

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.

2006 JAN 17 PM 12:25

SUBMIT IN TRIPLICATE - Other instructions on reverse side

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

2. Name of Operator  
BP America Production Company Attn: Mary Corley

3a. Address  
P.O. Box 3092 Houston, TX 77253

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

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

1590' FSL & 1090' FEL Sec 33 T28N R08W

5. Lease Serial No.

NM - 012202

6. If Indian, Allottee or tribe Name

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

8. Well Name and No.

Bolack E 1M

API Well No.

30-045-29251

9. Field and Pool, or Exploratory Area

Basin DK/ Blanco MV & Otero Chacra

10. County or Parish, State

San Juan County, New Mexico

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 type="checkbox"/> Abandon
	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug and Abandon	<input type="checkbox"/> Water Disposal	
	<input type="checkbox"/> Injection	<input type="checkbox"/> Plug Back	<input checked="" type="checkbox"/> Other	

Recompletion & Downhole Commingle

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 recompleat 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 Pool and commingle production Downhole with the existing Basin Dakota & Blanco Mesaverde production as per the attached procedure.

Production is proposed to be allocated based on a fixed percentage based on well test. It is our intent flow test the Mesaverde, then complete into the Chacra, stabilize production and perform flow rate test, drill out the CIBP isolating the Dakota, commingle production and perform a flow rate test for the combined zones. The production rate for the Dakota will be determined using the flow rate test for the combined pools and minus the Mesaverde & Chacra flow test rates. The resulting volumes will be used to determine a fixed percentage rate to be allocated to each pool.

Form C-107A is being submitted (copy attached) to NMOCD for their approval per C-107A attached.

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

DHC 3612

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

Name (Printed/typed) Mary Corley

Title Senior Regulatory Analyst

Signature

Mary Corley

Date

1/12/2006

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by Matt Halbert

Title PETE ENG

Date 1/19/06

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

BLM- FFO

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.

CONDITIONS OF APPROVAL

Adhere to previously issued stipulations.

District I 4  
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>30-045-29251</b>	<sup>2</sup> Pool Code <b>82329</b>	<sup>3</sup> Pool Name <b>Otero Chacra</b>
<sup>4</sup> Property Code <b>000329</b>	<sup>5</sup> Property Name <b>Bolack E</b>	<sup>6</sup> Well Number <b>1M</b>
<sup>7</sup> OGRID No. <b>000778</b>	<sup>8</sup> Operator Name <b>BP America Production Company</b>	<sup>9</sup> Elevation

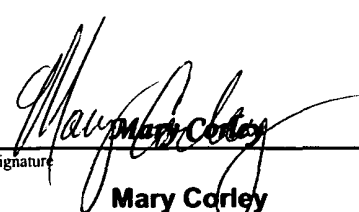
<sup>10</sup> Surface Location

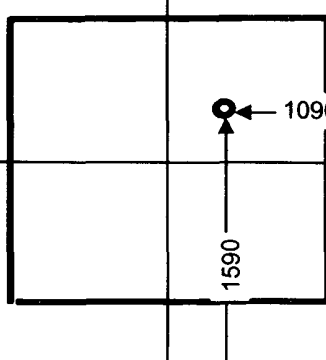
UL or lot no. <b>I</b>	Section <b>33</b>	Township <b>28N</b>	Range <b>08W</b>	Lot Idn	Feet from <b>1590</b>	North/South <b>South</b>	Feet from <b>1090</b>	East/West <b>East</b>	County <b>San Juan</b>
---------------------------	----------------------	------------------------	---------------------	---------	--------------------------	-----------------------------	--------------------------	--------------------------	---------------------------

<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
<sup>12</sup> Dedicated Acres <b>160</b>	<sup>13</sup> Joint or Infill	<sup>14</sup> Consolidation Code	<sup>15</sup> Order No.						

