# STATE OF OHIO DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL AND GAS RESOURCES MANAGEMENT

In re the Matter of the Application of : Chesapeake Exploration, L.L.C., for :

Unit Operation : Application Date: May 16, 2017

: Revised Date: June 26, 2017 <u>Surratt Unit</u> : Revised Date: July 20, 2017

Revised Date: August 21, 2017

# APPLICATION OF CHESAPEAKE EXPLORATION, L.L.C., FOR UNIT OPERATION

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Attorney for Applicant, Chesapeake Exploration, L.L.C.

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Unit Operation : Application Date: May 16, 2017

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Surratt Unit :

#### **APPLICATION**

Pursuant to Ohio Revised Code Section 1509.28, Chesapeake Exploration, L.L.C. ("Chesapeake"), hereby respectfully requests the Chief of the Ohio Department of Natural Resources' Division of Oil and Gas Resources Management ("Division") to issue an order authorizing Chesapeake to operate the Unitized Formation and applicable land area in Belmont and Guernsey Counties, Ohio (hereinafter, the "Surratt Unit") as a unit according to the Unit Plan attached hereto and as more fully described herein. Chesapeake makes this request for the purpose of substantially increasing the ultimate recovery of oil and natural gas, including related liquids, from the Unitized Formation, and to protect the correlative rights of unit owners, consistent with the public policy of Ohio to conserve and develop the state's natural resources and prevent waste.

# I. APPLICANT INFORMATION

Chesapeake Exploration, L.L.C., is a limited liability company organized under the laws of the State of Oklahoma and a wholly-owned subsidiary of Chesapeake Energy Corporation. Chesapeake has its principal office in Oklahoma City, Oklahoma, and local offices at 2321 Energy Drive, Louisville, OH 44641. Chesapeake is one of the most active drillers of horizontal wells in Northeast Ohio and is registered in good standing as an "owner" with the Division.

Chesapeake designates to receive service, and respectfully requests that all orders, correspondence, pleadings and documents from the Division and other persons concerning this filing be served upon, the following:

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#### PROJECT DESCRIPTION

The Surratt Unit is located in Belmont and Guernsey Counties, Ohio, and consists of thirty-seven (37) separate tracts of land. See Exhibits A-1 and A-2 of the Unit Operating Agreement (showing the plat and tract participations, respectively). The total land area in the Surratt Unit is approximately 665.459803 acres. The total acreage in the Surratt Unit was calculated using GIS data along with corresponding title acreage. In its calculations, Chesapeake takes the title acreage multiplied by the GIS post clip information representing the percentage of each tract that encompasses the Surratt Unit. Chesapeake has the right to drill on and produce from 460.920820<sup>1</sup> acres of the proposed unit – i.e., more than sixty-five percent (65%) of the unit area, above the sixty-five percent (65%) threshold required by Ohio Revised Code § 1509.28.<sup>2</sup> Chesapeake and other operators control over 91% of the working interest in the unit, with Chesapeake and other committed working interest owners currently holding 69.263510%, Ascent Resources - Utica, LLC ("ARU") holding 1.096677%, RHDK Oil & Gas, L.L.C. ("RHDK") holding 0.144809%, Gulfport Energy Corporation ("GPOR") holding 10.370867% and Antero Resources Corporation ("Antero") holding 10.570135% of the working interest in the Surratt Unit. Not including the non-operated leasehold of ARU, RHDK, GPOR, and ANTERO, Chesapeake and other committed working interest owners account for over 65% of this Unit which exceeds the 65% statutory minimum requirement for seeking unitization. As more specifically described herein, Chesapeake seeks authority to drill and complete three (3) horizontal wells in the Unitized Formation

<sup>&</sup>lt;sup>1</sup> Chesapeake Exploration, LLC, as Operator, is authorized to file this application on behalf of TOTAL E&P USA, Inc., Chesapeake's Joint Venture Partner, and CHK Utica, L.L.C., a wholly controlled Chesapeake entity, as other working interest owners in this acreage.

<sup>&</sup>lt;sup>2</sup> <u>See</u> Prepared Direct Testimony of Dan Kucab, attached as <u>Exhibit 5</u>.

from a single well pad located near the south central portion of the Unit to efficiently test, develop, and operate the Unitized Formation for oil, natural gas, and related liquids production.

Chesapeake's plan for unit operations (the "Unit Plan") is attached to this Application and consists of the Unit Agreement, attached as <a href="Exhibit 1">Exhibit 1</a>; and the Unit Operating Agreement, attached as <a href="Exhibit 2">Exhibit 2</a>. Among other things, the Unit Plan allocates unit production and expenses based upon each tract's surface acreage participation in the unit; includes a carry provision for those unit participants unable to meet their financial obligations, the amount of which is based upon the risks of and costs related to the project; and conforms to industry standards for the drilling and operating of horizontal wells generally used by the Applicant with other interest owners.

