

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENTFORM APPROVED
OMB NO. 1004-0135
Expires: November 30, 2000**SUNDRY NOTICES AND REPORTS ON WELLS**
Do not use this form for proposals to drill or to re-enter an abandoned well. Use form 3160-3 (APD) for such proposals.**SUBMIT IN TRIPLICATE - Other instructions on reverse side.**

1. Type of Well <input type="checkbox"/> Oil Well <input checked="" type="checkbox"/> Gas Well <input type="checkbox"/> Other		8. Well Name and No. FLORANCE C LS 6
2. Name of Operator BP AMERICA PRODUCTION CO		9. API Well No. 30-045-07135-00-D1
3a. Address P. O. BOX 3092 HOUSTON, TX 77253		10. Field and Pool, or Exploratory BLANCO MV/ PC OTERO CHACRA
3b. Phone No. (include area code) Ph: 281.366.4491 Fx: 281.366.0700		11. County or Parish, and State SAN JUAN COUNTY, NM
4. Location of Well (Footage, Sec., T., R., M., or Survey Description) Sec 30 T28N R8W NWSW 1750FSL 0990FWL 36.62973 N Lat, 107.72699 W Lon		

12. CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION
<input checked="" type="checkbox"/> Notice of Intent	<input type="checkbox"/> Acidize
<input type="checkbox"/> Subsequent Report	<input type="checkbox"/> Deepen
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Fracture Treat
	<input type="checkbox"/> New Construction
	<input type="checkbox"/> Plug and Abandon
	<input type="checkbox"/> Plug Back
	<input type="checkbox"/> Production (Start/Resume)
	<input type="checkbox"/> Reclamation
	<input type="checkbox"/> Recomplete
	<input type="checkbox"/> Temporarily Abandon
	<input type="checkbox"/> Water Disposal
	<input type="checkbox"/> Water Shut-Off
	<input type="checkbox"/> Well Integrity
	<input checked="" type="checkbox"/> Other Subsurface Commingling

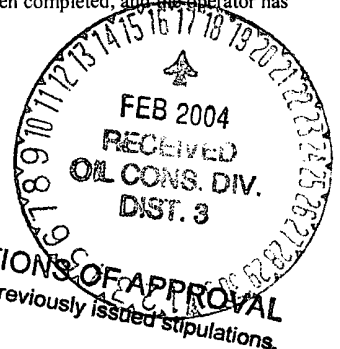
13. Describe Proposed or Completed Operation (clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recomplate horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation 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 requirements, including reclamation, have been completed, and the operator has determined that the site is ready for final inspection.)

BP America Production Company request permission to complete the subject well into the Otero Chacra and trimingle production downhole with the existing South Blanco Pictured Cliffs and Blanco Mesaverde Pools as per the attached procedure. Application also submitted to NMOCDS Santa Fe Office for approval.

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



DHC 1187 A2

14. I hereby certify that the foregoing is true and correct.	
Electronic Submission #26792 verified by the BLM Well Information System For BP AMERICA PRODUCTION CO, sent to the Farmington Committed to AFMSS for processing by MATTHEW HALBERT on 02/10/2004 (04MXH0219SE)	
Name (Printed/Typed) MARY CORLEY	Title AUTHORIZED REPRESENTATIVE
Signature (Electronic Submission)	Date 01/13/2004

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved By <u>[Signature]</u>	Title <u>Petr. Eng. NMOCDS</u>	Date <u>2/11/04</u>
Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify 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 any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

**** BLM REVISED ** BLM REVISED ** BLM REVISED ** BLM REVISED ** BLM REVISED ****

Additional data for EC transaction #26792 that would not fit on the form

32. Additional remarks, continued

value of the total remaining production.

Florance C LS 6
Recomplete to Chacra formation, downhole commingle Pictured Cliffs, Chacra and 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. POOH w/ production tubing set at 4511'.
7. TIH with bit and scraper for 5-1/2" casing to PBTD at 4589'. Work casing scraper across Mesaverde perforations (4006' – 4580') and new Chacra interval (3082' – 3233').
8. RU WL unit. RIH with 5-1/2" CIBP. Set CIBP at 3400'.
9. Run CBL from 3400' to top of liner to confirm that top of cement is above 3,000'. If cement is not above 3,000' block squeeze at 3,000'.
10. RIH with 3-1/8" casing guns. Perforate Chacra formation (correlate to GR log) w/ 2 SPF (27 shots, 54 holes) at: 3233, 3231, 3229, 3227, 3225, 3223, 3221, 3219, 3217, 3211, 3209, 3207, 3203, 3201, 3199, 3197, 3195, 3193, 3191, 3096, 3094, 3092, 3090, 3088, 3086, 3084, 3082'.
11. RIH with 2-7/8" X 3-1/2" tapered frac string and 5-1/2" packer. Set packer at 2400'.
12. Spearhead 500 gal 15% HCL, establish injection rate, and proceed with fracture stimulation according to Schlumberger schedule. Maintain surface pressures \leq 3500 psi during frac job to stay within 80% of 5-1/2" casing burst rating. Flush frac with foam. Fill out GWSI scorecard.
13. Flowback frac immediately.
14. TIH with tubing and bit. Cleanout fill and drill bridge plug set at 3400'. Cleanout fill to PBTD. Blow well dry at PBTD.
15. 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.
16. Land 2-3/8" production tubing at 4511'.

