Form 3160-5 (August 1999)

UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

FÓRM APPROVED OMB NO. 1004-0135 Expires: November 30, 2000
Serial No. M04208

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to re-enter an

abandoned wel	l. Use form 3160-3 (APD) fo	r such proposals.	6. If Indian, Allottee	or Tribe Name
SUBMIT IN TRI	PLICATE - Other instruction	/ h h		eement, Name and/or No.
1. Type of Well			8. Well Name and No	
Oil Well Gas Well Oth		JUA	MCCULLEY LS	<u> </u>
2. Name of Operator BP AMERICA PRODUCTION	CO E-Ma	RY CORLEYS ail: corleym@bp.com	9 API Well No. 30-045-07443-	-00-C1
3a. Address P. O. BOX 3092 HOUSTON, TX 77253	Ph	Phone No. (include area code : 281.366)4491 : 281.366.0700	AZTEC PC/ BL OTERO CHAC	ANCO MV
4. Location of Well (Footage, Sec., T	., R., M., or Survey Description)	ESP/200	11. County or Parish	, and State
Sec 14 T28N R9W NWSW 18 36.65971 N Lat, 107.76270 W		25.50	SAN JUAN CC	DUNTY, NM
12. CHECK APPR	ROPRIATE BOX(ES) TO IN	DICATE NATURE OF	NOTICE, REPORT, OR OTHI	ER DATA
TYPE OF SUBMISSION		ТҮРЕ О	F ACTION	
Notice of Intent	☐ Acidize	Deepen	☐ Production (Start/Resume)	☐ Water Shut-Off
_	☐ Alter Casing	☐ Fracture Treat	☐ Reclamation	□ Well Integrity
☐ Subsequent Report	☐ Casing Repair	■ New Construction	Recomplete	Other
Final Abandonment Notice	☐ Change Plans	Plug and Abandon	☐ Temporarily Abandon	Subsurface Comminging
_	Convert to Injection	Plug Back	☐ Water Disposal	··· 5
	can between these three Pool commingling approval. allocated based on the subtrate Pictured Cliffs and Mesaver racted from the total production uted to the Chacra. Attached fs & Mesaverde Pools. The subject well from the subject well from the subject well from the SULLAND CLIFF.	Pictured Cliffs and Blanco nitted to NMOCD s Santa s, therefore, no additiona ction method using the p de Pools. This production for the commingled we are the future production the proposed pools with	o Mesaverde a Fe Office for al notification projected future on shall serve ell. The balance n decline	
14. I hereby certify that the foregoing is	Electronic Submission #2989	ODUCTION CO, sent to th	e Farmington	
Name (Printed/Typed) MARY CC		· ·	ORIZED REPRESENTATIVE	
Signature (Electronic S	Submission)	Date 04/22/2	2004	
	THIS SPACE FOR F	EDERAL OR STATE	OFFICE USE	——————————————————————————————————————
CONDITIONS OF A	PPROVAL			16/3/04
Approved Ashere to previously issu	· — + + · · · · · · · · · · · · · · ·	 1	tr. Esc.	(C) 3/64
Conditions of approval, if any, are attached certify that the applicant holds legal or equivalent would entitle the applicant to condition to condition the applicant to condition to condition the applicant the applicant to condition the	uitable title to those rights in the sub uct operations thereon.	Office	NMOCD	
Title 18 U.S.C. Section 1001 and Title 43 States any false, fictitious or fraudulent	U.S.C. Section 1212, make it a crim statements or representations as to an	e for any person knowingly an ny matter within its jurisdiction	d willfully to make to any department	or agency of the United

Additional data for EC transaction #29895 that would not fit on the form

32. Additional remarks, continued

value of the total remaining production.

