

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**

1. Type of Well <input type="checkbox"/> Oil Well <input checked="" type="checkbox"/> Gas Well <input type="checkbox"/> Other		5. Lease Serial No. <b>NM - 010989</b>
2. Name of Operator <b>BP America Production Company Attn: Mary Corley</b>		6. If Indian, Allottee or tribe Name
3a. Address <b>P.O. Box 3092 Houston, TX 77253</b>	3b. Phone No. (include area code) <b>281-366-4491</b>	7. Unit or CA/Agreement, Name and/or No.
4. Location of Well (Footage, Sec., T., R., M., or Survey Description) <b>1500' FSL &amp; 850' FEL Sec 25 T32N R11W</b>		8. Well Name and No. <b>Fields A 2A</b>
		9. API Well No. <b>30-045-22399</b>
		10. Field and Pool, or Exploratory Area <b>Blanco Mesaverde &amp; Pictured Cliffs</b>
		11. County or Parish, State <b>San Juan County, New Mexico</b>

12. CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OR 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	<b>Downhole Commingle</b>

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 complete the subject well into the Blanco Pictured Cliffs Pool and commingle production Downhole with the existing Blanco Mesaverde as per the attached procedure.

The Blanco Mesaverde (72319) and Blanco Pictured Cliffs (72359) 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

14. I hereby certify that the foregoing is true and correct		<b>CONDITIONS OF APPROVAL</b> Adhere to previously issued stipulations.	
Name (Printed/typed) <b>Mary Corley</b>	Title <b>Senior Regulatory Analyst</b>		
Signature <i>Mary Corley</i>	Date <b>3/31/2005</b>		
<b>THIS SPACE FOR FEDERAL OR STATE OFFICE USE</b>			
Approved by <i>[Signature]</i>	Title <b>Petr. Eng</b>	Date <b>4/22/05</b>	
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.			
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.			

NMOCD

**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

Form C-102  
Revised August 15, 2000

OIL CONSERVATION DIVISION  
2040 South Pacheco  
Santa Fe, NM 87505

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 30-045-22399		<sup>2</sup> Pool Code 72359		<sup>3</sup> Pool Name Blanco Pictured Cliffs	
<sup>4</sup> Property Code 000511		<sup>5</sup> Property Name Fields A			<sup>6</sup> Well Number 2A
<sup>7</sup> OGRID No. 000778		<sup>8</sup> Operator Name BP America Production Company			<sup>9</sup> Elevation 6226' GR

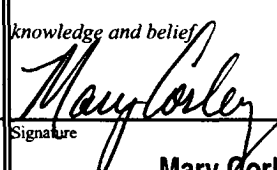
## <sup>10</sup> Surface Location

UL or lot no. Unit I	Section 25	Township 32N	Range 11W	Lot Idn	Feet from 1500	North/South South	Feet from 850	East/West East	County San Juan
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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 160		<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 hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.  Signature Mary Corley Printed Name Sr. Regulatory Analyst Title 3/1/2005 Date	
				<sup>18</sup> 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. 3/1/1977 Date of Survey Signature and Seal of Professional Surveyor: 1760 Certificate Number	

← 850

1500

**Fields A 2 A**  
**Procedure to Complete into the Pictured Cliffs and DHC with the Mesaverde**  
**March 7, 2005**

1. Perform pre-rig site inspection. Check for: size of location, Gas Taps, other wells, other operators, running equipment, wetlands, wash (dikes req.), H<sub>2</sub>S, 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 5420'. 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 5,471'. POOH.
12. Set bridge plug at 4,500'. 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 2500. If TOC is below 3,000', 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 Pictured Cliffs formation w/ 4 SPF at: 3190, 3185, 3180, 3174, 3167, 3164, 3156, 3149, 3139, 3129'.
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 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.
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 4,500'. **Perform well test on Pictured Cliffs for regulatory and document well test in DIMS.**
20. Cleanout fill, cement retainer, and BP set at 4,500'. Cleanout to PBTD at 5,471'. 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 +/-5,390'. 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 Pictured Cliffs and Mesaverde.

