

State of New Mexico
Energy, Minerals and Natural Resources Department

Susana Martinez
Governor

David Martin
Cabinet Secretary

Brett F. Woods, Ph.D.
Deputy Cabinet Secretary

David R. Catanach, Division Director
Oil Conservation Division



New Mexico Oil Conservation Division approval and conditions listed below are made in accordance with OCD Rule 19.15.7.11 and are in addition to the actions approved by BLM on the following 3160-4 or 3160-5 form.

Operator Signature Date: 12/8/15

Well information:

frmWellFilterSub													
API WELL #	Well Name	Well #	Operator Name	Type	Stat	County	Surf_Owner	UL	Sec	Twp	N/S	Rng	W/E
30-045-31722-00-00	RUSSELL	004M	BP AMERICA PRODUCTION COMPANY	G	A	San Juan	F	E	25	28	N	8	W

Application Type:

- P&A
 Drilling/Casing Change
 Location Change
 Recomplete/DHC (For hydraulic fracturing operations review EPA Underground injection control Guidance #84)
 Other: Adding perforations

Conditions of Approval:

- ❖ If perforations are added outside of the existing perforated intervals a new C-104, completion sundry and completion report will be required, *before returning well to production.*

NMOCD Approved by Signature

1/7/2015
Date

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
OMB NO. 1004-0135
Expires: July 31, 2010

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.
NMNM013860A

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.

8. Well Name and No.
RUSSELL 4M

9. API Well No.
30-045-31722-00-C1

10. Field and Pool, or Exploratory
BASIN DAKOTA
BLANCO MESAVERDE

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

1. Type of Well
 Oil Well Gas Well Other

2. Name of Operator
BP AMERICA PRODUCTION CO. Contact: TOYA COLVIN
E-Mail: Toya.Colvin@bp.com

3a. Address
200 ENERGY CT.
FARMINGTON, NM 87401

3b. Phone No. (include area code)
Ph: 281-366-7148

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)
Sec 25 T28N R8W SWNW 2255FNL 755FWL
36.633460 N Lat, 107.638787 W Lon

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

TYPE OF SUBMISSION	TYPE OF ACTION			
<input checked="" type="checkbox"/> Notice of Intent	<input type="checkbox"/> Acidize	<input type="checkbox"/> Deepen	<input type="checkbox"/> Production (Start/Resume)	<input type="checkbox"/> Water Shut-Off
<input type="checkbox"/> Subsequent Report	<input type="checkbox"/> Alter Casing	<input type="checkbox"/> Fracture Treat	<input type="checkbox"/> Reclamation	<input type="checkbox"/> Well Integrity
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input type="checkbox"/> Recomplete	<input checked="" type="checkbox"/> Other Workover Operations
	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug and Abandon	<input type="checkbox"/> Temporarily Abandon	
	<input type="checkbox"/> Convert to Injection	<input type="checkbox"/> Plug Back	<input type="checkbox"/> 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 requests to re-perforate the Blanco-Mesaverde formation of the subject well.

Please see the attached procedure including wellbore diagrams and C-102.

DHC 1450

In accordance with NMOCD Pit Rule 19.15.17.9 NMAC, BP will use a closed-loop system during operations.

OIL CONS. DIV DIST. 3
DEC 14 2015

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

**Electronic Submission #325742 verified by the BLM Well Information System
For BP AMERICA PRODUCTION CO., sent to the Farmington
Committed to AFMSS for processing by WILLIAM TAMBEKOU on 12/08/2015 (16WMT0071SE)**

Name (Printed/Typed) TOYA COLVIN	Title REGULATORY ANALYST
Signature (Electronic Submission)	Date 12/08/2015

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved By <u>WILLIAM TAMBEKOU</u>	Title <u>PETROLEUM ENGINEER</u>	Date <u>12/08/2015</u>
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 <u>Farmington</u>

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 RY✓

RUSSEL 004M-MV/DK

API # 30-045-31722-00

Location: Unit E - Sec 25 - T28N - R08W

San Juan County, New Mexico

Reason/Background for Job

The proposed work is to re-perforate into the Cliffhouse interval of the Mesaverde, and downhole commingle with the existing Mesaverde and Dakota formations.