#### III. TESTIMONY

The following pre-filed testimony has been attached to the Application supporting the Surratt Unit's formation: (i) testimony from a Geologist establishing that the Unitized Formation is part of a pool and supporting the Unit Plan's recommended allocation of unit production and expenses on a surface acreage basis;<sup>3</sup> (ii) testimony from a Reservoir Engineer establishing that unitization is reasonably necessary to increase substantially the recovery of oil and gas, and that the value of the estimated additional resource recovery from unit operations exceeds its additional costs;<sup>4</sup> and (iii) testimony from an operational Landman with firsthand knowledge of Chesapeake's Ohio development who describes the project generally, the Unit Plan, efforts to lease unleased owners, and the approvals received for unit development.<sup>5,6</sup>

# IV. THE CHIEF SHOULD GRANT AN ORDER FOR THIS APPLICATION

#### A. <u>Legal Standard</u>

Ohio Revised Code § 1509.28 requires the Chief of the Division to issue an order providing for the unit operation of a pool – or a part thereof – when the applicant shows that it is reasonably necessary to increase substantially the ultimate recovery of oil and gas, and the value of the estimated additional resource recovery from the unit's operations exceeds its additional costs. See Ohio Rev. Code § 1509.28(A). The Chief's order must be on terms and conditions that are just and reasonable and prescribe a plan for unit operations.

<sup>&</sup>lt;sup>3</sup> <u>See</u> Prepared Direct Testimony of Colton Birch, attached as <u>E</u>xhibit 3.

<sup>&</sup>lt;sup>4</sup> <u>See</u> Prepared Direct Testimony of John Robinson, attached as <u>Exhibit 4</u>.

 $<sup>\</sup>frac{5}{\text{See}}$  Prepared Direct Testimony of Dan Kucab, attached as Exhibit 5.

<sup>&</sup>lt;sup>6</sup> Each of the witnesses is an employee of Chesapeake Operating, L.L.C., who along with Applicant, are subsidiaries of Chesapeake Energy Corporation.

<u>See</u> Ohio Rev. Code § 1509.28(A). Chesapeake proposes the following conditions for its operation of the Surratt Unit that will satisfy the statutory requirements set forth below:

(1) A description of the unit area.

See the above section on "PROJECT DESCRIPTION."

(2) A statement of the nature of the contemplated operations.

Chesapeake anticipates drilling three (3) wells from a pad location on two separate parcels located in the south central portion of the Surratt Unit for the purpose of recovering oil and gas. Drilling operations in the Unit will commence within twelve (12) months from the date of approval of the Division's Unitization Order. Notwithstanding any unforeseen developments, in Q1 or Q2 of 2018, at the latest, Chesapeake intends to drill the initial well within the Surratt Unit. Thereafter, Chesapeake plans to drill the two (2) subsequent wells within five (5) years from the completion of the initial well.<sup>7</sup>

(3) An allocation of production from the unit area not used in unit operations, or otherwise lost, to the separately owned tracts.

Chesapeake's geology testimony illustrates that the Utica/Point Pleasant Formation uniformly underlies the Unit Area. Therefore, the value of each separate tract in the Unit Area shall be determined by calculating the ratio of its surface acreage to the total surface acreage of the Unit Area; this is known as "Unit Participation". The allocated share of production to each separate tract shall be equal to its Unit Participation.

(4) A provision addressing credits and charges to be made for the investment in wells, tanks, pumps, and other equipment contributed to unit operations by owners in the unit.

Owners in the Unit Area are responsible for their pro rata share of these credits and charges based upon their total Unit Participation within the Unit Area.

(5) A provision addressing how unit operation expenses shall be determined and charged to the separately owned tracts in the unit, and how they will be paid.

Expenses related to unit operations shall be charged to owners on a pro rata basis based upon their Unit Participation. These charges shall be just and reasonable.

(6) A provision, if necessary, for carrying someone unable to meet their financial obligations in connection with the unit.

Chesapeake will carry, or otherwise finance, an owner who is unable to meet its financial obligations in connection with unit operations. Chesapeake shall comply with the Unit Agreement and Unit Operating Agreement included in the subject unitization application should enactment of this provision become necessary.

(7) A provision for the supervision and conduct of unit operations in which each person has a vote with a value corresponding to the percentage of unit operations expenses chargeable against that person's interest.

Chesapeake, or its successors in interest, shall supervise and conduct all unit operations. Each working interest owner in the Unit Area shall have a voting interest equal to its Unit Participation. If the operator owns fifty-one percent (51%) or more of the Unit Area, unit operations shall not require an affirmative vote of all working interest owners. Otherwise, no unit operation shall be approved without an affirmative vote of at least fifty-one percent (51%) of the combined voting interest of the working interest owners.

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<sup>&</sup>lt;sup>7</sup> Exhibit 5 at 3-4.

<sup>&</sup>lt;sup>8</sup> Exhibit 3 at 2-3.

(8) The time when operations shall commence and the manner in which, and circumstances under which, unit operations will terminate.

Unit operations may commence as of 7:00 a.m. on the day following the effective date of the Order, when and if one is issued by the Division, and may continue as long as oil and/or gas are produced. Working interest owners comprising at least fifty-one percent (51%) of the working interest owners in the Unit Area may terminate unit operations whenever they determine unit operations are no longer warranted. If unit operations are so terminated, Chesapeake shall provide written notice of the termination to the Division and to all unitized non-consenting working interest owners, as further defined in 9(b)(ii). In the event that termination of unit operations occurs prior to drilling and completing for production of three (3) wells in the Surratt Unit, the Chief may issue an order reducing the Unit Area to the minimum amount of acreage necessary to support those wells that have been drilled and are producing.