## Fields A 002A

Sec 25, T32N, R11W

API # 30-045-22399

GL: 6226'

### History:

completed MV in 8/1977  
perf, acidize MV in 2/1997  
Perf and frac in 4/04

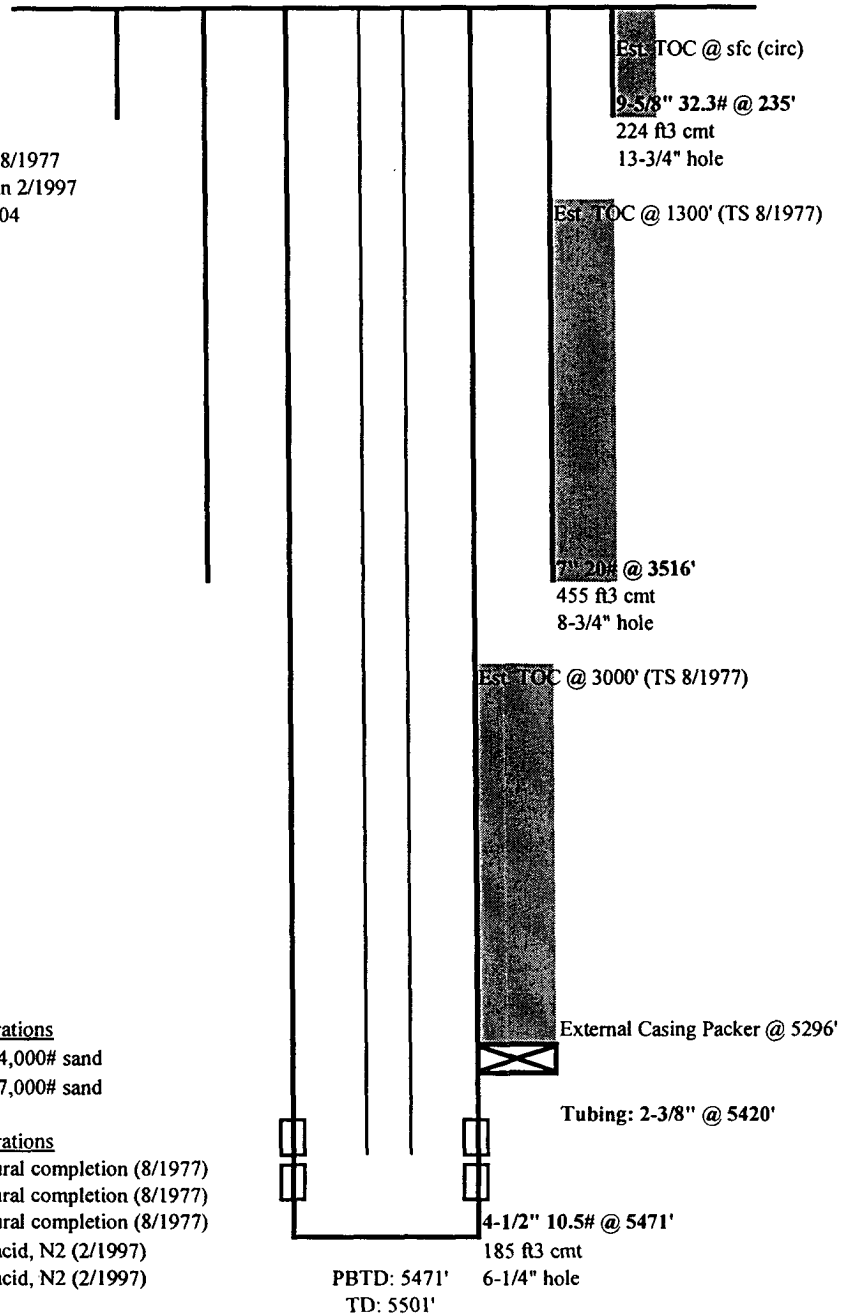
### Mesaverde Perforations

4556' - 5084'w/ 74,000# sand  
5155' - 5442'w/ 87,000# sand

### Mesaverde Perforations

5360' - 5370' natural completion (8/1977)  
5410' - 5420' natural completion (8/1977)  
5454' - 5464' natural completion (8/1977)  
5316' - 5322' w/ acid, N2 (2/1997)  
5346' - 5365' w/ acid, N2 (2/1997)

