BP America Production Company

Cherry Hlava Regulatory Analyst

501 Westlake Park Boulevard, Rm 19.178 Houston, Texas 77079

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	8
April 25, 2006	APR
	26
New Mexico Oil Conservation Division 1220 South St. Francis Dr.	РШ
P.O. Box 6429	
Santa Fe, NM 87505	31

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Wil,

This is the Tri-mingle that Mary Corley sent March 5 but never was received by your office.

There is a rig scheduled to move on around May 22.

Should you see a problem please call me.

Sincerely,

horry Hlava

Cherry Hlava Regulatory Analyst 281-366-4081



4	Initae.		
DATE IN	26/06	SUSPENSE WITH JONES LOGGED IN 4/26/05 PIPE DHC APP NO.	DTD50611654182
¢		ABOVE THIS LINE FOR DIVISION USE ONLY NEW MEXICO OIL CONSERVATION DIVISION - Engineering Bureau - 1220 South St. Francis Drive, Santa Fe, NM 87505	
		ADMINISTRATIVE APPLICATION CHECKLIST	Г
	ation Ac i NSL-Na DHC	IST IS MANDATORY FOR ALL ADMINISTRATIVE APPLICATIONS FOR EXCEPTIONS TO DIVISION RULE WHICH REQUIRE PROCESSING AT THE DIVISION LEVEL IN SANTA FE ronyms: Dn-Standard Location] [NSP-Non-Standard Proration Unit] [SD-Simultaneous I C-Downhole Commingling] [CTB-Lease Commingling] [PLC-Pool/Lease Co [PC-Pool Commingling] [OLS - Off-Lease Storage] [OLM-Off-Lease Measur [WFX-Waterflood Expansion] [PMX-Pressure Maintenance Expansion] [SWD-Salt Water Disposal] [IPI-Injection Pressure Increase] R-Qualified Enhanced Oil Recovery Certification] [PPR-Positive Production	Dedication] mmingling] rement]]
[1]		DF APPLICATION - Check Those Which Apply for [A] [A] Location - Spacing Unit - Simultaneous Dedication [A] NSL NSP [A] NSL NSP [A] NSL Spacing Unit - Simultaneous Dedication [A] NSL SP [A] NSL SP [B] NSL Storage - Measurement [B] Commingling - Storage - Measurement OLS [C] Injection - Disposal - Pressure Increase - Enhanced Oil Recovery [C] WFX PMX [D] Other: Specify	* 2006 APR 26 PM 1 31
[2]		ICATION REQUIRED TO: - Check Those Which Apply, or Does Not Apply [A] Working, Royalty or Overriding Royalty Interest Owners [B] Offset Operators, Leaseholders or Surface Owner [C] Application is One Which Requires Published Legal Notice [D] X Notification and/or Concurrent Approval by BLM or SLO U.S. Bureau of Land Management - Commissioner of Public Lands, State Land Office [E] For all of the above, Proof of Notification or Publication is Attached [F] Waivers are Attached	l, and/or,
[3]	SURMI	T ACCURATE AND COMPLETE INFORMATION REQUIRED TO PRO	CESS THE TVDE

[5] SUBMIT ACCURATE AND COMPLETE INFORMATION REQUIRED TO PROCESS THE TYPE OF APPLICATION INDICATED ABOVE.

[4] **CERTIFICATION:** I hereby certify that the information submitted with this application for administrative approval is **accurate** and **complete** to the best of my knowledge. I also understand that **no action** will be taken on this application until the required information and notifications are submitted to the Division.

Note: Statement must be completed by an individual with managerial and/or supervisory capacity.

