FORM 38

> Rev 1/10

# State of Colorado Oil and Gas Conservation Commission

1120 Lincoln street, Suite 801, Denver, Colorado 80203 (303) 894-2100 Fax: (303) 894-2109

FOR (	OFFICIA	L USE ON	JLY

# SECOND PAYMENT OF PROCEEDS HEARING REQUEST

This form may be submitted only by a payee legally entitled to payment from proceeds derived from the sale of oil, gas, or associated products from a well in Colorado. The payee is to complete this form (one form per well), attach required documentation and mail to: COGCC, 1120 Lincoln Street, Suite 801, Denver, Colorado 80203 or fax to: (303) 894-2109. COGCC will investigate the report and determine what action, if any, should be taken.

PAYEE INFORMATION

NAME OF PAYEE: Grant Brothers Ranch, LLC	HONE NO: (970) 927-8386
ADDRESS: P.O. Box 1027	AX:
CITY: Basalt STATE: CO ZIP: 81621 E-	MAIL:
PA	YEE NUMBER: 21318
MINERAL INFORMAT	ION
WELL NAME: Dever C-9 Well COUNTY: Gar	field
QTR/QTR SEC: TOWNSHIP: RANGE:	
N/2 18 6 South 92 West API NUMBER	70326
NON-COMPLIANCE ISSUES NOT	RESOLVED
(PLEASE CHECK ALL THAT	APPLY)
Required checkstub detail not provided:	X
Late payment	X
Non payment	X
No interest paid on late payment	X
No response to Form 37 inquiry	

All pertinent documentation must be attached. This includes: completed copy of operator contact Form 37, proof of mailing, response (if received from operator), redacted checkstub detail and any other documentation necessary.

FORM 37 Rev

01/10

#### State of Colorado

#### Oil and Gas Conservation Commission

1120 Lincoln street, Suite 801, Denver, Colorado 80203 (303) 894-2100 Fax: (303) 894-2109

FOR OFFICIAL USE ONLY

# PAYMENT OF PROCEEDS – SALES VOLUME RECONCILIATION PAYOR CONTACT FORM

This form may be submitted only by a payee legally entitled to payment from proceeds derived from the sale of oil, gas, or associated products from a well in Colorado. The payee is to complete this form (one form per well) and submit it to the payor issuing the payment. Operator addresses may be found at the COGCC website concessate out at DATABASE under the category NAME, ADDRESS AND FINANCIAL ASSURANCE. This form must be submitted to the payor via certified mail. Using this form to request informality will not replace the operator a formal partition.

ADDRESS AND FINANCIAL ASSURANCE. This form must be s	submitted to the payor via certified mail. Using this form to reques
information will not replace the need for a financial audit  PAYEE INI	FORMATION
NAME OF PAYEE: Grant Brothers Ranch, LLC	PHONE NO: (970) 927-8386
ADDRESS; P.O. Box 1027	FAX:
CITY: Basail STATE: CO ZIF	E-MAIL:
SIGNATURE Doerylas & thent	PAYEE NUMBER: 21318
	INFORMATION
WELL NAME: Dever C-9 Well	COUNTY: Garfield
QTR/QTR SEC: TOWNSHIP: RANGE:	API NUMBER: 70326
N/2 18 6 South 92 West	
Payee should mark appropriate entries to show missing infealso attach a copy of the checkstub with all applicable non-the name, number, or a combination of name and number or well for which payment is being made.	compliance details noted.)
The month and year during which the sale occurred.	TO STOKE WELL
The total quantity of product sold attributable to such p neasurement.	ayment, including the units of
The price received per unit of measurement. (Price per l housand cubic feet (MCF) or price per million British Tl pss.)	
The total amount of severance taxes and any other producte.	uction taxes or levies applied to the
The payee's interest in the sale, expressed as a decimal lecimal place.	and calculated to at least the sixth
he payee's share of the sale before any deductions or a dentified with the payment.	adjustments made by the payor or
he payee's share of the sale after any deductions or ad dentified with the payment.	justments made by the payor or
n address and telephone number from which additiona uestions answered.	l information may be obtained and
Additional Inform	ation Requested
(Note: This section asks for the additional information payer ritten explanation of deductions or adjustments or whether or not identified with the payment), regard Please see the attached willen explanation and request for additional lation	over which payor has control or information , ting:
eter calibration testing records	Production reporting records
PAYMENT OF PROCEED	S - PAYOR RESPÓNSE
	•
s required by CRS 34-60-118.5(2.5). (The payor must	AND THE PROPERTY OF THE PARTY O
formation concerning	for the following reasons:
ame	Contact Phone Number

Mailed 10/29/18

REQUEST FOR SALES VOLUME RECONCILIATION INFORMATION Payee should provide information at appropriate entries to request information regarding sales volume reconciliation.

### **MINERAL INFORMATION**

WELL NAME: COUNTY:		
QTR/QTR SEC: TOWNSHIP: RANGE:		
APJ NUMBER:		
The payee requests the payor to provide a reconciliation between the follow	ing volumes: GAS	011
	GAS	<u>OJ</u> ,
The month and year during which the sale occurred		
Volume reported as produced		
Volume reported as sold	-	
Volumes shown as produced/sold do not agree with:		
Volume reported to the COGCC		
Volume reported to another government agency		
Other Information for sales reconciliation (specify request)		
		-
(date). Produced volumes from this well/lease are higher/less than the sales for the following reasons:	Percentage of	difference
	attributed to th	is cause.
	GAS	OIL
Shrinkage during transport.		
Used for compression during transport.		
Line loss or fuel use from the gathering line during transport.		
A portion of the natural gas was vented or flared or used as fuel		
during transport.		
Contractual overages or underages from previous months were rectified during this sales period.	1	
Sold by others.		
Other (Please Specify):		
Other (Flease Specify):		
	-	
The gas meter(s) at this well site or lease was last calibrated on?		
The gas meter(s) at the sales point was last calibrated on?		
CERTIFICATION		
hereby certify that the information provided on this form is, to the best of my land complete.	nowledge, true,	correct

## Form 37 Payment of Proceeds Additional Information Requested

Ursa Operating Company, LLC ("Payor") has the exclusive control of any and all information necessary to calculate royalties, incomes, profits, costs, and the exact date of payout of the Dever C-9 Well. Grant Brothers, LLC ("Grant Brothers") requests a full and complete audit to determine the exact date of payout, a complete accounting of all costs incurred and the amount of proceeds realized from the sale of production from the Dever C-9 Well drilled in the Williams Fork / Iles Formation under Order No. 191-51, both before and after the Dever C-9 Well reached payout. In addition, Payee requests a complete, written explanation as to why the Payor did not properly account for all costs incurred and pay Grant Brothers for its share of production income from the Dever C-9 Well, thereby failing to meet the express statutory requirements of C.R.S. § 34-60-116.

1 3%	
SENDER: COMPLETE THIS SECTION	COMPLETE THIS SECTION ON DELIVERY
■ Complete items 1, 2, and 3.  ■ Print your name and address on the reverse so that we can return the card to you.  ■ Attach this card to the back of the mailpiece, or on the front if space permits.  1. Article Addressed to:  Beatly 3 Wozniak, Pc  216 16th Street Ste. 1100  Denver, Co 80202	B. Received by (Printed Name)  C. Date of Deliver  D. Is delivery address different from Item 1? Yes  If YES, enter delivery address below:
9590 9402 4372 8190 6849 01	3. Service Type
2. Article Number (Transfer from service label) 7016 1970 0000 7421 2733	☐ Collect on Delivery Restricted Delivery ☐ Insured Mall ☐ Insured Mall Restricted Delivery (over \$500) ☐ Collect on Delivery Restricted Delivery (over \$500)
PS Form 3811, July 2015 PSN 7530-02-000-9053	Domestic Return Receip

	1971
SENDER: COMPLETE THIS SECTION	COMPLETE THIS SECTION ON DELIVERY
<ul> <li>Complete items 1, 2, and 3.</li> <li>Print your name and address on the reverse so that we can return the card to you.</li> <li>Attach this card to the back of the mallpiece, or on the front if space permits.</li> </ul>	A. Signature  X  Agent  Addressee  B. Received by (Printed Name)  Liam Halls no 10130/15
1. Article Addressed to: Colorado O'BandGas Consorvation Commission 1120 Uncoln Street, Ste. 801 Denser, Co. 80263	D. Is delivery address different from item 1?
9590 9402 4372 8190 6849 25  2. Article Number (Transfer from service label) 7016 1970 0000 7421 2726	3. Service Type ☐ Priority Mail Express® ☐ Adult Signature ☐ Adult Signature Restricted Delivery ☐ Cotlet on Delivery ☐ Collect on Delivery ☐ Collect on Delivery ☐ Collect on Delivery ☐ Restricted Delivery ☐ Collect on Delivery ☐ Restricted Delivery ☐ Signature Confirmation™ ☐ Signature Confirmation ☐ Signature Confirmation ☐ Restricted Delivery ☐ R
nndd	Demestic Petura Baggint

2. Article Number (Transfer from service label) 7016 1970 0000 7421 2726 PS Form 3811, July 2015 PSN 7530-02-000-9053

Domestic Return Receipt

## BEATTY & WOZNIAK, P.C.

ATTORNEYS AT LAW

216 SIXTEENTH STREET, SUITE 1100 DENVER, COLORADO 80202-5115 TELEPHONE 303-407-4499 FAX 1-800-886-6566 www.bwenergylaw.com COLORADO

New Mexico

NORTH DAKOTA

UTAH WYOMING

MALINDA MORAIN

303-407-4477 MMORAIN@BWENERGYLAW.COM

December 28, 2018

Nathan A. Keever Dufford Waldeck Milburn & Krohn LLP 744 Horizon Ct. #300 Grand Junction, CO 81506

RE: Ursa's Response to Form 37 Notice Pursuant to C.R.S. § 34-60-118.5(2.5) by Grant Brothers Ranch, LLC

Dear Mr. Keever:

Ursa Operating Company, LLC ("Ursa") provides the following response, pursuant to C.R.S. § 34-60-118.5(2.5), to Grant Brothers Ranch, LLC's ("Grant Ranch") Form 37 written notice, received by certified mail on October 31, 2018.

Ursa objects to the notice, at the outset, insofar as it fails to conform to C.R.S. § 34-60-118.5(2.5) and Form 37. Section 118.5(2.5) allows a payee to request, "a written explanation of those deductions or adjustments over which the payer has control and for which the payer has information. . . ." Per the instructions on Form 37, Grant Ranch was to attach a copy of the check stub with all applicable non-compliance details noted. No such check stub with non-compliance details was attached to Grant Ranch's Form 37 Request.

Instead, Grant Ranch attaches to the Form 37 a list of additional information requested relevant to the issue of whether the Dever C-9 well has reached payout. Essentially, Grant Ranch seeks information to determine whether Grant Ranch has paid its proportionate share of the statutory costs pursuant to C.R.S. § 34-60-116(7)(a) and (b).

The COGCC retains jurisdiction during the period of cost recovery to determine the costs of drilling and completing the well that are properly attributable to the interest of the non-consenting owner, Grant Ranch. C.R.S. § 34-60-116(7)(d). Grant Ranch seeks an accounting to determine the reasonableness of costs related to the Dever C-9 well, and a determination as to whether or not the Dever C-9 Well has reached payout.

Reserving its rights and without waiving any objections, in the interests of open dialogue and an expedient resolution, Ursa is providing information consistent with its obligations under C.R.S. § 34-60-118.5 and Form 37, along with additional information Ursa believes will be helpful to Grant Ranch in understanding payment of proceeds and payout calculations. Ursa's production of some additional information beyond the scope of C.R.S. § 34-60-118.5 and Form 37, does not waive any objections, including those to the overbroad nature of Grant Ranch's requests.

Nathan A. Keever December 28, 2018 Page 2

### 1. Form 37 Request for Payment of Proceeds Information

The requested Payment of Proceeds information has already been provided to Grant Ranch for the Dever C-9 well via Ursa's monthly Owner Detail Sales report. While Grant Ranch did not attach a copy of the check stub with the non-compliance details noted as required by Form 37, Ursa has attached hereto as <a href="Exhibit 1">Exhibit 1</a> a copy of the sales and revenue detail for March 2018 to May 2018, which includes the information for the Dever C-9 Well (see p. 4) among others.

In the interest of full disclosure, Ursa provides the following explanation of the first page of this revenue summary statement. By way of example, for the provided payment date of May 25, 2018, for condensate paid on March to April 2018 sales, the Owner Detail sales provides the:

Well Name (Dever C-9); payee's interest in the sale calculated to the 6<sup>th</sup> decimal place (0.02094180 for the royalty interest "RI"); total quantity of condensate sold from that well (for March to April 2018, 0.77 barrels of condensate); and Grant Ranch's gross proportionate share of that total quantity (\$44.06). The gross Severance, Ad Valorem (ADV), and Conservation taxes are deducted from the March to April condensate, are deducted for the net payment on condensate of \$41.39 paid on May 25, 2018. The net value before the deductions (\$10.63 for May, 2016 Royalty Interest) and after tax deductions (\$9.87 for May, 2016 Royalty Interest) are also listed. The next entry under the Condensate entry is for gas ("G") and the third entry is for natural gas liquids ("NGL's").

The only information not contained on the monthly Owner Detail Sales report which Grant Ranch requested on its Form 37 request is the "address and telephone number from which additional information may be obtained and questions answered." That person is Kelly Muldoon, Vice President – Land, whose phone number is (720) 212-0554.

### 2. Additional Information Requested

Grant Ranch seeks the date of payout of the Dever C-9 well, at which time it would receive its proportionate eight-eighths royalty from production, less its proportionate share of costs. Factoring in the reasonable costs to drill, complete, and operate the Dever C-9 well, the statutory penalties associated with those cost, because Grant Ranch did not participate in the costs of the well, and the production history of the well from both the Mancos and Williams Fork formations, it is evident that the Dever C-9 well has not reached payout to date. In the Grant Ranch Litigation, Ursa produced all drilling, completion, and operations cost and payout documentation, and the well production history. Current Dever C-9 well production history is available from the COGCC website and other sources such as IHS.

Attached as Exhibit 2 is Ursa's expert report from the Grant Ranch Litigation (Grant Brothers Ranch, LLC v. Antero Resources Piceance Basin Corporation and Ursa Operating Company, LLC, Garfield District Court, 2014CV30180), which was prepared by Tim Hower of

<sup>&</sup>lt;sup>1</sup> Note the negative and positive entries for April and May condensate on override and royalties, which provided corrected taxation deductions made in previous months.

Nathan A. Keever December 28, 2018 Page 3

MHA Petroleum. In that report, Mr. Hower opined that the Dever C-9 well's costs were all proper and reasonable and that this well had not reached payout as of July 21, 2015. Mr. Hower's opinions remain the same to date. An updated MHA expert report will be provided to Grant Ranch in the near future.

If Grant Ranch does not agree that all of the costs associated with drilling and completing the Dever C-9 well were proper, Grant Ranch must request that the COGCC determine the proper costs which Ursa may deduct from Grant Ranch's proportionate seven-eighths share of production pursuant to Section 116(7)(a) & (b).

### 3. Form 37 Certification

A certification of the response for information provided by Ursa Operating Company LLC is attached to this letter.

### Conclusion

Again, do not hesitate to contact me with any questions regarding the above explanation or the accompanying documents. Ursa and Antero look forward to working with Grant Ranch to reconcile any remaining issues.

Very truly yours,

BEATTY & WOZNIAK, P.C.

Malinda Morain

Enc: Exhibits 1 & 2 cc: Steven Skinner Kelly Muldoon

## CERTIFICATION

1, Kelly Muldoon, hereby certify that the information provided by Ursa Operating Company, LLC above and in the accompanying production is, to the best of my knowledge, true, correct and complete.

Kely Muldon Dated: 12/28/2018

REV210P

Sale Dates: 03/31/2018 to 03/31/2018 Selection: All

URSA OPERATING COMPANY LLC

13 DEC 2018

Page 1

Owner Detail Sales For Owner 1683 GRANT BROTHERS RANCH LLC

Sale Per Type Pay Compt Date Check Trans Tx End DOI Ref Prd Int. Cd. Interest Quantity Date Gross Compt Amount Paid No. Cd Well: CO1064 DEVER C3 03/18 04/18 1435 RI 0.02094180 0.63 SEV 0.36 36.03 33.84 05/25/18 407067 691 ADV 1.80 0.03 CON 03/18 04/18 1440 G RI M 0.02094180 65.52 139,70 FUEL 0.86 67.05 05/25/18 407067 701 TRN 16.65 GTH1 24.28 GTH2 26.48 SEV 0.71 3.57 ADV CON 0.10 03/18 04/18 1445 NGL RI 0.02094180 53.56 46.89 PRC2 29.39 16.41 05/25/18 407067 711 0.18 SEV ADV 0.88 CON 0.03 03/18 05/18 1440 G RI M 0.02094180 65.52-139.70-FUEL 0.86-67.05- 06/25/18 407519 721 TRN 16.65-GTH1 24.28-GTH2 26.48-SEV 0.71-ADV 3.57-0.10-CON 03/18 05/18 1440 RI 0.02094180 65.52 139.70 FUEL 0.86 64.77 06/25/18 407519 731 TRN 16.65 GTH1 24.28 GTH2 28.90 SEV 0.69 ADV 3.45 CON 0.10 Well Paid Total 119.71 222,62 107.60 115.02 Well: CO1065 DEVER C4 03/18 04/18 1450 C RI M 0.02094180 0.76 43.57 SEV 0.44 40.92 05/25/18 407067 692 ADV 2.18 CON 0.03 03/18 04/18 1455 G RI M 0.02094180 36.73 78.32 FUEL 0 - 48 37.05 05/25/18 407067 702 TRN 9.433 GTH1 13.61 GTH2 15.44 SEV 0.39 ADV 1.97

CON

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REV210P Sale Dat Selection

13 DEC 2018 Page 2

IUF		UNDA OFERALING COMPANI LLC
Dates: 03/31/2018	to 03/31/2018	Owner Detail Sales
ction: All		For Owner 1683 GRANT BROTHERS RANCH LLC

Sale Date	Per End	DOI Ref	Pro		pe Pay	Interest	Quantity	Gross	Compt	Compt Amount	Net	Date Paid	Check No.	Trans Tx No. Cd
	01065 04/18	DEVER C4 1460	NGL	RI	М	0.02094180	30.03	26.29	PRC2 SEV ADV	16.47 0.10 0.49	9.21	05/25/18	407067	712
03/18	05/18	1455	G	RI	М	0.02094180	36.73-	78.32-	CON	0.49 0.02 0.48- 9.33- 13.61- 15.44-	37.05-	06/25/18	407519	722
03/18	05/18	1455	G	RI	М	0.02094180	36.73	78.32	SEV ADV CON FUEL TRN GTH1	0.39- 1.97- 0.05- 0.48 9.33	35.72	06/25/18	407519	732
			W	ell	Paid	Total	67.52	148.18	GTH2 SEV ADV CON	16.85 0.38 1.90 0.05 62.33	85.85			
Well: C0 03/18			С	RI	М	0.02094180	1.10	63.16	SEV ADV	0.63	59.33	05/25/18	407067	693
03/18	04/18	1470	G	RI	М	0.02094180	86.75	184.97	CON FUEL TRN GTH1 GTH2 SEV ADV	0.04 1.13 22.05 32.15 32.65 0.97 4.85 0.13	91.04	05/25/18	407067	703
03/18	04/18	1475	NGL	RI	М	0.02094180	70.92	62.08	CON PRC2 SEV ADV	38.91 0.23 1.16 0.04	21.74	05/25/18	407067	713
03/18	05/18	1470	G	RI	М	0.02094180	86.75-	184.97-	CON FUEL TRN GTH1 GTH2 SEV ADV	1.13- 22.05- 32.15- 32.65- 0.97- 4.85-	91.04-	06/25/18	407519	723