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> OPERATOR CERTIFICATION <i>I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.</i>  Signature <b>Mary Corley</b> Printed Name <b>Sr. Regulatory Analyst</b> Title <b>1/12/2006</b> Date
				<sup>18</sup> SURVEYOR CERTIFICATION <i>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.</i> <b>3/9/1995</b> Date of Survey Signature and Seal of Professional Surveyor: <b>Gary Vann 7016</b> Certificate Number



**Bolack E 1M**  
**Recomplete to Otero Chacra & DHC Chacra, Mesaverde, & Dakota**  
**December 20, 2005**

---

**Procedure:**

1. Perform pre-rig site inspection. Check for: size of location, Gas Taps, other wells, other operators, running equipment, wetlands, wash (dikes req.), H2S, barriers needed for equipment, Landowner issues, location of pits (buried lines in pits), Raptor nesting, critical location, check anchors. Check ID wellhead, if earth pit is required have One Call made 48 hours prior to digging.
2. Perform second site visit after lines are marked to ensure all lines clear marked pit locations. Planning and Scheduling to ready location for rig.
3. RU slickline unit or wireline unit. Pressure test lubricator and equipment. RIH and set two barriers (CIBP, tbg collar stop w/plug, or plug set in nipple) for isolation in tubing string.
4. Check and record tubing, casing, and bradenhead pressures. Ensure production casing has double casing valves installed. Double valve all casing strings.
5. MIRU workover rig. LO/TO all necessary equipment including but not limited to: meter run, Automation, Separators and water lines.
6. Blow down well. Kill with 2% KCL water ONLY if necessary.
7. Check all casing strings to ensure no pressure exist on any annulus. **The operations of removal of wellhead and installation of BOP's will be performed under a dispensation for one (1) barrier on the backside.**
8. 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. Monitor flowing casing pressure with gauge (with casing flowing to blow tank) throughout workover.
9. Install stripping rubber, pull tubing hanger up above pipe rams, and shut pipe rams. Remove stripping rubber. Strip tubing hanger out of hole. Re-install stripping rubber.
10. TOH and LD 1.9" production tubing currently set at 4440'. Using approved "Under Balance Well Control Tripping Procedure".
11. TIH w/ scraper for 3-1/2". Check the distance between the top of the blind rams and the length of the bottom hole assembly that is being run. If the BHA is too long then the well has to be top killed and monitored prior to opening blind rams. RIH to PBTB at +/-4,440'. POOH.
12. Set bridge plug at 4,000'. Fill casing w/ 2%KCl and test to 2,500 psi w/ rig pumps.
13. Prepare for explosive operations. Follow Schlumberger Explosive SOP including radio silence, suspension of welding operations, and isolation of electrical devices from the work area. Perform Pre-job Safety Meeting to review JSA and procedures. Meeting should

address the VDR (vehicle data recorder) System that Bp people have installed on their vehicles. They must be shut off at the 300 foot sign by hitting 00 and then the enter button, and then wait for about 5 minutes for the unit to turn off. When the green light goes out, call the control center at 326-9475. This number is on a pickup list in the Optimizer room and should be your first point of contact followed by the front desk then the weekend pager. Verify the unit is not transmitting. You then can drive to location and park, but do not to exceed 10 Miles/hr. Note: 20 MPH will turn unit back on. If someone has On Star on their vehicle they cannot enter closer than 300 foot. On Star cannot be turned off. PLEASE take special caution. This is in conjunction with all cell phones, pagers, radios and any electronic devise that transmits a signal.