Basic job procedure

1. Pull tubing
2. Set 4-1/2" composite plug @ +/- 4420' KB
3. Perforate Cliffhouse formation (+/- 4200'-4410'KB gross interval)
4. Fracture stimulate Cliffhouse formation
5. Drill out/Clean out to PBTB
6. Run production tubing and downhole commingle Mesaverde & Dakota
7. Land tubing @ +/- 6940' KB
8. Return well to production

Current WBD

RUSSELL 004M-M/VDK

Reservoir / Permanent Equipment / Temporary

TOC: 10' from Surface (topped off w/ 7 sxs via 1" pipe, circ. 3bbl/s)

Surface Casing Data

12-1/4" Hole
9-5/8", 32.3#, H-40 ST&C @ 219'
21.6 bbl/s type 1-2 readymix cmt w/ 20% fly ash

TOC: Surface (circ. 22 bbl/s cmt)

Intermediate Casing Data

8-3/4" Hole
7", 20#, J-55 ST&C @ 2894'
265 sxs cls G, tail w/ 65 sxs cls G 50/50 poz cmt

TOC: 2900' (CBL 5/25/05)

Mesaverde Completion

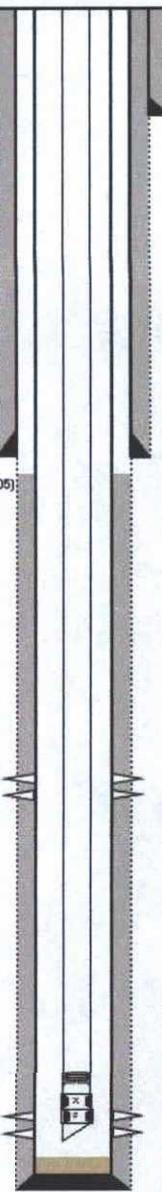
4459'-4829' gross (3spz, 120 deg, 60 holes)
frac w/ 103,052# 20/40 Brady snd/propnet & 70Q N2 foam
4906'-5281' gross (2-3spz, 120 deg, 58 holes)
frac w/ 112,750# 20/40 Brady snd/propnet & 70Q N2 foam

Dakota Completion

6940'-7121' gross (4spz, 120 deg, 60 holes)
frac w/ 122,187# 20/40 C-Lite snd/propnet & 65Q N2 foam

Production Casing Data

6-1/4" Hole
4-1/2", 11.6#, P-110 LT&C @ 7162'
(marker jts @ 4027'-4034' & 6790'-6795')
163 sxs Litecrete, tail w/ 188 sxs cls G 50/50 poz cmt



PBTD 7,160'
TD 7,162'

Tubing Details

2-3/8", 4.7#, J-55 @ 7073'

Nipple Data

Stop in X-nipple @ 7065' KB 1W27/13
X-nipple @ 7065'
F-nipple @ 7070'

End of Tubing

7073'
Hard fill @ 7127'

Current Wellbore



WELL	RUSSELL 4M	V.05
COUNTY	SAN JUAN	
STATE	NEW MEXICO	Lat: 36.63333N
FIELD	LARGO	Long: 107.638333W
API No.	900453722	

FKB ELEVATION	6,166.0
GL ELEVATION	6,152.0
FKB-GL	14.0
Location	SEC. 25 T 28 N R 8 W
Location	2255 FNL 755 FVL SEC 25 T28N R8W