REV210P Sale Dates: 03/31/2018 to 03/31/2018 Selection: All

### URSA OPERATING COMPANY LLC Owner Detail Sales For Owner 1683 GRANT BROTHERS RANCH LLC

13 DEC 2018 Page 3

Sale Per Date End DOI Ref	Type Pay Prd Int, Cd. Interest (	Quantity	Gross	Compt	Compt Amount	Net	Date Paid	Check No.	Trans Tx No. Cd
Well: CO1066 DEVER C7									
03/18 05/18 1470	G RI M 0.02094180	86.75	184.97	CON FUEL TRN GTH1 GTH2 SEV ADV	0.13- 1.13 22.05 32.15 35.64 0.94 4.70	88.23	06/25/18	407519	733
	Well Paid Total	158.77	310.21	CON	0.13 140.91	169.30			
		2001,.	520722			103.00			
Well: CO1067 DEVER C8 03/18 04/18 1480	C RI M 0.02094180	0.97	55,50	SÉV ADV CON	0.55 2.77 0.04	52.14	05/25/18	407067	694
03/18 04/18 1485	G RI M 0.02094180	47.99	102,31	FUEL TRN GTH1 GTH2 SEV ADV CON	0.63 12.19 17.79 20.55 0.51 2.56	48.01	05/25/18	407067	704
03/18 04/18 1490	NGL RI M 0.02094180	39.23	34 <sub>5</sub> 34	PRC2 SEV ADV CON	21.52 0.13 0.64 0.02	12.03	05/25/18	407067	714
03/18 05/18 1485	G RI M 0.02094180	47.99-	102,31-		0.63- 12.19- 17.79- 20.55- 0.51- 2.56- 0.07-	48.01-	06/25/18	407519	724
03/18 05/18 1485	G RI M 0.02094180	47.99	102.31	FUEL TRN GTH1 GTH2 SEV ADV CON	0.63 12.19 17.79 22.42 0.49 2.46 0.07	46.26	06/25/18	407519	734
	Well Paid Total	88.19	192.15		81.72	110.43			

Well: CO1068 DEVER C9

REV210P Sale Dates: 03/31/2018 to 03/31/2018 Selection: All

# URSA OPERATING COMPANY LLC Owner Detail Sales For Owner 1683 GRANT BROTHERS RANCH LLC

1	3	DE	С	2	01	8
			D=	a	0	1

Trans Tx Sale Type Pay Compt Date Check Date End DOI Ref Prd Int. Cd. Interest Quantity Gross Compt Amount Net Paid No. No. Cd Well: CO1068 DEVER C9 0.44 03/18 04/18 1495 C RI M 0.02094180 0.77 SEV 41.39 05/25/18 407067 695 44.06 ADV 0.03 CON 03/18 04/18 1500 RI 0.02094180 146.81 313..01 FUEL 1.92 150.00 05/25/18 407067 705 G M TRN 37.31 GTH1 54.41 GTH2 59,56 SEV 1,60 7.99 ADV CON 0.22 120.01 105.06 36.80 05/25/18 407067 03/18 04/18 1505 NGL RI M 0.02094180 PRC2 715 65.84 SEV 0.39 ADV 1,96 CON 0.07 03/18 05/18 1500 RI M 0.02094180 146.81-313.01-FUEL 1.92-150.00- 06/25/18 407519 725 TRN 37.31-GTH1 54.41-GTH2 59.56-1,60-SEV ADV 7.99-CON 0.22-03/18 05/18 1500 0.02094180 146.81 313.01 FUEL 1.92 144.89 06/25/18 407519 735 G RI M 37.31 TRN GTH1 54.41 GTH2 65.00 SEV 1.54 ADV 7.72 CON 0.22 239.05 Well Paid Total 267.59 462.13 223.08 Well: CO1070 DIXON A1 03/18 04/18 1510 C RI M 0.02094180 1.85 105.52 SEV 1.06 99.11 05/25/18 407067 696 ADV 5.28 CON 0.07 03/18 04/18 1515 G RI M 0.02094180 79.87 170.30 FUEL 1.04 82.01 05/25/18 407067 706 TRN 20.30 GTH1 29.60 GTH2 31.99 0.87 SEV 4.37 ADV CON 0.12

REV210P

Selection: All

Sale Dates: 03/31/2018 to 03/31/2018

#### URSA OPERATING COMPANY LLC Owner Detail Sales

13 DEC 2018

Page 5

For Owner 1683 GRANT BROTHERS RANCH LLC

Compt Date Check Trans Tx Type Pay Sale Per Net Paid No. No. Cd End DOI Ref Prd Int. Cd. Interest Quantity Gross Compt Amount Date Well: CO1070 DIXON A1 20.02 05/25/18 407067 716 03/18 04/18 1520 NGL RI M 0.02094180 65.30 57.16 PRC2 35.82 0.21 SEV \ ADV 1.07 0.04 CON 79.87-170.30-FUEL 1.04-82.01- 06/25/18 407519 726 03/18 05/18 1515 G RI M 0.02094180 TRN 20.30-GTH1 29.60-GTH2 31.99-SEV 0.87-ADV 4.37-CON 0.12-79.27 06/25/18 407519 736 170.30 03/18 05/18 1515 G RI M 0.02094180 79.87 FUEL 1.04 20.30 TRN GTH1 29.60 GTH2 34.91 0.84 SEV ADV 4.22 CON 0.12 Well Paid Total 147.02 332.98 134.58 198.40 Well: CO1071 DIXON All 47.64 05/25/18 407067 697 0.51 03/18 04/18 1525 C RI M 0.02094180 0.89 50.73 SEV 2,54 ADV CON 0.04 0.91 71.46 05/25/18 407067 707 03/18 04/18 1530 0.02094180 69.88 148.99 FUEL G RI M TRN 17.76 GTH1 25.90 GTH2 28.29 SEV 0.76 3.81 ADV 0.10 CON 50.01 17.52 05/25/18 407067 717 57.13 PRC2 31.34 03/18 04/18 1535 NGL RI M 0.02094180 0.19 SEV 0.93 ADV 0.03 CON 69.88-148.99-FUEL 0.91-71.46- 06/25/18 407519 727 G RI M 0.02094180 03/18 05/18 1530 TRN 17.76-GTH1 25.90-GTH2 28-29-0.76-SEV

3.81-

ADV

# REV210P URSA OPERATING COMPANY LLC Sale Dates: 03/31/2018 to 03/31/2018 Owner Detail Sales Selection: All For Owner 1683 GRANT BROTHERS RANCH LLC

13 DEC 2018 Page 6

Sale Per Date End DOI Ref	Prd		Pay Cd.	Interest	Quantity	Gross	Compt	Compt Amount	Net	Date Paid	Check No.	Trans Tx No. Cd
Well: CO1071 DIXON A1:	l G	RI	М	0.02094180	69.88	148.99	CON FUEL TRN	0.10- 0.91 17.76	69.02	06/25/18	407519	737
							GTH1 GTH2 SEV ADV CON	25.90 30.88 0.74 3.68 0.10				
	W	ell P	aid T	Total	127.90	249.73		115.55	134.18			
Well: CO1072 DIXON A2												
03/18 04/18 1540	С	RI	M	0.02094180	0.95	54.40	SEV ADV CON	0.54 2.72 0.04	51.10	05/25/18	407067	698
03/18 04/18 1545	G	RI	М	0.02094180	57.92	123,50	FUEL TRN GTH1	0.76 14.72 21.47	59.32	05/25/18	407067	708
							GTH2 SEV ADV CON	23.35 0.63 3.16 0.09				
03/18 04/18 1550	NGL	RI	M	0.02094180	47.35	41,45	PRC2 SEV ADV	25.98 0.15 0.77	14.52	05/25/18	407067	718
03/18 05/18 1545	G	RI	M	0.02094180	57.92-	123,50-	CON FUEL TRN	0.03 0.76- 14.72-	59.32-	06/25/18	407519	728
							GTH1 GTH2 SEV ADV	21.47- 23.35- 0.63- 3.16-				
03/18 05/18 1545	G	RI	М	0.02094180	57.92	123.50	CON FUEL TRN GTH1 GTH2 SEV	0.09- 0.76 14.72 21.47 25.49 0.61	57.31	06/25/18	407519	738
							ADV	3.05				
	₩e	ell Pa	aid T	otal	106.22	219.35	CON	0.09 96.42	122.93			

Well: CO1073 DIXON A3

REV210P Sale Dates: 03/31/2018 to 03/31/2018 Selection: All

# URSA OPERATING COMPANY LLC Owner Detail Sales For Owner 1683 GRANT BROTHERS RANCH LLC

13	DEC	2	01	8
	Pa	g	e	7

Sale Date	Per End	DOI Ref	Prd	Type Int.		Interest	Quantity	Gross	Compt	Compt Amount	Net	Date Paid	Check No.	Trans Tx No. Cd
	01073 04/18	DIXON A3 1555	С	RI	М	0.02094180	0.86	48.95	SEV ADV	0.49	45.98	05/25/18	407067	699
03/18	04/18	1560	G	RI	М	0.02094180	76.13	162,33	CON FUEL TRN GTH1 GTH2	0.03 1.00 19.35 28.22 30.03	78.59	05/25/18	407067	709
03/18	04/18	1565	NGL	RI	М	0.02094180	62.24	54.48	SEV ADV CON PRC2 SEV	0.84 4.19 0.11 34.15 0.20	19.07	05/25/18	407067	719
03/18	05/18	1560	G	RI	М	0.02094180	76.13-	162,33-	ADV CON FUEL TRN GTH1	1.02 0.04 1.00- 19.35- 28.22-	78.59-	06/25/18	407519	729
									GTH2 SEV ADV CON	30.03- 0.84- 4.19- 0.11-				
03/18	05/18	1560	G	RI	М	0.02094180	76.13	162,33	FUEL TRN GTH1 GTH2 SEV ADV	1.00 19.35 28.22 32.77 0.81 4.05	76.02	06/25/18	407519	739
			W	ell P	aid 1	Total	139.23	265.76	CON	0.11 124.69	141.07			
Well: C0 03/18			С	RI	М	0.02094180	1.01	57.86	SEV ADV CON	0.58 2.89 0.04	54.35	05/25/18	407067	700
03/16	04/18	1593	G	RI	M	0.02094180	77.77	165.83	FUEL TRN GTH1 GTH2 SEV ADV CON	1.02 19.76 28.83 30.93 0.85 4.26 0.12	80.06	05/25/18	407067	710

REV210P Sale Dates: 03/31/2018 to 03/31/2018 Selection: All

# URSA OPERATING COMPANY LLC Owner Detail Sales For Owner 1683 GRANT BROTHERS RANCH LLC

13 DEC 2018 Page 8

Sale Date	Per End	DOI Ref	Prd	Type Int.			Quantity	Gross	Compt	Compt Amount	Net	Date Paid	Check No.	Trans Tx No. Cd
Well: CC 03/18		DIXON A8 1598	NGL	RI	М	0.02094180	63.58	55. 66	PRC2 SEV ADV	34.88 0.21 1.04	19.49	05/25/18	407067	720
03/18	05/18	1593	G	RI	М	0.02094180	77.77-	165, 83-	CON FUEL TRN GTH1 GTH2 SEV ADV CON	0.04 1.02- 19.76- 28.83- 30.93- 0.85- 4.26- 0.12-	80.06-	06/25/18	407519	730
03/18	05/18	1593	G	RI	М	0.02094180	77.77	165,83	FUEL TRN GTH1 GTH2 SEV ADV CON	1.02 19.76 28.83 33.76 0.82 4.12 0.12		06/25/18	407519	740
			W	ell P	aid '	Total	142.36	279, 35		128.11	151.24			
				wner		Total 1	1364.51 1364.51	2,682.46 2,682.46		1,230.96 1,230.96	1,451.50 1,451.50			



July 21st 2015

Malinda Morain Beatty & Wozniak, P.C. 216 Sixteenth Street, Suite 1100 Denver, CO 80202

Grant Brothers Ranch, LLC v. Antero Resources Piceance Basin Corporation and Ursa Operating Company, LLC; Case Number: 2014CV30180

Dear Ms. Morain:

As requested, I have reviewed the Expert Report of Mary Ellen Denomy, dated June 16, 2015, in the referenced case. I hereby submit the following Expert Report in rebuttal to the opinions and conclusions presented in Ms. Denomy's report.

Sincerely,

Timothy L. Hower, PE

**Chief Executive Officer** 

Based on my review of the Expert Report prepared by Ms. Denomy, and my experience in drilling, completion and production in the oil and gas industry, and the Piceance Basin in particular, I submit the following responses to the opinions and conclusions presented in Ms. Denomy's report:

Ms. Denomy suggests on Page 4 of her report that Antero's costs for drilling and completing the
Dever C-9 well are "over four times the amount that other producers in the immediate area
were paying to drill a well". Her conclusion is based upon a comparison of drilling costs in 2008
reported by Bill Barrett Corporation and WPX versus the drilling costs reported by Antero for
their C-9 well. Ms. Denomy's conclusions are incorrect.

Presumably, the drilling costs she references for Bill Barrett Corporation (\$1.6 million) and WPX (\$1.4 million) are costs associated with drilling and completing a well in the Williams Fork formation, which requires a well drilled to a total depth of approximately 8,750 feet. The Antero Dever C-9 well was drilled to a total depth of over 12,000 feet targeting the Mancos formation. Comparing the two wells is analogous to comparing apples and oranges. In contrast to a shallow Williams Fork well, a well drilled to the deeper Mancos formation requires the following:

- Up to 10 days additional rig time due to the deeper drill depth.
- An extra string of intermediate casing to isolate the deeper Mancos intervals from the shallower Williams Fork horizons.
- Numerous additional frac stages to complete the deeper Mancos target intervals.

The above items collectively add millions of dollars to the cost of a deep Mancos well in comparison with a shallower Williams Fork well. This is evident in looking at the Authority For Expenditure ("AFE") pre-drill estimated costs for the Dever C-9 well (Exhibit 1), which was a Mancos well, versus that of the Dixon A-4 well (Exhibit 2), which only targeted the Williams Fork. The estimated pre-drill costs of the C-9 Mancos well are over twice that of the AFE estimated costs for the A-4 Williams Fork well.

Thus, for Ms. Denomy to conclude that Antero has overstated its drilling costs for the Dever C-9 deep Mancos well based on a comparison with drilling costs reported by Bill Barrett Corporation and WPX for their shallower wells is incorrect. One should never expect the two well costs to be similar.

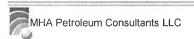
2. Based on my experience, it is my opinion that the AFE costs estimated by Antero as presented in Exhibits 1 and 2 are reasonable and are not overstated. Referring to Exhibit 2, this shows the Antero AFE pre-drill cost estimate of approximately \$2.3 million for a Williams Fork well. While this figure is admittedly higher than the \$1.4 million to \$1.6 million drilling cost estimates quoted by Ms. Denomy from WPX and Bill Barrett Corporation, respectively, I do not think that the Antero AFE estimate is out of line. I have reviewed the line item breakdown of costs in the

Antero AFE, and it is my opinion that these costs are reasonable and justified. Further, it is important to note the following regarding the \$1.4 million and \$1.6 million costs quoted by Ms. Denomy in her report:

- Ms. Denomy states that the referenced costs for the two companies were for "drilling wells". Thus, there is no way to verify if these costs are understated because they might not have included all or a portion of the well completion costs. Well completion costs associated with hydraulic fracturing alone are significant and often represent up to 30% to 40% of the total well costs. Therefore, if Ms. Denomy's referenced costs are for drilling costs only, then the true total well costs, once completion costs are included, would likely equal or exceed the Antero AFE estimate. Reference #14 cited in Ms. Denomy's Expert Report states, "Completing a well in the Piceance Basin can cost up to \$1.2 million". Those are completion costs only and do not include costs to drill the well. In my opinion, if it is costing \$1.2 million to complete the well, there is no way that the entire total costs to drill and complete the well could be \$1.4 million or \$1.6 million. It would have to be higher than that.
- Ms. Denomy states that her referenced drilling costs are for "wells in the area".
  However, she provides no information as to the depth, the completion interval, or even
  if these referenced wells are conventional gas wells or perhaps coalbed methane wells
  instead. Essentially, there is no way to determine if Ms. Denomy's referenced well costs
  are valid comparisons to the Antero wells.
- Table 1 in Reference #15 cited in Ms. Denomy's Expert Report shows a drilling and completion cost of \$1.9 million for a Williams Fork well in the Piceance Basin. It is curious that Ms. Denomy did not include that higher cost in her range of estimated drilling costs.
- The 2009 Annual Report from Bill Barrett Corporation shows that the company's capital expenditures in the Piceance Basin were \$254.8 million for participation in 119 gross wells. That equates to a per well cost of \$2.14 million/well. Again, this number is significantly higher than the well costs suggested by Ms. Denomy.
- Ms. Denomy's referenced costs come from documents in the public domain on company websites and in their Annual Reports. Such numbers are generally successful case values, which are presented to be attractive to potential investors. It would be more representative to look at a range of drilling costs incurred by these companies to see what actual costs were for problem wells or wells which encountered unforeseen difficulties during drilling and completion operations.
- 3. Ms. Denomy states on Page 4 of her report that Antero has listed \$7,071,487.91 of "unsubstantiated expenses for drilling the Dever C-9 well". I do not know the source of Ms. Denomy's figure. My review of payout spreadsheets, along with drilling and completion reports from Antero, indicates that the correct figure would be closer to \$6.6 million. Regardless, the amount of money spent on the C-9 well was substantial, and the conclusion drawn by Ms.