District I 1625 N. French Drive, Hobbs, NM 88240

State of New Mexico
Energy, Minerals and Natural Resources Department

Form C-107A Revised May 15, 2000

APPLICATION TYPE

District II

811 South First Street, Artesia, NM 88210

District III

OIL CONSERVATION DIVISION

2040 South Pacheco Santa Fe, New Mexico 87505 X Single Well
Establish Pre-Approved Pools

District IV		White Commincian	EXISTING WELLBORE												
2040 South Pacheco, Santa Fe, NM 87505	AFFLICATION FOR DOV	WNHOLE COMMINGLING	_X_Yes No												
BP America Production	Company P. O. Box 309		····												
McCulley LS 2	Unit L Section 14 T28	N. R09W													
OGRID No. 000778 Property		, ,	•												
DATA ELEMENT	Address Acculley LS 2 Unit L Section 14 T28N, R09W RID No. 000778 Property Code 000911 API No. 30-045-07443 Lease Type: X Federal State Fee DATA ELEMENT UPPER ZONE INTERMEDIATE ZONE LOWER ZONE I Name Aztec Pictured Cliffs Otero Chacra Blanco Mesaverde Code 71280 82329 72319 B Bottom of Pay Section forated or Open-Hole Interval) B Bottom of Production Artificial Lift Artificial Lift Artificial Lift Artificial Lift was go Artificial Lift tomhole Pressure 280 430 490 Gravity or Gas BTU 1267 1210 1267 ducing, Shut-In or W Zone Producing New Zone Producing e and Oil/Gas/Water Rates attes: and Allocation Percentage Oil Gas % % % % % % ADDITIONAL DATA all working, royalty and overriding royalty interests identical in all commingled zones? Yes X No														
Pool Name	McCulley LS 2 Unit L Section 14 T28N, R09W Well No. Unit Letter-Section-Township-Range County RID No. 000778 Property Code 000911 API No. 30-045-07443 Lease Type: X Federal State Fee DATA ELEMENT UPPER ZONE INTERMEDIATE ZONE LOWER ZONE DATA ELEMENT UPPER ZONE INTERMEDIATE ZONE LOWER ZONE DI Name Aztec Pictured Cliffs Otero Chacra Blanco Mesaverde Al Code 71280 82329 72319 2244' - 2302' 3210' - 3380 4875' - 5068' forated or Open-Hole Interval) thod of Production wing or Artificial Lift Artificial Lift Artificial Lift formhole Pressure 280 430 490 Gravity or Gas BTU 1267 1210 1267 ducing, Shut-In or w Zone Producing New Zone Producing e and Oil/Gas/Water Rates ast Production. Rates: Date: Rates: Rates: Rates: Rates: Date: Rates:														
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Top & Bottom of Pay Section (Perforated or Open-Hole Interval)	Artificial Lift Gravity or Gas BTU ducing, Shut-In or w Zone Producing Date: Rates: Artificial Gas Date: Rates: Artificial Gas Date: Rates: Artificial Gas Date: Rates: Cas Bottom of Pay Section 12244' - 2302' 3210' - 3380 4875' - 5068' 4875' - 5068' Artificial Lift Artificial														
Method of Production (Flowing or Artificial Lift)	Artificial Lift	Artificial Lift	Artificial Lift												
Bottomhole Pressure	280	430	490												
Oil Gravity or Gas BTU (Degree API or Gas BTU)	oducing, Shut-In or ew Zone Producing New Zone Producing New Zone Producing Date: Date:														
Producing, Shut-In or	oducing, Shut-In or tw Zone Producing New Zone Producing New Zone Producing New Zone Producing Date: Rates: Rates: Code Allocation Percentage Oil Gas Oil Gas Oil Gas														
New Zone	thod of Production wing or Artificial Lift Artificial Li														
Date and Oil/Gas/Water Rates of Last Production.	oducing, Shut-In or Ew Zone Producing New Zone Producing New Zone Producing Date: Rates: Date: Rates: Rates: R														
Rates: Rates:															
Producing New Zone Producing Date: Rates: Date: Rates: Date: Rates: Date: Rates: Date: Rates: ADDITIONAL DATA															
Are all working, royalty and overrid	by the pressure between the producing of the producing of the pressure and Oil/Gas/Water Rates Last Production. Comparison of the producing														
If not, have all working, royalty and	overriding royalty interest owners bee	en notified by certified mail?	Yes No												
Are all produced fluids from all com	nmingled zones compatible with each o	other?	Yes_X_ No												
Will commingling decrease the valu	e of production?														
			Yes No X												
	with, state or federal lands, has either the Management been notified in writing		Yes No												
NMOCD Reference Case No. applic	cable to this well:														
Production curve for each zone for zones with no production his Data to support allocation metho Notification list of working, roy	ningled showing its spacing unit and action at least one year. (If not available, story, estimated production rates and sold or formula. alty and overriding royalty interests for of the comments required to support comments.	attach explanation.) upporting data. r uncommon interest cases.													
	PRE-APPRO	VED POOLS													
If application	is to establish Pre-Approved Pools, th	e following additional information wi	ll be required:												
List of all operators within the propo	hole commingling within the proposed osed Pre-Approved Pools oposed Pre-Approved Pools were prov	••													
I hereby certify that the informat	ion above is true and complete to t	he best of my knowledge and belie	ef.												
SIGNATURE	TITLESr.	. Regulatory Analyst	DATE 04/22/2004												