Mary Corley Print or Type Name

Cherd.	uillava
Signature	7'

Sr. Regulatory Analyst	03/14/2006
Title	Date
_corleyml@bp.com	
a mail A damas	

e-mail Address

District I	state of l	New Mexico	Form C-107A
1625 N. French Drive, Hobbs, NM 88240		Natural Resources Department	Revised May 15,
2000		-	
District II			
811 South First Street, Artesia, NM 88210		RVATION DIVISION	APPLICATION TYPE
District III 1000 Rio Brazos Road, Aztec, NM 87410	2040 South Pa		\underline{X} Single Well
Pools	Santa Fe, N	lew Mexico 87505	Establish Pre-Approved
District IV			BXISTING WELLBORE
2040 South Pacheco, Santa Fe, NM 87505	APPLICATION FOR DO	WNHOLE COMMINGLING	$X_Yes _No$
		- D(1-3-	70()
BP America Production	Company P. O. Box 309	2 Houston TX 77253	
Operator		ddress	
Warren A LS 1	Unit K Section 24 T28		<u>San Juan</u>
Lease		-Section-Township-Range	County
OGRID No. 000778 Property	Code <u>001210</u> API No. <u>30-04</u>	5-07142 Lease Type: <u>X</u> F	Federal State Fee
DATA ELEMENT	UPPER ZONE	INTERMEDIATE ZONE しかけビン、	LOWER ZONE
Pool Name	Blanco PC South	Otero Chacra	Blanco Mesaverde
Pool Code	72439	82329	72319
Top & Bottom of Pay Section (Perforated or Open-Hole Interval)	2118' - 2170'	TBD	4346' - 4488'
Method of Production (Flowing or Artificial Lift)	Artificial Lift	Artificial Lift	Artificial Lift
Bottomhole Pressure	425	430	570
Oil Gravity or Gas BTU (Degree API or Gas BTU)	1240	1210	1240
Producing, Shut-In or			
New Zone	Producing	New Zone	Producing
Date and Oil/Gas/Water Rates	Date:	Date:	Date:
of Last Production.	Rates:	Rates:	Rates:
Fixed Allocation Percentage	Oil Gas	Oil Gas	Oil Gas
	% %	% %	% %
	ADDITIO	NAL DATA	
A	ling royalty interests identical in all co	i	V V N-
	overriding royalty interest owners bee	0	Yes_X_ No Yes No
Are all produced fluids from all con	nmingled zones compatible with each of	other?	
•	C		Yes_X_ No
Will commingling decrease the value	le of production?		
			Yes NoX
	with, state or federal lands, has either the Management been notified in writing		V V XI
of the Office States Bureau of Land	Management been notified in writing	or uns application?	Yes_X_ No
NMOCD Reference Case No. applie	cable 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.

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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 information above is true and complete to the best of my knowledge and belief.

SIGNATURE Mary Corlay / CCH	_TITLE	Sr. Regulatory Analyst	_DATE_	03/05/2006
TYPE OR PRINT NAME <u>Mary Corley</u>) 366-	4491

Allocation Method Warren A LS 1

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BP America Production Company request permission to complete the subject well into the Otero Chacra and tri-commingle production downhole with the existing South Blanco Pictured Cliffs and Blanco Mesaverde Pools as per the attached procedure.

The interest owners are identical between these three Pools, therefore, no additional notification is required prior to downhole commingling approval.

Production is proposed to be allocated based on the subtraction method using the projected future decline for production from the Pictured Cliffs and Mesaverde Pools. This 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 are the future production decline estimates for the Pictured Cliffs & Mesaverde Pools.

Commingling Production Downhole in the subject well from the proposed pools with not reduce the value of the total remaining production.

Application has also been submitted to BLM on Form 3160-5, Federal Lease No. SF - 077123

Pre Approved Pools: Blanco-Mesaverde (72319) & South Blanco Pictured Cliffs (72439) Pools Blanco-Mesaverde (72319) & Otero-Chacra (82329) Pools South Blanco Pictured Cliffs (72439) & Otero-Chacra (82329) Pools

Warren A LS 1 API #: 30-045-07142 Complete into the Chacra and downhole tri-mingle PC, Chacra, and Mesaverde March 14, 2006

- 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 strings.
- 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, shut-in pipe rams, remove stripping rubber. Strip tubing hanger OOH. Re-install stripping rubber.
- 10. TOH and LD 1-1/4" EUE production tubing currently set at 2190'. Using approved "Under Balance Well Control Tripping Procedure".
- 11. TOH w/ packer and 2-3/8" production tubing currently set at 4505'. Using approved "Under Balance Well Control Tripping Procedure".
- 12. 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 4,519'. POOH.
- 13. TIH w/ scraper for 7". 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 TOL at 3,587'. POOH.