Denomy is that this cost, in comparison with \$1.6 million which she considers to be more in line with the trend for drilling costs in the Piceance Basin, demonstrates that Antero's drilling expenses are overstated and unsubstantiated. Ms. Denomy's allegations and conclusions in this particular instance are also incorrect for the following reasons:

- First of all, as stated above in Item 1, it is incorrect to compare the costs of a deep Mancos well with that of a shallower Williams Fork well. Thus, Ms. Denomy should not be using \$1.6 million value as the measuring stick for Antero's drilling expenses. A more accurate number would be the AFE cost estimate for the C-9 well, which is shown in Exhibit 1 as \$4.7 million.
- Next, we must differentiate between actual expenses incurred in initially drilling and completing the well in 2008 versus additional expenses incurred for recompletion operations several years later designed to increase oil and gas production from the well. Ms. Denomy makes no such differentiation. Her \$7,071,487.91 figure, which in my opinion should be \$6.6 million, includes significant well costs incurred over two years after the well was drilled. These significant additional expenses should not be included if one is attempting to make a comparison of initial drilling and completion costs for wells in a given basin or area.
- My review of the payout spreadsheets, along with the drilling and completion reports from Antero, shows that the actual costs incurred in 2008 to initially drill and complete the Dever C-9 well were approximately \$5.4 million. This is a cost overrun of less than 15% of the original AFE pre-drill cost estimate. That is not overstated, nor is it out of line. A review of the daily drilling records indicated that the C-9 well was a difficult well to drill with many problems encountered during the drilling operations. These problems included an accident resulting in an injured worker, multiple rig repairs, stuck pipe and hole problems requiring repeated reaming of the well. All of these problems would result in delays and additional costs. Further, none of these problems were the result of anything done by Antero. They were instead the result of faulty equipment and poor operations of the rig crew. Because of this, Antero subsequently released the rig due to the poor performance.
- The additional approximately \$1.2 million that Ms. Denomy incorrectly includes in her
  comparison of Antero's initial drilling costs was actually incurred in mid-2010. These
  were not drilling costs but were costs associated with fishing and recovering tubing lost
  in the well, and then recompleting the well into shallower hydrocarbon intervals.
- 4. Ms. Denomy claims on Page 5 of her report that Grant Brothers Ranch, LLC was charged \$620,000 for lease equipment and, after her comparison of information submitted by Antero to the Garfield County Assessor, Ms. Denomy concludes that "This indicates that the amount represented for the surface equipment has been grossly overstated." There are numerous flaws in Ms. Denomy's logic and conclusions in this section of her report as follows:



- Firstly, the \$620,000 referenced by Ms. Denomy was not only for lease equipment. Those costs are for lease <u>and well</u> equipment. The specific items covered by these costs can be seen in the column in Exhibit 1 titled, "Tangible". The costs include several hundred thousand dollars for casing strings run in the C-9 well. They also include costs for tubing run in the well which is required to produce the well. And, the costs also do include surface equipment. However, the important point here is that the majority (well over 50%) of these costs do not pertain to surface equipment, as suggested by Ms. Denomy, but are instead costs related with the well itself.
- Again referencing Exhibit 1, it is interesting to note that the AFE estimate for the lease and well equipment was \$776,900. Thus, Antero actually was substantially below the AFE estimated costs for lease and well equipment on the C-9 well. The costs are not grossly overstated as claimed by Ms. Denomy. They are actually 20% below AFE estimates.
- While I do not know the items associated with the \$1,129,500 value referenced by Ms. Denomy in this section of her report, what is clear is that she is once again attempting to draw a conclusion by comparing two values which have nothing to do with one another. The \$1,129,500 figure is presumably associated with some surface equipment installed on numerous wells within Garfield County. However, the figure at issue, \$620,000, is specific to one well, the Dever C-9, and the bulk of that value has nothing to do with surface equipment, but instead reflects costs for well casing and tubing.
- 5. In reference to the C-9 well, Ms. Denomy further states on Page 5 of her report that Antero acted imprudently to "spend over \$7,000,000 to finish completing this well". She further states that "it would appear that these expenses are inflated as Antero chose to continue completing this well for production". Ms. Denomy's allegations in this section of her report are completely unjustified for the following reasons:
  - I have spent over 30 years working in the oil and gas industry in Colorado. Ms. Denomy's description of how Antero went through the process of deciding how much money was spent to "finish completing this well" is absolutely incorrect. As I stated above in Item 3, the actual total costs incurred by Antero to initially drill and complete the C-9 well were \$5.4 million. Of those costs, approximately \$2.0 million were incurred in the drilling operations. That means this money was sunk, or spent, before any data were collected that would allow an engineer or a geologist to make a determination on the success or failure of the new well.
  - After the initial \$2.0 million was spent on the initial drilling of the well, then, and only then, could anyone have been in a position to determine the value of spending additional money to complete the well. Antero obviously elected to go forward with the completion operations, and in so doing incurred an additional \$3.4 million in completion costs and lease/well equipment. Recall that at the point of making this decision, the

- \$2.0 million of drilling costs was already sunk. To walk away at this point would have meant a total loss of \$2.0 million.
- Instead, Antero elected to spend more money and to see if they could recoup some of the sunk costs in subsequent oil and gas production. According to Ms. Denomy, on Page 5 of her report, the well has produced a gross income of more than \$5.6 million through March 2015. Thus, after \$2.0 million was sunk on the drilling of the C-9 well, Antero elected to place an additional bet of \$3.4 million on the well. According to Ms. Denomy, that \$3.4 million bet returned over \$5.6 million of gross income. That does not sound like an imprudent decision to me. In my opinion, Antero's actions were well thought out and prudent. Their decision to continue completing the well for production did not inflate expenses as alleged by Ms. Denomy. Rather, that decision allowed Antero to recover a significant amount of money that otherwise would have been lost.
- 6. Ms. Denomy's concluding opinion on Page 5 of her Expert Report is that the Dever C-9 well may have already reached payout and that the Grant Brothers Ranch, LLC should be receiving 16.7534437% of the income earned from the well. That conclusion is incorrect. I have analyzed the payout spreadsheets for the Dever C-3, C-4, C-7, C-8 and C-9 wells. In my opinion, the documentation which I was provided to conduct my analysis is consistent with industry standards for information that is compiled and provided in the normal course of generating payout calculations and making payout statements. I have run economic analyses on the future income that will be generated from the wells. These economic calculations included projections of future gas, oil and natural gas liquids which will be produced by the wells (refer to Exhibits 3 through 7, revenues associated with the hydrocarbon production using forward NYMEX forecasts, and projected operating expenses, taxes, and royalties. The results of my analysis, which are shown in Exhibit 8, indicate that none of the referenced wells have reached payout status. Further, my analysis indicates that none of the referenced wells will ever reach payout status where Grant Brothers Ranch, LLC will be able to receive payment for their 16.7534437% interest.

### **Documents Reviewed in Preparing this Report**

- 1. Payout statements for wells C-3, C-4, C-7, C-8, and C-9 provided by Ursa effective as of May 31, 2015
- 2. Oil and gas production data for wells C-3, C-4, C-7, C-8, and C-9 downloaded from IHS
- 3. Antero AFEs for wells C-7, C-9, and Dixon A-4
- 4. Offset production data for Williams Fork and Mancos producing wells downloaded from IHS
- 5. Sales Summary Sheet for C-3 well provided by Ursa
- 6. NYMEX Price Forecast as of June 2, 2015
- 7. Information on NGL ratios and pricing provided by Ursa
- 8. Working Interest and Net Revenue Interest before and after payout provided by Ursa
- 9. Daily drilling reports for wells C-3, C-4, C-7, C-8, and C-9
- 10. Daily completion and workover reports for wells C-3, C-4, C-7, C-8, and C-9
- 11. N.A., October 2, 2001, *Piceance Basin might become very well recognized*, Alexander's Gas and Oil Connections,
  - http://www.gasnadoil.com/news/n america/4d927b4f72182a4b57bf05c0d1265e7e
- 12. Godec, Michael; Van Leeuwen, Tyler; Kuuskraa, Vello; July 24, 2007, *Economics of Unconventional Gas*, OGJ Unconventional Gas Article #5, JAF27107.DOC
- 13. Bill Barrett Corporation 2009 Annual Report
- 14. Expert Report of Mary Ellen Denomy, CPA, MBA, June 16, 2015



ANTI	ERD RESOURCES CORPORATION
	Authority for Expenditure

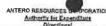
Account	Category	Description	intangible	Tempitos	Total
830/010	Legal			The same of the sa	-0.70
230/010 230/023	Sertace Damages	Sortace Damages	1,000		5,000
	Survey & State Location	Survey / Staking Location	1,500		1,50
600,000	Roam / Greet / Culvert	iffued Road to Locaron	5,000		3,00
830000 830000	Pres / Parning by Engineer	Drilling & Completion Procedures / AFE	1.000		1,00
833/070	Location Precaration	(Outration	15,000		35,00
		Disting File Modification	150,000		150,00
E33/249	Alg Transport	Fire, DJ & Power	80,000		200,000
#300%	Flig Field	27 days 9	540,0001		340,00
839100	10G Ording - Daywork	4 days missis and rig up 42 \$14,000	18,000		16,00
\$30/100	IDC Driffing - Daywork	Ord surface Pole not pige	ol o		
633/120	ICC Onling - Other	(Animal Acceptation Color	8,500		8.50
800/140	Rat Fich & Mouse Hole	Centraling of Conductor Casing	5.000		3.00
830/145	Cameri Conductor		12,000		12,60
800/150	Cenera Surface Cearing	Carriert / Committing Services	18,000		1845
635/155	Cemera Internaciate Cesting	intersedute Casing & Plass Equipment	3,000		3,00
6001100	Highlace Casing Crew & Tongs	Surface Cating Craw	10,506		10.00
830n65	Intermediate Casing Crew & TongstoM	Casing CrawTongs/Lay Down Machine			10,00
B33:170	Weiging Surface Casing & Shop	Walding Services	D	_	
800/1h0	Causoge Services Mudogang Pason	NO days to \$750 hiry	15,000		13,00
833/199	Waser (Ording & Comercing)	Differe Water & Fluida (Commetting)	5,000		
600/200	Drilling Flydds, Mud & Chemicals	(Vod & Chemicals	200,000		200,00
830/210	Participant	Pennits, Frits			
833/235	Borks and Insurance	\$0.77 f per foot	10,200		10,20
830/250	Contract Colong Supervision	If says 0 - 150 day	33,600		33,80
820/270	Equipment Harcas	Plental Tools / Equipment	75,600		78.00
830293	Materials and Supplies	Union & Temporary Ferging	3,100		2,9
830/310	Eta and Resinces	11 12-14" POC, 14) 7-7/8" POC Brs	\$5,000		\$5,00
800/220	Contract Services/ Househouse Ording	Contract Services / Labor	35,000		35,00
#30/S24	Security Services		. 01		
830/330	Mud Disposal & Currings	Hauf Dritted Cuthings	7,500		T,N
820/240	TruckingNinyling	Trucking & Haufing	7,500		7,6
800/350	Open Pale Logs	Open Pace Looping	10.000		10,0
8207272	Drilling Fixed Overfread		1 6		
630/420	Mecaliansons Expense/Supplers	Materials & Bupplies	10,000		10,0
530/453	Environmental & Safety	Curring Indenterator and Crew	0		
830/480	Dructional Draining Tools	Tools Supervision Surveys	162,000		192.0
E30-450	TOTAL DAILLING COSTS:	1.022 1.002 2.002 20.1074	1.645.500	- 6	1,645,50

		COMPLETION COSTS (ACP)			
840/040	Completion Unit-Dayertr'S	6 days @ \$5,000kby	30,000		30,00
640/050	Contract Completion flugrantsion	18 days @ \$1,000 day / 10 @ \$500 day	15,000		15.00
690/046	Production Certains	Prioution Carnel & Fluit Equipment	55,000		55.00
849/079	Producton Castry Crew & TangettM	Caseg Dev	20,000		20,00
840/080	Fowl and Power	Fool and Provet	6,000		8.00
840000	Carses Hole Log Performs	Logging & Perforation	135,000		133,00
B40/100	SICK LIM WOR	Puring Purget	3,000	1117.7	3.00
B40F110	Roam & Location & Pt Pastoration	Presides location / Pa Restoration	5,000		5,00
BAST120	Pulseg Tracks & Egyptield	Philling Trucks & Etailpmens	2,500		2,50
6407130	Frac Treatment	Uncludes from treatment & chemicals	1,755,000		1,785,00
8407135	(Frac Testing/Analysis	Frac Testing/Anshalt (Traces Sun-19)			
040/140	Equipment Number	Water Transfer, DOP & Derival Plantal	15,000		15,00
840 150	Trucking & Hauling	Trucking & Hauting	8,000		1,65
840/160	Water (Frac Elimination & Cementing)	Frac Water & Comenting Water	16,000		15,00
BAQ1170	PanySupries/Box	Augustian Company of the Company of	0		
843/100	Contract Benkins / Liber	Contract Services / Labor	25,000		25,00
E43/190	DEE Insurance	12 200 9 10 169	6,869		8,50
540770	(Squaezatta Complete Camers		0		
\$40230	Chameola		59,800		59,10
843/249	Diese For A Flowback Tark	Hast Fred Water & Flowback Tare (Winter)	- 0		
84323D	Fear Tark Present	Frac Tack Hereini	20,000		30,0
840060	Figure 1, tip a and deposal	Flowback, Hawi & Disposal	29,000		20,0
540210	Apd pog/Neropen		5		
843/300	Sweeting	Supotenes	\$,000		5,0
849/300	Freed Rate COPA's Overhood	Consistion - Administrative Cytymood	6,000		6.0
840000	Province well testing	(frontables fight plant, text, heckup & sign	25,000		25.0
849500	Macetarana ExpenserSuppres	Manfantova	8,000		5,0
850005	Conductor Casing	100 of 13-5-8" Conductor		2,000	2.94
HIGHTO	System Casing (New)	1200' of 9 5/9" 364 3 58 5TAC (R-3 Cappy)		45,800	49,50
BACKEG	Intermediate Casing (hiper)	8400 of 7 264 P-110 LT&C P-3 Cealing		277,6001	227,64
8507000	Production Caung	6400 - 4-1/2" 15 19 P-110 L18G R-3 Gapros		140,400	140.6
850/049	(Tubing (Free)	112 300 - 2-3/8" A.74 M-80 EL/E FI-2 Tubing		36,500	66.3
850/050	Fortheringstation	Installation of Flow Lines		15,000	15.0
850/000	Weiten! Assertly	Braden head, "B" Section and Sr. Tree		13.000	15.0
850000	Filtrage & Valves, Contract	Finance, Valves, Contriès		25,000	25.0
850/100	Production Unit	Tryge Phase Pippiamon Unit		20,000	30.0
650/110	1-6 Prospers Separatur	10 X 16' Separator Vescal - Installation		49,000	49.0
850/130	Of Tens	200 Blk De Tank		7,500	7,5
	Weter Tarik	200 BBL Water Taris		7,500	7.5
850/140 850/155	Production Link trustations	installation of Production Unit.		1,500	7.5
	Face Buttery/Header Surtalistics	Steel Tark/Dattery/mits#		7.500	7.5
630/180		Contursion Unit		2,000	2.0
850/190	Line Hagain	Anchors for constituent in		1,700	1.2
633/200	Anchora	Total Flow Helafaton		15.000	18.6
592/550	Gas Matering			0	- 1757
550740	Mater Hut	Maker Plum + Instatation		ě.	
610/2ED	Anticetti			0	
850/300	Countries Equipment			2,500	2.5
500370	Fence / Caltinguant / Culvert	Fances / Curringuate / Culverts - Vietal		73.000	23.0
550900	Mac Downcie Eque.	Profile Hopies, Purp fluts, Composites	1,393,600	776,900	3,637,7
100	TOTAL COMPLETION COSTS:			176,000	9,037,7
e Expension	f Intervalue Const		\$3,975,300	\$778,500	

Ourse Approved Toe Days

Exhibit 1: C-9 AFE





		_	Mark Street Street	
Prospect	DIXON		Field Marrier Creek Flets	PICEANCE BASIN
Well Name/No	DIXON A-4		Formation Wilharns Fork / (lee	
Drig Contractor			Permitted Total Depth	API No
County/State	Garfield/CO		Estimated Total Depth 8,750' MD	Drilling Permit No
Location SHL	1 250 FAL 2 400 FWL (NO 18 85-92W)	BHL	1 400' FNL 525 FWL (N/2 18-69-92W)	
Elevation GL	The south of the control of the south	XB		AFE No DIXON A-4
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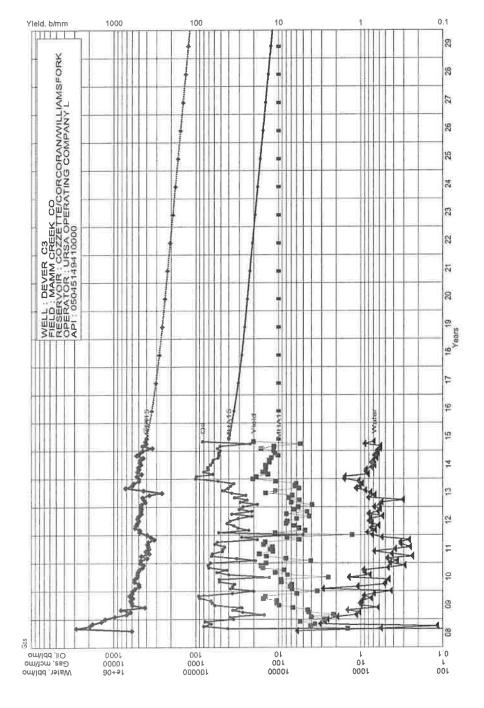
Account	Category	Description	Intangible	Tangible	Total
830/010	Legal	2010000000	0		
630/020	Surface Damages	Surface Darmages	5,000		6,00
830/030	Sturvey & Stake Location	Survey / Staking Location	1,600		1,50
820/050	Roads / Gravel / Curvert	Build Road to Location	5,000		5,00
090/068	Prep / Planning by Engineer	Drilling & Completion Procedures / AFE	8,000		5,00
B30070	Location Preparation	Puild Location	10,0001		10,00
630/060	Rig Transport	Drilling Rig Mobilization	20,000		20,00
830/090	Rig Fuel	Fool, Oil & Proved	76,008		70,00
630/100	IDC Drifting - Daywork	18 days @ \$17,500	316,000		315,000
830/120	IDC Diffing - Other	2 day MIRU @ \$17,500	39,000		38,00
830/140	Rat Hoin & Mouse Hole	Rathole/Mourahole/Cellar	10,000		10,00
830/145	Cement Conductor	Cementing of Conductor Casing	10,000		10,00
830/150	Cement Surface Cesing	Cement / Comenting Services	25,000		25,00
530/150	Surface Casing Crew & Tongs	Surface Casing Crew	3,000		3,00
630/170	Welding Surface Casing & Shoe	Welding Services	6,000		5,00
0011008	Geologic Services/Mudloggling/Passa	18 days £8 \$750/day	13,600		13,50
0011000	Water (Drilling & Cementing)	Drilling Water & Fhalds (Cementing)	6,000		5,000
830/700	Drifting Fluids, Mud & Chamilcais	Mud & Chemicals	50,000		60,00
830/210	Parmits/Fees	Permits, Fees	300		30
830/230	Bonds and Insurance	8,750 @ \$0.77/foot	5,736		4,75
830/250	Contract Dniling Supercision	20 days (# \$1,250/day	25,000		26,00
830/270	Equipment Rental	Rental Yooks / Equipment	105,000		105,00
830/280	Materials and Supplies	Liners & Temporary Fencing	6,0001		5,00
630/010	Bits and Reamers	(f) 12-1/4" PDC, (3) 7-7/0" PDC Bits	35,000)		35,00
530/320	Contract Services/ Roustabouts Delling	Contract Services / Labor	35,000		35,00
830/330	Mad Disposal & Cuttings	Haut Drilled Cuttings	20,000		20,60
830/340	Trucking/Hauling	Trucking & Nauling	26,000	5.00	25,00
B30/350	Open Hole Logs	Open Hole Logging	0)		
830/370	Drilling Filed Overhead	- PASTALL SHARES	0.		
830/430	Miscellaneous Expense/Supplies	Materials & Supplies	10,000		10,00
830/480	Desctional Drilling Tools	Yeola, Rupervision, Surveys	126,900		134,90