14. RIH with 2-1/2" casing guns w/lubricator. Perforate Chacra formation:
15. NU Frac isolation equipment. Install and monitor production casing and treating pressure during entire job in frac van via pressure transducers on production casing and treating line. Spearhead 500 gal 15% HCL, establish injection rate, and proceed with fracture stimulation according to Schlumberger schedule. Maintain surface pressures less than 3,000 psi during frac job. Flush frac with foam. Fill out GWSI scorecard.
16. Flowback frac immediately. Flow well through choke manifold on 1/4", 1/2" and 3/4" chokes increasing drawdown until well dies or stabilizes. This is to aid in reducing sand flowback. Recommend 8 hours of flow for each choke size.
17. Rig up air package/unit, pressure test all lines (Testing procedure to be supplied from air company), TIH with tubing and bit for 3-1/2" casing. Cleanout fill to CIBP set at 4,000'. **Perform well test on Chacra for regulatory and document well test in DIMS. Notify Mary Corley (281-366-4491) when well test information is in DIMS.**
18. Cleanout fill and CIBP set at 4,000'. Drill out CIBP set at 5000'. Cleanout to PBTD at +/- 6,662'. Blow well dry.
19. Rabbit tubing and RIH with 1.9" production tubing
20. Land 1.9" production tubing at +/-6550'. Lock down hanger.
21. Pressure test tubing to 500 psi with air unit, make sure tubing spool valves are open. Care should be taken during pressure testing of the tubing due to potential problem caused if tubing parts close to surface or above the hanger. Check all casing string for pressure. **The operations of removal of wellhead and installation of BOP's will be performed under a dispensation for one (1) barrier on the backside.**
22. ND BOP's. NU Wellhead. Pressure test Wellhead.
23. Test well for air. Return well to production and downhole co-mingle Chacra and Mesaverde.

API # 30-045-29251

### History:

**Completed well in Dec 1995**

- Originally completed as MV

single well(tubingless) with DK T&A'd

Feb 1996: DHC'd DK &amp; MV thru 1.9" tbg

Oct 1996: T&A'd DK and raised tbg

est. TOC @ surface (circ)

9-5/8" 36# J55 @ 89'  
60 sxs cmt (circulated)

**Est. TOC @ surf (circ)**

7" 23#, K55 @ 2401'  
340 sxs cmt

Est. TOC behind 3-1/2" csg @ 1412' (CBL, '95)

### Mesaverde Perforations

3802' - 4152' (18 holes) w/ 165,000# sand

4248' - 4550' (15 holes)

- interval reperforated after

fracturing: 3802' - 4552' (314 holes)

**Tubing: 1.9" 2.9# @ 4440'**

## CIBP set @ 5000'

## Dakota Perforations

6494' - 6612' (9 holes) w/ 183,000# sand

3-1/2" csg 9.3# N80 @ 6662'  
610 sxs cmt

PBTD: 6628

**NOTES:**

- 1) Well was converted back to a MV single well in Oct 1996 due to sand bridging between the 3-1/2" csg and the 1.9" tbg

updated: 2/5/03 jad

District I  
1425 N. French Drive, Hobbs, NM 88240

State of New Mexico  
Energy, Minerals and Natural Resources Department

Form C-107A  
Revised May 15,

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

OIL CONSERVATION DIVISION

2040 South Pacheco  
Santa Fe, New Mexico 87505

APPLICATION TYPE

☒ Single Well

☐ Establish Pre-Approved

EXISTING WELLBORE

☒ Yes ☐ No

APPLICATION FOR DOWNHOLE COMMINGLING

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

Operator

Address

**Bolack E 1M**

**Unit I Section 33 T28N, R08W**

**San Juan**

Lease

Well No.

Unit Letter-Section-Township-Range

County

OGRID No. **000778** Property Code **000329** API No. **30-045-29251** Lease Type: ☒ Federal ☐ State ☐ Fee

DATA ELEMENT	UPPER ZONE	INTERMEDIATE ZONE	LOWER ZONE
Pool Name	<b>Otero Chacra</b>	<b>Blanco Mesaverde</b>	<b>Basin Dakota</b>
Pool Code	<b>82329</b>	<b>72319</b>	<b>71599</b>
Top & Bottom of Pay Section (Perforated or Open-Hole Interval)	<b>To Be Determined</b>	<b>3802' - 4550'</b>	<b>6494' - 6612'</b>
Method of Production (Flowing or Artificial Lift)	<b>Artificial Lift</b>	<b>Artificial Lift</b>	<b>Artificial Lift</b>
Bottomhole Pressure		<b>430</b>	<b>590</b>
Oil Gravity or Gas BTU (Degree API or Gas BTU)		<b>950</b>	<b>950</b>
Producing, Shut-In or New Zone	<b>New Zone</b>	<b>Producing</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?  
If not, have all working, royalty and overriding royalty interest owners been notified by certified mail?

Yes ☒ No ☐  
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 Mary Corley TITLE Sr. Regulatory Analyst DATE 01/12/2006

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