- 14. Set bridge plug at 4,300'. Fill casing w/ 2%KCl from the bottom to PC (2170').
- 15. RU E-line equipment. Pressure test lubricator and equipment. Log well w/ CBL from 4,300' to 2000'. Contact Jesse Gracia after determining TOC to discuss packer placement or remedial cement squeeze.
- 16. TIH w/ workstring and blow well dry in order to perforate underbalanced.
- 17. 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. Meeting should address the VDR (vehicle data recorder) System that Bp people have installed on their vehicles. They must be shut off at the 300 foot sign by hitting 00 and then the enter button, and then wait for about 5 minutes for the unit to turn off. When the green light goes out, call the control center at 326-9475. This number is on a pickup list in the Optimizer room and should be your first point of contact followed by the front desk then the weekend pager. Verify the unit is not transmitting. You then can drive to location and park, but do not to exceed 10 Miles/hr. Note: 20 MPH will turn unit back on. If someone has On Star on their vehicle they cannot enter closer than 300 foot. On Star cannot be turned off. PLEASE take special caution. This is in conjunction with all cell phones, pagers, radios and any electronic devise that transmits a signal.
- 18. RIH with 3-3/8" casing guns w/lubricator and necessary weight bars above perforating guns. Perforate Menefee formation. (60 Holes Total)

2 SPF:

- 19. RIH w/ 3-1/2" by 2-7/8" tapered string and packer. Set packer at +/-3900'.
- 20. 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 5,000 psi during frac job. Flush frac with foam. Fill out GWSI scorecard.
- 21. Set bridge plug at 3900'
- 22. RIH with 3-3/8" casing guns w/lubricator and necessary weight bars above perforating guns. Perforate Chacra formation. (60 Holes Total)

2 SPF:

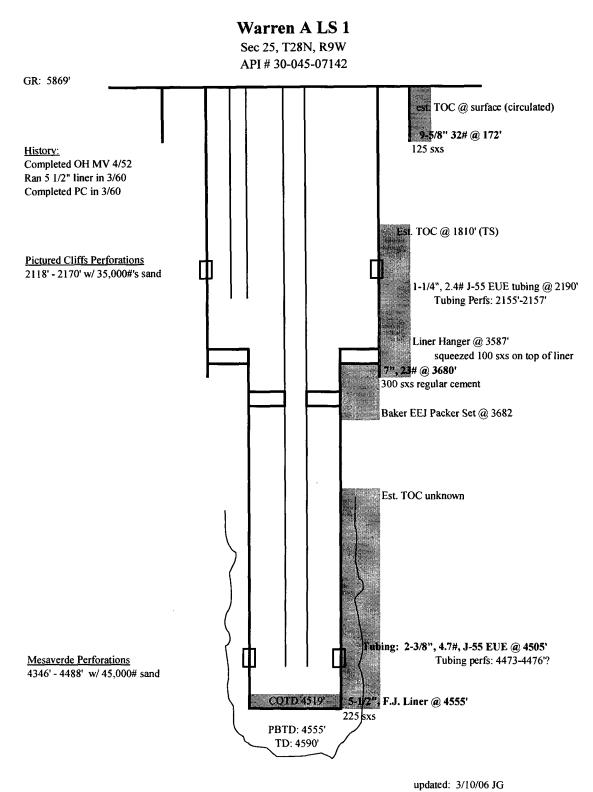
- 23. RIH w/ 3 ¹/₂" frac string and packer. Set packer at +/- 2,220'
- 24. Install and monitor production casing and treating pressure during entire job in frac van via pressure transducers on production casing and treating line. Spearhead 500 gal 15% HCL, establish injection rate, and proceed with fracture stimulation according to Schlumberger

schedule. Maintain surface pressures less than 5,000 psi during frac job. Flush frac with foam. Fill out GWSI scorecard.