660130   Free Testing/Analysis   Free Testing/Analysis (Traces Burvey)   0	39,009 18,000 60,000 14,000 2,500 60,000 2,500 2,500 2,500 15,000 8,000 8,000 5,000
5600000   Production Cement   Production Cement   Float Equipment   80,000	50,000 14,000 2,500 60,000 2,500 8,000 0 15,000 8,000 5,000
6459770   Production Caseng Greer & TongsUM   Casing Greer   14,000	14,000 2,500 80,000 2,500 8,000 0 15,000 8,000 8,000
Section   Fuel and Proces   Fuel and Proces   2,600	2,500 80,000 2,500 8,000 2,500 800,000 0 15,000 8,000
	50,000 2,500 8,000 2,500 600,000 0 15,000 8,000
SACTION   Stack Law work   Pulling Plugger   2,800	2,500 8,000 2,500 860,000 0 15,000 8,000
640110   Riseas & Location 6   P.H. Hastershort	5,000 2,500 600,000 0 15,000 8,000 5,000
Add   170   Fulling Trucks & Equipment   2,500	2,500 860,000 0 15,000 8,000 5,000
Add	15,000 8,000 5,000
640135   Feet Testing/Analysis   Feet Testing/Analysis (Traces Burvey)   9	0 15,000 8,000 5,000
###   ###	8,000 5,000
640150   Trucking & Hailung   Floricking & Hailung   6,000	8,000 5,000
640/160	5,000
640/170	
5401160   Centruct Services   Labor   Contract Services   Labor   25,000	
5401100   OEE Imparance   0,750 (\$ 30 66/8   10 66/8   10 67/8   10 66/8	2,500
5401100   OEE Imparance   0,750 (\$ 30 66/8   10 66/8   10 67/8   10 66/8	25,000
BADC200   First Tenk Resold   First Tenk Resold   Stock   St	6,775
#40200   Favetack, Hud and daptoral   Floreback, Hud & Dhyposal   20,000	
6407300   Dwebberg   Swebbirg   0	30,000
SADDISC  Fleed Rate COPAS Overhead   Competition - Administrative Overhead   6,000	20,000
SADDISC  Fleed Rate COPAS Overhead   Competition - Administrative Overhead   6,000	0
Texture   Text	8,000
BACTISOD   Minocilaterosis Ergenna/Dispiles   Miscelaterosis   5,000	25,000
550005   Cerdulate Craing   TS of 19" Conductor (Incused in 500 147)   Conductor (Incused in 500	5,000
### 1500010 Durface Citalog (New) ### 1507 of 6-5/0" 248/028 0 T&C R 3 Cating	0
250/000   Production Cashing   0.750 * 5-1/2* /18 P-110 LTAG R-3 Cashing   137,195	14,750
850/040   Tuberg (New)   8,750" - 2,10" 4.78 N-20 EUE R-2 Tubing   40,250	132,125
##   ##   ##   ##   ##   ##   ##   #	40,260
#\$50050 Walthard Assembly Braden head, "10" Section and SK Tree 11,000   850050 Fittings & Valvey, Controls F-Filings, Valvey, Controls 25,000   850100 Production Unit Three Please Production Unit 22,000   850130 Of Test 300 BBL Of Test 7,600	15,000
850/080 Fittings 6 Valves, Controls Fettings, Valves, Controls 25,000   850/100 Production Unit Three Phase Production Unit 23,000   850/100 Of Yest 300 BBU, Of Yesk 7,600	15,000
850/100 Production Unit Tiree Phase Production Unid 22,000 850/130 CM Yank 7,600	25,000
850/130 Of 7ext 300 BBL Of Years 7,500	23,000
	7,500
	7,500
BSQ155 Production Unit Installation Installation Installation of Production Unit 7,600	7,500
SSOVIGO Tank Editor/Hander Installation Steel Tank/StatteryInstall 7,500	7,500
250/190 Line Heater Combustion Unit 5,000	8,000
BS0/200 Anchors Anchors (Anchors for completion rig	1,200
950/220 Artifold (Sas Metaling Total Flow Installation 16,000)	16,000
	10,020
	2,500
	25,900
850/000 Maic Downhole Equip Profile Rippies, Pump Sub, Composites 25,000 VIOTEL COMPLETION COSTS 245,776 C	
	140
al Estimated Intangible Cost \$1,840,613	
at Extracted Targebia Cost 5343,325	
YAL ESTIMATED WELL COST \$2,	203,920

Prepared by Stork Fertenot

Antero Resources Corporation will carry operators extre expense (OEE) well control insurance for all parties electing for participate in the drilling ancilor completion of this well, unless solvied otherwise in the time this form is executed Costs shown on this form are estimates only. Non-operators should not consider these estimates as establishing any limits on the monles which will be regulated to perform the proposed operation.

Exhibit 2: Dixon A-4 AFE



**Exhibit 3: Dever C-3 Rate-Time Production Forecast** 



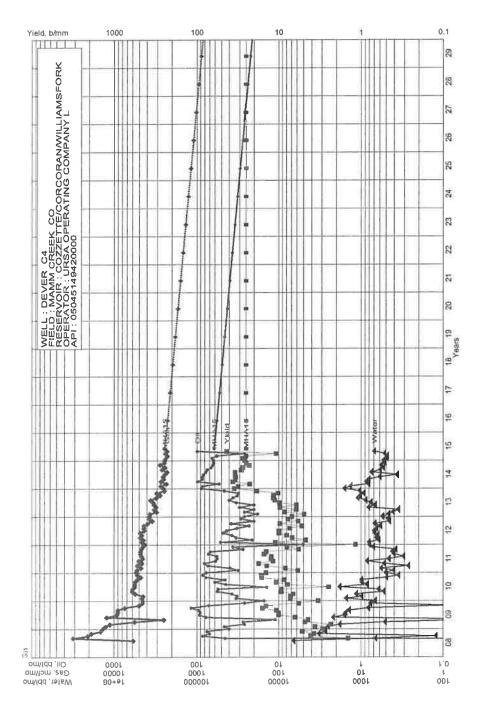


Exhibit 4: Dever C-4 Rate-Time Production Forecast



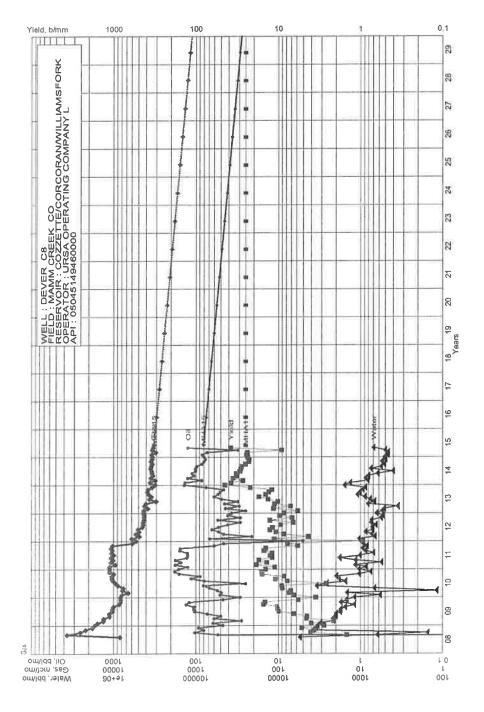


Exhibit 5: Dever C-8 Rate-Time Production Forecast



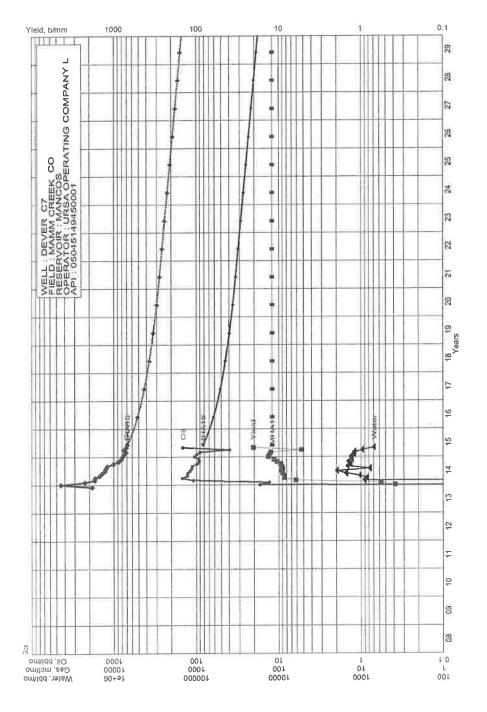


Exhibit 6: Dever C-7 Rate-Time Production Forecast



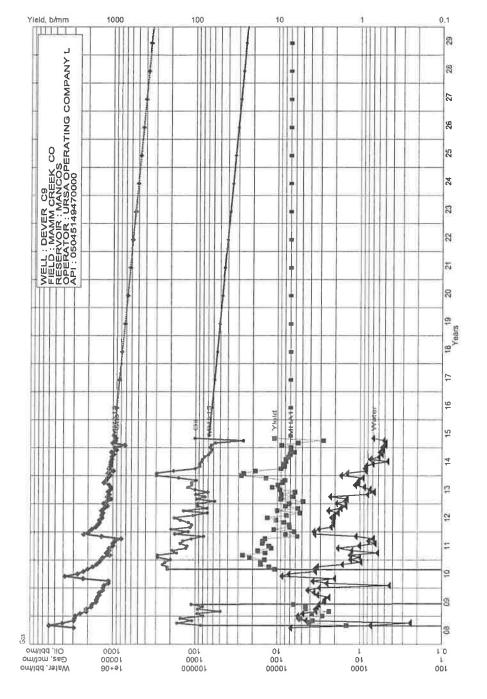


Exhibit 7: Dever C-9 Rate-Time Production Forecast



	Gross Payout Balance	Projected Gross Undiscounted Future Cashflow
	as of 05/31/2015	from 06/01/2015
ឌ	5,720,839	75,235
C4	3,856,329	98,281
83	8,228,114	351,828
C7	13,443,741	509,103
60	10,311,593	1,474,836

Exhibit 7: Gross Undiscounted Cashflow comparison to Gross Payout Balance

# TIMOTHY L. HOWER, P. E.

Chief Executive Officer

### MHA Petroleum Consultants LLC

730 17<sup>th</sup> Street, Suite 410 Denver, Colorado 80202 USA

Phone: +1 303 277 0270 Mobile: +1 303 204 0220

e-mail: thower@mhausa.com



- B. S., Petroleum Engineering, Penn State University, 1981
- M. S., Petroleum Engineering, Penn State University, 1983

### PROFESSIONAL PROFILE

In excess of thirty years of petroleum engineering evaluation experience including:

- Supervision/Project Management of technical studies including
  - Independent Expert on major international equity redetermination projects, mergers and acquisitions, arbitrations, and joint venture field development programs.
  - Integrated geological modeling, reservoir characterization and numerical simulation studies conducted worldwide.
  - Evaluation, assessment and field development planning for shale gas and shale oil reservoirs in the US, Europe, China, South Africa and Australia.
  - Reserve valuations, equity studies and acquisition due diligence of major oil and gas assets located in the domestic US and worldwide.
- Evaluation and optimization of underground gas storage projects located in the U.S., Europe and Australia. Conducted industry training courses on reservoir engineering of underground gas storage reservoirs, and co-authored an industry textbook on gas storage reservoir management.
- Unconventional gas reservoir development (coalbed methane, shales, tight gas).
   Authored and presented industry training courses on coalbed methane and tight gas reservoirs.
- Black oil, compositional, and unconventional reservoir simulation studies (North/South America, Europe, Africa, Australia, New Zealand and China).
- Exploration, exploitation and infill development of oil and gas reservoirs.
- Design and management of waterflood and tertiary recovery programs.
- Design and implementation of pressure transient testing programs for reservoir characterization and evaluation.



- Development and instruction of reservoir engineering, production optimization and reservoir simulation industry training courses offered through OGCI-Petroskills.
- Manager of software client support and instruction of training courses for the ECLIPSE suite of software products.
- Expert witness testimony and testimony before various regulatory commissions.

Registered Professional Engineer: Colorado, Wyoming U.S.A.

### **WORK EXPERIENCE**

### MHA PETROLEUM CONSULTANTS, LLC., Denver, Colorado:

# (July, 1997 - Present) CEO and Petroleum Engineering Consultant

Responsible for the day to day operations of an organization of approximately 25 people with active engineering projects throughout the world. In charge of staff development, staff recruitment, development of new business and new business contacts, as well as maintaining relationships with the company's existing client base. Project Manager of numerous engineering consulting projects worldwide. Instruction and development of industry training courses.

### ENRON OIL & GAS COMPANY, Denver, Colorado and Houston, Texas:

(October, 1995 to June, 1997) Engineering Manager

In charge of a staff of reservoir, production engineers, and support personnel. Responsible for property evaluations, exploration and exploitation drilling programs, secondary recovery design and implementation, reservoir simulation studies, reserve and acquisition evaluations, and annual budgeting and forecasting for EOG's largest division.

### INTERA Petroleum Division, Denver, Colorado:

(October, 1990 to September, 1995) Sr. Manager, E&P Studies; Consulting Engineer

Manager of the North American consulting group which included a staff of more than 30 geologists, geophysicists, petrophysicists and engineers. Responsible for staff development, staff recruitment, and profit/loss for Intera's largest global consulting group. Provided engineering, simulation and software support services for clients in North and South America, Europe, Africa, Australia and China.

### CNG Development Company, Pittsburgh, Pennsylvania:

(October, 1988 to September, 1990) Staff Engineer

Management of oil and gas properties in conventional and unconventional (tight sands, shales, and coalbed) reservoirs. Production forecasting, field optimization, reserve estimates, formation evaluation, and depletion and drainage studies.

### TENNECO OIL Exploration and Production, Denver, Colorado:

(June, 1983 to September, 1988) Senior Reservoir Engineer

Responsible for management of oil and gas properties in the Rocky Mountain Region. Unitization studies for several enhanced recovery projects in North Dakota. Lead engineer for Tenneco's significant interests in the San Juan Basin of New Mexico.

#### PROFESSIONAL MEMBERSHIPS

- Elected in 2015 as a Society of Petroleum Engineers (SPE) Distinguished Member.
- C. Drew Stahl Distinguished Alumni Achievement Award presented by the Pennsylvania State University, April 2011.
- Chairman Denver Section of the SPE; 2001/2002.
- SPE Henry Matson Technical Service Award, May 2000, for innovative contributions in the field of engineering in gas reservoirs.
- Chairman; SPE Reprint Series on Layered Reservoirs
- Editor: SPE Reprint Series on Reservoir Management
- Professional Engineering Registration Committee
- General Chairman, 1993 SPE Low Permeability Reservoirs Symposium
- Program Chairman, SPE Low Permeability Reservoirs Symposium (1995, 1998, 2000)
- SPE Gas Technology Committee; SPE Reprint Series Committee
- SPE Distinguished Lecturer Selection Committee
- General Chairman; 2005 SPE Rocky Mountain Technical Conference

### **PUBLICATIONS**

- Sipeki, J. and Hower, T.L., "Impact of Operator's Best Practices, Completion Design and Well Density on Projected Ultimate Recoveries of Horizontal Bakken Wells in Williams County, North Dakota", to be presented at the 2013 Unconventional Resources Technology Conference (URTeC), Denver, Colorado, 12-14 August.
- 2. Aldrich, J., Hower T.L., and Sipeki, J., "Assessing and Advancing a CBM Resource Play Towards Commerciality A Case Study From the UK; PEDL 159 Solway Basin", presented at the AAPG 2012 International Convention, Singapore, September 2012.
- 3. "Certification of Reserves and Resources for CSG Assets", workshop presented at the Asia Pacific CBM Forum, 8 May 2011, Brisbane.
- 4. "Modeling Unconventional Gas Reservoirs", workshop presented 20-21 February 2010, Adelaide, Australia.
- 5. "Performance Evaluation of CSG Reservoirs", workshop presented 17-19 February 2010, Brisbane, Australia.
- 6. "Reservoir Aspects of Unconventional Gas Resources: Coalbed Methane, Shales and Tight Gas", workshop presented at the SMi Unconventional Gas Conference, London, April, 2009
- 7. "Coalbed Methane Geology, Engineering and Reserves", workshop presented January, 2009, Kuala Lumpur, Malaysia.
- 8. "Coalbed Methane Progressing from Resource to Reserves", workshop presented at the SMi Unconventional Gas Conference, London, March, 2008

- 9. "Coalbed Methane Reserves Workshop", Brisbane, Australia, 2008
- 10. "Recent Developments in Forecasting Coal Seam Methane Production", presentation for the Brisbane, Australia SPE Section, 15 February 2005.
- 11. "A U.S. Perspective. Forecast for the Future Reliability of Supply and Deliverability of Coal Seam Methane Resources", presentation at the December 2003 Australian CBM Conference in Brisbane.
- 12. Hower, T.L., "Coalbed Methane Reservoir Simulation: An Evolving Science," paper SPE 84424 presented at the 2003 SPE Annual Technical Conference and Exhibition, Denver, Colorado, 5-8 October.
- 13. Hower, T.L., Jones, J.E., Goldstein, D., Harbridge, W.: "Development of the Wyodak Coalbed Methane Resource in the Powder River Basin," paper 84428 presented at the 2003 SPE Annual Technical Conference and Exhibition, Denver, Colorado, 5-8.
- Gas Reservoir Management, Applied Reservoir Engineering, Reservoir Engineering for Others; technical training manuals for OGCI/Petroskills industry training courses; 2001/2002.
- 15. Principles of Reservoir Engineering and Reservoir Engineering Mechanisms, technical training manuals for British Petroleum Corp., Sunbury, UK; 1999.
- 16. Managing Water-Drive Gas Reservoirs, co-author of the textbook published by the Gas Research Institute, Chicago, III, 1993.
- 17. Gas Reservoir Management and Gas Reservoir Modeling, technical training manuals for Amoco Production Company, Houston, Texas, 1993.
- Hower, T.L., Fugate, M.W., and Owens, R.W.: "Improved Performance in Aquifer Gas Storage Fields Through Reservoir Management", paper SPE 26172 presented at the 1993 Gas Technology Symposium, 28-30 June, 1993, Calgary, Alberta.
- 19. Hower, T.L., and Owens, R.W.: "Reservoir Management of a Gulf Coast Water-Drive Gas Field", presented at the 1992 International Gas Research Conference, 16-19 November, Orlando, Florida.
- 20. Hower, T.L., Lewis, D.R., and Owens, R.W.: "Recovery Optimization in a Multi-reservoir Offshore Gas Field with Water Influx", paper SPE 24865 presented at the 1992 SPE Annual Technical Conference and Exhibition, 4-7 October, Washington, D.C.
- 21. Hower, T.L., and Decker, M.K.: "Identifying Recompletion Candidates in Stratified Gas Reservoirs", presented at the 1992 Mid-Continent Gas Symposium, 13-14 April, Amarillo, Texas.
- 22. Hower, T.L. and Jones, R.E.: "Predicting Recovery of Gas Reservoirs Under Water-Drive Conditions", paper SPE 22937 presented at the 1991 SPE Annual Technical Conference and Exhibition, 6-9 October, Dallas.
- 23. Hower, T.L.: "Using Depletion Ratios to Select and Evaluate Drilling Locations in Naturally Fractured Gas Reservoirs", paper SPE 20758 presented at the 1990 SPE Annual Technical Conference and Exhibition, 23-26 September, New Orleans.