DIRECTIONAL DATA

MAX ANGLE	THRU	N/A
KOP	TYPE	Vertical

PRODUCTION DETAIL

	TUBING	CASING
SIZE (OD)	Mixed	4 1/2
WEIGHT	4.70	Mixed
GRADE	J-55	0
I.D.	0.000	4.000
DRIFT	1.901	0
COLLAPSE	0	0
BURST	0	0
YIELD	0	0
THREAD	EUE 8RD	8R LT+C
DEPTH	7,073	7,162.00
CAPACITY	0.00000	0.0165
# JOINTS	224	161

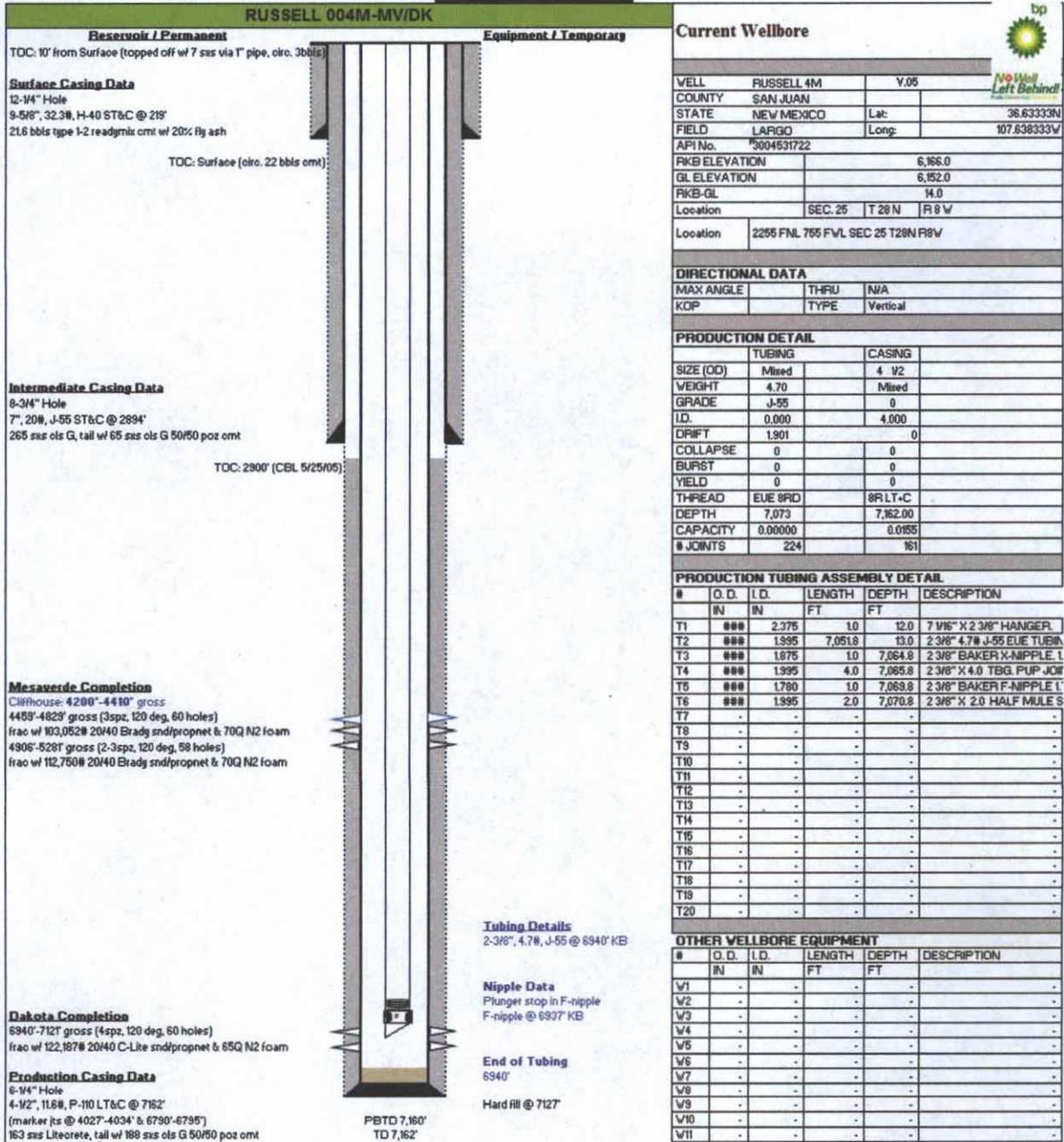
PRODUCTION TUBING ASSEMBLY DETAIL

#	O. D.	I. D.	LENGTH	DEPTH	DESCRIPTION
	IN	IN	FT	FT	
T1	###	2.375	1.0	12.0	7 1/16" X 2 3/8" HANGER.
T2	###	1.995	7,051.8	13.0	2 3/8" 4.7# J-55 EUE TUBIN
T3	###	1.875	1.0	7,064.8	2 3/8" BAKER X-NIPPLE 1
T4	###	1.995	4.0	7,065.8	2 3/8" X 4.0 TBG PUP JOI
T5	###	1.780	1.0	7,068.8	2 3/8" BAKER F-NIPPLE 1'
T6	###	1.995	2.0	7,070.8	2 3/8" X 2.0 HALF MULE S
T7	-	-	-	-	-
T8	-	-	-	-	-
T9	-	-	-	-	-
T10	-	-	-	-	-
T11	-	-	-	-	-
T12	-	-	-	-	-
T13	-	-	-	-	-
T14	-	-	-	-	-
T15	-	-	-	-	-
T16	-	-	-	-	-
T17	-	-	-	-	-
T18	-	-	-	-	-
T19	-	-	-	-	-
T20	-	-	-	-	-

OTHER WELLBORE EQUIPMENT

#	O. D.	I. D.	LENGTH	DEPTH	DESCRIPTION
	IN	IN	FT	FT	
W1	-	-	-	-	-
W2	-	-	-	-	-
W3	-	-	-	-	-
W4	-	-	-	-	-
W5	-	-	-	-	-
W6	-	-	-	-	-
W7	-	-	-	-	-
W8	-	-	-	-	-
W9	-	-	-	-	-
W10	-	-	-	-	-
