

DATE IN 1/12/07	SUSPENSE	ENGINEER WVT	LOGGED IN LR	TYPE DAC	APP NO. PLR0332838295
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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

THIS CHECKLIST IS MANDATORY FOR ALL ADMINISTRATIVE APPLICATIONS FOR EXCEPTIONS TO DIVISION RULES AND REGULATIONS WHICH REQUIRE PROCESSING AT THE DIVISION LEVEL IN SANTA FE

Application Acronyms:

[NSL-Non-Standard Location] [NSP-Non-Standard Proration Unit] [SD-Simultaneous Dedication]
 [DHC-Downhole Commingling] [CTB-Lease Commingling] [PLC-Pool/Lease Commingling]
 [PC-Pool Commingling] [OLS - Off-Lease Storage] [OLM-Off-Lease Measurement]
 [WFX-Waterflood Expansion] [PMX-Pressure Maintenance Expansion]
 [SWD-Salt Water Disposal] [IPI-Injection Pressure Increase]
 [EOR-Qualified Enhanced Oil Recovery Certification] [PPR-Positive Production Response]

[1] TYPE OF APPLICATION - Check Those Which Apply for [A]

[A] Location - Spacing Unit - Simultaneous Dedication
☐ NSL ☐ NSP ☐ SD

Check One Only for [B] or [C]

[B] Commingling - Storage - Measurement
☒ DHC ☐ CTB ☐ PLC ☐ PC ☐ OLS ☐ OLM
 [C] Injection - Disposal - Pressure Increase - Enhanced Oil Recovery
☐ WFX ☐ PMX ☐ SWD ☐ IPI ☐ EOR ☐ PPR

[D] Other: Specify _____

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MAY 21 2003
Oil Conservation Division

[2] NOTIFICATION 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] ☐ 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, and/or,
 [F] ☐ Waivers are Attached

[3] 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

Mary Corley
 Signature

Sr. Regulatory Analyst 10/23/2003
 Title Date
 corleyml@bp.com
 e-mail Address

District I
1625 N. French Drive, Hobbs, NM 88240
2000
District II
811 South First Street, Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
Pools
District IV
2040 South Pacheco, Santa Fe, NM 87505

State of New Mexico
Energy, Minerals and Natural Resources Department

Form C-107A
Revised May 15,

OIL CONSERVATION DIVISION

2040 South Pacheco
Santa Fe, New Mexico 87505

APPLICATION TYPE
X Single Well
___ Establish Pre-Approved

EXISTING WELLBORE
X Yes ___ No

APPLICATION FOR DOWNHOLE COMMINGLING

BP America Production Company P. O. Box 3092 Houston, TX 77253
Operator Address
Bolack B LS 3 Unit N Section 33 T28N, R08W San Juan
Lease Well No. Unit Letter-Section-Township-Range County
OGRID No. 000778 Property Code 000326 API No. 30-045-06946 Lease Type: X Federal ___ State ___ Fee

DATA ELEMENT	UPPER ZONE	INTERMEDIATE ZONE	LOWER ZONE
Pool Name	Blanco Pictured Cliffs S. PRO Gas	Otero Chacra UNDES. Gas	Blanco Mesaverde PRO Gas
Pool Code	72439	82329	72319
Top & Bottom of Pay Section (Perforated or Open-Hole Interval)	2176' - 2207'	3125' - 3265	3605' - 4596'
Method of Production (Flowing or Artificial Lift)	Flowing	New	Flowing
Bottomhole Pressure	300	425	450
Oil Gravity or Gas BTU (Degree API or Gas BTU)	1121 BTU	1225	1299 BTU
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? Yes X No ___
If not, have all working, royalty and overriding royalty interest owners been notified by certified mail? Yes ___ No ___
Are all produced fluids from all commingled zones compatible with each other? Yes X 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? Yes X 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 information above is true and complete to the best of my knowledge and belief.

