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

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

Form C-103
May 27, 2004

WELL API NO. 30-045-23151

7. Indicate Type of Lease STATE ☐ FEE ☐

7. State Oil & Gas Lease No.

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.)

7. Lease Name or Unit Agreement Name: **Hughes C**

1. Type of Well: Oil Well [X] Gas Well ☐ Other

8. Well Number: **4A**

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

9. OGRID Number: **000778**

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

10. Pool name or Wildcat: **Blanco Mesaverde/Otero Chacra**

4. Well Location

Unit Letter **I** : **1700** feet from the **South** line and **970** feet from the **East** line

Section **34** Township **29N** Range **08W** NMPM **San Juan** County

11. Elevation *(Show whether DR, RKB, RT, GR, etc.)* **6483' 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:		SUBSEQUENT REPORT OF:	
PERFORM REMEDIAL WORK ☐	PLUG AND ABANDON ☐	REMEDIAL WORK ☐	ALTERING CASING ☐
TEMPORARILY ABANDON ☐	CHANGE PLANS ☐	COMMENCE DRILLING OPNS. ☐	P AND A ☐
PULL OR ALTER CASING ☐	MULTIPLE COMPL ☐	CASING/CEMENT JOB ☐	
OTHER: **Complete into Chacra & DHC w/Mesaverde**		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 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

Construct a lined workover pit per BP America – San Juan Basin Drilling/ Workover Pit Construction Plan issued date of 11//17/2004. Pit will be closed according to closure plan on file.

DHC 1824AZ

I hereby certify that the information above is true and complete to the best of my knowledge and belief. **I further certify that any pit or below-grade tank has been/will be constructed or closed according to NMOCD guidelines ☐, a general permit ☐ or an (attached) alternative OCD-approved plan ☐.**

SIGNATURE Mary Corley TITLE **Sr. Regulatory Analyst** DATE **03/09/2005**

Type or print name **Mary Corley** E-mail address: **corleyml@bp.com** Telephone No. **281-366-4491**

For State Use Only

APPROVED BY: _____ TITLE DEPUTY OIL & GAS INSPECTOR, DIST. #3 DATE MAR 14 2005

Conditions of Approval (if any):

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
30-045-23151	82329	Otero Chacra

[4] Property Code	[5] Property Name	[6] Well Number
000703	Hughes C	4A

[7] OGRID No.	[8] Operator Name	[9] Elevation
000778	BP America Production Company	6368' GR

[10] Surface Location

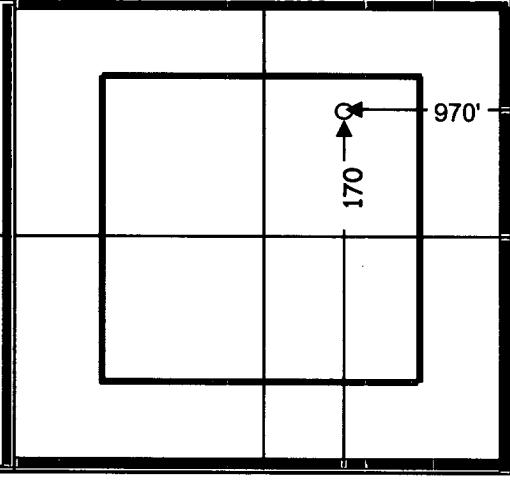
UL or lot no.	Section	Township	Range	Lot Idn	Feet from	North/South	Feet from	East/West	County
I	34	29N	08W		1700	South	970	East	San Juan

[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.

Signature: Mary Corley

Mary Corley
Printed Name

Sr. Regulatory Analyst
Title

3/9/2005
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.

6/6/1978
Date of Survey

Signature and Seal of Professional Surveyor:

Fred B Kerr 3950
Certificate Number

Hughes C 4 A API #: 30-045-23151
Complete into the Chacra & DHC with the Mesaverde
February 14, 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 2-3/8" production tubing currently set at 5660'. 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 bind rams. RIH to PBTD at 5,691'. POOH.

12. Set bridge plug at 4,600'. Fill casing w/ 2%KCl and test to 2,500 psi w/ rig pumps.

13. RU E-line equipment. Pressure test lubricator and equipment. Log well w/ CBL from PBTD to 3300'. If TOC is below Chacra', contact engineer to discuss need for remedial cement squeeze.

14. TIH w/ workstring and blow well dry.

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.