24. Hower, T.L. and Collins, R.E.: "Detecting Compartmentalization in Gas Reservoirs Through Production Performance", paper SPE 19790 presented at the 1989 SPE Technical Conference and Exhibition, 8-11 October, San Antonio

## TIMOTHY HOWER EXPERT WITNESS TESTIMONY

- McMurry Oil Company, et al v. TBI Exploration, Inc., et al. Civil No. 5882, 9<sup>th</sup> Judicial District, Sublette County, Wyoming (Expert report of Timothy L. Hower dated September 30, 1999.)
- Brian Hughes v. S2-Waterside Partners, LLC, et al. Denver District Court (Expert report of Timothy L. Hower dated May 22, 2000.)
- Windswept Limited Partnership v. Lance Oil & Gas Company, et al. Civil No. 22869, District Court, Campbell County, Wyoming (Expert report of Timothy L. Hower dated February 16, 2001.)
- Barrett Resources Corporation and Lance Oil & Gas Company, Inc. v. Westport Oil and Gas Company, Inc., Denver District Court, Case No. 00CV6937, Courtroom 6 (Expert Report of Timothy L. Hower dated February 16, 2001.)
- Emerald-Frontier Company v. Williams Production RMT Company. Rock Ridge CBM Arbitration. CPR Non-Administered Arbitration (Timothy L. Hower provided technical support for the expert report of Gregory B. Hueni dated April, 2003.)
- David A. Crossland v. Shirley Koehler Case 98 DR 30, Yuma County District Court, Brush, Colorado (Expert report of Timothy L. Hower dated February 20, 2004.)
- In the matter of an Arbitration under the Commercial Arbitration Act 1986 (SA) and A Price Review Arbitration under the 2002 SACB Gas Supply Agreement and In the matter of an Arbitration under the Commercial Arbitration Act 1986 (SA) and A Price Review Arbitration under the 2002 SWQ Gas Supply Agreement between Santos Limited & the other Producers and AGL Wholesale Gas Limited and The Australian Gas Light Company. (Expert report of Timothy L. Hower dated June 2006 with additional testimony in 2009)
- Levisa Coal Company v Consolidation Coal Company. In the Circuit Court for the County of Buchanan, Virginia. (Expert report of Timothy L. Hower dated March 2009)
- Howell Petroleum Corporation v. Williston Interstate Pipeline Company. Wyoming Fifth Judicial District, Case No. 24024 (Expert report of Gregory B. Hueni, P.E. and Timothy L. Hower, P.E. dated September 15, 2008. Expert report of Timothy L. Hower, P.E. dated April 27, 2009)
- Yukon Pocahontas Coal Company, Buchanan Coal Company, and Sayers-Pocahontas Coal Company v Consolidation Coal Company, Island Creek Coal Company, CNX Gas Company, and Consol Energy, Inc. In the Circuit Court for the County of Buchanan, Virginia. (Expert report of Timothy L. Hower dated June 2010)
- Warren Stephen Wuther, as successor trustee under the Harry H. Stevick Revocable Trust v. Maxim Drilling and Exploration, Inc, Chevron U.S.A. Inc., Burlington Resources Oil & Gas Company LP, et al. In the District Court of Converse County, Wyoming, Eighth Judicial District. (Affidavit of Timothy L. Hower dated July 2011)

- Omni Laboratories Inc. v. Eden Energy Limited. In the High Court of Justice, Queens Bench Division, Technology and Construction Court, London, England. (Expert report and testimony of Timothy L. Hower dated October 2011)
- Vector Gas Contracts Limited and Vector Gas Limited v. Shell (Petroleum Mining) Company Limited and Todd Petroleum Mining Company Limited. An Arbitration Before Hon M McHugh AC QC, J Sheahan QC and Professor Lew Evans, Wellington, New Zealand. (Expert Brief of Evidence submitted 30 March 2015. Expert testimony given May 2015)..
- Jeff Locker and Rhonda Locker v. EnCana Oil & Gas (USA) Inc. In the District Court, Fremont County, Wyoming; Ninth Judicial District. June 2015.
- Dianna Graham, et al. v. Consolidation Coal Company et al. In the United States District Court for the Western District of Virginia, Abingdon Division. (Expert report submitted in May 2015; deposition taken in July 2015, trial date is scheduled for December 2015).
- Over 100 appearances as an Expert witness in hearings before:
  - Wyoming Oil and Gas Commission
  - Illinois Commerce Commission
  - North Dakota Industrial Commission
  - New Mexico Oil and Gas Commission
  - Colorado Oil and Gas Conservation Commission
  - Texas Railroad Commission
  - Texas Air Quality Control Board
  - West Virginia Oil and Gas Commission
  - Northern Territory Department of Minerals and Energy (Australia)
  - Western Australia Department of Minerals and Energy (Australia)

# BEFORE THE OIL AND GAS CONSERVATION COMMISSION OF THE STATE OF COLORADO

IN THE MATTER OF GRANT BROTHERS RANCH, LLC'S APPLICATION FOR AN ORDER FOR ACCOUNTING ON DEVER C9 WELL (API 05-045-14947) IN THE WILLIAMS FORK/ILES FORMATIONS LOCATED IN THE MAMM CREEK FIELD AREA, GARFIELD COUNTY, COLORADO CAUSE NO. 191

ORDER NOS. 191-40 and 191-51

## APPLICATION for HEARING

Grant Brothers Ranch, LLC ("Grant Brothers"), by and through undersigned counsel of Dufford, Waldeck, Milburn & Krohn, LLP, submits this Application to the Colorado Oil and Gas Conservation Commission (the "Commission"), and requests an Order directing Ursa Operating Company, LLC ("Ursa") to provide an appropriate accounting and to pay amounts past due with respect to the Grant Brothers' mineral interests in the Williams Fork / Iles Formation Unit. In support of this Application, Grant Brothers state as follows:

## **INTRODUCTION**

Grant Brothers is filing this Application due to Ursa's continued failure and refusal to provide accurate monthly reporting, and continued failure to properly make payments of proceeds from the sale of gas and associated hydrocarbons to Grant Brothers. Grant Brothers were involuntarily pooled, and as such have a nonconsenting working interest in the Dever C-9 Well in Garfield County (API No: 05-045-14947), which is operated by Ursa. As detailed below, Grant Brothers have made written requests to Antero and then to Ursa to properly account, and filed a district court action against Antero and Ursa, prior to requesting a hearing before the

Commission. To date, Ursa has consistently refused to provide an appropriate payout and income accounting, and instead has continued to include expenses incurred for the pilot well drilled into the deeper Mancos Group Formation in its payout accounting. By adding these inappropriate expenses, and assessing the statutory penalty to the costs incurred from the drilling of the unsuccessful pilot well into the Mancos Group Formation, Ursa has fraudulently maintained that the portion of the Dever C-9 Well drilled in the Williams Fork / Iles Formation has never reached payout. As a result of Ursa's contention that the Dever C-9 Well has not reached payout, and due to other accounting misrepresentations and inaccuracies, Ursa has not properly paid the income due to the Grant Brothers for the extraction of Grant Brothers' minerals.

## JURISDICTION AND PARTIES

- 1. Jurisdiction is proper in the Commission pursuant to C.R.S. §34-60-116 and the Colorado Court of Appeals' ruling in *Grant Brothers Ranch, LLC v. Antero Resources Piceance Corporation and Ursa Operating Company, LLC*, 2016 WL 7009138 (Colo. App. 2016).
- 2. Grant Brothers Ranch, LLC is a Colorado company with its principal place of business in Garfield County, Colorado. Grant Brothers own unleased minerals in the N ½ of Section 18, Township 6 South, Range 92 West, 6<sup>th</sup> PM that are subject to Order No. 191-40 (spacing) and Order No. 191-51 (involuntary pooling).

3. Ursa Operating Company, LLC is a Delaware corporation with its principal place of business in Lakewood, Colorado. Ursa is the operator of the Dever C-9 Well. Ursa is the successor to Antero Resource Piceance Corporation ("Antero").

## **BACKGROUND FACTS AND STATUTES**

#### Williams Fork / Iles Formation Unit

- 4. On or about November 27, 2006, the Commission, pursuant to an application filed by Antero, issued Order No. 191-40 establishing a drilling and spacing unit within the N 1/2 of Section 18, Township 6 South, Range 92 West, 6<sup>th</sup> PM, for the Williams Fork / Iles Formation ("Williams Fork / Iles Formation Unit").
- 5. On or about May 18, 2007, Antero filed an application for an Order to involuntarily pool Grant Brothers as a non-consenting interest in the Williams Fork / Iles Formation Unit.
- 6. On or about July 23, 2007, this Commission, pursuant to Antero's application, issued Order No. 191-51, which involuntarily pooled Grant Brothers as non-consenting interests in the Williams Fork / Iles Formation Unit.
- 7. Ursa produces natural gas and related hydrocarbons from wells drilled into the Williams Fork / Iles Formation Unit, including the Dever C-9 Well.
- 8. Grant Brothers is an involuntary "non-consenting owner," pursuant to C.R.S. § 34-60-116, in the Dever C-9 Well in the Williams Fork / Iles Formation Unit.

## **Mancos Group Formation Unit**

- 9. On January 13, 2009, the Commission issued Order No. 191-60, which among other things, established a drilling and spacing unit, consisting of the described lands within the N1/2 of Section 18, Township 6 South, Range 92 West, 6<sup>th</sup> P.M., for the production of gas and associated hydrocarbons from the Mancos Group Formation, which is comprised of the stratigraphic equivalent of the Mancos Shale, the Niobrara Formation, and the Mowry Shale ("Mancos Group Formation Unit").
- 10. On May 11, 2009, Antero sent a Well Proposal / Offer to Lease to Grant Brothers to "test the Mancos Group Formation as defined by COGCC Order Nos. 191-60..." Option 1 provided in part that:

Because your unleased interests are subject to COGCC compulsory pooling Order No. 191-51 for the Williams Fork and Iles Formations, your ability to participate would only apply to production obtained from the Mancos Group Formation.

- (Exhibit 1).
- 11. On or about May 26, 2009, Antero filed an application to involuntarily pool Grant Brothers as a non-consenting interest into the Mancos Group Formation Unit.
- 12. On or about July 22, 2009, the Commission, pursuant to an application by Antero, entered an Order involuntarily pooling Grant Brothers as a non-consenting interest in the Mancos Group Formation Unit (Order No. 191-67). (Exhibit 2)

## Payment and Accounting under Statutes and Orders

13. C.R.S. § 34-60-116(7)(c) provides that Grant Brothers "shall be deemed to have a landowner's proportionate royalty of twelve and one-half percent until such time as the consenting owners recover, only out of the nonconsenting owner's proportionate seven-eighths share of production, the costs specified in paragraph (b) of this subsection (7)."

14. C.R.S. § 34-60-116(7)(c) also provides that: "After recovery of such costs, the nonconsenting owner shall then own his proportionate eight-eighths share of the well, surface facilities, and production and then be liable for further costs as if he had originally agreed to drilling of the well." The term "payout" is used to describe the point at which the initial well costs have been recovered.

## 15. Pursuant to C.R.S. §34-60-116(8):

The operator of a well under a pooling order in which there is a nonconsenting owner shall furnish the nonconsenting owner with a monthly statement of all costs incurred, together with the quantity of oil or gas produced, and the amount of proceeds realized from the sale of production during the preceding month.

16. Order No. 191-51 for the Williams Fork / Iles Formation Unit and Order No. 191-67 for the Mancos Formation Group Unit both specifically require payment to be made by the operator to Grant Brothers under C.R.S. § 34-60-116(7) and a monthly accounting of all costs incurred and amount of proceeds realized from the sale of production during the preceding month.

## **Operator Actions**

- 17. The Authority for Expenditure for the proposed first well in the Williams Fork / Iles Formation Unit, provided a total estimated well drilling and completion cost of \$2,283,938 (Exhibit 3 AFE submitted to support involuntary pooling request in Williams Fork / Iles Formation Unit).
- 18. In comparison, the Authority for Expenditure for the Dever C-9 Well into the Mancos Group Formation Unit provided a total estimated well drilling and completion cost of \$4,703,200 (Exhibit 4 AFE for the Dever C-9 Well into the Mancos Group Formation Unit).
- 19. By including the additional drilling and completion costs in the Mancos Group Formation Unit, into the payout calculations for the Williams Fork / Iles Formation Unit, along with applying the statutory penalty to those costs, Ursa has more than quadrupled the expenses that should be associated with the Williams Fork / Iles Formation Unit under Order No. 191-51 for the Dever C-9 Well when determining payout.
- 20. The Dever C-9 Well was completed into the Mancos Group Formation Unit, and began producing on July 20, 2008. (Exhibit 5 Completed Interval Report dated February 4, 2009).
- 21. The Mancos Group Formation was plugged by a Cast Iron Bridge Plug on April 8,2010. (Exhibit 6 Completed Interval Report dated October 13, 2011).
- 22. The Williams Fork / Iles Formation was first completed on April 16, 2010 and first production from the Williams Fork / Iles Formation began on April 20, 2010. (Exhibit 6).

- 23. Although the Mancos Group Formation had been plugged and the Williams Fork / Iles Formation had begun producing, the operator misreported to this Commission that the production was coming from the Mancos Group Formation in April, May, June, and July of 2010. (Exhibit 7, COGIS Monthly Well Production for Dever C-9 Well). This represents a misallocation of the income obtained from approximately 100,000 mcf of gas. No production has occurred from the Mancos Group Formation from the Dever C-9 Well since April of 2010. (Exhibit 7). In contrast, there has been continuous production from the Williams Fork / Iles Formation from the Dever C-9 Well since April of 2010. (Exhibit 7).
- 24. Ursa has failed, and continues to fail, to account and properly pay Grant Brothers for its share of production income on the Dever C-9 Well in the Williams Fork / Iles Formation Unit under Order No. 191-51, both before and after the Dever C-9 Well reached payout.
- 25. By fraudulently and continuously including the costs of drilling and completion into the Mancos Group Formation Unit in the calculation of payout for the Williams Fork / Iles Formation Unit neither Antero nor Ursa ever properly accounted to Grant Brothers pursuant to C.R.S. § 34-60-116(8) under Order No. 191-51.
- 26. Instead of properly accounting to Grant Brothers under Order No. 191-51 for the Williams Fork / Iles Formation, Ursa continues to provide monthly payout statements that include expenses incurred for drilling and completion into the Mancos Group Formation under Order No. 191-67. (Exhibit 8 Ursa Payout Statement for period Through Fiscal Period 12/31/2016). The Payout Statement shows a Payout Balance still owing of \$10,503,683.59, after seven years of

continuous production from the Williams Fork / Iles Formation, for a well that had estimated drilling and completion cost of \$2,283,938.

- 27. Grant Brothers are entitled to a declaration from the Commission of when payout occurred on the portion of the Dever C-9 Well drilled into the Williams Fork/Iles Unit under Order No. 191-51, and to be paid accordingly.
- 28. Ursa would be unjustly enriched if, after involuntarily pooling Grant Brothers as a nonconsenting working interest owner under Order No. 191-51, it is permitted to retain the benefits of the production attributable to Grant Brothers' working and net revenue interests without compensating the Grant Brothers for the value of its minerals.
- 29. Ursa has exclusive control of the information required to fully calculate royalties, income, costs, profits, and exact date of payout for the Dever C-9 Well. Prior to filing this Application with the Commission, Grant Brothers made several written demands to Antero and Ursa for an audit and an accounting. In addition, Grant Brothers sought relief in the Garfield County District Court, Case No. 14CV30180, where Ursa successfully argued that this matter should be resolved before this Commission. Throughout this process, Ursa has continually denied the Grant Brothers' requests for the entirety of the revenue and expense information needed to determine the exact date of payout under Order No. 191-51.

REQUEST FOR RELIEF

WHEREFORE, Grant Brothers requests that:

1. The Commission order Ursa to provide a full and complete accounting for the Dever

C-9 Well in the Williams Fork / Iles Formation Unit, under the supervision of the Commission; and

2. The Commission declare the date payout on the Dever C-9 Well occurred for the

Williams Fork / Iles Formation Unit under Order No. 191-51; and

3. The Commission declare Ursa liable to the Grant Brothers for all underpaid income

on production; and

4. The Commission order Ursa to pay Grant Brothers the amounts due revealed by proof

or by accounting, together with interest under C.R.S. § 34-60-118.5(4), costs and attorney fees as

provided for in C.R.S. § 34-60-118.5(6), and penalties deemed appropriate by the Commission.

RESPECTFULLY submitted this 25th day of May, 2017.

DUFFORD, WALDECK, MILBURN &

KROHN, L.L.P

Nathan A. Keever, #24630

Attorney for Grant Brothers

Grant Brothers' Address:

PO Box 1027

Basalt, CO 81621

9



Via US Mail
CERTIFIED MAIL RETURN RECEIPT REQUESTED

May 11, 2009

Grant Brothers Ranch Limited Liability Co. Post Office Box 1027 Basalt, CO 81621

Re:

Well Proposal/Offer to Lease Dever C-7 and Dever C-9 Township 6 South, Range 92 West, 6th P.M Section 18: Portion of N/2 (Drilling and Spacing Unit) Garfield County, Colorado Antero Resources 1525 17th Street Denver Colorado 80202 Office 303.357 7310 Fax: 303.357 7315

#### Gentlemen:

Antero Resources Piceance Corporation ("Antero") proposes the drilling of the subject wells with bottom hole locations in the approved 223.578 acre drilling and spacing unit located generally in the N/2 of Section 18, Township 6 South, Range 92 West, 6<sup>th</sup> P.M. to test the Mancos Group Formation as defined by COGCC Order Nos. 191-60, 510-46 and 523-5. Attached please find Antero's Authority for Expenditure (AFE) which reflects estimated dry hole costs of \$1,645.500 and completed well costs of \$4,703.200 for each well. Please note that this drilling and spacing unit does NOT include any of the lands in Section 18 where the Grant Brothers Ranch Limited Liability Co. owns 100% of the minerals (see enclosed plat).

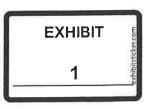
Antero respectfully requests that you select one of the following options regarding your interest:

Option 1: Participate with your interest by paying your proportionate share of actual well costs.

Because your unleased interests are subject to COGCC compulsory pooling Order No.

191-51 for the Williams Fork and Iles Formations, your ability to participate would only apply to production obtained from the Mancos Group Formation. Antero estimates that the Grant Brothers Ranch Limited Liability Co. has approximately 28.1105 net mineral acres unleased in this drilling and spacing unit. This equates to a 12.573% working interest in the costs attributable to the Mancos Group Formation. Costs under the AFEs will be allocated to each formation based on the standards outlined in the COPAS publication titled, "Well Costs - Allocations and Adjustments (Formerly known as Bulletin 2)." Upon receiving your decision to participate in these wells, we will provide you with a Joint Operating Agreement for your signature; or,

Option 2: Lease your interest in the captioned drilling and spacing unit to Antero for a bonus consideration of \$300 per net acre reserving an 18% royalty, delivering an 82% net revenue interest, for a primary term of 3 years. If you should choose this option, we



'ell Proposal/Offer to Lease Section 18. T6S – R92W May 11, 2009 Page 2 of 2

will contact you with a lease form and a 30 day draft for payment. Antero estimates that the Grant Brothers Ranch Limited Liability Co. has approximately 28.1105 net mineral acres unleased in this drilling and spacing unit. Your total bonus consideration under Option 2 would be \$8,433.15.

Please indicate your choice of option as indicated below within thirty (30) days of receipt, and return an executed copy of this letter to the attention of the undersigned. Please also be advised that Antero plans to commence a compulsory pooling application through the Colorado Oil and Gas Conservation Commission. If you have any questions or with to discuss this matter further, please contact the undersigned at 303-357-7320.

Sincerely,			a .
B			(An
Brian F. Wade			
Landman			
I/We hereby select Option No.	this	day of	2009.
Signature:			
Name:			102
Title:			- C
Phone:			
Enclosures			



# BEFORE THE OIL AND GAS CONSERVATION COMMISSION OF THE STATE OF COLORADO

IN THE MATTER OF THE PROMULGATION AND ESTABLISHMENT OF FIELD RULES TO GOVERN OPERATIONS IN THE MAMM CREEK FIELD, GARFIELD COUNTY, COLORADO ) CAUSE NO. 191 ) ORDER NO. 191-67

#### REPORT OF THE COMMISSION

This cause came on for hearing before the Commission 9:00 a.m. on July 14, 2009 at the Hotel Colorado, in the Devereux Room, 526 Pine Street, Glenwood Springs, Colorado, for an order to pool all nonconsenting interests in the established approximate 223.578-acre drilling and spacing unit for certain lands located within the N½ of Section 18, Township 6 South, Range 92 West, 6th P.M., for the development and operation of the Mancos Group Formation.

#### **FINDINGS**

The Commission finds as follows:

- Antero Resources Piceance Corporation ("Antero"), as applicant herein, is an interested party in the subject matter of the above-referenced hearing.
- 2. Due notice of the time, place and purpose of the hearing has been given in all respects as required by law.
- The Commission has jurisdiction over the subject matter embraced in said Notice, and of the parties interested therein, and jurisdiction to promulgate the hereinafter prescribed order pursuant to the Oil and Gas Conservation Act.
- 4. On November 27, 2006, the Commission issued Order No. 191-40, which among other things, established an approximate 223,578-acre drilling and spacing unit, consisting of the lands as described helow, located within the N½ of Section 18, Township 6 South, Range 92 West, 6<sup>th</sup> P.M., for the production of gas and associated hydrocarbons from the Williams Fork and lles Formations of the Mesaverde Group, and approved the equivalent of one well per 10 acres for said unit.