Formation tops: Cliff House @ 4554'  
Menefee @ 4940'  
Point Lookout @ 5344'



updated: 12/10/04 CFR

# Fields A 2A

## Future Production Decline Estimate

### Mesaverde Daily Rates

$$\ln(Q_f/Q_i) = -dt$$

$$Q_f = 198$$

$$Q_i = 201$$

$$\text{rate} = 198$$

$$\text{time} = 5$$

$$dt = -0.015037877$$

$$\text{decline} = -0.003007575$$

Month	Gas Volume
Jan-2004	22
Feb-2004	133
Mar-2004	185
Apr-2004	192
May-2004	202
Jun-2004	206
Jul-2004	204
Aug-2004	200
Sep-2004	211
Oct-2004	206
Nov-2004	201
Dec-2004	187
Jan-2005	209
Feb-2005	207
Mar-2005	198
Apr-2005	197
May-2005	197
Jun-2005	196
Jul-2005	195
Aug-2005	195
Sep-2005	194
Oct-2005	194
Nov-2005	193
Dec-2005	192
Jan-2006	192
Feb-2006	191
Mar-2006	191
Apr-2006	190
May-2006	190
Jun-2006	189
Jul-2006	188
Aug-2006	188
Sep-2006	187
Oct-2006	187
Nov-2006	186
Dec-2006	186

Month	Gas Volume
Jan-2007	185
Feb-2007	185
Mar-2007	184
Apr-2007	183
May-2007	183
Jun-2007	182
Jul-2007	182
Aug-2007	181
Sep-2007	181
Oct-2007	180
Nov-2007	180
Dec-2007	179
Jan-2008	179
Feb-2008	178
Mar-2008	177
Apr-2008	177
May-2008	176
Jun-2008	176
Jul-2008	175
Aug-2008	175
Sep-2008	175
Oct-2008	174
Nov-2008	174
Dec-2008	173
Jan-2009	173
Feb-2009	172
Mar-2009	172
Apr-2009	171
May-2009	171
Jun-2009	170
Jul-2009	170
Aug-2009	169
Sep-2009	169
Oct-2009	168
Nov-2009	168
Dec-2009	167
Jan-2010	167

Month	Gas Volume
Feb-2010	166
Mar-2010	166
Apr-2010	165
May-2010	165
Jun-2010	164
Jul-2010	164
Aug-2010	163
Sep-2010	163
Oct-2010	162
Nov-2010	162
Dec-2010	161
Jan-2011	161
Feb-2011	160
Mar-2011	160
Apr-2011	159
May-2011	159
Jun-2011	158
Jul-2011	158
Aug-2011	157
Sep-2011	157
Oct-2011	156
Nov-2011	156
Dec-2011	155
Jan-2012	155
Feb-2012	155
Mar-2012	154
Apr-2012	154
May-2012	153
Jun-2012	153
Jul-2012	152
Aug-2012	152
Sep-2012	151
Oct-2012	151
Nov-2012	150
Dec-2012	150
Jan-2013	150

## Fields A 2A

## Future Production Decline Estimate

## Mesaverde Daily Rates

Month	Gas Volume
Feb-2013	149
Mar-2013	149
Apr-2013	148
May-2013	148
Jun-2013	147
Jul-2013	147
Aug-2013	146
Sep-2013	146
Oct-2013	146
Nov-2013	145
Dec-2013	145
Jan-2014	144
Feb-2014	144
Mar-2014	143
Apr-2014	143
May-2014	142
Jun-2014	142
Jul-2014	142
Aug-2014	141
Sep-2014	141
Oct-2014	140
Nov-2014	140
Dec-2014	140
Jan-2015	139
Feb-2015	139
Mar-2015	138
Apr-2015	138
May-2015	137
Jun-2015	137
Jul-2015	137
Aug-2015	136
Sep-2015	136
Oct-2015	135
Nov-2015	135
Dec-2015	135
Jan-2016	134

Month	Gas Volume
Feb-2016	134
Mar-2016	133
Apr-2016	133
May-2016	133
Jun-2016	132
Jul-2016	132
Aug-2016	131
Sep-2016	131
Oct-2016	131
Nov-2016	130
Dec-2016	130
Jan-2017	129
Feb-2017	129
Mar-2017	129
Apr-2017	128
May-2017	128
Jun-2017	127
Jul-2017	127
Aug-2017	127
Sep-2017	126
Oct-2017	126
Nov-2017	126
Dec-2017	125
Jan-2018	125
Feb-2018	124
Mar-2018	124
Apr-2018	124
May-2018	123
Jun-2018	123
Jul-2018	123
Aug-2018	122
Sep-2018	122
Oct-2018	121
Nov-2018	121
Dec-2018	121
Jan-2019	120