(9) Such other provisions appropriate for engaging in unit operation and for the protection or adjustment of correlative rights.

Chesapeake proposes the following as additional provisions:

- (a) No activity associated with the drilling, completion, or operation of the Surratt Unit shall be conducted on the surface of any unleased property without prior written consent of the landowner.
- (b) If an Order is granted, Chesapeake shall present Unitized parties with the option to:
  - (i) lease their minerals to Chesapeake for a seventeen and one half percent (17.5%) royalty rate on production, and a lease bonus payment of three thousand three hundred dollars (\$3,300) per net mineral acre. This lease option shall be for a non-surface use lease, meaning that Chesapeake shall not use the surface of the mineral owner's property without separate prior written consent by the mineral owner; or
  - (ii) participate in unit operations as a non-consenting working interest owner. The mineral owner shall receive a monthly cash payment equal to a one-eighth (1/8) landowner royalty interest calculated on gross revenues. The one-eighth (1/8) royalty interest shall be calculated based on the Unit Participation of the mineral owner's tract. Chesapeake shall make the royalty payment contemporaneously with those it makes to leased individuals within the Unit Area. In addition to the royalty payment, the nonconsenting working interest owner shall have a working interest ownership in the well equal to seven-eighths (7/8) of the Unit Participation of his/her tract. This seven-eighths of his/her Unit Participation shall accrue based upon net production revenue until Chesapeake recovers 200% of the cost of drilling, testing, completing, and producing the initial well. Once Chesapeake recovers 200% of these costs, Chesapeake shall begin making monthly payments on net production revenue for that well equal to seveneighths (7/8) of the non-consenting working interest owner's Unit Participation, while continuing the one-eighth (1/8) royalty interest in the well for the unitized party. For any subsequent wells drilled in the Unit Area, seven-eighths (7/8) of the non-consenting working interest owner's Unit Participation shall accrue until Chesapeake has recovered 150% of the cost of drilling, testing, completing, and producing the subsequent well. Once Chesapeake recovers 150% of these costs, Chesapeake shall begin making monthly payments on net production revenue for the subsequent wells equal to seven-eighths (7/8) of the non-consenting working interest owner's Unit Participation, while continuing the one-eighth (1/8) royalty interest in the well for the unitized party. Once a specific cost is charged to a well, that same cost cannot be charged to the subsequent wells in the Unit Area.

- (iii) Chesapeake shall present these options via certified mail. Should the Unitized Party not make an affirmative selection as to one of the two options, the Unitized Party will be deemed to have selected option 9(b)(i) to lease their tract under the terms of the lease form attached as Exhibit "B" to Exhibit 2 of this Application.
- (c) If an Order is granted, Chesapeake shall present Unitized parties who are non-operator lessees with the option to:
  - (i) participate in unit operations by agreeing to pay such owner's proportionate part of the actual cost of such development and operation of the unit; or
  - (ii) participate in unit operations as a non-consenting working interest owner. The non-consenting working interest owner shall have a working interest ownership in the well equal to eight-eighths (8/8) of the Unit Participation per tract. This eight-eighths of Unit Participation shall accrue based upon net production revenue until Chesapeake recovers 500% of the cost of drilling, testing, completing, and producing the initial well. Once Chesapeake recovers 500% of these costs, Chesapeake shall begin making monthly payments on net production revenue for that well equal to eighteighths (8/8) of the non-consenting working interest owner's Unit Participation. For any subsequent wells drilled in the Unit Area, eight-eighths (8/8) of the non-consenting working interest owner's Unit Participation shall accrue until Chesapeake has recovered 500% of the cost of drilling, testing, completing, and producing the subsequent well. Once Chesapeake recovers 500% of these costs, Chesapeake shall begin making monthly payments on net production revenue for the subsequent wells equal to eight-eighths (8/8) of the non-consenting working interest owner's Unit Participation. Once a specific cost is charged to a well, that same cost cannot be charged to the subsequent wells in the Unit Area.
  - (iii) Chesapeake shall present these options via certified mail. Should the Unitized Party not make an affirmative selection as to one of the two options, the Unitized Party will be deemed to have selected option 9(c)(ii) and shall relinquish its interest subject to the risk factor noted in 9(c)(ii).
- (d) Unitized parties shall not incur liability for any personal or property damage associated with any drilling, testing, completing, producing, operating, or plugging activities within the Surratt Unit.
- (e) If requested by an unleased mineral owner selecting option 9(b)(ii) above, or by the Division, Chesapeake shall provide, not later than thirty (30) days after receipt of the request, any of the following:
  - (i) a statement for the preceding month, covering all wells then in production within the Unit Area, depicting all costs incurred, together with the quantity of oil and gas produced, and the amount of proceeds realized from the sale of production during said preceding month; and
  - (ii) any authorization for expenditure (AFE) prepared by Chesapeake; and
  - (iii) a statement of all costs and expenses for purposes of Paragraph 9(b)(ii).
- (10) The Order will become effective when Chesapeake provides the Chief with final written approval of the unit operations from sixty-five percent (65%) of the working interest owners in the Unit Area, and sixty-five percent (65%) of the royalty interest owners in the Unit Area. Upon receipt of these approvals, the Order shall become effective, and unit operations may commence as set forth above. Chesapeake will have six (6) months to provide these required approvals, and, if it does not do so, the Order will be deemed revoked, and the Chief shall provide notice of the revocation to Chesapeake and the unleased mineral interest owners in the Unit Area.

