

Submit 3 Copies To Appropriate District Office  
District I  
1625 N. French Dr., Hobbs, NM 88240  
District II  
1301 W. Grand Ave., 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 and Natural Resources

Form C-103  
May 27, 2004

OIL CONSERVATION DIVISION  
1220 South St. Francis Dr.  
Santa Fe, NM 87505

WELL API NO. <b>30-045-22795</b>
7. Indicate Type of Lease STATE <input type="checkbox"/> FEE <input type="checkbox"/>
7. State Oil & Gas Lease No.
8. Lease Name or Unit Agreement Name <b>Navajo Allotted Gas Com B</b>
8. Well Number <b>1A</b>
9. OGRID Number <b>000778</b>
10. Pool name or Wildcat <b>Blanco Mesaverde/Otero Chacra</b>

**SUNDRY NOTICES AND REPORTS ON WELLS**  
(DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH PROPOSALS.)

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

2. Name of Operator  
**BP America Production Company - Attn: Cherry Hlava**

3. Address of Operator  
**P.O. Box 3092 Houston, TX 77253**

4. Well Location  
Unit Letter **O** : **790** feet from the **South** line and **1610** feet from the **East** line  
Section **36** Township **28N** Range **09W** NMPM **San Juan** County

11. Elevation (Show whether DR, RKB, RT, GR, etc.)  
**5851' GR**

Pit or Below-grade Tank Application ☐ or Closure ☐

Pit type **Workover** Depth to Groundwater **>100'** Distance from nearest fresh water well **>1000'** Distance from nearest surface water **>1000'**

Pit Liner Thickness: **12** mil Below-Grade Tank: Volume \_\_\_\_\_ bbls; Construction Material \_\_\_\_\_

12. Check Appropriate Box to Indicate Nature of Notice, Report or Other Data

NOTICE OF INTENTION TO:

PERFORM REMEDIAL WORK ☐ PLUG AND ABANDON ☐  
TEMPORARILY ABANDON ☐ CHANGE PLANS ☐  
PULL OR ALTER CASING ☐ MULTIPLE COMPL ☐

SUBSEQUENT REPORT OF:

REMEDIAL WORK ☐ ALTERING CASING ☐  
COMMENCE DRILLING OPNS. ☐ P AND A ☐  
CASING/CEMENT JOB ☐

OTHER: **Complete into Chacra & DHC w/Existing MV**

OTHER: ☐

13. Describe proposed or completed operations. (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work). SEE RULE 1103. For Multiple Completions: Attach wellbore diagram of proposed completion or recompletion.

**BP America Production Company request permission to recomplete the subject well into the Otero Chacra Pool and commingle production Downhole with the existing Blanco Mesaverde as per the attached procedure. The Blanco Mesaverde (72319) and Otero Chacra (82329) Pools are Pre-Approved Pools for Downhole Commingling per NMOCD order R-11363. The working, royalty and overriding royalty interest owners in the proposed commingled pools are identical, therefore no additional notification is required. BLM has been notified via FORM 3160-5.**

**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 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**

I hereby certify that the information above is true and complete to the best of my knowledge and belief.

SIGNATURE Cherry Hlava TITLE Regulatory Analyst DATE 05/01/2006  
Type or print name Cherry Hlava E-mail address: hlavacl@bp.com Telephone No. 281-366-4081

For State Use Only

APPROVED BY: [Signature] TITLE DEPUTY OIL & GAS INSPECTOR, DIST. 87 DATE MAY 05 2006

Conditions of Approval (if any): recompletion will be approved on Federal Form 3160-5 a b t m

The BLM approves it.