SIGNATURE Mary Corley TITLE Sr. Regulatory Analyst DATE 10/23/2003
TYPE OR PRINT NAME Mary Corley TELEPHONE NO. (281) 366-4491

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

OIL CONSERVATION DIVISION
2040 South Pacheco
Santa Fe, NM 87505

Form C-102
Revised August 15, 2000

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

AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-045-06946	² Pool Code 82329	³ Pool Name Otero Chacra
⁴ Property Code 000326	⁵ Property Name Bolack B LS	⁶ Well Number 3
⁷ OGRID No. 000778	⁸ Operator Name BP America Production Company	⁹ Elevation 5905' GR

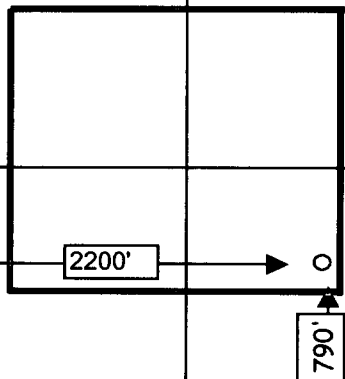
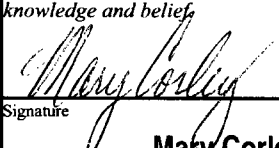
¹⁰ Surface Location

UL or lot no. Unit N	Section 33	Township 28N	Range 08W	Lot Idn	Feet from 790'	North/South South	Feet from 2200'	East/West West	County San Juan
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¹¹ Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from	North/South	Feet	East/West	County
¹² Dedicated Acres 160	¹³ Joint or 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

	¹⁷ OPERATOR CERTIFICATION <i>I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.</i>  Mary Corley Signature Mary Corley Printed Name Sr. Regulatory Analyst Title 10/23/2003 Date
	¹⁸ SURVEYOR CERTIFICATION <i>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.</i> on file Date of Survey Signature and Seal of Professional Surveyor: Certificate Number

Allocation Method
Bolack B LS 3

BP America Production Company request permission to complete the subject well into the Otero Chacra and tri-mingle production downhole with the existing Blanco South 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 will not reduce the value of the total remaining production.

Application has also been submitted to BLM on Form 3160-5, Federal Lease No. NM - 012202.

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

Bolack B LS 3
Repair Bradenhead, Complete into the Chacra and Trimingle
Production

API #: 30-045-06946

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 plugs (CIBP, tbg collar stop, or plug set in nipple) for isolation.
6. Tally OH with both strings and packer. Visually inspect tbg while POOH.

Contingency: *If the 2-3/8" tubing is in poor condition, replace entire tubing string.*

7. TIH with bit and scraper for 7" casing to 2300'.
8. Set CIBP at 2150'.
9. Bleed casing to zero while monitoring bradenhead.
10. If bradenhead bleeds down with casing:
 - a. Run retrievable packer on pipe to identify leak in casing/tree.
 - b. Set cement retainer 50' above hole in casing. Mix and pump cement per Schlumberger procedure. If possible, circulate cement to surface.
11. If bradenhead does not bleed down with casing:
 - a. Fill casing with fluid and pressure test to 500 psi.
 - b. Run CBL from 2150 to surface.
 - c. Perforate casing 50' above TOC identified by CBL.
 - d. Set cement retainer 50' above perforations. Mix and pump cement per Schlumberger procedure. If possible, circulate cement to surface.

12. WOC.
13. Drill out cement and pressure test squeeze to 500 psi (monitor bradenhead pressure during test also).
14. Drill out CIBP.
15. RIH w/ bit and scraper for 5-1/2" casing to PBTD at 4618'.
16. Set CIBP at 3950'.
17. RIH with 3-1/8" casing guns. Perforate Chacra formation (correlate to GR log).