A parcel of land in the N½ of Section 18, Township 6 South, Range 92 West, 6<sup>th</sup> P.M. beginning 445,03 feet South of the NE½ NE¾ of said Section 18; thence South 00° 34′ 00° East a distance of 362.60 feet; thence South 519.00 feet; thence South 1320.00 feet; thence West 4260.91 feet; thence North 00° 04′ 16″ West a distance of 2327.20 feet; thence North 70° 50′ 00″ East a distance of 471.60 feet; thence South 89° 30′ 00″ East a distance of 1128.10 feet; thence South 89° 30′ 00″ East a distance of 1128.10 feet; thence South 89° 50′ 30″ East a distance of 181.30 feet; thence South 89° 58′ 00″ East a distance of 150.5 feet to the point of beginning.

- 5. On July 23, 2007, the Commission issued Order No. 191-51, which among other things, pooled all nonconsenting interests in the established approximate 223.578-acre drilling and spacing unit within the N½ of Section 18, Township 6 South, Range 92 West, 6<sup>th</sup> P.M., consisting of the lands as described above, for development and operation of the Williams Fork and Iles Formations.
- 6. On January 13, 2009, the Commission issued Order No. 191-60, which among other things, established an approximate 223.578-acre drilling and spacing unit, consisting of the lands as described above within the N½ of Section 18, Township 6 South, Range 92 West, 6<sup>th</sup> P.M., for the production of gas and associated hydrocarbons from the Mancos Group Formation, which is comprised of the stratigraphic equivalent of the Mancos Shale, the Niobrara Formation, and the Mowry Shale, and approved the equivalent of one well per 10 acres, with the permitted well to be located no closer than 100 feet to the boundary of the unit or no closer than 400 feet from the boundary of the unit for lands not approved for 10-acre density.
  - 7. On May 26, 2009, Antero, by its attorney, filed with the Commission a verified

**EXHIBIT** 

application to pool all nonconsenting interests in the established approximate 223.578-acre drilling and spacing unit, as described below within the N½ of Section 18, Township 6 South, Range 92 West, 6th P.M., for the development and operation of the Mancos Group Formation:

A parcel of land in the N½ of Section 18, Township 6 South, Range 92 West, 6<sup>th</sup> P.M. beginning 445.03 feet South of the NE¼ NE¼ of said Section 18; thence South 00° 34′ 00° East a distance of 362.60 feet; thence South 519.00 feet; thence South 1320.00 feet; thence West 4260.91 feet; thence North 00° 04′ 16″ West a distance of 2327.20 feet; thence North 70° 50′ 00″ East a distance of 471.60 feet; thence South 89° 30′ 00″ East a distance of 300.00; thence South 76° 42′ 00″ East a distance of 1128.10 feet; thence South 89° 30′ 00″ East a distance of 2085.20 feet; thence South 89° 59′ 30″ East a distance of 181.30 feet; thence South 89° 58′ 00″ East a distance of 150.5 feet to the point of beginning.

- 8. On June 29, 2009, Grant Brothers Ranch, LLC ("Grant Brothers"), by its attorney, filed a protest to the application alleging that Antero had not correctly calculated Grant Brothers' mineral interest in the drilling and spacing unit and that Antero had not tendered a reasonable offer to lease Grant Brothers' mineral interest.
- 9. On July 2, 2009, a pre-hearing conference was convened to address those issues contained in the Grant Brothers' protest which resulted in Antero correcting an error as to the Grant Brothers' mineral interest. Consequently, on July 6, 2009, Grant Brothers, by its attorney, withdrew its protest.
- 10. On July 6, 2009, Antero, by its attorney, filed with the Commission a written request to approve the application based on the merits of the verified application and the supporting exhibits as is provided for by Rule 511.c. Sworn written testimony and exhibits were submitted in support of the application.
- Antero is the majority mineral leaseholder of lands underlying the application lands. Additional testimony showed a list of all consenting and nonconsenting owners within the application lands, and demonstrated that Antero has an 83.24657% working interest in the unit and that Grant Brothers', the sole unleased and non-participating interest owner, mineral interest comprises 16.75343% of the unit. Further testimony indicated that an offer to lease or to participate was sent to the nonconsenting owner, and that said offer was sent via US Mail, at least 30 days prior to the July 14, 2009 hearing, to the nonconsenting owner. Testimony showed that the offer to lease/participate and the Authorizations for Expenditures were fair and reasonable, and similar to those prevailing in the area, and that Antero has complied with the requirements of Rule 530.a. and §34-60-117(7)(d), C.R.S.
- 12. Antero Resources Piceance Corporation agreed to be bound by oral order of the Commission.
- 13. Based on the facts stated in the verified application, having received one protest which was withdrawn, and based on the Hearing Officer review of the application under Rule 511.c., the Commission should enter an order to pool the nonconsenting interest in the established approximate 223.578-acre drilling and spacing unit for certain lands located within the N½ of Section 18, Township 6 South, Range 92 West, 6<sup>th</sup> P.M., for the development and operation of the Mancos Group Formation.

#### ORDER

NOW, THEREFORE IT IS ORDERED, that, 1. Pursuant to the provisions of §34-60-116, C.R.S., as amended, of the Oil and Gas Conservation Act of the State of Colorado, the nonconsenting interest in the established approximate 223.578-acre drilling and spacing unit, as described below within the N½ of Section 18, Township 6 South, Range 92 West, 6<sup>th</sup> P.M., is hereby pooled, for the development and operation of the Mancos Group Formation:

A parcel of land in the N½ of Section 18, Township 6 South, Range 92 West, 6th P.M. beginning 445.03 feet South of the NE¼ NE¾ of said Section 18; thence South 00° 34' 00" East a distance of 362.60 feet; thence South 519.00 feet; thence South 1320.00 feet; thence

(0907-UP-12/191-67)

West 4260.91 feet; thence North 00° 04' 16" West a distance of 2327.20 feet; thence North 70° 50' 00" East a distance of 471.60 feet; thence South 89° 30' 00" East a distance of 300.00; thence South 76° 42' 00" East a distance of 1128.10 feet; thence South 89° 30' 00" East a distance of 2085.20 feet; thence South 89° 59' 30" East a distance of 181.30 feet; thence South 89° 58' 00" East a distance of 150.5 feet to the point of beginning.

- 2. The production obtained from the drilling and spacing unit shall be allocated to each owner in the unit on the basis of the proportion that the number of acres in such tract bears to the total number of mineral acres within the drilling and spacing unit; each owner of an interest in the drilling and spacing unit shall be entitled to receive his/her share of the production of the well located on the drilling and spacing unit applicable to his/her interest in the drilling and spacing unit.
- The unleased mineral owner is hereby deemed to have elected not to participate and shall therefore be deemed to be nonconsenting as to the well and be subject to the penalties as provided for by §34-60-116 (7), C.R.S.
- 4. The nonconsenting unleased mineral owner within the drilling and spacing unit shall be treated as the owner of the landowner's royalty to the extent of 12.5% of his/her record title interest, whatever that interest may be, until such time as the consenting owner recovers, only out of the nonconsenting owner's proportionate 87.5% share of production, the costs specified in §34-60-116 (7)(b), C.R.S. as amended. After recovery of such costs, the nonconsenting mineral owner shall then own his/her proportionate 8/8ths share of the well, surface facilities and production, and then be liable for his/her proportionate share of further costs incurred in connection with the well as if he/she had originally agreed to the drilling.
- 5. The operator of the well drilled on the above-described unit shall furnish the nonconsenting owner with a monthly statement of all costs incurred, together with the quantity of oil and gas produced, and the amount of proceeds realized from the sale of production during the preceding month.

IT IS FURTHER ORDERED, that the provisions contained in the above order, shall become effective forthwith.

IT IS FURTHER ORDERED, that the Commission expressly reserves its right, after notice and hearing, to alter, amend or repeal any and/or all of the above orders.

IT IS FURTHER ORDERED, that under the State Administrative Procedure Act the Commission considers this order to be final agency action for purposes of judicial review within thirty (30) days after the date this order is mailed by the Commission.

IT IS FURTHER ORDERED, that an application for reconsideration by the Commission of this order is not required prior to the filing for judicial review.

ENTERED this \_\_\_ 22<sup>nd</sup> \_\_ day of July, 2009, as of July 14, 2009.

OIL AND GAS CONSERVATION COMMISSION OF THE STATE OF COLORADO

Robert A. Willis, Acting Secretary

Dated at Suite 801 1120 Lincoln Street Denver, Colorado 80203 July 22, 2009

## ANTERO RESOURCES CORPORATION Authority for Expenditure

	Control of the Street Control of the Street	Directional	
Pipspect	DIXON	Field Marrin Creek Field	PICEVICE BASIN
Well Normellia Dag Contractor	DIXON A-4	Formation Williams Fork / Ites Permitted Total Depth	API No
County/Stota	Garfield/CO	Estimated Total Dopth 8 750' MD	Drilling Permit Ne
Elevation SHL		BHL 1,400' FNL 525' FWL (N2 18-65-92W)	AFE No DIXON A-4

Account	Category	Description	Intangible	Tangole	Total
830/010	Lecal		0	THE WORK	
830/070	Gurbee Damages	Staface Damages	5,000		5,0
BOOTOO	Survey & State Location	Survey / Staking Location	1,600	211	3,8
830V050	Roads / Gravel / Culvert	Build Road to Location	5,000	the second of	5.0
830/050	Preg / Planning by Engineer	Dedling & Completion Procedures I AFE	6,000		6,0
830/070	Location Preparation	guild Location	10,000		
830/083	Rig Transport	Dolling Rig Mobilization	20,000	ETEL SAMPLE	20,0
830/000	Rig Fuel	Fuel, Oil & Powns	70,000	4	70,0
		18 days 49 517,500	318,000		316,0
830/100	IDG Orkling - Daywork	2 day MRV & 317 500	25,000		7,80
P30/150	IDG Drilling - Other	Rathole/Mouseholo/Gellar	10,000		10,0
830/140	- Part Hole & Mouse Hole	Camenting of Conductor Coxing	10,000		10,0
830/145	Germent Conductor	Cornert / Cemerating Services	25,000	Per Call College	25,0
830/150	Carriere Stirlees Caung	Bufface Catting Crew	3,000	a 1. 12.	3,0
630/100	Burface Casing Crew & Tongs	Welding Services	6,000		5.1
630/17D	Weiging Surface Casing & Blos	18 days 69 \$750 day	13,600	THE SHEET	13.
830/180	Geologie Services/Mudlegging/Paron	Drilling Water & Fluids (Comercing):	5,000	and the same	5.0
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830/230	Bonds and Insurance	20 days @ \$1 250/day	25,000	11	26,0
830/250	Contract Dolling Step softeion	Rental Tools / Emurmant	103,000	Charles Service	106,0
830/270	Equipment Rental	Linera & Temporary Fancing	5,000		6,0
830/2NO	Atstems and Supplies	(1) 12-18° PDC, (3) 7-78° PDC Bits	35,000		35,0
830/310	Bils and Resenses	Centract Sarvices / Labor	35,000	CONTRACTOR OF	35.0
#30/370 "	Contract Services/ Rotatistouts Delling		20,000		120,0
(130/330.	Mud Dispetal & Cuttings	Hauf Onted Cuttings	25,000	Secretary of the latest terms of the latest te	25.0
830/340 ·	Trucking/Hauling	Truttleng & Hacking	20,000	-	1
830/350	Open Hole Logs	Open Hele Logging	- 0	-	F-2012
(COC)	Drilling Fitted Overhand	Report Control of State	18,000	The second second	10.0
830/430°	Miscellaneous Expense/Supplies	Ministrols & Supplies	138,800	With the State of the	135.0
830/480	Description Dealing Tools SHIGHAL ORIGINAL COSTS SON CHARLES	Tools, Supervision, Surveys	138,800	STATES AND ADDRESS.	COLUMN 11

CONTRACTOR SPEZIE STREET

840/040 ( 840/050 ( 840/060 ) 840/070 (	Completion Unit Daywork Contract Completion Superinstan	8 days 63 55,000/day 10 days 69 51,000/day / 10 ga 3500/day	15,000		15,00
840/070		10 days 69:51 000/day / 10 @ 3500/day			
B40/070		Inches of the collection of the state of the			E0.00
	Production Christia	Production Cament & Float Equipment	60,000		14,00
840/080	Production Casing Crew & TongaUJA	Canng Crew	14,000		7,6
	Fuel and Power	Funi and Pawer	2,500		86,00
840/000 :	Casad-Hole Log/Parlotate	Logging & Perforation	10,000		2,50
7840/160	Slick Line work	Piding Plogs	2,500		5,0
B40/110	Roads & Location & Pd Restoration	Restors location / Ps. Restoration.	8,000		2.6
840/120	Pishing Tricks & Equipment	Pulling Trucks & Equipment	2,500		300,0
840/130	Fred Transmeet	includes frue treatment & chernicals	400,000		800,00
840/135	Fired Teating/Analysis	Free Testing/Analysis (Tricol Survey)	0	ļ	777
64CV140	Exceptional Rental	Water Transfer, DOP & Swivel Rental	15,000		15,0
840/150	Trucking & Hauling	Trucking & Hathing	8,000		#,00
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840/300	Swebbing	Swabbing	0	5 11/22 12 7	
DAO(350	Found Rate COPAS Overhoad	Commission - Administrative Overhead	\$,000		€,01
84(V300	Flowback well testing	Inchelas light plant, test, hookup & equ	25,000		25,00
840/900	Macalineout Expension uppos	Miscallansons	6,000		8,00
850/005	Conductor Carsing	75" of 16". Conductor (Included in 330 140)	1 . 15 . 1	.0	3.
850/01D	Suraca Canang (New)	550' et 8-3/8" 249/329 5T&C R-3 Coung		14,250	14,2
	Production Cating	8.750' - 5-10" 174 P-110 LT&C R-3 Casing	a ten Umarriani	132,126	132,1
850/030		8 750' - 2-3/6: 4 78 N-80 EUE R-2 Tubing		40,250	40,21
A50/040	Tubing (New)	Installation of Flow Lines		.16,000	15,00
850/050	Flowing/Installation:	Dradup band, "D" Section and SK Year	C-11 - 12	18,000	18,00
850/060	Wellhand Assembly	Fatnes, Valves, Controls		25,000	25,00
:850/0ND	Fillings & Valves, Controls	Three Phase Production Und	1-0.0e 5. 11	23,000	73,00
850/100	Production Unit	1300 BBL OA Tahl		7,500	7,60
	Oli Tank	300 BBL Water Tank	1000	7,600	7,60
850/140	Water Tank	Installation of Production Unit	100 mm = 100 mm	7,500	7.60
650/155	Production Unit Immiliation	Steel Tank/Battery/Install	A STATE OF THE PARTY OF THE PAR	7,500	7,60
850/160	Tank Battery/Header Installation	Combustion Und	200	5,000	5,00
7050/100	Line Heater			1,200	1:20
850/200	Anchers	Anchors for completion rig		15,000	15,00
U30/220	Gas Metering	Total Flow Installation		10,000	- Ing-
850/300	Downhole Equipment	The second secon	A 100 M	2,500	7,60
850/370	Fonce / Cattleguard / Dishort	Fences / Cattleguard / Currents + Install	-	25,000	25.00
RS/VOCO .	Misc Downhale Equip	Profile Nipolas, Pump Sub, Composition	reviews to the best		
NATIONAL PROPERTY.	TOTAL COMPLETION COSTANTS AS THE	SEPTEMBER OF STREET PROPERTY.	PERSON 248,175	1115	Carrie Land
	ntangible Cost		\$1,040,513	1242,228	7

TOTAL ESTIMATED WELL COST WI Owner Approval

Prepared by Steve Fontenet

Antero Resources Corporation will carry operators as to aspains (OEE) well control insurance for all parties electing to participate in the drilling and/or completion of this well, unless additive determine at the time this form is executed Costs shown on this form are estimates only. Non-operators should not consider these estimates se establishing only limits on the monios which will be required to perform the proposed operation

**EXHIBIT** 



ANTERO RESOURCES CORPORATION
Authority for Executibility
Devicts and the Control of the Control Prespect: Deysi
Wal Namentle. C-9
Orig Contractor Bronco Hig sA
County State: Garteld County
Listator SHI. 2027 FML 46 PWL
Blooklove GL. 5.505\* API No.: 0504514947-00 Deling Permit No.: 20074890 Spud Date: 3-14-2008 AFE No.: Devar Co.

and the same of th	- William	DIRECTOR COSTS (BCP)	Intingible	Tampible	Total
Account	Calegory	Description	0	- 1,17 Sec. 7.	7
830/010	Legal	Surface Damages	5,000		5.0
100000	Surface Dienochs	Survey / Staking Location	1,500	1 2 2 10	TV
630/030	Survey & Stake Excision	Bund Road to Location	5,000		1,0
830/050	Reach / Gravel / Culvert	Diffing & Completion Procedures / NE	5,000	S 11777 (#34	2.0
W30.060	Pipo / Planning by Engineer		35,000		35,0
830/070	Location Preparation	Build Location	150,000	V	150,0
830/080	Rig Transport	Disting Flig Mobilization	\$0,000		80,0
335/090	Ally Post	Full, Ol & Power	540,000	7 1 EV	540,0
630/100	100 Drilling - Daywork	27 days 0	54,000	-	34.0
830/100	IDC Dalling - Daywork	4 days move and rig up to \$14,000	52,000	200	2410
030/120	IOG Delling v Other:	Ord sortace hole roll pica			8.5
B30/145	Rat Hem & Liquing Hole	- Reinole/Mousehola/Celler	8,500	-	
1830/145	Camaril Conductor	Cempating of Conductor Caturing	5,000		5.0
E30/150	Coment Surface Casing	Cement / Cemenary Services	12,000		12,0
830/155	Cement Intermediate Caning	Intermediate Casing & Float Equipment	4	- The Hills	
630/160	Surface Casing Crew & Tongs	Sudhes Casing Craw	13,050		3,0
-830/165	Internation Contro Grow & TongstLM	. Casing Crewit angstay Down Machine	10,000		10.0
D32'170	Weiding Surface Casing & Shots	Welding Services	0		
030/100	Goodge Services/Audroging/Paster	20 tays 0 \$750'day	15,000	CONTRACTOR OF THE PARTY OF THE	15,0
630/190	Water (Urring & Constraint)	Drilling Water & Phids (Cameraling)	5,000	1 650	23,0
	Disanty Flords, Mud & Chemicata	Upd & Chemicals	200,000	11.1	200,0
830/200	Parmita Fees	Pernits, Fees	0/	- 30	45.5
830010	Bonds and Insurance	SQ.77 / per lock	10,200		30,2
830/230	Contract Orsting Supervision	27 days 9 - 200 day	22,900		22,8
N30/250		Rectal Yooks / Equipment	75,000		78.0
100/270	Equipment Rental	Linera & Temporary Ferroing	3,500		3.5
630/280	Materials and Supplies	(1) 12-114" PDC; (4) 7/7/1" PDC 5/1	\$5,000	SPECIAL CONTRACTOR	\$5,0
830/210	ties and Resmars	Contract Sawicos / Labor	35,000		35.0
830/330	Contract Services/ Roustabour Disting	Contract Develop / Cocci	0	11-10-1-20	-
830/375	Security Services	Hout Drilled Contraga	7,500		7,5
800/330	Must Disposal & Currietts	Trucking & Hauding	7,500	100	7.5
B30V340	Trucking timing		50,000		50.0
8000350	Open Hole Logn	Open Hole Logging	00,000		
830/370	Drilling Fixed Overhead	- Commence of the Commence of	10,000	The second second	10.0
920,130	Miscetaneous Expense/Supplies	Waterials & Supplies	10,000	CONTRACTOR OF THE PARTY OF THE	7.17.7
830/450	Environmental & Safety	Cutting incorprision and Grew	183,006		182,0
830/480	Directional Drilling Tools	Tools, Reportsion, Surveys	1.045.600		1,445,6
marine.	TOTAL MALLING COUTS:		10000	1	
		COMPLETION COSTS (ACP)		Veneta and	
BROYDAD	Completed Una-Daywork	1 8 days 9:55,000 day	30,000	100	30.0
	Contract Consistion Separation	10 days 0 \$1,000day/10 0 \$500day	11,000		15,0
840/050		Production Cerneral & Float Engineeral	33,000	S (** - 1 )   T (** )	155,0
DIGOTO	Production Cornect	Carrie Grey	20,000	St. Talking It	. 20,0
040/070	Production Coarno Grew 5 Tongs LM	Fuel and Power	6,000	- HILL - 191	8.0