TYPE OR PRINT NAME Mary Corley TELEPHONE NO. (281) 366-4491

Acculley LS

Future Production Decline Estimate

Mesaverde Daily Rates

Gas Volume

Jan-2003

100						_									L				L.:									L		Ĺl	
Month		Feb-2006	Mar-2006	Apr-2006	May-2006	Jun-2006	Jul-2006	Aug-2006	Sep-2006	Oct-2006	Nov-2006	Dec-2006	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	4
	In(Qf/Qi) = -dt		Qi= 149	rate= 147	time= 8	dt= -0.013513719	decline= -0.24831459																								

Apr-2004 May-2004 Jun-2004 Jul-2004

Mar-2004

Feb-2004

Aug-2004 Sep-2004 Oct-2004 Nov-2004 Dec-2004

Jan-2005 Feb-2005 Mar-2005

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144 150 139 147 126

Aug-2003 Sep-2003

Oct-2003 Nov-2003 Dec-2003 Jan-2004

160 151

Jun-2003 Jul-2003

Apr-2003 May-2003

Mar-2003

Feb-2003

Gas Volume	111	111	110	110	110	110	109	109	109	109	108	108	108	108	107	107	107	107	106	106	106	106	105	105	105	105	104	104	104	104	103	103	103	103	102
	6	6	6	6	6	6	6	6	6	6	6	0	0	0	0	0	0	0	0	0	0	0	0	-	1	1	-	1	1	1	1	1	1	1	1
Month	eb-200	Mar-200	Apr-200	May-2009	Jun-200	Jul-200	ug-2009	Sep-2009	Oct-2009	Nov-200	Dec-2009	Jan-201	Feb-201	Mar-201	Apr-201	May-201	Jun-201	Jul-201	ug-201	Sep-201	Oct-201	Nov-201	Jec-201	Jan-201	eb-201	Mar-201	Apr-201	lay-201	un-201	Jul-201	ug-201	Sep-201	Jct-201	Nov-201	100-201
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Aug-2008 Sep-2008 Oct-2008 Nov-2008