Chacra Perforations, 2 spf (20 shots/ 40 holes):

3125' – 3130' (5')

3152' – 3156' (5')

3233' – 3238' (5')

3260' – 3265' (5')

18. RIH with 2-7/8" X 3-1/2" tapered frac string and 5-1/2" packer. Set packer at 2400'.
19. 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.
20. Flowback frac immediately.
21. Release packer and TOH with frac string and packer. LD frac string.
22. TIH with tubing and bit. Cleanout fill and drill bridge plug set at 3950'. C/O to PBTD at 4618'. Blow well dry at PBTD.
23. 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.
24. Land 2-3/8" production tubing at 4550'.
25. Pressure test tubing to 500 psi with rig pumps.
26. Swab down tubing with sandline.
27. RU SL unit. Run gauge ring for 2-3/8" tubing. Pull plug and set tubing stop for plunger. RD slickline unit.
28. ND BOP's. NU WH. Test well for air. Return well to production.

Bolack B LS 3

Sec 33, T28N, R8W

API # 30-045-06946

GL: 5915'

History:

- Completed as MV/PC dual
in 10/57

1-1/4" 2.4#, J55 tbg @ 2230'

Pictured Cliffs Perforation

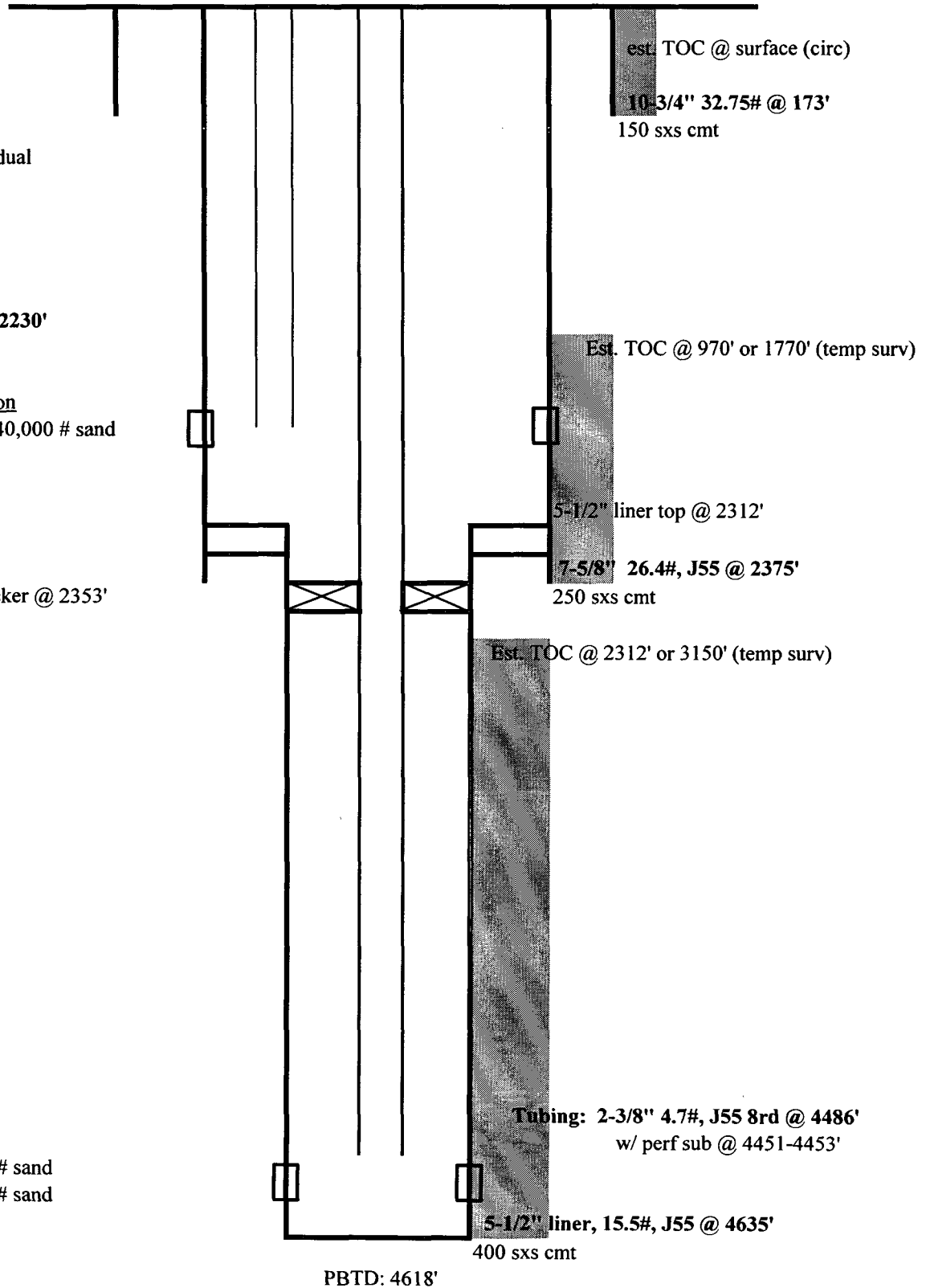
2176' - 2207' (2 spf) w/ 40,000 # sand

5-1/2" Baker 'EGJ' packer @ 2353'

Mesaverde Perforations

4110' - 4353' w/ 60,000 # sand

4375' - 4596' w/ 60,000 # sand



updated: 9/19/03 CFR

Future Production Decline Estimate Mesaverde Daily Rates

Month	Gas Volume
Jan-2002	59
Feb-2002	60
Mar-2002	57
Apr-2002	61
May-2002	60
Jun-2002	60
Jul-2002	76
Aug-2002	60
Sep-2002	63
Oct-2002	66
Nov-2002	59
Dec-2002	58
Jan-2003	54
Feb-2003	54
Mar-2003	55
Apr-2003	53
May-2003	67
Jun-2003	58
Jul-2003	57
Aug-2003	57
Sep-2003	57
Oct-2003	57
Nov-2003	57