W11	-	-	-	-	-

Proposed WBD



RUSSELL 004M-MV/DK

Reservoir / Permanent

TDC: 10' from Surface (topped off w/ 7 sss via 1" pipe, circ. 3bbils)

Surface Casing Data

12-1/4" Hole
9-5/8", 32.3#, H-40 ST&C @ 219'
21.6 bbils type 1-2 readymix cmt w/ 20% fly ash

TDC: Surface (circ. 22 bbils cmt)

Intermediate Casing Data

8-3/4" Hole
7", 20#, J-55 ST&C @ 2894'
265 sss o/s G, tail w/ 65 sss o/s G 50/50 poz cmt

TDC: 2800' (CBL 5/25/05)

Mesaverde Completion

Cliffhouse: 4200'-4410' gross
4459'-4823' gross (3spz, 120 deg, 60 holes)
frac w/ 103,052# 20/40 Brady sand/proppant & 70Q N2 foam
4906'-5281' gross (2-3spz, 120 deg, 58 holes)
frac w/ 112,750# 20/40 Brady sand/proppant & 70Q N2 foam

Dakota Completion

6940'-7121' gross (4spz, 120 deg, 60 holes)
frac w/ 122,187# 20/40 C-Lite sand/proppant & 65Q N2 foam

Production Casing Data

6-1/4" Hole
4-1/2", 11.6#, P-110 LT&C @ 7162'
(marker jts @ 4027'-4034' & 6790'-6795')
163 sss Litecrete, tail w/ 188 sss o/s G 50/50 poz cmt

Equipment / Temporary

Tubing Details

2-3/8", 4.7#, J-55 @ 6940' KB

Nipple Data

Plunger stop in F-nipple
F-nipple @ 6937' KB

End of Tubing

6940'