16. RIH with 3-1/8" casing guns w/lubricator. Perforate Chacra formation w/ 4 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 4,600'. **Perform well test on Chacra for regulatory and document well test in DIMS.**

20. Cleanout fill and BP set at 4,600'. Cleanout to PBTD at +/- 5,691'. 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 +/-5,640'. 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.

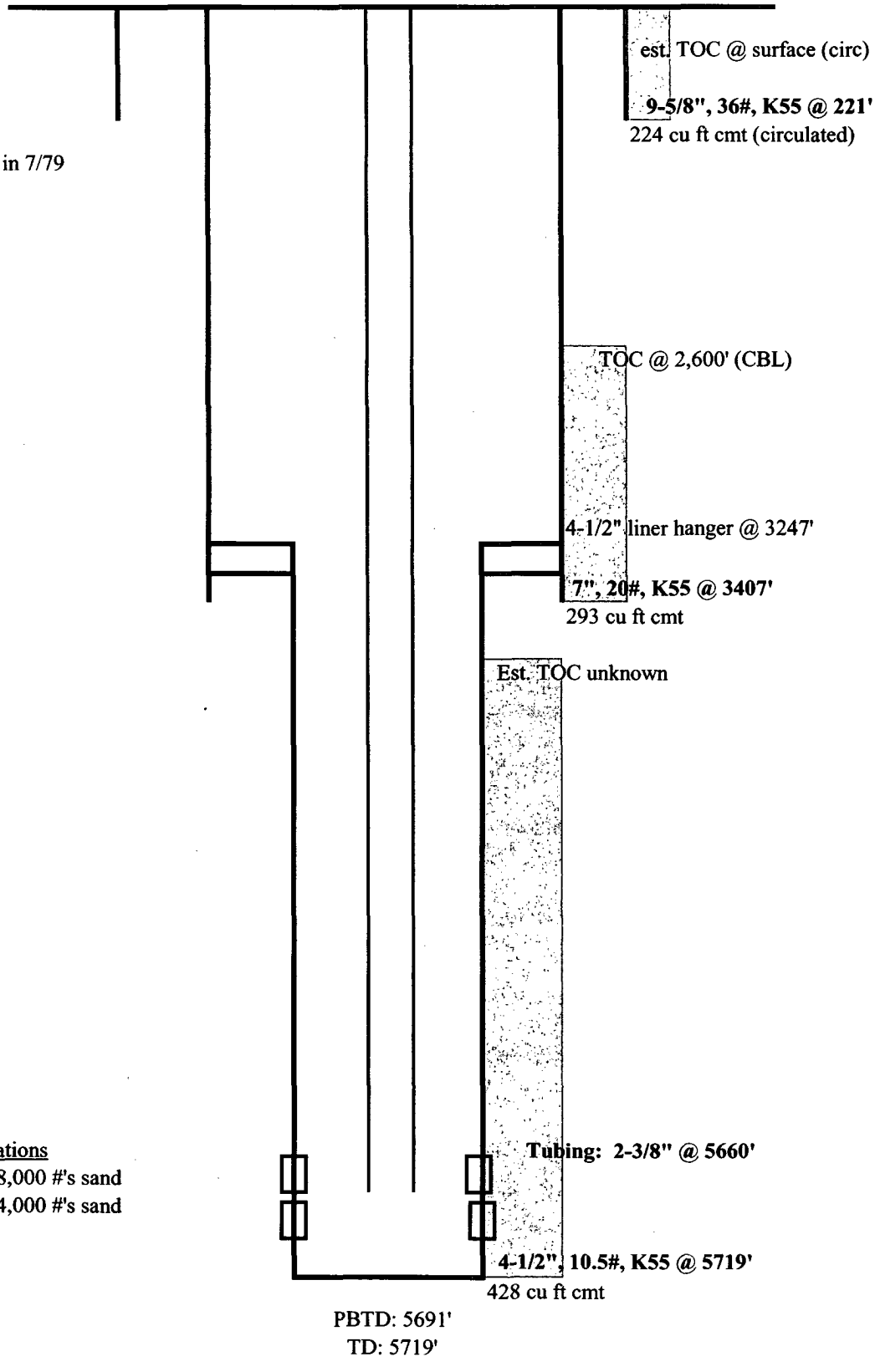
27. Test well for air. Return well to production and downhole co-mingle Chacra and Mesaverde.