Dec-2003	56
Jan-2004	56
Feb-2004	56
Mar-2004	56
Apr-2004	56
May-2004	56
Jun-2004	56
Jul-2004	56
Aug-2004	55
Sep-2004	55
Oct-2004	55
Nov-2004	55
Dec-2004	55

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Month	Gas Volume
Jan-2005	55
Feb-2005	55
Mar-2005	55
Apr-2005	54
May-2005	54
Jun-2005	54
Jul-2005	54
Aug-2005	54
Sep-2005	54
Oct-2005	54
Nov-2005	54
Dec-2005	53
Jan-2006	53
Feb-2006	53
Mar-2006	53
Apr-2006	53
May-2006	53
Jun-2006	53
Jul-2006	53
Aug-2006	52
Sep-2006	52
Oct-2006	52
Nov-2006	52
Dec-2006	52
Jan-2007	52
Feb-2007	52
Mar-2007	52
May-2007	51
Jun-2007	51
Jul-2007	51
Aug-2007	51
Sep-2007	51
Oct-2007	51
Nov-2007	51
Dec-2007	51
Jan-2008	50

Month	Gas Volume
Feb-2008	50
Mar-2008	50
Apr-2008	50
May-2008	50
Jun-2008	50
Jul-2008	50
Aug-2008	50
Sep-2008	50
Oct-2008	49
Nov-2008	49
Dec-2008	49
Jan-2009	49
Feb-2009	49
Mar-2009	49
Apr-2009	49
May-2009	49
Jun-2009	48
Jul-2009	48
Aug-2009	48
Sep-2009	48
Oct-2009	48
Nov-2009	48
Dec-2009	48
Jan-2010	48
Feb-2010	47
Mar-2010	47
Apr-2010	47
May-2010	47
Jun-2010	47
Jul-2010	47
Aug-2010	47
Sep-2010	47
Oct-2010	46
Nov-2010	46
Dec-2010	46
Jan-2011	46

Future Production Decline Estimate Mesaverde Daily Rates

Month	Gas Volume
Feb-2011	46
Mar-2011	46
Apr-2011	46
May-2011	45
Jun-2011	45
Jul-2011	45
Aug-2011	45
Sep-2011	45
Oct-2011	45
Nov-2011	44
Dec-2011	44
Jan-2012	44
Feb-2012	44
Mar-2012	44
Apr-2012	44
May-2012	43
Jun-2012	43
Jul-2012	43
Aug-2012	43
Sep-2012	43
Oct-2012	43
Nov-2012	42
Dec-2012	42
Jan-2013	42
Feb-2013	42
Mar-2013	42
Apr-2013	42
May-2013	41
Jun-2013	41
Jul-2013	41
Aug-2013	41
Sep-2013	41
Oct-2013	41
Nov-2013	40
Dec-2013	40
Jan-2014	40