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

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 30-045-07135	² Pool Code 82329	³ Pool Name Otero Chacra
⁴ Property Code 000326	⁵ Property Name Florance C LS	⁶ Well Number 6
⁷ OGRID No. 000778	⁸ Operator Name BP America Production Company	⁹ Elevation 5854' GR

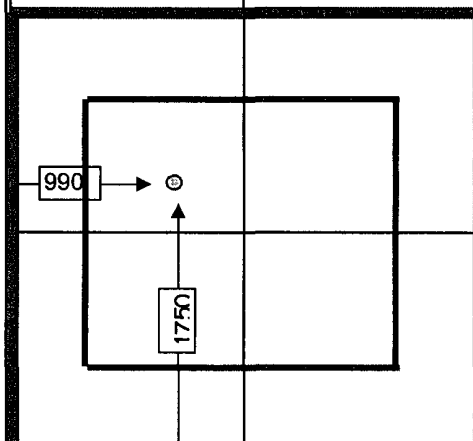
¹⁰ Surface Location

UL or lot no. Unit L	Section 30	Township 28N	Range 08W	Lot Idn	Feet from 1750'	North/South South	Feet from 990'	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 01/13/2004
				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> 04/23/1957
				Date of Survey
				Signature and Seal of Professional Surveyor: E O Walker
				Certificate Number

Florance C LS 006 PC/MV

API# 3004507135

Sec 30, T28N, R8W

GL: 5854'

History:

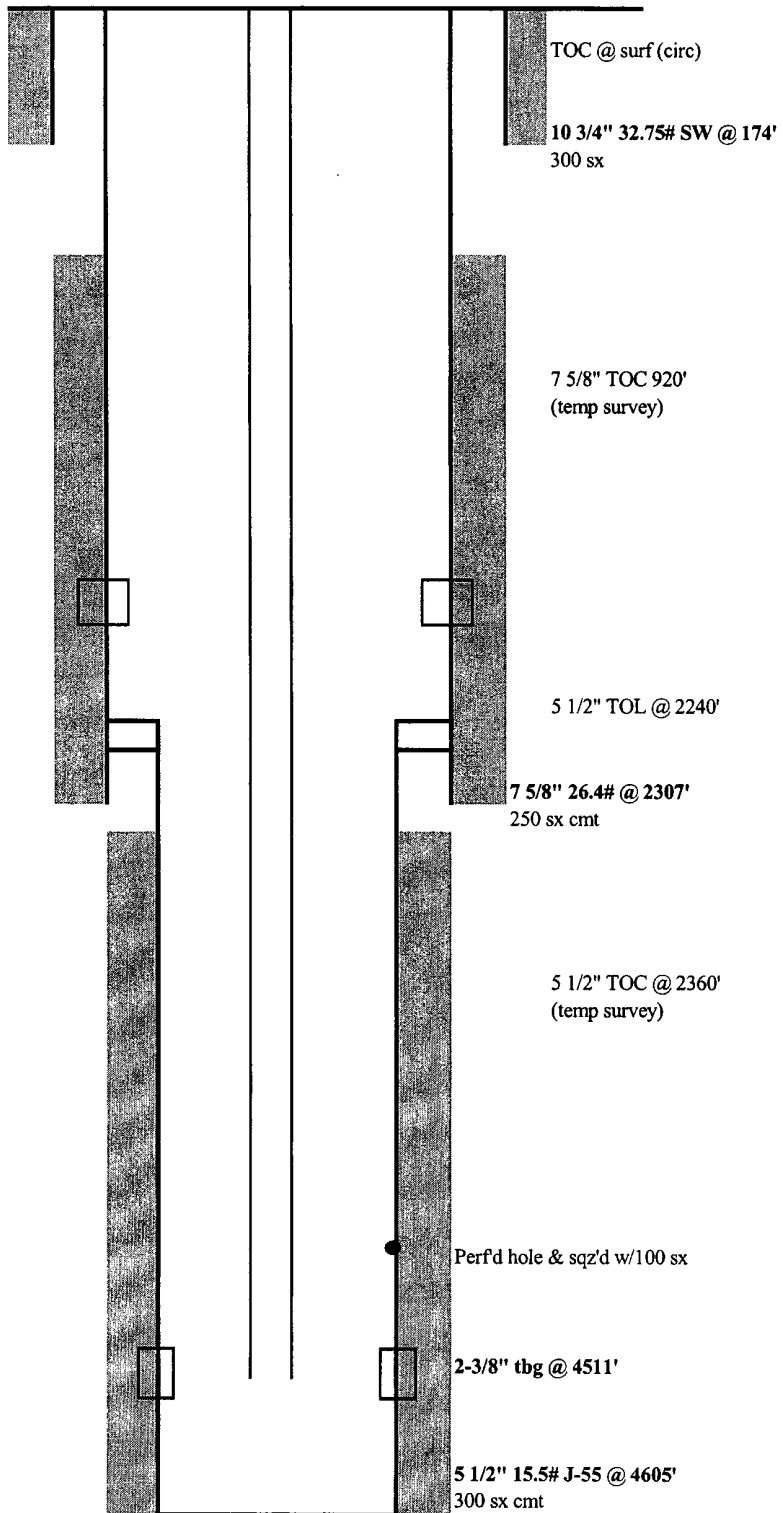
- Drilled & completed in 1957
DHCM and added MF in 7/03