B

## SJ Basin PayAdd & DHC Procedure

**Well Name:** Navajo Allotted GC B No. 1A  
**Date:** April 26, 2006  
**API:** 30-045-22795  
**Location:** T28N-R9W-Sec36  
**County:** San Juan  
**State:** New Mexico  
**Horizon:** Chacra/Mesaverde

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**Objective:** Perforate and frac Chacra, and downhole co-mingle Chacra and Mesaverde

1. TOH with completion.
  2. Perforate and fracture Chacra.
  3. Land tbg and return well to production.
  4. Downhole co-mingle Chacra and Mesaverde.
- 

### **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 w/ 2-3/8" production tubing currently set at 4,499'. Using approved "Under Balance Well Control Tripping Procedure".
11. TIH w/ scraper for 4-1/2". 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 PBTD at 4,584'. POOH.
12. Tubing set CIBP at 3,650'. Fill casing w/ 2%KCl from the bottom up and test to 2,500 psi w/ rig pumps.
13. RU E-line equipment. Pressure test lubricator and equipment. Log well w/ CBL from 3,650' to TOL. If TOC is below XXXX', contact engineer to discuss need for remedial cement squeeze.
14. Replace Wellhead (if needed)
15. 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 device that transmits a signal.
16. RIH with 3-1/8" casing guns w/lubricator. Perforate Chacra formation:  
  
**w/ 2 SPF:**
17. 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.

18. Flowback frac immediately. Flow well through choke manifold on ¼", ½" and ¾" 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.
19. Rig up air package/unit, pressure test all lines (Testing procedure to be supplied from air company), TIH with tubing and bit for 4-1/2" casing. Cleanout fill to top of BP set at 3,650'. **Perform well test on Chacra and document well test in DIMS.**
20. Cleanout fill and CIBP set at 3,650'. Cleanout to PBTD at 4,584'. Blow well dry.
21. Rabbit tubing and RIH with 2-3/8" production tubing (with muleshoe, F-nipple with plug, 4 ft pup, X-nipple with plug).
22. Land 2-3/8" production tubing at +/-4,420'. Lock down hanger.
23. 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.**
24. ND BOP's. NU Wellhead. During Master valve placement ensure the top of hanger has spacer nipple in place to bottom of bonnet flange so plunger equipment will not hang up through tree. Pressure test Wellhead.
25. RU WL unit. Run gauge ring for 2-3/8" tubing. Pull plugs and set tubing stop for plunger. Communicate plunger equipment status to IC room personnel.
26. RD slickline unit.
27. Test well for air. Return well to production and downhole co-mingle Chacra and Mesaverde.

# Navajo Allotted GC B 1 A

Sec 36, T28N, R9W

API # 30-045-22795

GL: 5851'

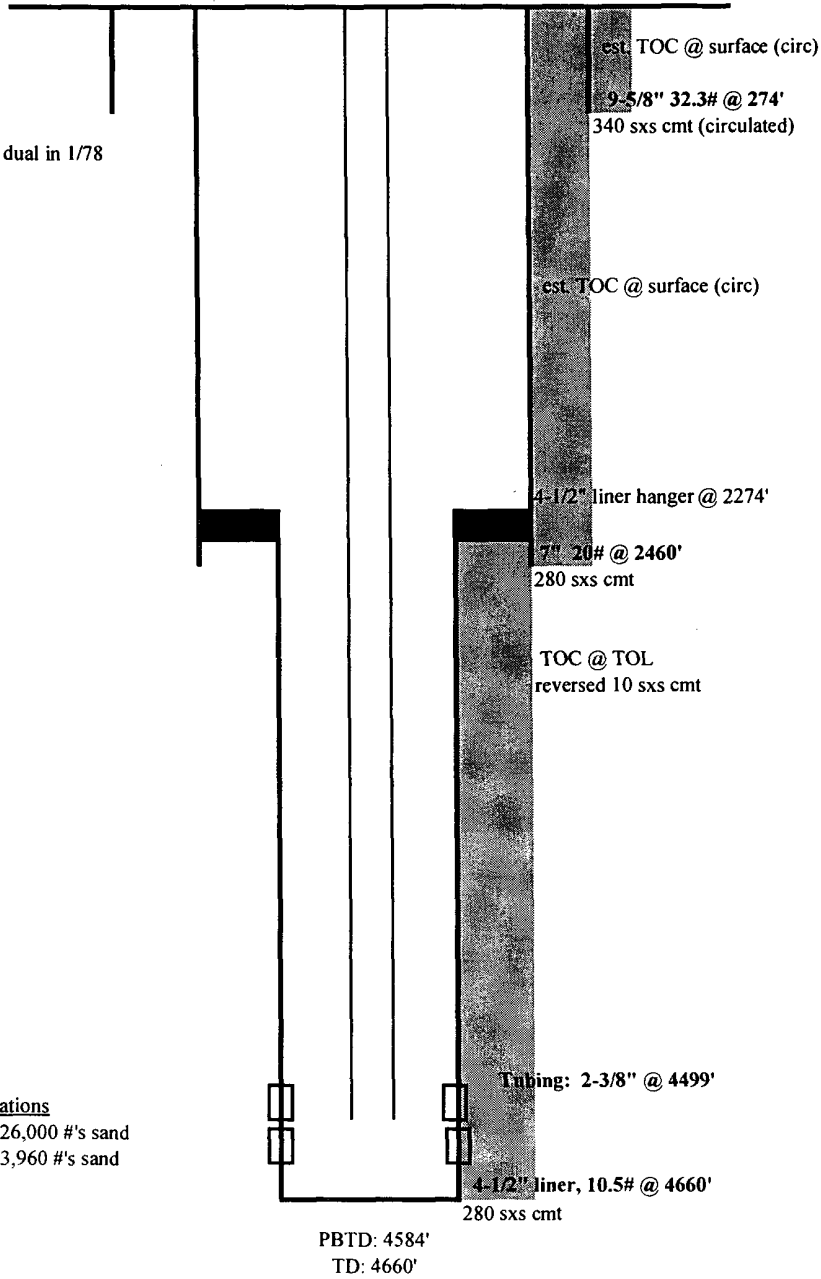
## History:

Completed as MV dual in 1/78

## Mesaverde Perforations

3706' - 4139' w/ 126,000 #'s sand

4220' - 4500' w/ 83,960 #'s sand



updated: 4/26/06 JG

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

<sup>1</sup> API Number <b>30-045-22795</b>	<sup>2</sup> Pool Code <b>82329</b>	<sup>3</sup> Pool Name <b>Otero Chacra</b>
<sup>4</sup> Property Code <b>000917</b>	<sup>5</sup> Property Name <b>NAVAJO ALLOTTED GC B</b>	<sup>6</sup> Well Number <b>1A</b>
<sup>7</sup> OGRID No. <b>000778</b>	<sup>8</sup> Operator Name <b>BP America Production Company</b>	<sup>9</sup> Elevation <b>5851'</b>

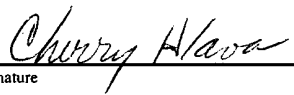
<sup>10</sup> Surface Location

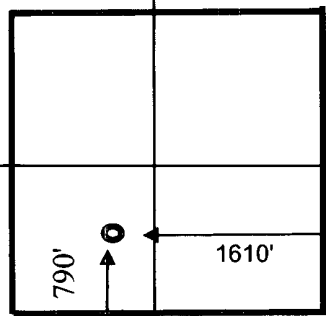
UL or lot no. <b>O</b>	Section <b>36</b>	Township <b>28N</b>	Range <b>09W</b>	Lot Idn	Feet from <b>790</b>	North/South <b>SOUTH</b>	Feet from <b>1610</b>	East/West <b>EAST</b>	County <b>San Juan</b>
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<sup>11</sup> Bottom Hole Location If Different From 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>Cherry Hlava</b> Printed Name <b>Regulatory Analyst</b> Title <b>4/28/2006</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>On File</b> Date of Survey Signature and Seal of Professional Surveyor:  Certificate Number 3950