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- 25. 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.
- 26. TOH w/ frac string and packer.
- 27. 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 3,900'.
- 28. RIH w/ frac string and packer. Set packer at +/-2200' and perform 4-6hr flow test on Chacra and document in DIMS. Contact Mary (281-366-4491) after DIMS input is complete.
- 29. TOH w/ frac string and packer.
- 30. TIH w/ tubing and bit for 4-1/2" casing. Drill through BP set at 3,900'. Drill through BP set at 4,300'. Cleanout to PBTD at 4,519'. Blow well dry.
- 31. Rabbit tubing and RIH with 2-3/8" production tubing (with muleshoe, F-nipple with plug, 4 ft pup, X-nipple with plug).
- 32. Land 2-3/8" production tubing at +/-4,430'. Lock down hanger.
- 33. 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.
- 34. 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.
- 35. 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.
- 36. RD slickline unit.
- 37. Test well for air. Return well to production and downhole tri-mingle PC, Chacra and Mesaverde.



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Comments: Rubber tubing joints 2104' - 2134' & 2141'-2171' Class B tubing below packer 4

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

WELL LOCATION AND ACREAGE DEDICATION PLAT

³ Pool Name ¹API Number ² Pool Code 82329 **Otero Chacra** 30-045-07142 ⁴ Property Code ⁵ Property Name ⁶ Well Number 001210 Warren A LS 1 OGRID No. ⁸ Operator Name ⁹ Elevation 000778 **BP America Production Company** 5869' GR

¹⁰ Surface Location

UL or lot no.	Section	Township	Range	Lot ldn	Feet from	North/South	Feet from	East/West	County
Unit K	25	28N	09W		1850	South	1650	West	San Juan
			"Bottc	m Hole J	Location If	Different F	from Sur	face	
UL or lot no.	Section	Township	Range	Lot Idn	Feet from	North/South	Feet	East/West	County
			<u> </u>	<u> </u>	L'				
¹² Dedicate		¹³ Joint of	r Infill	1 '	¹⁴ Consolidation C	ode		15	⁵ Order No.
160)			1					

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 Printed Name Sr. Regulatory Analyst Title 3/15/2006 Date
 Isource and correct to the best of my belief. Date On File Date of Survey Signature and Seal of Professional Surveyor:
Certificate Number

Form C-102 Revised August 15, 2000

OIL CONSERVATION DIVISION 2040 South Pacheco Santa Fe, NM 87505

State of New Mexico

Energy, Minerals & Natural Resources Department

Submit to Appropriate District Office State Lease - 4 Copies Fee Lease - 3 Copies

AMENDED REPORT

Warren A LS 1 Future Production Decline Estimate Pictured Cliffs Daily Rates

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Gas Volume	28	37	27	36	15	18	20	17	76	61	51	45	45	45	44	44	44	44	43	43	43	43	42	42	42	42	41	41	41	41	41	40	40	40	
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Screen St.	-200	<u>0-200</u>	r-200	r-200	y-200	1-200	I-200	g-200	<u> -200</u>	:t-200	20	1	57	1	2	r-200	y-200	I-200	<u> -200</u>	o-200	:t-200	1	c-200	1	1	3	2	5	200-ר	I-200	J-200	2	t-200	/-200	c-2009	-201
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Gas Voluthe	32	32	32	32	32	31	31	31	31	31	30	30	30	30	30	30	30	29	29	29	29	29	29	28	28	28	28	28	28	27	27	27	27	27
Month Feb-2010	Mar-2010 Apr-2010	y-201	1-201	Jul-2010	J-201	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	N	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