PC Perforation

2128' - 2182', 40 klbs sand

Mesaverde perforations:

4006'-4330' w/ 84,000 #'s sand
4406'-4580' w/ 60,000 #'s sand



PBTD: 4589'

TD: 4610'

updated: 10/17/03 CFR

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1625 N. French Drive, Hobbs, NM 88240

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811 South First Street, Artesia, NM 88210

District III
1000 Rio Brazos Road, Aztec, NM 87410

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, 2000

OIL CONSERVATION DIVISION

2040 South Pacheco
Santa Fe, New Mexico 87505

APPLICATION TYPE

☒ Single Well

☐ Establish Pre-Approved Pools

EXISTING WELLBORE

☒ Yes ☐ No

APPLICATION FOR DOWNHOLE COMMINGLING

BP America Production Company P. O. Box 3092 Houston, TX 77253

Operator

Address

Florance C LS

6

Unit L Section 30 T28N, R08W

San Juan

Lease

Well No.

Unit Letter-Section-Township-Range

County

OGRID No. **000778** Property Code **000527** API No. **30-045-07135** Lease Type: ☒ 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)	2128' - 2182'	3082' - 3233'	4006' - 4580'
Method of Production (Flowing or Artificial Lift)	Flowing	Flowing	Flowing
Bottomhole Pressure	290	430	480
Oil Gravity or Gas BTU (Degree API or Gas BTU)	1192 BTU	1210 BTU	1356 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 ☒ 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 ☒ No ☐

Will commingling decrease the value of production?

Yes ☐ No ☒

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 ☐ 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 _____ TITLE **Sr. Regulatory Analyst** DATE **01/13/2004**

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

Future Production Decline Estimate
Pictured Cliffs Daily Rates

Month	Gas Volume
Jan-2002	30
Feb-2002	29
Mar-2002	33
Apr-2002	30
May-2002	37
Jun-2002	21
Jul-2002	6
Aug-2002	9
Sep-2002	17
Oct-2002	29
Nov-2002	43
Dec-2002	39
Jan-2003	5
Feb-2003	0
Mar-2003	23
Apr-2003	6
May-2003	44
Jun-2003	9
Jul-2003	12
Aug-2003	28
Sep-2003	32
Oct-2003	32
Nov-2003	32
Dec-2003	31
Jan-2004	30
Feb-2004	29
Mar-2004	28
Apr-2004	27
May-2004	26
Jun-2004	25
Jul-2004	24
Aug-2004	24
Sep-2004	23
Oct-2004	22
Nov-2004	21
Dec-2004	20

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 $Q_i = 29$
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Month	Gas Volume
Jan-2005	19
Feb-2005	18
Mar-2005	17
Apr-2005	16
May-2005	16
Jun-2005	15
Jul-2005	14
Aug-2005	13
Sep-2005	12
Oct-2005	11
Nov-2005	10
Dec-2005	9
Jan-2006	8
Feb-2006	8
Mar-2006	7
Apr-2006	6
May-2006	5
Jun-2006	4
Jul-2006	3
Aug-2006	2
Sep-2006	1
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

Future Production Decline Estimate Mesaverde Daily Rates

Month	Gas Volume
Jan-2002	139
Feb-2002	107
Mar-2002	109
Apr-2002	107
May-2002	104
Jun-2002	91
Jul-2002	121
Aug-2002	106
Sep-2002	101
Oct-2002	98
Nov-2002	95
Dec-2002	93
Jan-2003	91
Feb-2003	88
Mar-2003	89
Apr-2003	89
May-2003	90
Jun-2003	94
Jul-2003	12
Aug-2003	120
Sep-2003	137
Oct-2003	138
Nov-2003	138
Dec-2003	138
Jan-2004	138
Feb-2004	138
Mar-2004	137
Apr-2004	137
May-2004	137
Jun-2004	137
Jul-2004	137
Aug-2004	136
Sep-2004	136
Oct-2004	136
Nov-2004	136
Dec-2004	136

