Form 3160-5 (August 1999)

UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

FORM APPROVED
OMB NO. 1004-0135
Expires: November 30, 2000

5. Lease Serial No.

SUNDRY NOTICES AND REPORTS ON WELLS on not use this form for proposals to drill or to re-enter an

NMSF078566

	is form for proposals to d II. Use form 3160-3 (APD				6. If Indian, Allottee of	r Tribe Name
SUBMIT IN TRI	PLICATE - Other instruct	ions on rever	se side.		7. If Unit or CA/Agree	ement, Name and/or No.
1. Type of Well				- Carlo and a same and a	8. Well Name and No.	
Oil Well 🛛 Gas Well 🗖 Oth	ner		1	£5678	STOREY LS 3	
Name of Operator BP AMERICA PRODUCTION	CO Contact: N	MARY CORLE E-Mail: corleyml(JU, %	9/API Well No. 30-045-07094-0	0-C1
3a. Address P. O. BOX 3092 HOUSTON, TX 77253		3b. Phone No. (Ph: 281.366. Fx: 281.366.0	4491 😘 🕓	de)* 200	10. Field and Pool, or BLANCO MV/ F OTERO CHACE	PC Y
4. Location of Well (Footage, Sec., T	., R., M., or Survey Description,		(E)	797700	11. County or Parish,	and State
Sec 26 T28N R8W SWSW 10 36.62787 N Lat, 107.65541 W			The state of the s	Z282 20 12 N	SAN JUAN COL	JNTY, NM
12. CHECK APPI	ROPRIATE BOX(ES) TO	INDICATE N	IATURE OF	NOTICE, R	EPORT, OR OTHE	R DATA
TYPE OF SUBMISSION	-		ТҮРЕ	OF ACTION		
- Notice of Intent	☐ Acidize	Deepe	n	□ Product	ion (Start/Resume)	☐ Water Shut-Off
Notice of Intent	Alter Casing	Fractu	re Treat	☐ Reclam	ation	☐ Well Integrity
☐ Subsequent Report	Casing Repair	□ New C	Construction	☐ Recomp	olete	Other Subsurface Comming
Final Abandonment Notice	Change Plans	Plug a	nd Abandon	_	arily Abandon	Subsurface Comming ng
_	Convert to Injection	☐ Plug E	Back	☐ Water I	Disposal	"5
	pany request permission to d trimingle production down issaverde Pools as per the Fe Office for approval (coical between these three Foommingling approval. allocated based on the sure Pictured Cliffs and Mesaracted from the total producted to the Chacra. Attact fs & Mesaverde Pools.	rnhole with the attached proceed by attached). Pools, therefore btraction method braction for the content are the fut from the proposed at a content of the proposed by the proposed braction for the proposed braction for the proposed bracket from the pr	existing Bla edure. Applice e, no addition od using the This product commingled voure production sed pools with	nco South cation also nal notification projected fut tion shall servell. The bala on decline	ure e nce the	W/A
14. Thereby certify that the foregoing is	Electronic Submission #	30089 verified b	y the BLM W		Mandambar Hind	OVAL
Comm	For BP AMERICA itted to AFMSS for process					andist.
Name (Printed/Typed) MARY CC	•	• •			PRESENTATIVE	
Signature (Electronic S				/2004		
	THIS SPACE FO	R FEDERAL	OR STATI	E OFFICE U	SE	
Conditions of approval, if any, are attached	ed. Approval of this notice does	not warrant or	Title P	c.Eng		Date 2 04
certify that the applicant holds legal of eq which would entitle the applicant to cond	uitable title to those rights in the uct operations thereon.	subject lease	Office		NMO	
Title 18 U.S.C. Section 1001 and Title 43 States any false, fictitious or fraudulent	U.S.C. Section 1212, make it a statements or representations as	crime for any pers to any matter with	on knowingly in its jurisdicti	and willfully to n	ake to any department of	r agency of the United

Additional data for EC transaction #30089 that would not fit on the form

32. Additional remarks, continued

value of the total remaining production.