<b>Navajo Allotted Gas Com B 1A</b>											
MesaVerde Formation											
API #	3004522795										
Starting 1/97 thru 9/28											
Exponential Decline											
Qi =	54	mcf/d	1-Jan-2006								
Qf =	10	mcf/d									
D =	7.15%	per year									
Date	Gas Rate mcf/d	Gas Volume MMSCF	Date	Gas Rate mcf/d	Gas Volume MMSCF	Date	Gas Rate mcf/d	Gas Volume MMSCF	Date	Gas Rate mcf/d	Gas Volume MMSCF
Jan-06	54	2	Jun-09	42	1	Nov-12	32	1	Apr-16	25	1
Feb-06	53	1	Jul-09	41	1	Dec-12	32	1	May-16	25	1
Mar-06	53	2	Aug-09	41	1	Jan-13	32	1	Jun-16	25	1
Apr-06	53	2	Sep-09	41	1	Feb-13	32	1	Jul-16	25	1
May-06	52	2	Oct-09	41	1	Mar-13	32	1	Aug-16	24	1
Jun-06	52	2	Nov-09	40	1	Apr-13	31	1	Sep-16	24	1
Jul-06	52	2	Dec-09	40	1	May-13	31	1	Oct-16	24	1
Aug-06	51	2	Jan-10	40	1	Jun-13	31	1	Nov-16	24	1
Sep-06	51	2	Feb-10	40	1	Jul-13	31	1	Dec-16	24	1
Oct-06	51	2	Mar-10	39	1	Aug-13	31	1	Jan-17	24	1
Nov-06	50	2	Apr-10	39	1	Sep-13	30	1	Feb-17	24	1
Dec-06	50	2	May-10	39	1	Oct-13	30	1	Mar-17	23	1
Jan-07	50	2	Jun-10	39	1	Nov-13	30	1	Apr-17	23	1
Feb-07	49	1	Jul-10	38	1	Dec-13	30	1	May-17	23	1
Mar-07	49	2	Aug-10	38	1	Jan-14	30	1	Jun-17	23	1
Apr-07	49	1	Sep-10	38	1	Feb-14	29	1	Jul-17	23	1
May-07	49	2	Oct-10	38	1	Mar-14	29	1	Aug-17	23	1
Jun-07	48	1	Nov-10	37	1	Apr-14	29	1	Sep-17	23	1
Jul-07	48	1	Dec-10	37	1	May-14	29	1	Oct-17	22	1
Aug-07	48	1	Jan-11	37	1	Jun-14	29	1	Nov-17	22	1
Sep-07	47	1	Feb-11	37	1	Jul-14	29	1	Dec-17	22	1
Oct-07	47	1	Mar-11	37	1	Aug-14	28	1	Jan-18	22	1
Nov-07	47	1	Apr-11	36	1	Sep-14	28	1	Feb-18	22	1
Dec-07	47	1	May-11	36	1	Oct-14	28	1	Mar-18	22	1
Jan-08	46	1	Jun-11	36	1	Nov-14	28	1	Apr-18	22	1
Feb-08	46	1	Jul-11	36	1	Dec-14	28	1	May-18	21	1
Mar-08	46	1	Aug-11	35	1	Jan-15	28	1	Jun-18	21	1
Apr-08	45	1	Sep-11	35	1	Feb-15	27	1	Jul-18	21	1
May-08	45	1	Oct-11	35	1	Mar-15	27	1	Aug-18	21	1
Jun-08	45	1	Nov-11	35	1	Apr-15	27	1	Sep-18	21	1
Jul-08	44	1	Dec-11	35	1	May-15	27	1	Oct-18	21	1
Aug-08	44	1	Jan-12	34	1	Jun-15	27	1	Nov-18	21	1
Sep-08	44	1	Feb-12	34	1	Jul-15	27	1	Dec-18	21	1
Oct-08	44	1	Mar-12	34	1	Aug-15	26	1	Jan-19	20	1
Nov-08	43	1	Apr-12	34	1	Sep-15	26	1	Feb-19	20	1
Dec-08	43	1	May-12	33	1	Oct-15	26	1	Mar-19	20	1
Jan-09	43	1	Jun-12	33	1	Nov-15	26	1	Apr-19	20	1
Feb-09	43	1	Jul-12	33	1	Dec-15	26	1	May-19	20	1
Mar-09	42	1	Aug-12	33	1	Jan-16	25	1	Jun-19	20	1
Apr-09	42	1	Sep-12	33	1	Feb-16	25	1	Jul-19	20	1
May-09	42	1	Oct-12	32	1	Mar-16	25	1	Aug-19	20	1