Bacypap	Completion Unit-Daywork	1 8 days 0 56,000ktsv	30,000	at the sure	200
840mso	Contract Completion Supervision	10 days 0 \$1,000day/10 0 \$500day	11,000		(5,0
DIOVOSO	Production Corners	Production Comment & Float Engineers	\$3,000	-	55,0
040/070	Production Cosing Grew 5 Trange LM	Санов Сисм	20,009	1 1 1 1 1 1 1	, 20,
540/050	Fust and Power	Fixel and Power	e,boo		B.
340000	Cased Hole Log/Performs	Logging & Petforation	135,000	7-110	/135,
740/100	Sick Line work	Puting Parent	5.000		3,
640/110	Floads & Cocolion & Pt Restoration	Restore Scretion / Pr Restomion	5,000	- Danie	I,
B40/120	Pulling Trucks A Egypmont	Pulling Trucks & Equipment	7,500		
8407130	Fing Treatmant	Protests had pealment & chomicals	1,765,000	S 100 1	1,783
040/135	Frac Testing/Analysis	Prac Testing/Analysis (Tracer Survey)	0	77	-
040/140	Etsipesere Rental	Water Transfer, DOP A Swivel Florial	15,000	100	15
840/150	Trucking & Hmiling	Trucking & Hauring	8,000	Contract of the state of	
BANTEO	Water (Free Stimulation & Comerating)	Frac Water & Camening Water	13,000	110	15,
B40/170 -	Parts/Succides/Bra			25 mm 26	1000
3407)60	Contract Services / Lubor	Contract Services / Labor.	28,000	22,111,12	25,
940,150	OEE Ingurance	12.000 g 50.66m	8,800	1100	
5407220	Squeeza/Re-Complete Compre		D	- 46	****
840/220	Chemoals		59,500	1.0	.59,
	Hant Free & Flowback Tanin	Heat Frac Woter & Flooback Tarin (Wirter)	a management of		A PARTY
840/240	Free Tank Remai	Frie Twrit Hontal	30,000		30,
840/250	Flowbock, Hauf and disposal	Flowbeck, Houl & Disposal	20,050		20
910/360 -		Tarana tanana tanan	0	-	200
840/260	Acid ang/Narogen	Secubbling	3,000		5.
B40/2000.	Swotking:	Completion - Admiristrative Overhead	0,000		ō.
0407350	Fixed Pare COPAS Overhead	Includes Fight plant, lest, hookup & équi-	25,000	2012/1919	25
840/300	Flowbock well testing	AAscarbineous	3,000		1 3
840/900	Miscellaneous Espenso-Supplies	100 of 13-3/8, Conductor	4,500	1,900	1.
050/005	Conductor Casing	7200 of 9.5% 067 J-56 578 C P(3) Chairing		49,500	49,
850/010.	Surface Casing (New)	8400' of 7' 721 P-110 LT&C R-3 Cosing		227,500	327
920050	Intermediate Casing (New)	\$407 - 2-1/7 15 19 A 110 LTAC R-3 Caying	-	140,400	140
850/0.Vd	Production Casing.	10.300 - 2-3/2 15.17 × 110 EUE II-2 Tubiog	-	58,500	56.
850/040	Tubing (New)			15,000	13
850/050	FignameAnstation:	Installation of Flow Lines		15,000	15
850,000	Welneyd Assembly	Braden hand, 'B' Section and SK Tire	E 1000 PAGE	25,000	25
050/000	Fittings & Valves, Controls	Fetings, Volves, Controls		22,000	20
650(100	Production Unit	Tivee Press Production Unit	- A C		
650/110°	p& Pressure Security	10' X 10' Separator Vessel - tratefarion		47,000	49,
850/130:-	Of Tank	1300 BUL OH Tark	STATISTICS.	7,500	7,
850/140	WaterTank	300 DOL Water Tork		7,500	7,
050/155	Production Unit Installation	Installation of Production Unit		7,5200	7.
850F160	Tenà Bareny/Header Installation	Stret Tank/Battery/Install		7,500	1.
8507190	Line Healts	Garciuston Unit		3,000	2/
850/200	Avictors	Anchors for completon rig		1,200	1,
8507720	Gas Hitterios	Total Fiew Installation.	A. A. Carrier L. Carrier L.	15.000	15.0
850'240	Moler Run	Maler Run's Installation		:0]	-
A50/260	Americal City	1 3 3 3	1913	0	1
6505300	Downhote Equipment			0	
850/17U	Fence / Cattlemant / Culvert	Forces / Californiani / Ourera - Install		2,500	3,
8507970 8507970	LUse: Downsols Egup.	Protto Nyotes, Primp Sub, Composites		23,000	250
8001700	TOTAL COMPLETION COSTS:		2,210,300	778,900	3,057
	Intervible Doje:		13,974,300		THE PARTY NAMED IN
	Tringible Coat:		7-717-2	3775,000	
					\$4,703,3

**EXHIBIT** 

01769258

FORM 5A Rev 12/05 Page 1

mary o mara

## State of Colorado

Oil and Gas Conservation Commission

1120 Lincoln Street, Suite 201, Denver, Colorado 80203 Phona (303)894-2100 Fax (303)894-2109

## COMPLETED INTERVAL REPORT

The Completed Interval Report, Form 5A, shall be submitted within thirty (30) days of completing a formation (successful or hot), when a formation is temporarily abandoned or permanently ebandoned, for a recompletion, reperforation or restmulation, or when a formation is commanded. Fill out a section for each formation. Attach as many pages as required to fully describe the work. List in order of completion.

RECEIVED
FEB 0 5 2009
COGCC

1 OGCC Operator Number 10079 2 Name of Operator Antaro Resources Researce Corporation -	4 Contact Name Many O'Mara Phone (303) 357-7323	Complete the Attachment Checklist	
3 Address 1625 17th Street, Suite 300	Fax. 303-357-7315	7	
	A STATE OF THE STA	OP OGCC	
	ly Garfield	Welfbore diagram V	
7 Well Name Dever Well Num 8 Location (QtrQtr; Sec, Twp; Rng, Mendian) SWNW S17-Te		to an all the state of	
8 Location (Utricity, Sec. Twp: Pdrg. Mattolati) GWWW 517-10		and	
FORMATION: Mencos/MNCS - Stalu	Interest Control of the Control of t		
Treatment Date 7/17/2008 Date of Fi	rst Production this formation 7/20	/2008	
Perforations Top 8873' Boltom 12,315'	Vo Holes 827 Hole sixt	3 1/8"	
Provide a brief summary of the formation treatment	Open Hole		
10 stages, using 81,985 bbls slurry and 2,489,956 ib proppant		The state of the s	
, <del>, , , , , , , , , , , , , , , , , , </del>		وسينك فيتريكون	
		with the same	
This formation is commingled with another formation			
Test information.  Date 7/29/2008 Hours 24 Bbis oil 0	Mcf Gas 2389 Bbls H <sub>2</sub> 0 55	o.	
Celculated 24 hour rate Bbls oil 0	Mcf Gas 2389 Bbls H <sub>2</sub> D 55	O GOR	
Test Method flows from well Casing PSI 4300	Tubing PSI 0		
	BTU Gas -14-78-	Pl Gravity Oil	
The proposition of the propositi	Tog setting date 7/20/2008 F		
Tubing Size 23/8 Tubing Setting Depth 10605	Le Dissin	acker popul	
Reason for Non-Production		reneration and the temperature	
Date formation Abandoned Squeezed	Yes No II yes numbe	r of sacks cmt	s#
Endge Plug Depth Sacks cement on top			
			Š.
FORMATION Status			
Treetment Date Date of Fi	rst Production this formation		
Perforations Top Bottom	to Holes Hole size		
Provide a brief summary of the formation treatment	Open Hole		
the state of the s			
		Christian Christ	
The state of the s		استعامات المترين	
This formation is commingled with another formation			
Dale Hours Bbls oil	Mcf GasBbis H₂0		
Colculated 24 hour rate Bbls oil	Mcl GasBbis H <sub>2</sub> 0	GOR	1
rest MethodCasing PSI	The state of the s	hoke size	4
Sas Disposition Gas Type	BTU GasA	PI Gravity Oil	
Tubing Size Tubing Setting Depth	Tbg setting dateF	acker Depth	
Reason for Non-Production		•	<b>EXHIBIT</b>
Date formation Abandoned Squeezed	Yes No If yes number	r of sacks cmt	
andre Plug Depth Sacks cement on top	1000		5
indge Plug Depth Sacks cement on top			

Permitting Specialist

Date 2/4/2009

RECEIVED Schematic - Current FEB 0 5 2009 RESOURCES Well Name Dever C9 Field Name Surface Legal Location Mamm Creek 05045149470000 08S-92W-18 KB-Casing Flange Distance (n) Inminial KB Elevation (f) Well Configuration Type 5,801 00 16 00 Directional Most Recent Job Secondary Job Type Primary Job Type Initial Completion 6/22/2008 6/21/2008 Initial Completion Completion/Vyorkover Well Config Directional - Original Hole, 2/4/2009 3 29 17 PM TD. 12,515.0 fix8 (MD) fix8 Schematic - Actual Incl 01 06 112 112 189 1,253 1,227 10 4,651 Dity-Tubing; 2-8/8; 1-685; 25; 10:511-0 4,752 04 7,678 7,577 8,676 8,775 23 8,883 20 8,985 22 8.978 9,079 14 9,153 9,051 80 9,274 9,172 08 9,378 9,276 9,476 9,374 06 9,575 9,474 03 05 9,674 9,572 9,779 13 9,677 16 9,877 9,775 9,868 16 9,970 10,066 9;964 14 10,170 10,068 14 10,173 14 10,275 10,380 13 10,278 2-2, Profile Nipple, 2:3/8, 1 995, 10,570, 1 3 -2-3, Tubing, 2 3/8, 1 995, 10,571, 33 7 2-4, Wireline Guide, 2 3/8, 1 995, 10,370 15 10,472 18 10,468 10,570 17 10,605 10,503 10,805, 10 10,653 10,551 18 10,768 10,666 09 07 10,841 10,739 10,854 05 10,956 04 11,077 10,975 11,172 11,070 12 17 11,269 11,167 20 11,278 11,380 21 11,480 11,378 20 11,582 11,480 11,660 11,658 17 17 11,785 11,683 17 11,877 11,775 18 11,963 11,861 19 12,027 11,925 12,038 11,938 19 12,082 11,960 20 12,086 20 11,984 20 12,117 12,015 1-1, Weatherford POBS, 3 1/8, 12,444. 12,118 19 12,220 09 17 12,312 12,209 1-2, Smith Tri Cone Bit, 4 1/2, 12,445, 12,445 04 12,511 2/4/2009 Report Printed Page 1/1 www peloton com

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### FORM 5A

Rev 02/08

## State of Colorado

# Oil and Gas Conservation Commission

1120 Lincoln Street, Suite 801, Denver, Colorado 80205 Phone: (303) 894-2100 Fax: (303) 894-2109



Œ	ET	OE	ES
		4	1

Document Number:

400201987

COMPLETED	IN	ΓERV	AL RE	PORT
PRODUCTION OF MARKET STATES		11/27/2017/		

The completed interval Report, Form 5A, shall be submitted within thirty (30) days of completing a formation (successful or not), when a formation is temporarily abandoned of permanently abandoned, for a recompletion, reperforation or restimulation, or when a formation is commingled. Fill out a section for each formation. Affect, as many pages as required to fully describe the work. List in order of completion.

1. OGCC Oper 2. Name of Op 3. Address: 1	erator: ANTERC	10079 RESOURCES E 300	PICEANO	E CORP	ORATION	Phone:	(303) 357-6 (303) 357-7	The second	**************************************
City:	DENVER	State:	co	Zip;	80202				200
5. API Number 7. Well Name:	05-045-149 DEVER	47-00				6. County Well No	/: umber: C9	GARFIELD	<del></del>
8. Location: 9. Field Name:	QtrQtr: SWNW	Section  M CREEK	n: <u>17</u>		nship: 6S Code: 525	Ran 500	ge: 92W	Merldian:	6

**EXHIBIT** 

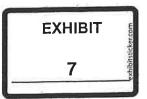
6

Completed Interval
FORMATION: MANCOS Status: TEMPORARILY ABANDONED
Treatment Date: 04/08/2010 Date of First Production this formation: 07/20/2008
forations Top: 8873 Bottom: 12315 No. Holes: 567 Hole size: 0.42
Provide a brief summary of the formation treatment: Open Hole:
This formation is commingled with another formation: Yes X No
Test Information:
Date: Hours: Bbls oil: Mcf Gas: Bbls H2O;
Calculated 24 hour rate; Bbls oil: Mcf Gas: Bbls H2O: GOR:
Test Method: Casing PSI: Tubing PSI: Choke Size:
Gas Disposition:  Gas Type:  BTU Gas:  API Gravity Oil:  Packet Depth:
Tubing Size: Tubing Setting Depth: Tbg setting date: Packer Depth:
Reason for Non-Production;
MNCS is T&A'd by CIBP
Date formation Abandoned: 04/08/2010 Squeeze: Yes X No If yes, number of sacks cmt
Bridge Plug Depth: 7900 Sacks cement on top:
FORMATION: WILLIAMS FORK - CAMEO Status: PRODUCING
Treatment Date: 04/16/2010 Date of First Production this formation: 04/20/2010
Perforations Top: 6126 Bottom: 7748 No. Holes: 240 Hole size: 0.42
vide a brief summary of the formation treatment: Open Hole: 🔯
Frac'd with 30,538 bbls of 2% KCL and 1,808,132 lbs sand
This formation is commingled with another formation:
Test Information:
Date: 05/04/2011 Hours: 24 Bbls oil: 0 Mcf Gas: 398 Bbls H2O: 100
Calculated 24 hour rate:  Bbls oil: 0 Mcf Gas: 398 Bbls H2O: 100 GOR: 0  Caring PSI: 503 Tubing PSI: 196 Choke Size: 28/64
Test Method: Flowing Casing PSI: 505
Gas Disposition: SOLD Gas Type: WET BTD Gas. 1110
Tubing Size: 2 + 3/8 Tubing Setting Depth; 7091 Tbg setting date: 04/19/2010 Packer Depth;
Reason for Non-Production:
Squeeze: Fill Yes Till No If yes, number of sacks cmt
Date formation Abandoneo
Bridge Plug Depth: Sacks cement on top:
Comment:
I hereby certify all statements made in this form are, to the best of my knowledge, true, correct, and complete.
Print Name: Hannah Knoppling
, ned:
Title: Permit Representative Date: 10/13/2011 Email hknopping@anteroresources.com

# Attachment Check List Att Doc Num Name FORM 5A SUBMITTED 400201987 WIRELINE JOB SUMMARY 202061 Total Attach: 2 Files General Comments Comment Date **User Group** Comment Total: 0 comment(s)

## **COGIS - Monthly Well Production**

PRODUCTION D	ATA REPORT GIS		
API#:	05-045-14947	Location:	SWNW 176S 92W 6
Field:	MAMM CREEK	Field Code:	52500
Facility Name:	DEVER	Facility #:	C9
Operator Name:	URSA OPERATING COMPANY LLC	Operator #:	10447



PRODUCTION YEAR: All

OIL

Water (psig)

Tog. Csg.

Well Days Product

GAS

Water (psig)

Water (psig)

Water (psig)

Water (psig)

Year	Month	Formation	Sidetrack	Well Status	Days Prod	Product							Water Disp. Code		as ig)
			3				Prod	Flared	Used	Shrinkage	Sold	вти	Disp. Gode	Tbg.	Csg.
	10000000	<b>在</b> 然似象			計劃				機構				100		
2008	Feb	MANCOS	00	DG		Oil -> Gas ->	_					i a i au a cu		0	0
2008	Mar	MANÇOS	00	DG		Oil -> Gas ->							0	0	0
2008	Apr	MANCOS	00	DG		Oil -> Gas ->								0	
2008	May	MANCOS	00	DG		Oil -> Gas ->								0	C
2008	Jun	MANCOS	0.0	DG		Oil -> Gas ->							0.000	0	C
2008	Jul	MANCOS	00	PR	11	Oil -> Gas ->	29,502				29,502	974	6,823 C		
2008	Aug	MANCOS	00	PR	31	Oil -> Gas ->		85			85 58,781	974	735 C		
2008	Sep	MANCOS	00	PR	30		85 40,583	166	144		107 40,583	48.2 974	Р		
2008	Oct	MANCOS	00	PR	27		107 29,586	109			216 29,586	974	4,457 P		
2008	Nov	MANCOS	00	PR	30	Oil -> Gas ->		151	203		164 28,864	49.7 974	5,551 P		
2008	Dec	MANCOS	00	PR	31	Oil -> Gas ->	164 28,395	80			244 28,395	974	5,612 P		
2009	Jan	MANCOS	00	PR	31	Oil -> Gas ->	244 24,748	94	203		135 24,748	50.4 974	Р		
2009	Feb	MANCOS	00	PR	28	Oil -> Gas <b>-</b> >	135 20,759	49	70		114 20,759	52.7 974	Р		
2009	Mar	MANCOS	00	PR	31	Oil -> Gas ->	114 20,769	.93	79		128 20,769	51.7 974	Р		
2009	Apr	MANCOS	00	PR	30	Oil -> Gas ->	128 17,990	81			209 17,990	974	3,230 P		
2009	May	MANCOS	00	PR	30	Oil -> Gas ->	209 17,512	111	132		188 17,512	51.3 974	Р		
2009	Jun	MANCOS	00	PR	30	Oil -> Gas ->	15,645				15,645	974	2,675 P		
2009	Jul	MANCOS	00	PR	31	Oil -> Gas ->	15,541				15,541	974			
2009	Aug	MANCOS	00	PR	31	Oil -> Gas ->	15,134				15,134	974	2,331 P		
2009	Sep	MANCOS	00	PR	30	Oil ->					14,392	980	3,222 C		
2009	Oct	MANCOS	00	PR	31	Oil ->	14,384				14,384	980	3,560 P		