Storey LS #3

Recomplete to Chacra, AddPay in Menefee Formation, & Downhole Tri-mingle Pictured Cliffs, Chacra, & Mesaverde Production

Procedure:

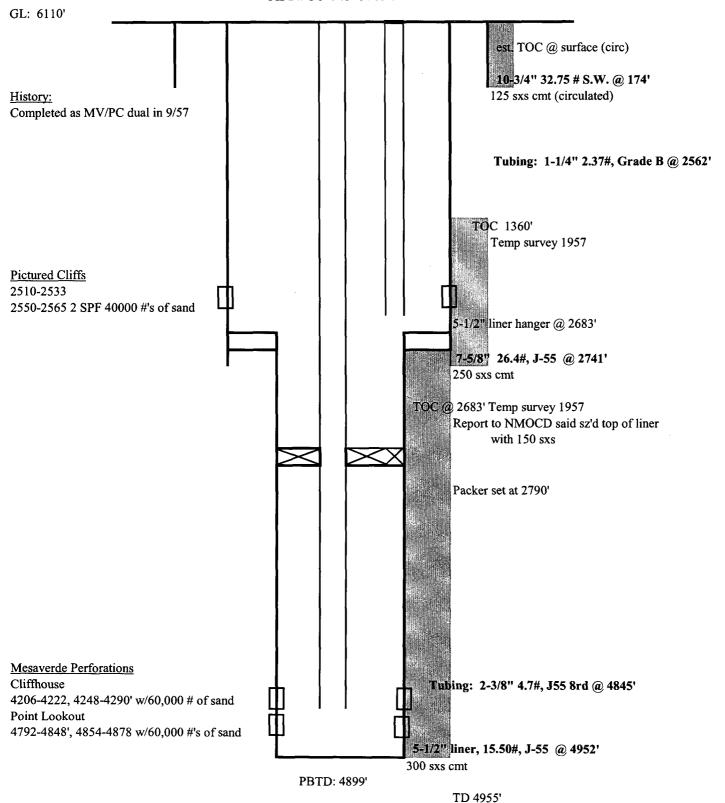
- 1. Check anchors. MIRU workover rig.
- 2. Check and record tubing, casing, and bradenhead pressures.
- 3. Blow down well. Kill with 2% KCL water ONLY if necessary.
- 4. Nipple down WH. NU BOPs and diversion spool with 3" outlets and 3" pipe to the blow tank. Pressure test BOPs to 500 psi. Monitor flowing casing pressure with gauge (with casing flowing to blow tank) throughout workover.
- 5. RU slickline unit or wireline unit. RIH and set plug (CIBP, tbg collar stop and plug, or plug set in nipple) for isolation in both tubing strings (1-1/4" and 2-3/8").
- 6. TOH and LD 1-1/4" short-string production tubing currently set at 2562'.
- 7. Release 5-1/2" Baker 'EGJ' packer at 2790' and TOH with 2-3/8" long-string production tubing currently set at 4845' (Garrett cir. sleeve at 2570').
- 8. <u>Contingency:</u> If the tubing is in poor condition, replace entire tubing string.
- 9. TIH with bit and scraper for 7-5/8" to top of liner at 2683'.
- 10. TIH with bit and scraper for 5-1/2" casing to PBTD at 4899'. Work casing scraper across old Mesaverde perforations (4206' 4290'), and (4792' 4848'), then new Menefee perforations (4373'- 4746'), and then new Chacra interval (3486' 3691').
- 11. RU WL unit. RIH w/ CBL and log from 4,750' to top of liner. Confirm that top of cement is no deeper than 3,000'. Contact engineer if top of cement is below 3,000' to discuss block squeeze.
- 12. RU WL unit. RIH with 5-1/2" CIBP. Set CIBP (+/-4769') just above Point Lookout perfs at 4792' and just below lowest Menefee perf at 4746'
- 13. RIH with 3-1/8" casing guns. Perforate Menefee formation (correlate to GR log), 373' gross, 20 spots @ 3 spf = 60 holes: 4746', 4735', 4727', 4719', 4667', 4657', 4650', 4643', 4623', 4605', 4582', 4565', 4505', 4499', 4484', 4472', 4460', 4455', 4432', 4373'.
- 14. RIH with 2-7/8" X 3-1/2" tapered frac string and 5-1/2" packer. Set packer at just below the bottom Cliffhouse perforations at 4290'. Top perf of Menefee is 4373'.
- 15. Spearhead 500 gal 15% HCL, establish injection rate, and proceed with fracture stimulation according to Schlumberger schedule. Maintain surface pressures ≤ 6000 psi

during frac job Flush frac with foam. Fill out GWSI scorecard.