Warren A LS 1 Future Production Decline Estimate Pictured Cliffs Daily Rates

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Gas Volume 27	27	26	26	26	26	26	26	26	25	25	25	25	25	25	25	24	24	24	24	24	24	24	24	23	23	23	23	23	23	23	23	22	22	22	22
Month Feb-2013	Mar-2013	Apr-2013	May-2013	Jun-2013	-201	Aug-2013	-201	-201	Nov-2013	-201	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	o-201	Mar-2015	Apr-2015	-201	Jun-2015	Jul-2015	-201	Sep-2015	-201	Nov-2015	Dec-2015	Jan-2016

Gas Volume	77	22	22	22	21	21	21	21	21	21	21	21	21	20	20	20	20	20	20	20	20	20	19	19			19					19		18		18
Aonth	201		-201	-	Jun-2016	Jul-2016	-201	-201	-201	Nov-2016	-201	-201	-201	201	2	-20	2	-201	-201	-201	-201	-201	5-201	1-201	-201	r-201	r-201	ay-201	Jun-2018	-201	-201	Sep-2018	-201	Nov-2018	c-201	Jan-2019

4/25/2006

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Warren A LS 1 Future Production Decline Estimate

Mesaverde Daily Rates

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Jan-2004	Feb-2004	Mar-2004	Apr-2004	May-2004	Jun-2004	Jul-2004	Aug-2004		Oct-2004	Nov-2004	Dec-2004	Jan-2005	Feb-2005	Mar-2005	Apr-2005	May-2005	Jun-2005	Jul-2005	Aug-2005	Sep-2005	Oct-2005	111	Dec-2005	Jan-2006		Mar-2006	Apr-2006	May-2006	Jun-2006	Jul-2006	Aug-2006	Sep-2006	Oct-2006	Nov-2006	Dec-2006

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Gas Volume 29	29	29	28	28	28	28	27	27	27	27	27	26	26	26	26	25	25	25	25	25	24	24	24	24	24	23	23	23	23	23	23	22	22	22	22
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	lΥ	May-2008	Jul-2008	Aug-2008	N.	$\left \mathbf{Q} \right $	Nov-2008	Ņ	Jan-2009	[1]	Mar-2009		P	Jun-2009	Jul-2009	Aug-2009	lΥ.	Oct-2009	Nov-2009	X	Jan-2010

Gas Volume 22 21	21	21	21	21	20	20	20	20	20	19	19	19	19	19	19	19	18	18	18	18	18	18	18	17	17	17	17	17	17	17	16	16
Month Feb-2010 Mar-2010	Apr-2010 Mav-2010	-201	Jul-201	-201		Nov-2010	-201	-201	-201	Mar-2011	-201	May-2011	Jun-2011	Jul-2011		2	-201	-201	-201	Jan-2012	-20	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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Warren A LS 1 Future Production Decline Estimate Mesaverde Daily Rates

ne	16			10	16	16	15			15			15	15	4	14	14	14	14	14	14	14		13		13						13	12	12	12	2
Gas Volume																																				
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Mont	Feb-2	Mar-2	Apr.	May-2	Jun-2	Jul-	Aug-2	Sep-2	Oct-	Nov-	Dec-2	Jan-2	Feb-2	Mar-2	Apr-2	May-2	Jun-	Jul-2	Aug-2	Sep-2	Oct-2	Nov-2	Dec-2	P.2.	Feb-2	Mar-2	Apr-2	May-2	2-unf	Jul-2	Aug-2	Sep-2	Oct-2	Nov-2	Dec-2	Jan-2

Sas Volume	12	12	12	12			11	11	11	11	11	11	11	11	11	10	10	10	10	10	10	10	10	10	10	10	10	6	6	6	6	6	6
Month (Feb-2016	i R I	-201	20	201	Aug-2016	201	-201	-201	-201	Feb-2017	Mar-2017	Apr-2017	\vec{P}	Jun-2017	2	Aug-2017	Sep-2017	Oct-2017	-20	-20	Jan-2018	-20	ar-20	r-20		Jun-2018	Jul-2018	-20	8	-20	-20	-201	Jan-2019

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