- (11) Within twenty-one (21) days of the Order becoming effective, Chesapeake will file a copy of the Order with the Belmont County Recorder's Office and Guernsey County Recorder's Office.
- (12) Chesapeake requests that its Unit Agreement and Unit Operating Agreement are adopted by the Order. In the event of a conflict between the Plan for Unit Operations approved by the Chief and contained in the Order, and Chesapeake's Unit Agreement and Unit Operating Agreement, the Order shall take precedence and the Unit Agreement and Unit Operating Agreement shall conform to the Order.

#### B. Chesapeake's Application Meets the Legal Standard

The Unitized Formation is Part of a Pool

The "Unitized Formation" consists of the subsurface portion of the Unit Area (i.e., the lands shown on Exhibit A-1 and identified in Exhibit A-2 to the Unit Operating Agreement) at a depth located from fifty feet above the top of the Utica Shale to fifty feet below the base of the Point Pleasant formation, and frequently referred to as the Utica/Point Pleasant formation. The evidence presented in this Application establishes that the Unitized Formation is part of a pool and thus an appropriate subject of unit operation under Ohio Rev. Code § 1509.28.9 Additionally, that evidence establishes that the Unitized Formation is likely to be reasonably uniformly distributed throughout the Unit Area – and thus that it is reasonable for the Unit Plan to allocate unit production and expenses to separately owned tracts on a surface acreage basis. 10

> ii. Unit Operations Are Reasonably Necessary to Increase Substantially the Ultimate Recovery of Oil and Gas

The evidence presented in this Application establishes that unit operations are reasonably necessary to increase substantially the ultimate recovery of oil and gas from the lands making up the Surratt Unit. The Unit Plan contemplates the drilling of three (3) horizontal wells from a centrally-located multi-well pad, with estimated lateral lengths of 9,221 feet. 11 Chesapeake estimates the total amount of recoverable gas in place ("GIP") through the planned unit development is approximately 30.4 BCFe. 12 Absent unit development contemplated in the unitized project, the recoverable GIP is substantially less: First, the evidence shows that it is unlikely that vertical development of the unit would ever take place because it is likely to be uneconomic – resulting in potentially no resource recovery from portions of the Unitized Formation.<sup>13</sup> Second, avoiding unleased tracts by relying on shorter horizontal laterals to develop the Unitized For-

<sup>&</sup>lt;sup>9</sup> A "pool" is defined under Ohio law as "an underground reservoir containing a common accumulation of oil or gas, or both, but does not include a gas storage reservoir." Ohio Rev. Code § 1509.01(E). See also Exhibit 3 at 2-3. <sup>10</sup> Exhibit 3 at 4-5.

 $<sup>11 \</sup>overline{\text{See}, \text{e.g.}}, \underline{\text{Exhibit 5}} \text{ at 3}.$ 

<sup>12</sup> Exhibit 4 at 3. We emphasize that these are only estimates, and like the rest of the estimates set forth in this Application, they should be treated as simply estimates based upon the best information available at the time. <sup>13</sup> <u>Id.</u> at 4.

mation underlying the Surratt Unit would result in a substantially lower ultimate recovery of oil and gas, as it would strand 8.7 BCFe. <sup>14</sup> Natural gas recovery from horizontal drilling methods is directly related to the length of the lateral. Chesapeake's Estimated Ultimate Recovery (EUR) will increase from 21.7 BCFe to 30.4 BCFe if the unit is developed utilizing the proposed unit development. <sup>15</sup>

The evidence thus shows that the contemplated unit operations are reasonably necessary to increase substantially the recovery of oil and gas from the Unitized Formation. <sup>16</sup>

#### iii. The Value of Additional Recovery Exceeds Its Additional Costs

Sa.5 mm over CAPEX to develop the non-unitized project (\$17.4 mm). CAPEX includes all capital expenditures necessary to initially drill, complete, and produce the wells. As set forth in Mr. Robinson's testimony, by using the current price of \$2.74 per thousand cubic feet of natural gas (no btu adjustments) and \$47.61 per barrel of oil, Chesapeake estimates that the value of the additional future cash flow from the unitized project, when compared to the cash flow generated by the non-unitized project, increases from \$-2.3 mm to \$3.4 mm with a 10% discount rate (~\$1.13 mm per well); or \$16.2 mm at an undiscounted net cash flow; an increase of \$5.7 mm in potential value. Thus, the evidence establishes that the value of the estimated additional recovery is expected to exceed the estimated additional costs incident to conducting unit operations.