122 121

Apr-2005 May-2005

Jun-2005 Jul-2005 Aug-2005 Sep-2005 Oct-2005

Nov-2005 Dec-2005

Dec-2008 Jan-2009

McCulley LS 2

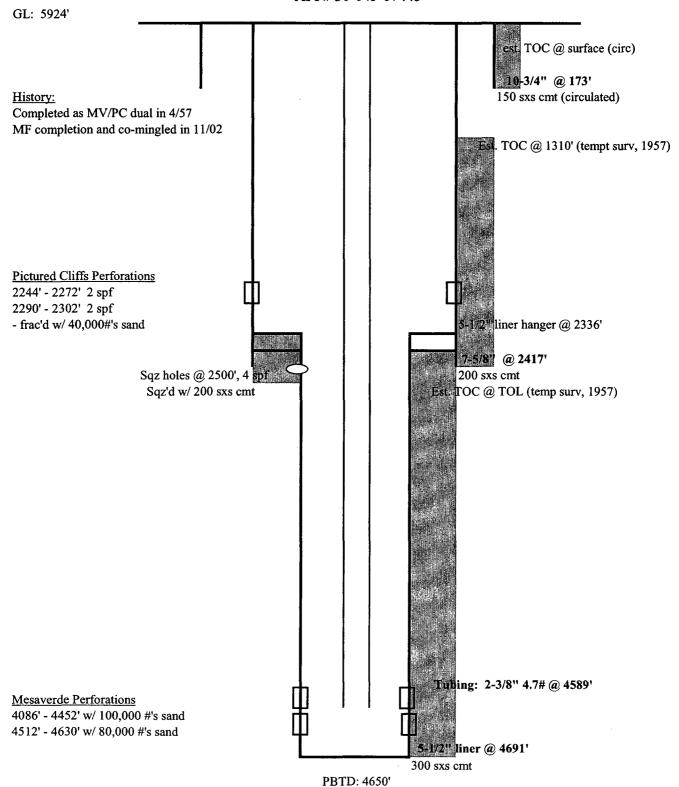
Future Production Decline Estimate Mesaverde Daily Rates

<u>88</u> 88 88 88 88 88 88 88 88 88 88 88 88	99 98 98 98 98 98 97 97	97
	Jan-2014 Mar-2014 Apr-2014 May-2014 Jun-2014 Jul-2014 Sep-2014 Oct-2014 Dec-2014	Jan-2015

Gas Volume	97	97	97	96	96	96	96	96	96	96	36	36	95	95	36	95	96	76	94	94	94	94	94	94	93	93	93	93	66	93	93	92	92	92	92	92
Month	rep-2015	Mar-2015	Apr-2015	May-2015	Jun-2015	Jul-2015	Aug-2015	Sep-2015	Oct-2015	Nov-2015	720	Jan-2016	-20	Mar-2016	-20	-50	20-۱	-20	-20	-20	50	Nov-2016	Dec-2016	an-20	Feb-2017	Mar-2017	Apr-2017	May-2017	Jun-2017	Jul-2017	Aug-2017	Sep-2017	Oct-2017	Nov-2017	-201	Jan-2018

McCulley LS #2

Sec 14, T28N, R9W API # 30-045-07443



- 16. Pressure test tubing to 500 psi with rig pumps.
- 17. Swab down tubing with sandline.
- 18. RU SL unit. Run gauge ring for 2-3/8" tubing. Pull plug and set tubing stop for plunger. RD slickline unit.
- 19. ND BOP's. NU WH. Test well for air. Return well to production and downhole tri-mingle PC, Chacra, and Mesaverde.

McCulley LS 2 Complete into the Chacra, Downhole Tri-mingle Pictured Cliffs, Chacra, & Mesaverde

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, or plug set in nipple) for isolation.
- 6. TOH with 2-3/8" production tubing currently set at 4589'.
 - <u>Contingency:</u> If the tubing is in poor condition, replace entire tubing string.
- 7. TIH w/ bit and scraper for 4-1/2" casing to PBTD at 4650'. Work casing scraper across Mesaverde perforations from 4086' 4630' and proposed Chacra interval from 3200 3400'.
- 8. RU WL unit. RIH with 4-1/2" CIBP. Set CIBP at 3900'.
- 9. RIH with 3-1/8" casing guns. Perforate Chacra formation (correlate to GR log).

Chacra perforations, 2 spf (15 shots/30 holes): 3210, 3212, 3214, 3216, 3236, 3237, 3238, 3321, 3325, 3331, 3340, 3348, 3360, 3375, 3380'.

- 10. TIH w/ 4-1/2" packer and frac string. Set packer at 2400'.
- 11. 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.
- 12. Flowback frac immediately.
- 13. TIH with tubing and bit for 4-1/2" casing. Cleanout fill and drill bridge plug set at 3900'. Cleanout to PBTD at 4650'. Blow well dry.
- 14. Rabbit tubing and RIH with 2-3/8" production tubing (with a muleshoe and X-nipple with blanking plug). Fill tubing with KCL water while RIH.
- 15. Land 2-3/8" production tubing at 4580'.

