Form 3160-5 (August 1999)

UNITED STATES DEPARTMENT OF THE INTERIOR

BUREAU OF LAND MANGEMENT SUNDRY NOTICES AND REPORTS ON WELLS

Lease Serial No

FURM	APPK	OVEL
OMB N	lo. 100	4-013

Expires November 30, 2000

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Do not use this form for proposals to drill or to re-enter an Abandoned well. Use Form 3160-3 (APD) for such proposals

requirements, including reclamation, have been completed, and the operator has determined that the site is ready for final inspection.

If Indian, Allottee or tribe Name

SUBMIT IN TRIPLICA	TE – Other in	istructions on reverse	side 👌	7. Unit or CA/Agreement, Name	and/or No.
1. Type of Well		E P. ZUL	15	8. Well Name and No.	
Oil Well X Gas Well	Other	R OL) [N	Hughes B 4	
2. Name of Operator		Day.	77V. O.)	9. API Well No.	
BP America Production Company	Attn: Mary Corley		\sim	30-045-07943	i
3a. Address	3b.	Phone No. (tochude area code)	1100	10. Field and Pool, or Exploratory	Area
P.O. Box 3092 Houston, TX 77253		281-366-4491	Le Clibar	Blanco Mesaverde & Pio	tured Cliffs:
4. Location of Well (Footage, Sec., T., R.,	M., or Survey Descr	iption)		11. County or Parish, State	
990' FSL & 9	90' FWL Sec 20	T29N R08W		San Juan County, New	w Mexico
12. CHECK AF	PROPRIATE BOX((ES) TO INDICATE NATURE	OR NOTICE, RE	EPORT, OR OTHER DATA	
TYPE OF SUBMISSION			TYPE OF ACTIO	ON	
X Notice of Intent	Acidize	Deepen Deepen	☐ Productio	n (Start/Resume)	Water shut-Off
Subsequent Report	Alter Casing	☐ Fracture Treat	☐ Reclamat	ion	Well Integrity
Final Abandonment Notice	Casing Repair	☐ New Construction	☐ Recomple	ete 🔲	Abandon
] [[Change Plans	Plug and Abandon	☐ Water Di	sposal	
	Injection	☐ Plug Back	X Other	<u>Downhole Comm</u>	ingle
Describe Proposed or Completed Operation (of deepen directionally or recomplete horizontall will be performed or provide the Bond No. on the complete and the complete horizontall will be performed or provide the Bond No. on the complete horizontal series and the complete horizontal series are completed.	y, give subsurface locat	ions and measured and true vertical of	depths of all pertines	nt markers and zones. Attach the Bond un	nder which the work

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.

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

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 production CONDITIONS OF APPROVAL	proposed Pools with not reduce the value of the total remaining will be required on 7" sq2. wo
14. Archegectoning environment is tipulation of the control of the	should cont. fact to circ. to
Name (Printed/typed) Mary Corley	Title Senior Regulatory Analyst
Signature Mary Coiley	Date 3/31/2005
THIS SPACE FOR FEDER	AL OR STATE OFFICE USE
Approved by	Title Petr. Eng. Date P S OS
Conditions of approval, if any, are attached. Approval of this notice does not warrant or Certify	7 = 10
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
Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for	

District I

1625 N. French Dr., Hobbs, NM 88240

State of New Mexico Energy, Minerals & Natural Resources Department Form C-102 Revised August 15, 2000

District II

811 South First, Artesia, NM 88210

District III

OIL CONSERVATION DIVISION 2040 South Pacheco Santa Fe, NM 87505 Submit to Appropriate District Office

State Lease - 4 Copies

Fee Lease - 3 Copies

1000 Rio Brazos Rd., Aztec, NM 87410 District IV 2040 South Pacheco, Santa Fe, NM 87505

AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

'API Number 30-045-07943	72359	³ Pool Name Blanco Pictured Cliffs
Property Code 000702	⁵ Property Name Hughes B	6 Well Number
⁷ OGRID No. 000778	* Operator Name BP America Production Co	repany Plevation 6475' GR