# iv. The Unit Plan Meets the Requirements of Ohio Revised Code § 1509.28

The Unit Plan proposed by Chesapeake meets the requirements set forth in Ohio Revised Code § 1509.28. The unit area is described in the Unit Agreement at Article 1, as well as on Exhibits A-1 and A-2 to the Unit Operating Agreement. The nature of the contemplated unit operations can be found generally in the Unit Agreement at Article 3, with greater specificity throughout the Unit Agreement and Unit Operating Agreement. <sup>19</sup> Unit production and unit expenses are allocated on a surface acreage basis as set forth in the Unit Agreement at Articles 3 through 5

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<sup>&</sup>lt;sup>14</sup> *Id*.at 4.

<sup>&</sup>lt;sup>15</sup> <u>Id.</u> at 3-4.

<sup>&</sup>lt;sup>16</sup> There are also substantial benefits in the form of reduced surface impacts as a result of the contemplated unit operations. For example, the use of a single, centrally-located well pad to drill, for instance, six eventual horizontal wells causes significantly less surface disruption than a vertical well drilling program designed to recover the same resource volumes. See, e.g., Exhibit 5 at 4-5.

<sup>&</sup>lt;sup>17</sup> Exhibit 4 at 3-4.

 $<sup>\</sup>frac{18}{2}$  Exhibit 4 at 4.

<sup>&</sup>lt;sup>19</sup> <u>See also, e.g., Exhibit 5</u> at 5-12.

(generally), except where otherwise allocated by the Unit Operating Agreement.<sup>20</sup> Payment of unit expenses is addressed generally in Article 3 of the Unit Agreement.<sup>21</sup> No provision for credits and charges related to contributions made by owners in the unit area regarding wells, tanks, pumps and other equipment for unit operations are addressed in the Unit Operating Agreement because none are contemplated.<sup>22</sup> The Unit Plan provides for various carries in the event a participant is unable to meet its financial obligations related to the unit – see, e.g., Article VI of the Unit Operating Agreement.<sup>23</sup> Voting provisions related to the supervision and conduct of unit operations are set forth in Article XVI of the Unit Operating Agreement, with each person having a vote that has a value corresponding to the percentage of unit expenses chargeable against that person's interest.<sup>24</sup> Commencement and termination of operations are addressed in Articles 11 and 12 of the Unit Agreement.

#### V. APPROVALS

As of the filing of this Application, the Unit Plan has been agreed to or approved by more than sixty-five percent (65%) of Working Interest Owners. <sup>25</sup> See Exhibit 5 at 12, and Exhibit 6. This working interest owner approval exceeds the statutory minimum requirements set forth in Ohio Revised Code § 1509.28(B) for the Chief's order, if issued, to become effective.

#### VI. HEARING

Ohio Revised Code § 1509.28 requires the Chief to hold a hearing to consider this Application, when requested by sixty-five percent (65%) of the owners of the land area underlying the proposed unit. Ohio Rev. Code § 1509.28(A). That threshold level is met here. See Note 2 above. Accordingly, Chesapeake respectfully requests that the Division schedule a hearing at an available hearing room located at the Division's Columbus complex when this Application is deemed complete and accurate, to consider the Application filed herein.

#### VII. CONCLUSION

 $\frac{21}{Id}$ . at 8-9.

<sup>&</sup>lt;sup>20</sup> <u>Id</u>. at 6-8.

 $<sup>\</sup>frac{1}{22} \frac{1}{1}$  at 9.

 $<sup>\</sup>frac{1}{10}$  at 9-10.

 $<sup>\</sup>frac{1}{1}$  at 11.

<sup>&</sup>lt;sup>25</sup> The Working Interest Owner Approval Forms for Ascent, RHDK, Gulfport and Antero are still pending as of the date of this Application. Chesapeake anticipates receiving either the Working Interest Approval Forms and/or the working interest from Ascent, RHDK, Gulfport and Antero in this unit prior to the hearing date.

Ohio Revised Code § 1509.28 requires the Chief of the Division to issue an order for the unit operation of a pool – or a part thereof – if it is reasonably necessary to increase substantially the recovery of oil and gas, and the value of the estimated additional recovery from the unit's operations exceeds its additional costs. Chesapeake respectfully submits that the Application meets this standard, and that the terms and conditions of the Unit Plan are just and reasonable and satisfy the requirements of Ohio Revised Code § 1509.28(B). Chesapeake therefore asks the Chief to issue an order authorizing Chesapeake to operate the Surratt Unit according to the Unit Plan attached hereto.

Respectfully submitted,

Robert J. Krummen (0076996)

Chesapeake Exploration, L.L.C.

P.O. Box 18496

Oklahoma City, Oklahoma 73154

Attorney for Applicant,

Chesapeake Exploration, L.L.C.

#### **UNIT AGREEMENT**

# THE SURRATT UNIT FLUSHING, KIRKWOOD & LONDONDERRY TOWNSHIPS BELMONT & GUERNSEY COUNTIES, OHIO

**THIS AGREEMENT**, entered into as of this 16<sup>th</sup> day of May, 2017, by the parties subscribing, ratifying, approving, consenting to, or bound to the original of this instrument, a counterpart thereof, or other instrument agreeing to become a party hereto; and by those parties participating as a result of an order issued by the Division of Oil and Gas Resources Management ("Division") pursuant to Ohio Revised Code Section 1509.28.