Hughes C 4 A

Sec 34, T29N, R8W

API # 30-045-23151

GL: 6483'



History:

Completed as MV in 7/79

Mesaverde Perforations

4652' - 5088' w/ 68,000 #'s sand

5238' - 5690' w/ 94,000 #'s sand

updated: 2/10/05 CFR

Hughes C 4A

Future Production Decline Estimate

Mesaverde Daily Rates

Month	Gas Volume
Jan-2004	**107**
Feb-2004	**94**
Mar-2004	**126**
Apr-2004	**108**
May-2004	**108**
Jun-2004	**99**
Jul-2004	**106**
Aug-2004	**103**
Sep-2004	**107**
Oct-2004	**106**
Nov-2004	**101**
Dec-2004	**100**
Jan-2005	**104**
Feb-2005	**110**
Mar-2005	110
Apr-2005	110
May-2005	109
Jun-2005	109
Jul-2005	109
Aug-2005	109
Sep-2005	109
Oct-2005	109
Nov-2005	108
Dec-2005	108
Jan-2006	108
Feb-2006	108
Mar-2006	108
Apr-2006	108
May-2006	107
Jun-2006	107
Jul-2006	107
Aug-2006	107
Sep-2006	107
Oct-2006	107
Nov-2006	106
Dec-2006	106

ln(Qf/Qi) = -dt

Qf=	107
Qi=	108
rate=	107
time=	6
dt=	-0.009302393
decline=	-0.001550399

Month	Gas Volume
Jan-2007	106
Feb-2007	106
Mar-2007	106
Apr-2007	106
May-2007	105
Jun-2007	105
Jul-2007	105
Aug-2007	105
Sep-2007	105
Oct-2007	105
Nov-2007	105
Dec-2007	104
Jan-2008	104
Feb-2008	104
Mar-2008	104
Apr-2008	104
May-2008	104
Jul-2008	103
Aug-2008	103
Sep-2008	103
Oct-2008	103
Nov-2008	103
Dec-2008	103
Jan-2009	102
Feb-2009	102
Mar-2009	102
Apr-2009	102
May-2009	102
Jun-2009	102
Jul-2009	101
Aug-2009	101
Sep-2009	101
Oct-2009	101
Nov-2009	101
Dec-2009	101
Jan-2010	101

Month	Gas Volume
Feb-2010	100
Mar-2010	100
Apr-2010	100
May-2010	100
Jun-2010	100
Jul-2010	100
Aug-2010	99
Sep-2010	99
Oct-2010	99
Nov-2010	99
Dec-2010	99
Jan-2011	99
Feb-2011	99
Mar-2011	98
Apr-2011	98
May-2011	98
Jun-2011	98
Jul-2011	98
Aug-2011	98
Sep-2011	97
Oct-2011	97
Nov-2011	97
Dec-2011	97
Jan-2012	97
Feb-2012	97
Mar-2012	97
Apr-2012	96
May-2012	96
Jun-2012	96
Jul-2012	96
Aug-2012	96
Sep-2012	96
Oct-2012	96
Nov-2012	95
Dec-2012	95
Jan-2013	95

Hughes C 4A

Future Production Decline Estimate

Mesaverde Daily Rates

Month	Gas Volume
Feb-2013	95
Mar-2013	95
Apr-2013	95
May-2013	94
Jun-2013	94
Jul-2013	94
Aug-2013	94
Sep-2013	94
Oct-2013	94
Nov-2013	94
Dec-2013	93
Jan-2014	93
Feb-2014	93
Mar-2014	93
Apr-2014	93
May-2014	93
Jun-2014	93
Jul-2014	92
Aug-2014	92
Sep-2014	92
Oct-2014	92
Nov-2014	92
Dec-2014	92
Jan-2015	92
Feb-2015	91
Mar-2015	91
Apr-2015	91
May-2015	91
Jun-2015	91
Jul-2015	91
Aug-2015	91
Sep-2015	90
Oct-2015	90
Nov-2015	90
Dec-2015	90
Jan-2016	90

Month	Gas Volume
Feb-2016	90
Mar-2016	90
Apr-2016	90
May-2016	89
Jun-2016	89
Jul-2016	89
Aug-2016	89
Sep-2016	89
Oct-2016	89
Nov-2016	89
Dec-2016	88
Jan-2017	88
Feb-2017	88
Mar-2017	88
Apr-2017	88
May-2017	88
Jun-2017	88
Jul-2017	87
Aug-2017	87
Sep-2017	87
Oct-2017	87
Nov-2017	87
Dec-2017	87
Jan-2018	87
Feb-2018	87
Mar-2018	86
Apr-2018	86
May-2018	86
Jun-2018	86
Jul-2018	86
Aug-2018	86
Sep-2018	86
Oct-2018	85
Nov-2018	85
Dec-2018	85
Jan-2019	85