Surface Location

UL or lot no. M	Section 20	Township 29N	Range 08W	Lot Idn	Feet from 990	North/South South	Feet from 990	East/West West	County San Juan
			Botto	m Hole l	Location If	Different I	From Sur	face	
UL or lot no.	Section	Township	Range	Lot Idn	Feet from	North/South	Feet	East/West	County
12 Dedicate		13 Joint o	r Infill		¹⁴ Consolidation (Code		15	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

NON-STANDAR	D 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 beligh. Mary Corle
	Signarure Mary Corley
	Printed Name Sr. Regulatory Analyst
	7itle 3/31/2005
	Date
	18 SURVEYOR CERTIFICATION I hereby certify that the well location shown on this pl
	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.
	1/16/1953
—990' — → ○	Date of Survey
066	C O Walker
	Certificate Number

Hughes B 4 Procedure to Complete into the Pictured Cliffs and DHC with Mesaverde March 7, 2005

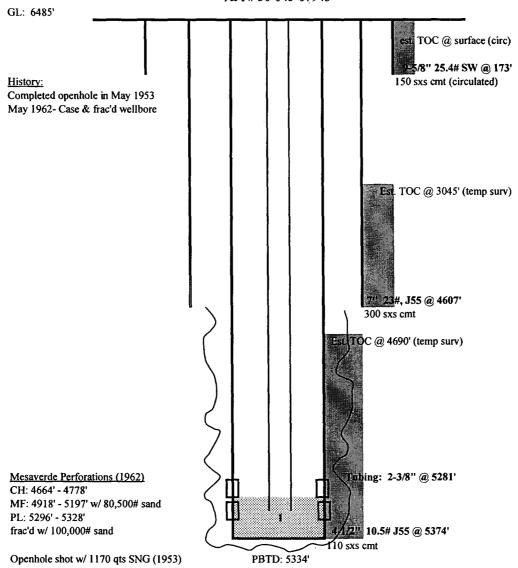
- 1. Perform pre-rig site inspection. Check for: size of location, Gas Taps, other wells, other operators, running equipment, wetlands, wash (dikes req.), H2S, barriers needed for equipment, Landowner issues, location of pits (buried lines in pits), Raptor nesting, critical location, check anchors. Check 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 5281'. 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 5,334'. POOH.
- 12. Set bridge plug at 4,500'. 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.
- 14. RU E-line equipment. Pressure test lubricator and equipment. Log well w/ CBL from PBTD to 4000'.
- 15. Perforate squeeze holes 100' above TOC. (previous temp survey indicated TOC at 4,690').

- 16. Set cement retainer 100' above squeeze holes.
- 17. Sting into retainer. Circulate cement down tubing and up 4-1/2" by 7" annulus. Pump 20 bbls cement below retainer.
- 18. Sting out of retainer and circulate cement off of top of retainer. POOH and WOC.
- 19. RU e-line and run CBL from retainer to 3,000' to confirm TOC.
- 20. Back off 4-1/2" casing 100' above TOC.
- 21. RU E-line equipment. Pressure test lubricator and equipment. Log well w/ CBL from top of 4-1/2" to 2,500'.
- 22. Perforate squeeze holes 100' above TOC. (previous temp survey indicated TOC at 3,045').
- 23. Set cement retainer 100' above squeeze holes.
- 24. Sting into retainer. Circulate cement down tubing and up 7" annulus. Circulate cement to surface if possible.
- 25. Sting out of retainer and circulate cement off of top of retainer. POOH and WOC.
- 26. RU e-line and run CBL from retainer to 2,500' to confirm TOC is above Pictured Cliffs.
- 27. PU bit for 7" casing. Clean out retainer and cement to top of 4-1/2" liner.
- 28. Fill casing w/ 2%KCl and test to 2,500 psi w/ rig pumps.
- 29. RIH with 3-1/8" casing guns w/lubricator. Perforate Pictured Cliffs formation w/ 4 SPF at: 3089, 3085, 3081, 3077, 3074, 3069, 3066, 3063, 3059, 3056'.
- 30. 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.
- 31. 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.
- 32. Rig up air package/unit, pressure test all lines (Testing procedure to be supplied from air company), TIH with tubing and bit for 7" casing. Cleanout fill to top of 4-1/2" casing. Perform well test on Pictured Cliffs for regulatory and document well test in DIMS.
- 33. PU bit for 4-1/2" casing. Cleanout fill, cement retainer, and BP set at 4,500'. Cleanout to PBTD at 5,334'. Blow well dry.
- 34. Rabbit tubing and RIH with 2-3/8" production tubing (with muleshoe, F-nipple with plug, 4 ft pup, X-nipple with plug).
- 35. Land 2-3/8" production tubing at +/-5,275'. Lock down hanger.