#### WITNESSETH:

WHEREAS, in the interest of the public welfare and to promote conservation and increase the ultimate recovery of oil, natural gas, and other substances from the Surratt Unit, in Flushing, Kirkwood & Londonderry Townships, Belmont & Guernsey Counties, Ohio, and to avoid waste and protect the correlative rights of the owners of interests therein, it is deemed necessary and desirable to enter into and approve this Agreement to create and establish a unit comprising the Unit Area under the applicable laws of the State of Ohio to unitize the Oil and Gas Rights in and to the Unitized Formation in order to conduct Unit Operations as herein provided; and,

**WHEREAS**, this Agreement allocates responsibility for the supervision and conduct of Unit Operations, and responsibility for the payment of Unit Expenses, to Working Interest Owners based upon each owner's pro rata interest in the unit acreage;

**NOW THEREFORE**, in consideration of the premises and of the mutual agreements herein contained, it is agreed and approved as follows:

#### **ARTICLE 1: DEFINITIONS**

As used in this Agreement:

**Effective Date** is the time and date this Agreement becomes effective as provided in Article 11.

**Oil and Gas Rights** are the rights to investigate, explore, prospect, drill, develop, market, transport, and operate within the Unit Area for the production of Unitized Substances, or to share in the production so obtained or the proceeds thereof, including without limitation the conducting of exploration, geologic and/or geophysical surveys by seismograph, core test, gravity and/or magnetic methods, the injecting of gas, water, air or other fluids into the Unitized Formation, the installation, operation and maintenance of monitoring facilities, the laying of pipelines, building of roads, tanks, power stations, telephone lines, and/or other structures.

**Person** is any individual, corporation, partnership, association, receiver, trustee, curator, executor, administrator, guardian, fiduciary, or other representative of any kind, any department, agency, or instrumentality of the state, or any governmental subdivision thereof, or any other entity capable of holding an interest in the Unitized Substances or Unitized Formation.

**Royalty Interest** means a right to or interest in any portion of the Unitized Substances or proceeds from the sale thereof other than a Working Interest.

**Royalty Owner** is a Person who owns a Royalty Interest.

**Tract** means the land identified by a tract number in Exhibit A-2 to the Unit Operating Agreement.

**Tract Participation** means the fractional interest shown on Exhibit A-2 to the Unit Operating Agreement for allocating Unitized Substances to a Tract.

**Unit Area** means the lands shown on the plat attached as <u>Exhibit A-1</u> and identified on <u>Exhibit A-2</u> to the Unit Operating Agreement, including also areas to which this Agreement may be extended as herein provided.

**Unit Equipment** means all personal property, lease and well equipment, plants, and other facilities and equipment taken over or otherwise acquired for the unit account for use in Unit Operations.

Exhibit 1

**Unit Expense** means all cost, expense, investment and indebtedness incurred by Working Interest Owners or Unit Operator pursuant to this Agreement and the Unit Operating Agreement for or on account of Unit Operations, but shall not include post-production costs attributable to Royalty Owner interests.

**Unitized Formation** means the subsurface portion of the Unit Area located from fifty feet above the top of the Utica Shale (at an approximate depth of 7,530 feet) to fifty feet below the base of the Point Pleasant formation (at an approximate depth of 7,894 feet).

Unit Operating Agreement means the modified A.A.P.L. Form 610-1989 Model Form Operating Agreement dated May 16, 2017, for the Surratt Unit, which is attached hereto. Such Unit Operating Agreement contains provisions for credits and charges among Working Interest Owners for their respective investments in, and expenses for, Unit Operations, including a provision, if necessary, for carrying any Person unable or electing not to participate in Unit Operations. In addition, the Unit Operating Agreement also contains provisions relating to the supervision and conduct of Unit Operations and the manner in which Working Interest Owners may vote. The Unit Operating Agreement is hereby confirmed and by reference made a part of this Agreement. In the event of a conflict between such agreements, the terms of the Unit Operating Agreement shall govern.

**Unit Operations** are all operations conducted pursuant to this Agreement and the Unit Operating Agreement.

**Unit Operator** is the Person designated by Working Interest Owners under the Unit Operating Agreement to conduct Unit Operations.

**Unit Participation** is the sum of the interests obtained by multiplying the Working Interest of a Working Interest Owner in each Tract by the Tract Participation of such Tract.

**Unitized Substances** are all oil, gas, gaseous substances, sulfur, condensate, distillate, and all associated and constituent liquid or liquefiable hydrocarbons within or produced from the Unitized Formation.