Month	Gas Volume
Feb-2014	40
Mar-2014	40
Apr-2014	40
May-2014	39
Jun-2014	39
Jul-2014	39
Aug-2014	39
Sep-2014	39
Oct-2014	39
Nov-2014	38
Dec-2014	38
Jan-2015	38
Feb-2015	38
Mar-2015	38
Apr-2015	38
May-2015	37
Jun-2015	37
Jul-2015	37
Aug-2015	37
Sep-2015	37
Oct-2015	37
Nov-2015	36
Dec-2015	36
Jan-2016	36
Feb-2016	36
Mar-2016	36
Apr-2016	36
May-2016	35
Jun-2016	35
Jul-2016	35
Aug-2016	35
Sep-2016	35
Oct-2016	35
Nov-2016	34
Dec-2016	34
Jan-2017	34

Month	Gas Volume
Feb-2017	34
Mar-2017	34
Apr-2017	34
May-2017	33
Jun-2017	33
Jul-2017	33
Aug-2017	33
Sep-2017	33
Oct-2017	33
Nov-2017	32
Dec-2017	32
Jan-2018	32
Feb-2018	32
Mar-2018	32
Apr-2018	32
May-2018	31
Jun-2018	31
Jul-2018	31
Aug-2018	31
Sep-2018	31
Oct-2018	31
Nov-2018	30
Dec-2018	30
Jan-2019	30
Feb-2019	30
Mar-2019	30
Apr-2019	30
May-2019	29
Jun-2019	29
Jul-2019	29
Aug-2019	29
Sep-2019	29
Oct-2019	29
Nov-2019	28
Dec-2019	28
Jan-2020	28

Month	Gas Volume
Feb-2020	28
Mar-2020	28
Apr-2020	28
May-2020	27
Jun-2020	27
Jul-2020	27
Aug-2020	27
Sep-2020	27
Oct-2020	27
Nov-2020	26
Dec-2020	26
Jan-2021	26
Feb-2021	26
Mar-2021	26
Apr-2021	26
May-2021	25
Jun-2021	25
Jul-2021	25
Aug-2021	25
Sep-2021	25
Oct-2021	25
Nov-2021	24
Dec-2021	24
Jan-2022	24
Feb-2022	24
Mar-2022	24
Apr-2022	24
May-2022	24
Jun-2022	23
Jul-2022	23
Aug-2022	23
Sep-2022	23
Oct-2022	23
Nov-2022	23
Dec-2022	22
Jan-2023	22

Future Production Decline Estimate Mesaverde Daily Rates

Month	Gas Volume
Feb-2023	22
Mar-2023	22
Apr-2023	22
May-2023	22
Jun-2023	21
Jul-2023	21
Aug-2023	21
Sep-2023	21
Oct-2023	21
Nov-2023	21
Dec-2023	20
Jan-2024	20
Feb-2024	20
Mar-2024	20
Apr-2024	20
May-2024	20
Jun-2024	19
Jul-2024	19
Aug-2024	19
Sep-2024	19
Oct-2024	19
Nov-2024	19
Dec-2024	18
Jan-2025	18
Feb-2025	18
Mar-2025	18
Apr-2025	18
May-2025	18
Jun-2025	17
Jul-2025	17
Aug-2025	17
Sep-2025	17
Oct-2025	17
Nov-2025	17
Dec-2025	16
Jan-2026	16