Hard fill @ 7127'

PBTD 7,160'
TO 7,162'

Current Wellbore



WELL	RUSSELL 4M	V.05
COUNTY	SAN JUAN	
STATE	NEW MEXICO	Lat: 36.63333N
FIELD	LARGO	Long: 107.638333W
API No.	9004631722	

RKB ELEVATION	6,165.0		
GL ELEVATION	6,152.0		
RKB-GL	14.0		
Location	SEC. 25	T 28 N	R 8 W
Location	2255 FNL 755 FWL SEC 25 T28N R8W		

DIRECTIONAL DATA

MAX ANGLE	THRU	N/A
KOP	TYPE	Vertical

PRODUCTION DETAIL

	TUBING	CASING
SIZE (OD)	Mixed	4 1/2
WEIGHT	4.70	Mixed
GRADE	J-55	0
I.D.	0.000	4.000
DRIFT	1.901	0
COLLAPSE	0	0
BURST	0	0
YIELD	0	0
THREAD	EUE 8RD	8RLT-C
DEPTH	7,073	7,162.00
CAPACITY	0.00000	0.0155
# JOINTS	224	161

PRODUCTION TUBING ASSEMBLY DETAIL

#	O. D.	I. D.	LENGTH	DEPTH	DESCRIPTION
	IN	IN	FT	FT	
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T4	###	1.995	4.0	7,068.8	2 3/8" X 4.0 TBG PUP JOINT
T5	###	1.780	1.0	7,069.8	2 3/8" BAKER F-NIPPLE 1'
T6	###	1.995	2.0	7,070.8	2 3/8" X 2.0 HALF MULES
T7	-	-	-	-	-
T8	-	-	-	-	-
T9	-	-	-	-	-
T10	-	-	-	-	-
T11	-	-	-	-	-
T12	-	-	-	-	-
T13	-	-	-	-	-
T14	-	-	-	-	-
T15	-	-	-	-	-
T16	-	-	-	-	-
T17	-	-	-	-	-
T18	-	-	-	-	-
T19	-	-	-	-	-
T20	-	-	-	-	-

OTHER WELLBORE EQUIPMENT

#	O. D.	I. D.	LENGTH	DEPTH	DESCRIPTION
	IN	IN	FT	FT	
W1	-	-	-	-	-
W2	-	-	-	-	-
W3	-	-	-	-	-
W4	-	-	-	-	-
W5	-	-	-	-	-
W6	-	-	-	-	-
W7	-	-	-	-	-
W8	-	-	-	-	-
W9	-	-	-	-	-
W10	-	-	-	-	-
W11	-	-	-	-	-

District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Avenue, Artesia, NM 88210
District III
1000 Rio Brazos Rd., Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy, Minerals & Natural Resources Department
OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-102
Revised July 16, 2010
Submit one copy to appropriate
District Office

AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-045-31722		² Pool Code 72319		³ Pool Name Blanco-Mesaverde	
⁴ Property Code 000997		⁵ Property Name Russell			⁶ Well Number 4M
⁷ OGRID No. 000778		⁸ Operator Name BP America Production Company			⁹ Elevation 6152

¹⁰ Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
E	25	28N	08W		2255	North	755	West	San Juan

¹¹ Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County

¹² Dedicated Acres 320	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No. DHC 1450
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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.

<div style="border: 2px solid red; padding: 5px;"> <p>16</p> </div>	<p>¹⁷ OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.</p> <p><i>Toya Colvin</i> Signature _____ Date _____</p> <p>Toya Colvin Printed Name _____</p> <p>Toya.Colvin@bp.com E-mail Address _____</p>	
	<p>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.</p> <p>Date of Survey _____ Signature and Seal of Professional Surveyor: _____</p> <p style="text-align: center;">Previously Filed</p>	
	<p>Certificate Number _____</p>	