Working Interest means an interest in Unitized Substances in the Unit Area by virtue of a lease, operating agreement, fee title, or otherwise, including a carried interest, the owner of which is obligated to pay, either in cash or out of production or otherwise, a portion of the Unit Expense; however, Oil and Gas Rights that are free of a lease or other instrument creating a Working Interest and whose owner, under an Order by the Chief, either chooses to be treated as a Working Interest Owner or who is awarded a working interest by such Order shall be regarded as a Working Interest to the extent of seven-eighths (7/8) thereof and a Royalty Interest to the extent of the remaining one-eighth (1/8) thereof. Upon reaching a Unitization Order's prescribed payout period on a specific well, the owner of a Working Interest free of a lease or other instrument and created by virtue of the Unitization Order shall receive monthly payments on net production revenue equal to seven-eighths (7/8) of the owner's Unit Participation, while continuing the one-eighth (1/8) Royalty Interest. A Royalty Interest created out of a Working Interest subsequent to the participation of, subscription to, ratification of, approval by, or consent to this Agreement by the owner of such Working Interest shall continue to be subject to such Working Interest burdens and obligations that are stated in this Agreement and the Unit Operating Agreement.

Working Interest Owner is a Person who owns a Working Interest.

#### **ARTICLE 2: CREATION AND EFFECT OF UNIT**

Oil and Gas Rights Unitized. All Royalty Interests and Working Interests in Oil and Gas Rights in and to the lands identified on Exhibits A-1 and A-2 to the Unit Operating Agreement are hereby unitized insofar as, and only insofar as, the respective Oil and Gas Rights pertain to the Unitized Formation, so that Unit Operations may be conducted with respect to the Unitized Formation as if the Unit Area had been included in a single lease executed by all Royalty Owners, as lessors, in favor of all Working Interest Owners, as lessees, and as if the lease contained all of the provisions of this Agreement.

**Personal Property Excepted**. All lease and well equipment, materials, and other facilities heretofore or hereafter placed by any of the Working Interest Owners on the lands covered hereby shall be deemed to be and shall remain personal property belonging to, and may be removed by, Working Interest Owners with the prior consent of Unit Operator. The rights and interests therein, as among Working Interest Owners, are set forth in the Unit Operating Agreement.

**Operations**. If an order is issued granting Unit Operator the authority to conduct Unit Operations, the operations conducted pursuant to the order of the chief shall constitute a fulfillment of all the express or implied obligations of each lease or contract covering lands in the unit area to the extent of that compliance with such obligations cannot be had because of the order of the chief.

Continuation of Leases and Term Interests. Unit Operations conducted upon any part of the Unit Area or production of Unitized Substances from any part of the Unitized Formation, except for the purpose of determining payments to Royalty Owners, shall be considered as operations upon or production from each portion of each Tract, and such production or operations shall continue in effect each lease or term, mineral or Royalty Interest, as to all Tracts and formations covered or affected by this Unit Agreement just as if such Unit Operations had been conducted and a well had been drilled on and was producing from each portion of each Tract. It is agreed that each lease shall remain in full force and effect from the date of execution hereof until the Effective Date, and thereafter in accordance with its terms and this Agreement.

**Titles Unaffected by Unitization**. Nothing herein shall be construed to result in any transfer of title to Oil and Gas Rights by any Person to any other Person or to Unit Operator.

**Pre-existing Conditions in Unit Area**. Working Interest Owners shall not be liable for or assume any obligation with respect to (i) the restoration or remediation of any condition associated with the Unit Area that existed prior to the Effective Date of this Agreement, or (ii) the removal and/or plugging and abandonment of any wellbore, equipment, fixtures, facilities or other property located in, on or under the Unit Area prior to the Effective Date of this Agreement. Working Interest Owners reserve the right to elect, but shall not have the obligation, to use for injection and/or operational purposes any nonproducing or abandoned wells or dry holes, and any other wells completed in the Unitized Formation.

#### **ARTICLE 3: UNIT OPERATIONS**

**Unit Operator**. Unit Operator shall have the exclusive right to conduct Unit Operations, which shall conform to the provisions of this Agreement and the Unit Operating Agreement.

Unit Expenses. Except as otherwise provided in the Unit Operating Agreement, Unit Expenses shall be allocated to each Tract in the proportion that the surface acres of each Tract bears to the surface acres of the Unit Area, and shall be paid by the respective Working Interest Owners. Oil and Gas Rights that are free of a lease or other instrument creating a Working Interest and whose owner, under an Order by the Chief, either chooses to be treated as a Working Interest Owner or who is awarded a working interest by such Order shall be regarded as a Working Interest to the extent of seven-eighths (7/8) thereof and a Royalty Interest to the extent of the remaining one-eighth (1/8) thereof.

#### **ARTICLE 4: TRACT PARTICIPATIONS**

**Tract Participations**. The Tract Participation of each Tract is identified in <u>Exhibit A-2</u> to the Unit Operating Agreement and shall be determined solely upon an acreage basis as the proportion that the Tract surface acreage bears to the total surface acreage of the Unit Area. The Tract Participation of each Tract has been calculated as follows: SURFACE ACRES IN EACH TRACT DIVIDED BY THE TOTAL SURFACE ACRES WITHIN THE UNIT AREA. The Tract Participations as shown in <u>Exhibit A-2</u> to the Unit Operating Agreement are accepted and approved as being fair and equitable.

### ARTICLE 5: ALLOCATION OF UNITIZED SUBSTANCES

Allocation of Unitized Substances. All Unitized Substances produced and saved shall be allocated to the several Tracts in accordance with the respective Tract Participations effective during the period that the Unitized Substances were produced. The amount of Unitized Substances allocated to each Tract, regardless of whether the amount is more or less than the actual production of Unitized Substances from the well or wells, if any, on such Tract, shall be deemed for all purposes to have been produced from such Tract.