- 16. Flowback frac immediately
- 17. Release packer and TOH with frac string and packer. LD frac string.
- 18. RU WL unit. RIH with 5-1/2" CIBP. Set CIBP at 3550'. Bottom perf of the Chacra formation is at 3486'.
- 19. RIH with 3-1/8" casing guns. Perforate Chacra formation (correlate to GR log), 205' gross, 15 spots @ 4 spf = 60 holes: 3691', 3677', 3663', 3649', 3642', 3630', 3623', 3616', 3610', 3558', 3529', 3506', 3498', 3492', 3486'.
- 20. RIH with tapered 3-1/2" X 2-7/8" tapered frac string and 5-1/2" packer. Set packer at +/-3349'.
- 21. Spearhead 500 gal 15% HCL, establish injection rate, and proceed with fracture stimulation according to Schlumberger schedule. Maintain surface pressures ≤ 5500 psi during frac job. Flush frac with foam. Fill out GWSI scorecard.
- 22. Flowback frac immediately.
- 23. Release packer and TOH with frac string and packer. LD frac string.
- 24. Clean out fill to top CIBP at 3349' and get flow test on new zone for regulatory.
- 25. TIH with tubing and bit. Cleanout fill and drill bridge plugs set at 3550' and 4769'. Cleanout fill to PBTD at 4899'. Blow well dry at PBTD.
- 26. Rabbit tubing and RIH with 2-3/8" production tubing (muleshoe sub, F-nipple for 2-3/8", 4 ft pup, X-nipple with plug in place for 2-3/8" tubing). Fill tubing with water while RIH and test to 500 psi or test with air unit to 500 psi if on location.
- 27. Land 2-3/8" production tubing at +/-4845'. ND BOP and NU WH. 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.
- 28. Swab down tubing or blow dry with air foam unit.
- 29. RU slickline unit. Run 1.9" OD gauge ring for 2-3/8" tubing. Pull plug. Flow well up tubing long enough to verify it will not log off. Set tubing stop for plunger. Communicate plunger equipment status to IC room personnel.
- 30. Test well for air.
- 31. Return well to production.

Storey LS #3

Sec 26 T28N, R8W API # 30-045-07094



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

<u>District III</u>

1000 Rio Brazos Rd., Aztec, NM 87410

District IV 2040 South Pacheco, Santa Fe, NM 87505 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

30-045-07094	82329	³ Pool Name Otero Chacra
⁴ Property Code 001133	⁵ Property Name Storey LS	⁶ Well Number
⁷ OGRID No. 000778	⁸ Operator Name BP America Production Company	[°] Elevation 6100' GR

UL or lot no. Unit M	Section 26	Township 28N	Range 08W	Lot Idn	Surface I Feet from 1050'	North/South South	Feet from 950'	East/West West	County San Juan
						Different I			
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 Or	der No.

NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED OR A

11/1	ON-STANDA	ARD UNIT HAS BEEN A	AT ROVED DT 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.
				Mary Corley
				Signature Mary Corley Printed Name
				Sr. Regulatory Analyst
		·		Title 04/29/2004
				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. 3/19/1957
950'				Date of Survey Signature and Seal of Professional Surveyor: G O Walker Certificate Number

District I

State of New Mexico Energy, Minerals and Natural Resources Department

Form C-107A Revised May 15, 2000

District II

District IV

811 South First Street, Arte

District III
1000 Rio Brazos Road

OIL CONSERVATION DIVISION

2040 South Pacheco Santa Fe, New Mexico 87505

APPLICATION TYPE X Single Well
Establish Pre-Approved Pools
EXISTING WELLBORE X Yes No

APPLICATION FOR DOWNHOLE COMMINGLING

BP Ame	rica	Pro	duction Company_	P. O. Box 3092	Housto	on, TX <i>77</i>	253			
Operator				Addres	s					
Storey	LS	3	Unit M	Section 26 T28N	N, R08W	7			San J	uan
Lease			Well No.	Unit Letter-Sec	tion-Townsh	ip-Range			County	
OGRID No.	000	77 <u>8</u>	Property Code <u>00113</u>	3 API No. 30-045	<u>-07094</u>	Lease Type	: <u>X</u>	Federal	State	Fee

DATA ELEMENT	UPPER ZONE	INTERMEDIATE ZONE	LOWER ZONE
Pool Name	Blanco Pictured Cliffs S.	Otero Chacra	Blanco Mesaverde
Pool Code	72439	82329	72319
Top & Bottom of Pay Section (Perforated or Open-Hole Interval)	2510' – 2565'	3486' - 3691	4206' – 4848'
Method of Production (Flowing or Artificial Lift)	Artificial Lift	Artificial Lift	Artificial Lift
Bottomhole Pressure	425	430	590
Oil Gravity or Gas BTU (Degree API or Gas BTU)	1164	1210	1226
Producing, Shut-In or New Zone	Producing	New Zone	Producing
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 Yes	
Are all produced fluids from all commingled zones compatible with each other?	YesX	No
Will commingling decrease the value of production?		
	Yes	No_X
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?	YesX_	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 informat	tion above is true and comple	te to the best of my knowledge and be	elief.		
SIGNATURE	TITLE	Sr. Regulatory Analyst	_DATE_	04/29/2004	
TYPE OR PRINT NAME	Mary Carley	TELEBUONE NO (191	366	4401	

