2022	77
Sep-2022	76
Oct-2022	76
Nov-2022	76
Dec-2022	75
Jan-2023	75

Riddle F LS 5A

Future Production Decline Estimate Mesaverde

(Monthly Factor .0306)

Month	Gas Volume
Feb-2023	75
Mar-2023	74
Apr-2023	74
May-2023	73
Jun-2023	73
Jul-2023	73
Aug-2023	72
Sep-2023	72
Oct-2023	72
Nov-2023	71
Dec-2023	71
Jan-2024	71
Feb-2024	70
Mar-2024	70
Apr-2024	70
May-2024	69
Jun-2024	69
Jul-2024	68
Aug-2024	68
Sep-2024	68
Oct-2024	67
Nov-2024	67
Dec-2024	67
Jan-2025	66
Feb-2025	66
Mar-2025	66
Apr-2025	65
May-2025	65
Jun-2025	65
Jul-2025	64
Aug-2025	64
Sep-2025	64
Oct-2025	64
Nov-2025	63
Dec-2025	63
Jan-2026	63

Month	Gas Volume
Feb-2026	62
Mar-2026	62
Apr-2026	62
May-2026	61
Jun-2026	61
Jul-2026	61
Aug-2026	60
Sep-2026	60
Oct-2026	60
Nov-2026	60
Dec-2026	59
Jan-2027	59
Feb-2027	59
Mar-2027	58
Apr-2027	58
May-2027	58
Jun-2027	57
Jul-2027	57
Aug-2027	57
Sep-2027	57
Oct-2027	56
Nov-2027	56
Dec-2027	56
Jan-2028	55
Feb-2028	55
Mar-2028	55
Apr-2028	55
May-2028	54
Jun-2028	54
Jul-2028	54
Aug-2028	54
Sep-2028	53
Oct-2028	53
Nov-2028	53
Dec-2028	52
Jan-2029	52

Month	Gas Volume
Feb-2029	52
Mar-2029	52
Apr-2029	51
May-2029	51
Jun-2029	51
Jul-2029	51
Aug-2029	50
Sep-2029	50
Oct-2029	50
Nov-2029	50
Dec-2029	49
Jan-2030	49
Feb-2030	49
Mar-2030	49
Apr-2030	48
May-2030	48
Jun-2030	48
Jul-2030	48
Aug-2030	47
Sep-2030	47
Oct-2030	47
Nov-2030	47
Dec-2030	47
Jan-2031	46
Feb-2031	46
Mar-2031	46
Apr-2031	46
May-2031	45
Jun-2031	45
Jul-2031	45
Aug-2031	45
Sep-2031	44
Oct-2031	44
Nov-2031	44
Dec-2031	44
Jan-2032	44

Month	Gas Volume
Feb-2032	43
Mar-2032	43
Apr-2032	43
May-2032	43
Jun-2032	42
Jul-2032	42
Aug-2032	42
Sep-2032	42
Oct-2032	42
Nov-2032	41
Dec-2032	41
Jan-2033	41
Feb-2033	41
Mar-2033	40
Apr-2033	40
May-2033	40
Jun-2033	40
Jul-2033	40
Aug-2033	39
Sep-2033	39
Oct-2033	39
Nov-2033	39
Dec-2033	39
Jan-2034	39
Feb-2034	38
Feb-2034	38
Mar-2034	38
Apr-2034	38
May-2034	38
Jul-2034	37
Aug-2034	37
Sep-2034	37
Oct-2034	37
Nov-2034	37
Dec-2034	36
Jan-2035	36