2009	Nov	MANCOS	00	PR	30	Oil ->	13,093				13,093	980	4,258 C		
2009	Dec	MANCOS	00	PR	31	Oil ->	13,068				13,068	980	3,079 C		
2010	Jan	MANCOS	00	PR	31	Oil ->					12,725	980	436 C		
2010	Feb	MANCOS	00	PR	28	Oil ->					11,301	980	2,483 C	72	
2010	Mar	MANCOS	00	PR	31	Oil ->					11,230	998	3,686 C		
2010	Apr	MANCOS	00	PR	19	Oil ->	22,899				22,899	1,121	2,022 C		
2010	Apr	WILLIAMS FORK - CAMEO	00	DG		Oil -> Gas ->		9			22,000				
2010	May	WILLIAMS FORK - CAMEO	00	DG		Oil -> Gas ->	-			K .					
2010	May	MANCOS	00	PR	31	Oil -> Gas ->					38,177	1,115	8,784 C		
2010	Jun	MANCOS	00	PR	30	Oil -> Gas ->	26,730	-			26,730	1,116	7,204 C		
2010	Jun	WILLIAMS FORK - CAMEO	00	DG		Oil -> Gas ->									
2010	Jul	WILLIAMS FORK - CAMEO	00	DG		Oil -> Gas ->									
2010	Jul	MANCOS	00	PR	31	Oil -> Gas ->	22,665				22,665	1,116	3,428 C		12
2010	Aug	MANCOS	00	TA		Oil -> Gas ->								0	0
2010	Aug	WILLIAMS FORK - CAMEO	00	PR	31	Oil -> Gas ->	20,093	216	167		49 20,093	48.4 1,116	3,520 C		
2010	Sep	WILLIAMS FORK - CAMEO	00	PR	30	Oil -> Gas ->	49 17,407	219	268		17,407	49.9 1,116	3,269 C		
2010	Sep	MANCOS	00	SI		Oil -> Gas ->									
2010	Oct	MANCOS	00	TA		Oil -> Gas ->		•						0	0
2010	Oct	WILLIAMS FORK - CAMEO	00	PR	29	Oil -> Gas ->	15,689	250	175		75 15,689	48.4 1,121	1,620 C		
2010	Nov	WILLIAMS FORK - CAMEO	00	PR	30	Oil -> Gas ->	75 14,530	233	272		36 14,530	48.9 1,121	973 C		
2010	Nov	MANCOS	00	TA		Oil -> Gas ->								0	0
2010	Dec	MANCOS	00	TA		Oil -> Gas ->								0	0
2010	Dec	WILLIAMS FORK - CAMEO	00	PR	31	Oil -> Gas ->	36 13,966	200	198		38 13,966	50.5 1,119	1,298 C		
2011	Jan	WILLIAMS FORK - CAMEO	00	PR	31	Oil -> Gas ->	38 13,171	287	315		10 13,171	50.8 1,119	1,006 C		
2011	Jan	MANCOS	00	TA		Oil -> Gas ->								0	0
2011	Feb	MANCOS	00	TA		Oil -> Gas ->			,					0	0

2011	Feb	WILLIAMS FORK - CAMEO	00	PR	28	Oil -> Gas ->	10 10,852	288	298		10,852	50.8 1,119	1,308 C		
2011	Mar	WILLIAMS FORK - CAMEO	00	PR	31	Oil -> Gas ->	11,975	168	119		49 11,975		612 C		
2011	Mar	MANCOS	00	ТА		Oil -> Gas ->								0	0
2011	Apr	MANCOS	00	TA		Oil -> Gas ->								0	0
2011	Apr	WILLIAMS FORK - CAMEO	00	PR	28	Oil -> Gas ->	49 11,032	191	183		57 11,032	48.9 1,119	1,251 P		
2011	May	WILLIAMS FORK - CAMEO	00	PR	31	Oil -> Gas ->	57 11,015	130	156		31 11,015	50.5 1,119	1,842 P		
2011	May	MANCOS	00	TA		Oil -> Gas ->		80.00						0	0
2011	Jun	MANCOS	00	TA		Oil -> Gas ->								0	0
2011	Jun	WILLIAMS FORK - CAMEO	00	PR	30	Oil -> Gas ->	31 9,955	125	87		69 9,955	50.4 1,119	1,014 P		
2011	Jul	WILLIAMS FORK - CAMEO	00	PR	31	Oil -> Gas ->	69 9,953	152	211		9,953	50.1 1,119	655 C		
2011	Jul	MANCOS	00	TA		Oil -> Gas ->								0	0
2011	Aug	MANCOS	00	TA		Oil -> Gas ->	1							0	0
2011	Aug	WILLIAMS FORK - CAMEO	00	PR	31	Oil -> Gas ->	10 9,453	142	96		56 9,453	44.9 1,119	790 P		
2011	Sep	WILLIAMS FORK - CAMEO	00	PR	30	Oil -> Gas ->	56 7,947	112	131	Ñ,	37 7,947	47.4 1,119	690 P		
2011	Sep	MANCOS	00	ТА	4	Oil -> Gas ->		2						0 0	0
2011	Oct	MANCOS	00	TA		Oil -> Gas ->								0	0
2011	Oct	WILLIAMS FORK - CAMEO	00	PR	31	Oil -> Gas ->	37 13,742	79	95		21 13,742	48.7 1,119	1,112 P		
2011	Nov	WILLIAMS FORK - CAMEO	00	PR	30	Oil -> Gas ->	21 22,380	178	158		41 22,380	43.7 1,119	3,491 P		
2011	Nov	MANCOS	00	TA		Oil -> Gas ->								0 0	0
2011	Dec	MANCOS	00	TA		Oil -> Gas ->								0	0
2011	Dec	WILLIAMS FORK - CAMEO	00	PR	31	Oil >	41 19,434	122	153		10 19,434	44.9 1,037	3,602 P		
2012	Jan	WILLIAMS FORK - CAMEO	00	PR	31	Oil -> Gas ->	10 17,961	198	162		46 17,961	50.4 1,040	3,105 P		
2012	Jan	MANCOS	00	TA		Oil -> Gas ->								0	0
2012	Feb	MANCOS	00	TA		Oil -> Gas ->					,			0 0	0
2012	Feb	WILLIAMS FORK - CAMEO	00	PR	29	011	46 16,108	115	151		10 16,108	51.1 1,040	2,219 P		

2012	Mar	WILLIAMS FORK - CAMEO	00	PR	31	Oil -> Gas ->	10 15,241	110	110	10 15,241	49.1 1,040	2,073 P		
2012	Mar	MANCOS	00	TA		Oil -> Gas ->							0	0
2012	Apr	MANCOS	00	- SI		Oil -> Gas ->							0	0
2012	Apr	WILLIAMS FORK - CAMEO	00	PR	30	Oil -> Gas ->	10 14,554	121	115	16 14,554	41.1 998	2,083 P		
2012	May	WILLIAMS FORK - CAMEO	00	PR	31	Oil -> Gas ->	16 14,524	151	119	48 14,524	42.0 1,026	2,057 P		
2012	May	MANCOS	00	SI		Oil -> Gas ->							0	0
2012	Jun	MANCOS	00	SI		Oil -> Gas ->							0	0
2012	Jun	WILLIAMS FORK - CAMEO	00	PR	30	Oil -> Gas ->	48 13,571	179	227	13,571	49.1 1,026	2,181 C		
2012	Jul	WILLIAMS FORK - CAMEO	00	PR	31	Oil -> Gas ->	13,704	107	107	13,704	48.8 1,040	2,038 P		
2012	Jul	MANCOS	00	ТА		Oil -> Gas ->		*					0	0
2012	Aug	MANCOS	00	SI		Oil -> Gas ->							0	0 0
2012	Aug	WILLIAMS FORK - CAMEO	00	PR	31	Oil -> Gas ->	13,236	71		71 13,236	978	1,826 P		
2012	Sep	WILLIAMS FORK - CAMEO	00	PR	30	Oil -> Gas ->	71 13,785	139	119	91 13,785	47.8 1,040	2,386 P		
2012	Sep	MANCOS	00	SI		Oil -> Gas ->							0	0
2012	Oct	MANCOS	00	° SI		Oil -> Gas ->							0	0 0
2012	Oct	WILLIAMS FORK - CAMEO	00	PR	31	Oil -> Gas ->	91 12,783	72	118	45 12,783	43.1 1,040	1,686 C		
2012	Nov	WILLIAMS FORK - CAMEO	00	PR	30	Oil -> Gas ->	45 11,754	94	106	33 11,754	42.3 1,040	1,483 C		
2012	Nov	MANCOS	00	SI		Oil -> Gas ->							0	0
2012	Dec	MANCOS	00	SI		Oil -> Gas ->							0	0
2012	Dec	WILLIAMS FORK - CAMEO	00	PR	31	Oil -> Gas ->	33 13,021	94	111	16 13,021	44.9 1,040	1,911 C		
2013	Jan	WILLIAMS FORK - CAMEO	00	PR	31	Oil -> Gas ->	16 11,881	58		74 11,881	1,040	1,506 C		
2013	Jan	MANCOS	00	SI		Oil -> Gas ->							0	0
2013	Feb	MANCOS	00	SI		Oil -> Gas ->							0	0 0
2013	Feb	WILLIAMS FORK - CAMEO	00	PR	28	Oil -> Gas ->	74 10,687	97	111	60 10,687	43.1 1,040	1,430 C		
2013	Mar	WILLIAMS FORK - CAMEO	00	PR	31	Oil -> Gas ->	114 11,714	76	112	78 11,714	46.7 1,040	2,260 P		

2013	Mar	MANCOS	00	SI		Oil -> Gas ->					100			0	
2013	Apr	MANCOS	00	SI	0	Oil -> Gas ->				-			М		
2013	Apr	WILLIAMS FORK - CAMEO	00	PR	30	Oil -> Gas ->	78 11,075	99	110		67 11,075	46.9 1,040	811 P		
2013	May	WILLIAMS FORK - CAMEO	00	PR	31	Oil -> Gas ->	67 11,471	70	10		127 11,471	49.9 1,040	676 P		
2013	May	MANCOS	00	SI	0	Oil -> Gas ->							М		
2013	Jun	MANCOS	00	SI	0	Oil -> Gas ->							М		
2013	Jun	WILLIAMS FORK - CAMEO	00	PR	30	Oil -> Gas ->	127 10,836	101	114		114 10,836	47.6 1,040	762 P		
2013	Jul	WILLIAMS FORK - CAMEO	00	PR	31	Oil -> Gas ->	114 10,637	123	105		132 10,637	48.4 1,040	886 P		
2013	Jul	MANCOS	00	SI	0	Oil -> Gas ->	7.9						М		
2013	Aug	MANCOS	00	SI	0	Oil -> Gas ->							М		
2013	Aug	WILLIAMS FORK - CAMEO	00	PR	31	Oil -> Gas ->	132 11,161	110	103		139 11,161	48.5 1,040	1,141 P		
2013	Sep	WILLIAMS FORK - CAMEO	00	PR	30	Oil -> Gas ->	139 12,795	111	197	41	53 12,795	49.9 1,040	1,052 P		
2013	Sep	MANCOS	00	SI	0	Oil -> Gas ->						ψ ×.	М		
2013	Oct	MANCOS	00	SI	0	Oil -> Gas ->	F						М		
2013	Oct	WILLIAMS FORK - CAMEO	00	PR	31	Oil -> Gas ->	53 12,029	98	4		147 12,029	46.6 1,040	1,028 P		
2013	Nov	WILLIAMS FORK - CAMEO	00	PR	30	Oil -> Gas ->	147 11,583	160	193	11	114 11,583	48.7 1,040	926 P		
2013	Nov	MANCOS	00	SI	0	Oil -> Gas ->							М		
2013	Dec	MANCOS	00	SI	0	Oil -> Gas´->							М		
2013	Dec	WILLIAMS FORK - CAMEO	00	PR	31	Oil -> Gas ->	114 10,795	298	296		116 10,795	50.3 1,040	1,683 P		
2014	Jan	WILLIAMS FORK - CAMEO	00	PR	31	Oil -> Gas ->	116 11,485	297	297		116 11,485	49.0 1,040	1,425 P		
2014	Jan	MANCOS	00	SI	0	Oil -> Gas ->							м		
2014	Feb	MANCOS	00	SI	0	Oil -> Gas ->							М		
014	Feb	WILLIAMS FORK - CAMEO	00	PR	28	Oil -> Gas ->	116 9,950	185	180		121 9,950	50.0 1,040	851 P		
2014	Mar	WILLIAMS FORK - CAMEO	00	PR	31	Oil -> Gas ->	121 11,120	101	172		50 11,120	50.3 1,040	877 P		
2014	Mar	MANCOS	00	SI	0	Oil -> Gas ->							м		

2014	Apr	MANCOS	00	SI	0	Gas ->							M		
2014	Apr	WILLIAMS FORK - CAMEO	00	PR	30	Oil -> Gas ->	50 10,764	88	11-1		27 10,764	50.4 1,040	846 P		
2014	May	WILLIAMS FORK - CAMEO	00	PR	31	Oil -> Gas ->	27 10,624	89	78		38 10,624	50.4 1,040	698 P		
2014	May	MANCOS	00	SI	0	Oil -> Gas ->							М		
2014	Jun	MANCOS	00	SI	0	Oil -> Gas ->							M	i.	
2014	Jun	WILLIAMS FORK - CAMEO	00	PR	30	Oil -> Gas ->	38 10,609	84	75		47 10,609	49.0 1,040	461 P		
2014	Jul	WILLIAMS FORK - CAMEO	00	PR	31	Oil -> Gas ->	47 10,350	82	74		55 10,350	49.8 1,040	745 P		
2014	Jul	MANCOS	- 00	SI	0	Oil -> Gas ->				V			М		
2014	Aug	MANCOS	00	SI	0	Oil -> Gas ->							м		
2014	Aug	WILLIAMS FORK - CAMEO	00	PR	31	Oil -> Gas ->	55 10,423	77	75		57 10,423	49.7 1,040	590 P		
2014	Sep	WILLIAMS FORK - CAMEO	00	PR	30	Oil -> Gas ->	57 9,840	69	80		46 9,840	48.9 1,040	541 P		
2014	Sep	MANCOS	00	SI	0	Oil -> Gas ->					×		М	,	
2014	Oct	MANCOS	00	SI	0	Oil -> Gas ->							М		
2014	Oct	WILLIAMS FORK - CAMEO	00	PR	31	Oil -> Gas ->	46 10,459	65	77		34 10,459	49.0 1,040	576 P		
2014	Nov	WILLIAMS FORK - CAMEO	00	PR	30	Oil -> Gas ->	34 9,093	63	37		9,093	49.2 1,040	519 P		
2014	Nov	MANCOS	00	SI	0	Oil -> Gas ->							М	-	
2014	Dec	MANCOS	00	ŞI .	0	Oil -> Gas ->							М		
2014	Dec	WILLIAMS FORK - CAMEO	00	PR	31	Oil -> Gas ->	60 9,587	66	74		52 9,587	47.6 1,040	539 P		
2015	Jan	WILLIAMS FORK - CAMEO	00	PR	31	Oil -> Gas ->	52 7,203	64	73		43 7,203	49.2 1,040	492 P		c
2015	Jan	MANCOS	00	SI	0	Oil -> Gas ->					-		М		
2015	Feb	MANCOS	00	SI	0	Oil -> Gas ->							М		
2015	Feb	WILLIAMS FORK - CAMEO	00	PR	28	Oil -> Gas ->	43 10,183	57	75		25 10,183	47.2 1,040	487 P		, ,
2015	Маг	WILLIAMS FORK - CAMEO	00	PR	31	Oil -> Gas ->	25 9,380	26	37	1.512	14 9,380	49.2 1,040	514 P		
015	Mar	MANCOS	00	SI		Oil -> Gas ->								0 0	C
015	Apr	MANCOS	00	SI	0	Oil -> Gas ->							М		
		WILLIAMS				Oil->	14	101	75		40	48.1	691		

2015	Apr	FORK -	00	PR	30	Gas ->	9,214			=	9,214	1,040	P		
2015	May	WILLIAMS FORK - CAMEO	00	PR	31	Oil -> Gas ->	9,268	55	70		25 9,268	47.4 1,040	665 P		
2015	May	MANCOS	00	SI	0	Oil -> Gas ->							М		
2015	Jun	MANCOS	00	SI	0	Oil -> Gas ->							М		
2015	Jun	WILLIAMS FORK - CAMEO	00	PR	30	Oil -> Gas ->	25 8,358				43 8,358	47.5 1,060	P		
2015	Jul	WILLIAMS FORK - CAMEO	00	PR	31	Oil -> Gas ->	9,409				26 9,409	48.9 1,042	Р		
2015	Aug	WILLIAMS FORK - CAMEO	00	PR	31	Oil -> Gas ->	26 9,224				46 9,224	1,042	Р		
2015	Sep	WILLIAMS FORK - CAMEO	00	PR	30	Oil -> Gas ->	46 8,404	52	74		24 8,404	47.6 1,076	578 P		
2015	Sep	MANCOS	00	PŖ	0	Oil -> Gas ->		v						0	0
2015	Oct	WILLIAMS FORK - CAMEO	00	PR	31	Oil -> Gas ->	24 8,001	47	37		34 8,001	47.5 1,076	519 P	1	
2015	Nov	WILLIAMS FORK - CAMEO	00	PR	30	Oil -> Gas ->	34 7,907	44	37		41 7,907	49.4 1,076	433 P	0	0
2015	Dec	WILLIAMS FORK - CAMEO	00	PR	31	Oil -> Gas ->	41 7,807	53	31		63 7,807	49.2 1,076	590 P		
2016	Jan	WILLIAMS FORK - CAMEO	00	PR	31	Oil -> Gas ->	63 8,669	55	74		44 8,669	47.4 1,076	604 P		
2016	Feb	WILLIAMS FORK - CAMEO	00	PR	29	Oil -> Gas ->	44 8,120	50	39		55 8,120	47.6 1,076	601 P		
2016	Mar	WILLIAMS FORK - CAMEO	00	PR	31	Oil -> Gas ->	55 8,375	49	76		28 8,375	47.8 1,076	632 P		
2016	Apr	WILLIAMS FORK - CAMEO	00	PR	30	Oil -> Gas ->	28 8,248	45	38		35 8,248	50.1 1,076	571 P		
2016	Apr	MANCOS	00	PR	0	Oil -> Gas ->		(24))						0	0
2016	May	WILLIAMS FORK - CAMEO	00	PR	31	Oil -> Gas ->	35 8,386	48	38		45 8,386	48.7 1,076	582 P		
2016	Jun	WILLIAMS FORK - CAMEO	00	PR	30	Oil -> Gas ->	45 8,034	43	38		50 8,034	48.1 1,076	481 P		
2016	Jul	WILLIAMS FORK - CAMEO	00	PR	31	Oil -> Gas ->	50 8,310	45	38		57 8,310	48.7 1,076	518 P		
2016	Aug	WILLIAMS FORK - CAMEO	00	PR	31	Oil -> Gas ->	57 8,293	42	78		21 8,293	48.5 1,076	536 P		
2016	Sep	WILLIAMS FORK - CAMEO	00	PR	30	Oil -> Gas ->	21 7,793	38	36		23 7,793	47.7 1,076	517 P		
2016	Oct	WILLIAMS FORK -	00	PR	31	Oil -> Gas ->	23 8,179	42	38		27 8,179	47.5 1,067	587 P		

1		CAMEO											F04		
2016	Nov	WILLIAMS FORK - CAMEO	00	PR	30	Oil -> Gas ->	27 7,767	41	36	4	32 7,767	47.8 1,067	531 P	. 25	
2016	Dec	WILLIAMS FORK - CAMEO	00	PR	31	Oil -> Gas ->	32 8,129	42	35		39 8,129	47.8 1,067	557 P	-	
2017	Jan	WILLIAMS FORK - CAMEO	00	PR	31	Oil -> Gas ->	39 8,039	38	37		8,039	48.8 1,026	536 P		
2017	Feb	WILLIAMS FORK - CAMEO	00	PR	28	Oil -> Gas ->	40 7,165	37	37		7,165	49.3 1,026	497 P		