- 36. 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.
- 37. 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.
- 38. 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.
- 39. RD slickline unit.
- 40. Test well for air. Return well to production and downhole co-mingle Pictured Cliffs and Mesaverde.

Hughes B #4

Sec 20, T29N, R8W API # 30-045-07943



updated: 12/10/04 CFR

Hughes B 4

Future Production Decline Estimate Mesaverde Daily Rates

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Sas Volume	98	82	127	71	95	73	110	105	91	112
Month ≈ G	Jan-2004	Feb-2004	Mar-2004	Apr-2004	May-2004	Jun-2004	Jul-2004	Aug-2004	Sep-2004	Oct-2004

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Gas Volume																																		***************************************		
Month **	Jan-2007	Feb-2007	Mar-2007	Apr-2007	May-2007	Jun-2007	Jul-2007	Aug-2007	Sep-2007	Oct-2007	Nov-2007	Dec-2007	Jan-2008	Feb-2008	Mar-2008	Apr-2008	May-2008	Jul-2008	Aug-2008	Sep-2008	Oct-2008	Nov-2008	Dec-2008	Jan-2009	Feb-2009	Mar-2009	Apr-2009	May-2009	Jun-2009	Jul-2009	Aug-2009	Sep-2009	Oct-2009	Nov-2009	Dec-2009	Jan-2010

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80

| Nov-2004 | Jan-2005 | Jan-2005 | Jan-2005 | Mar-2005 | Jul-2005 | Jul-2005 | Jul-2005 | Jul-2006 | Oct-2006 | Oct-2006

Gas Volume	59	58	28	28	29	25	29	99	99	99	22	22	22	54	54	54	53	53	53	25	52	52	51	51	51	51	50	20	50	49	49	49	49	48	48	48
Month	\cdot	Mar-2010	Apr-2010	May-2010	Jun-2010	Jul-2010	Aug-2010	Sep-2010	Oct-2010	Nov-2010	Dec-2010	Jan-2011	Feb-2011	Mar-2011	Apr-2011	May-2011	Jun-2011	Jul-2011	Aug-2011	Sep-2011	Oct-2011	Nov-2011	Dec-2011	Jan-2012	Feb-2012	Mar-2012	Apr-2012	May-2012	Jun-2012	Jul-2012	Aug-2012	Sep-2012	Oct-2012	Nov-2012	Dec-2012	Jan-2013

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Hughes B 4 Future Production Decline Estimate Mesaverde Daily Rates

Gas Volume	47	47	47	47	46	46	46	46	45	45	45	45	44	44	44	44	43	43	43	43	42	42	42	42	41	41	41	41	40	40	40	40	39	39	38	39
S. Monthes Ca	_	2	Apr-2013	May-2013	Jun-2013	Jul-2013	201	Sep-2013	201	Nov-2013	Dec-2013	Jan-2014	Feb-2014	Mar-2014	Apr-2014	May-2014	Jun-2014		Aug-2014		Oct-2014	Nov-2014	Dec-2014	-201	Feb-2015	Mar-2015	Apr-2015	201	Jun-2015	Jul-2015	Aug-2015	Sep-2015	201	201	Dec-2015	Jan-2016

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Gas Volume	39	38	38	38	38	37	37	37	37	37	36	36	36	36	35	35	32	35	35	34	34	34	34	34	33	33	33	33	33	33	32	32	32	32	32	31
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