Month	Gas Volume
Feb-2026	16
Mar-2026	16
Apr-2026	16
May-2026	16
Jun-2026	15
Jul-2026	15
Aug-2026	15
Sep-2026	15
Oct-2026	15
Nov-2026	15
Dec-2026	14
Jan-2027	14
Feb-2027	14
Mar-2027	14
Apr-2027	14
May-2027	14
Jun-2027	13
Jul-2027	13
Aug-2027	13
Sep-2027	13
Oct-2027	13
Nov-2027	13
Dec-2027	12
Jan-2028	12
Feb-2028	12
Mar-2028	12
Apr-2028	12
May-2028	12
Jun-2028	11
Jul-2028	11
Aug-2028	11
Sep-2028	11
Oct-2028	11
Nov-2028	11
Dec-2028	10
Jan-2029	10

Month	Gas Volume
Feb-2029	10
Mar-2029	10
Apr-2029	10
May-2029	10
Jun-2029	9
Jul-2029	9
Aug-2029	9
Sep-2029	9
Oct-2029	9
Nov-2029	9
Dec-2029	8
Jan-2030	8
Feb-2030	8
Mar-2030	8
Apr-2030	8
May-2030	8
Jun-2030	7
Jul-2030	7
Aug-2030	7
Sep-2030	7
Oct-2030	7
Nov-2030	7
Dec-2030	6
Jan-2031	6
Feb-2031	6
Mar-2031	6
Apr-2031	6
May-2031	6
Jun-2031	5
Jul-2031	5
Aug-2031	5
Sep-2031	5
Oct-2031	5
Nov-2031	5
Dec-2031	4
Jan-2032	4

Month	Gas Volume
Feb-2032	4
Mar-2032	4
Apr-2032	4
May-2032	4
Jun-2032	3
Jul-2032	3
Aug-2032	3
Sep-2032	3
Oct-2032	3
Nov-2032	3
Dec-2032	2
Jan-2033	2
Feb-2033	2
Mar-2033	2
Apr-2033	2
May-2033	2
Jun-2033	1
Jul-2033	1
Aug-2033	1
Sep-2033	1
Oct-2033	1
Nov-2033	1
Dec-2033	0
Jan-2034	0
Feb-2034	0
Mar-2034	0
Apr-2034	0
May-2034	0
Jun-2034	0
Jul-2034	0
Aug-2034	0
Sep-2034	0
Oct-2034	0
Nov-2034	0
Dec-2034	0
Jan-2035	0

Future Production Decline Estimate Pictured Cliffs Daily Rates

Month	Gas Volume
Jan-2002	5
Feb-2002	4
Mar-2002	0
Apr-2002	4
May-2002	16
Jun-2002	7
Jul-2002	9
Aug-2002	0
Sep-2002	11
Oct-2002	1
Nov-2002	7
Dec-2002	7
Jan-2003	4
Feb-2003	9
Mar-2003	0
Apr-2003	10
May-2003	4
Jun-2003	8
Jul-2003	9
Aug-2003	9
Sep-2003	9
Oct-2003	9
Nov-2003	8
Dec-2003	8
Jan-2004	8
Feb-2004	8
Mar-2004	7
Apr-2004	7
May-2004	7
Jun-2004	7
Jul-2004	6
Aug-2004	6
Sep-2004	6
Oct-2004	6
Nov-2004	6
Dec-2004	5

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Jan-2005	5
Feb-2005	5
Mar-2005	5
Apr-2005	4
May-2005	4
Jun-2005	4
Jul-2005	4
Aug-2005	3
Sep-2005	3
Oct-2005	3
Nov-2005	3
Dec-2005	2
Jan-2006	2
Feb-2006	2
Mar-2006	2
Apr-2006	2
May-2006	1
Jun-2006	1
Jul-2006	1
Aug-2006	1
Sep-2006	0
Oct-2006	0
Nov-2006	0
Dec-2006	0
Jan-2007	0
Feb-2007	0
Mar-2007	0
May-2007	0
Jun-2007	0
Jul-2007	0
Aug-2007	0
Sep-2007	0
Oct-2007	0
Nov-2007	0
Dec-2007	0
Jan-2008	0

Month	Gas Volume
Feb-2008	0
Mar-2008	0
Apr-2008	0
May-2008	0
Jun-2008	0
Jul-2008	0
Aug-2008	0
Sep-2008	0
Oct-2008	0
Nov-2008	0
Dec-2008	0
Jan-2009	0
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