Storey LS 3 Future Production Decline Estimate Mesaverde Daily Rates

109	Jan-2009		113	Dec-2005
109	Dec-2008		113	Nov-2005
109	Nov-2008		113	Oct-2005
109	Oct-2008		113	Sep-2005
109	Sep-2008		113	Aug-2005
110	Aug-2008		114	Jul-2005
110	Jul-2008		114	Jun-2005
110	May-2008		114	May-2005
110	Apr-2008		114	Apr-2005
110	Mar-2008		114	Mar-2005
110	Feb-2008		114	Feb-2005
110	Jan-2008		114	Jan-2005
110	Dec-2007		114	Dec-2004
110	Nov-2007		114	Nov-2004
111	Oct-2007		115	Oct-2004
111	Sep-2007		115	Sep-2004
111	Aug-2007		115	Aug-2004
111	Jul-2007		115	Jul-2004
111	Jun-2007		115	Jun-2004
111	May-2007		115	May-2004
111	Apr-2007		115	Apr-2004
111	Mar-2007		115	Mar-2004
111	Feb-2007		115	Feb-2004
112	Jan-2007	**	116	Jan-2004
112	Dec-2006		121	Dec-2003
112	Nov-2006		112	Nov-2003
112	Oct-2006		122	Oct-2003
112	Sep-2006		91	Sep-2003
112	Aug-2006		110	Aug-2003
112	Jul-2006	decline= -0.110634919	104	Jul-2003
112	Jun-2006	dt= -0.008583744	104	Jun-2003
112	May-2006	** time= 9	117	May-2003
113	Apr-2006	rate= 116	108	Apr-2003
113	Mar-2006		118	Mar-2003
113	Feb-2006	Qf= 116	114	Feb-2003
113	Jan-2006	In(Qf/Qi) = -dt	116	Jan-2003
Gas Volume	Month		Gas Volume	Month

Jan-2012	Dec-2011	Nov-2011	Oct-2011	Sep-2011	Aug-2011	Jul-2011	Jun-2011	May-2011	Apr-2011	Mar-2011	Feb-2011	Jan-2011	Dec-2010	Nov-2010	Oct-2010	Sep-2010	Aug-2010	Jul-2010	Jun-2010	May-2010	Apr-2010	Mar-2010	Feb-2010	Jan-2010	Dec-2009	Nov-2009	Oct-2009	Sep-2009	Aug-2009	Jul-2009	Jun-2009	May-2009	Apr-2009	Mar-2009	Feb-2009	Month
105	105	105	105	105	106	106	106	106	106	106	106	106	106	107	107	107	107	107	107	107	107	107	108	108	108	108	108	108	108	108	108	109	109	109	109	Gas Volume

4/28/2004

Storey LS 3 Future Production Decline Estimate Mesaverde Daily Rates

										Mar-2014 1																									Feb-2012 1
8	<u>8</u>	100	100	101	101	101	101	101	101	101	101	102	102	102	102	102	102	102	103	103	103	103	103	103	103	104	100	104	104	04	104	<u>2</u>	105	105	105
 Jan-2018	Dec-2017	Nov-2017	Oct-2017	Sep-2017	Aug-2017	Jul-2017	Jun-2017	May-2017	Apr-2017	Mar-2017	Feb-2017	Jan-2017	Dec-2016	Nov-2016	Oct-2016	Sep-2016	Aug-2016	Jul-2016	Jun-2016	May-2016	Apr-2016	Mar-2016	Feb-2016	Jan-2016	Dec-2015	Nov-2015	Oct-2015	Sep-2015	Aug-2015	Jul-2015	Jun-2015	May-2015	Apr-2015	Mar-2015	Feb-2015
95	95	95	95	95	96	96	96	96	96	96	96	97	97	97	76	97	97	97	86	98	86	98	86	98	98	99	99	99	99	66	99	99	100	100	100

Dec-2005	. Nov-2005	Oct-2005	Sep-2005	Aug-2005	Jul-2005	Jun-2005	May-2005	Apr-2005	Mar-2005	Feb-2005	Jan-2005	Dec-2004	Nov-2004	Oct-2004	Sep-2004	Aug-2004	Jul-2004	Jun-2004	May-2004	Apr-2004	Mar-2004	Feb-2004	Jan-2004	Dec-2003	Nov-2003	Oct-2003	Sep-2003	Aug-2003	Jul-2003	Jun-2003	May-2003	Apr-2003	Mar-2003	Feb-2003	Jan-2003	- Month - Gas
11	12	12	12	13	13	13	14	14	14	14	15	15	15	16	16	16	17	17	17	18	18	18	18	24	21	26	5	1	7	10	21	9	4	13	19	s Volume
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