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

1000 Rio Brazos Rd., Aztec, NM 87410

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

District IV 2040 South Pacheco, Santa Fe, NM 87505

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-045-07443	² Pool Code 82329	³ Pool Name Otero Chacra
⁴ Property Code 000911	⁵ Property Name McCulley LS	* Well Number
⁷ OGRID No. 000778	⁸ Operator Name BP America Production Compa	y Elevation 5924' GR

¹⁰ Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from	North/South	Feet from	East/West	County
Unit L	14	28N	09W		1850'	South	1090'	West	San Juan
			11 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
						<u> </u>			
12 Dedicate		¹³ Joint o	r Infili		¹⁴ Consolidation (Code		15	Order No.
160)			•					

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

NON-STANDA	<u>ARD UNIT HAS BEEN A</u>	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.
		Mary Corley
		Signature Mary Corley
		Printed Name Sr. Regulatory Analyst
		Title 04/22/2004
1090'		18SURVEYOR 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. 1/15/1957
1850		Date of Survey Signature and Seal of Professional Surveyor:
		E S Oberly Certificate Number

McCulley LS 2

Future Production Decline Estimate

Pictured Cliffs Daily Rates

Month

Jan-2003 Feb-2003 Mar-2003 Apr-2003 May-2003 Jul-2003 Aug-2003 Sep-2003

Jun-2003

me	101	101	101	100	100	100	100	99	99	66	66	98	98	98	98	97	6	97	97	96	96	96	96	95	95	95	95	94	94	94	94	93	93	93	93	92
No																																				
Gas Volume																																				
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WILL WILL WILL WILL WILL WILL WILL WILL	n-20	5-20	r-20(r-200	y-200	1		17171	7.7		1,1	X	n-200	b-200	r-200	r-200	y-200	n-200	ıl-200	g-200	p-200	t-200	v-200	ייי	[X	\mathcal{I}	?	1-2	ıl-20	','	ויייו	t-20	3	c-20	1 - 20
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Mar-2004 Apr-2004

May-2004 Jun-2004

Aug-2004

Sep-2004

Jul-2004

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Oct-2009 Nov-2009 Dec-2009

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Mar-2009 Apr-2009 May-2009 Jun-2009 Jul-2009 Aug-2009

Feb-2009

Mar-2010 Apr-2010 May-2010 Jun-2010 86

Jan-2011

Oct-2004 Nov-2004 Dec-2004 Jan-2005

Feb-2005 Mar-2005 Apr-2005 May-2005 Jun-2005 Jul-2005

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Jan-2012

Dec-2011

Nov-2011

Oct-2011

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Aug-2005 Sep-2005

Oct-2005 Nov-2005 Dec-2005

Acculley LS

Future Production Decline Estimate Pictured Cliffs Daily Rates

Month	Feb-2015	Mar-2015	Apr-2015	May-2015	Jun-2015	Jul-2015	Aug-2015	Sep-2015	Oct-2015	Nov-2015	Dec-2015	Jan-2016	Feb-2016	Mar-2016	Apr-2016	May-2016	Jun-2016	Jul-2016	Aug-2016	Sep-2016	Oct-2016	Nov-2016	Dec-2016	Jan-2017	Feb-2017	Mar-2017	Apr-2017	May-2017	Jun-2017	Jul-2017	Aug-2017	Sep-2017	Oct-2017	Nov-2017	Dec-2017	Jan-2018	
Sas Volume	83	83	83	83	83	83	82	82	82	82	82	82	82	81	81	81	81	81	81	81	80	80	80	80	80	80	80	79	79	79	79	79	79	79	8	78	
- Month Gas	Feb-2012	Mar-2012	Apr-2012	May-2012	Jun-2012	Jul-2012	Aug-2012	Sep-2012	Oct-2012	Nov-2012	Dec-2012	Jan-2013	Feb-2013	Mar-2013	Apr-2013	May-2013	Jun-2013	Jul-2013	Aug-2013	-201	Oct-2013	Nov-2013	Dec-2013	Jan-2014	Feb-2014	Mar-2014	Apr-2014	May-2014	Jun-2014	Jul-2014	Aug-2014	Sep-2014	Oct-2014	Nov-2014	Dec-2014	Jan-2015	

Page 2