$\ln(Q_f/Q_i) = -dt$
 $Q_f = 90$
 $Q_i = 91$
 $rate = 90$
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 $decline = -0.198897051$

Month	Gas Volume
Jan-2005	135
Feb-2005	135
Mar-2005	135
Apr-2005	135
May-2005	135
Jun-2005	134
Jul-2005	134
Aug-2005	134
Sep-2005	134
Oct-2005	134
Nov-2005	133
Dec-2005	133
Jan-2006	133
Feb-2006	133
Mar-2006	133
Apr-2006	132
May-2006	132
Jun-2006	132
Jul-2006	132
Aug-2006	132
Sep-2006	131
Oct-2006	131
Nov-2006	131
Dec-2006	131
Jan-2007	131
Feb-2007	130
Mar-2007	130
May-2007	130
Jun-2007	130
Jul-2007	130
Aug-2007	129
Sep-2007	129
Oct-2007	129
Nov-2007	129
Dec-2007	129
Jan-2008	128

Month	Gas Volume
Feb-2008	128
Mar-2008	128
Apr-2008	128
May-2008	128
Jun-2008	127
Jul-2008	127
Aug-2008	127
Sep-2008	127
Oct-2008	127
Nov-2008	126
Dec-2008	126
Jan-2009	126
Feb-2009	126
Mar-2009	126
Apr-2009	125
May-2009	125
Jun-2009	125
Jul-2009	125
Aug-2009	125
Sep-2009	124
Oct-2009	124
Nov-2009	124
Dec-2009	124
Jan-2010	124
Feb-2010	124
Mar-2010	123
Apr-2010	123
May-2010	123
Jun-2010	123
Jul-2010	123
Aug-2010	122
Sep-2010	122
Oct-2010	122
Nov-2010	122
Dec-2010	122
Jan-2011	121

Florance C LS 6
Future Production Decline Estimate
Mesaverde Daily Rates

Month	Gas Volume
Feb-2011	121
Mar-2011	121
Apr-2011	121
May-2011	121
Jun-2011	120
Jul-2011	120
Aug-2011	120
Sep-2011	120
Oct-2011	120
Nov-2011	119
Dec-2011	119
Jan-2012	119
Feb-2012	119
Mar-2012	119
Apr-2012	118
May-2012	118
Jun-2012	118
Jul-2012	118
Aug-2012	118
Sep-2012	117
Oct-2012	117
Nov-2012	117
Dec-2012	117
Jan-2013	117
Feb-2013	116
Mar-2013	116
Apr-2013	116
May-2013	116
Jun-2013	116
Jul-2013	115
Aug-2013	115
Sep-2013	115
Oct-2013	115
Nov-2013	115
Dec-2013	114
Jan-2014	114

Month	Gas Volume
Feb-2014	114
Mar-2014	114
Apr-2014	114
May-2014	113
Jun-2014	113
Jul-2014	113
Aug-2014	113
Sep-2014	113
Oct-2014	112
Nov-2014	112
Dec-2014	112
Jan-2015	112
Feb-2015	112
Mar-2015	111
Apr-2015	111
May-2015	111
Jun-2015	111
Jul-2015	111
Aug-2015	110
Sep-2015	110
Oct-2015	110
Nov-2015	110
Dec-2015	110
Jan-2016	109
Feb-2016	109
Mar-2016	109
Apr-2016	109
May-2016	109
Jun-2016	108
Jul-2016	108
Aug-2016	108
Sep-2016	108
Oct-2016	108
Nov-2016	107
Dec-2016	107
Jan-2017	107

Month	Gas Volume
Feb-2017	107
Mar-2017	107
Apr-2017	106
May-2017	106
Jun-2017	106
Jul-2017	106
Aug-2017	106
Sep-2017	105
Oct-2017	105
Nov-2017	105
Dec-2017	105
Jan-2018	105
Feb-2018	104
Mar-2018	104
Apr-2018	104
May-2018	104
Jun-2018	104
Jul-2018	103
Aug-2018	103
Sep-2018	103
Oct-2018	103
Nov-2018	103
Dec-2018	102
Jan-2019	102
Feb-2019	102
Mar-2019	102
Apr-2019	102
May-2019	101
Jun-2019	101
Jul-2019	101
Aug-2019	101
Sep-2019	101
Oct-2019	100
Nov-2019	100
Dec-2019	100
Jan-2020	100