**Distribution Within Tracts**. The Unitized Substances allocated to each Tract or portion thereof shall be distributed among, or accounted for to, the Persons entitled to share in the production from such Tract or portion thereof in the same manner, in the same proportions, and upon the same conditions as they would have participated and shared in the production from such Tract, or in the proceeds thereof, had this Agreement not been entered into, and with the same legal effect. If any Oil and Gas Rights in a Tract hereafter become divided and owned in

severalty as to different parts of the Tract, the owners of the divided interests, in the absence of an agreement providing for a different division, shall share in the Unitized Substances allocated to the Tract, or in the proceeds thereof, in proportion to the surface acreage of their respective parts of the Tract. Any royalty or other payment which depends upon per well production or pipeline runs from a well or wells on a Tract shall, after the Effective Date, be determined by dividing the Unitized Substances allocated to the Tract by the number of wells on the Tract capable of producing Unitized Substances on the Effective Date.

#### ARTICLE 6: USE OR LOSS OF UNITIZED SUBSTANCES

Use of Unitized Substances. Working Interest Owners may use or consume Unitized Substances for Unit Operations, including but not limited to, the injection thereof into the Unitized Formation.

**Royalty Payments**. No royalty, overriding royalty, production, or other payments shall be payable on account of Unitized Substances used, lost, or consumed in Unit Operations.

#### **ARTICLE 7: TITLES**

Warranty and Indemnity. Each Person who, by acceptance of produced Unitized Substances or the proceeds from a sale thereof, may claim to own a Working Interest or Royalty Interest in and to any Tract or in the Unitized Substances allocated thereto, shall be deemed to have warranted its title to such interest, and, upon receipt of the Unitized Substances or the proceeds from a sale thereof to the credit of such interest, shall indemnify and hold harmless all other Persons in interest from any loss due to failure, in whole or in part, of its title to any such interest.

**Production Where Title is in Dispute**. If the title or right of any Person claiming the right to receive in kind all or any portion of the Unitized Substances allocated to a Tract is in dispute, Unit Operator at the direction of Working Interest Owners may: Require that the Person to whom such Unitized Substances are delivered or to whom the proceeds from a sale thereof are paid furnish security for the proper accounting therefor to the rightful owner or owners if the title or right of such Person fails in whole or in part; or withhold and market the portion of Unitized Substances with respect to which title or right is in dispute, and hold the proceeds thereof until such time as the title or right thereto is established by a final judgment of a court of competent jurisdiction or otherwise to the satisfaction of Working Interest Owners, whereupon the proceeds so held shall be paid to the Person rightfully entitled thereto.

**Transfer of Title.** Any conveyance of all or any part of any interest owned by any Person hereto with respect to any Tract shall be made expressly subject to this Agreement. No change of title shall be binding upon Unit Operator, or upon any Person hereto other than the Person so transferring, until 7:00 a.m. on the first day of the calendar month next succeeding the date of receipt by Unit Operator of a certified copy of the recorded instrument evidencing such change in ownership.

#### ARTICLE 8: EASEMENTS, GRANTS, OR USE OF SURFACE

**Grant of Easements**. Subject to the terms and conditions of the various leases, Unit Operator shall have the right of ingress and egress along with the right to use as much of the surface of the land within the Unit Area as may be reasonably necessary for Unit Operations and the removal of Unitized Substances from the Unit Area.

**Use of Water**. Subject to the terms and conditions of the various leases, Unit Operator shall have and is hereby granted free use of water from the Unit Area for Unit Operations, except water from any well, lake, pond, or irrigation ditch of a Royalty Owner. Unit Operator may convert dry or abandoned wells in the Unit Area for use as water supply or disposal wells.

**Surface Damages**. Subject to the terms and conditions of the various leases, Working Interest Owners shall reimburse the owner for the market value prevailing in the area of growing crops, livestock, timber, fences, improvements, and structures on the Unit Area that are destroyed or damaged as a result of Unit Operations.

**Unitized Property**. Notwithstanding anything in this Article 8 to the contrary, and except where otherwise authorized by the Division, there shall be no Unit Operations conducted on the surface of any property located within the Surratt Unit, and there shall be no right of ingress and egress over and no right to use the surface waters of any surface lands located within the Surratt Unit, owned by an interest owner identified in <u>Exhibit A-3</u> to the Unit Operating

#### **ARTICLE 9: CHANGE OF TITLE**

Covenant Running with the Land. This Agreement shall extend to, be binding upon, and inure to the benefit of, the respective heirs, devisees, legal representatives, successors, and assigns of the parties hereto, and shall constitute a covenant running with the lands, leases, and interests conveyed hereby.

Waiver of Rights of Partition. Each party to this Agreement understands and acknowledges, and is hereby deemed to covenant and agree, that during the term of this Agreement it will not resort to any action to, and shall not, partition Oil and Gas Rights, the Unit Area, the Unitized Formation, the Unitized Substances or the Unit Equipment, and to that extent waives the benefits of all laws authorizing such partition.

#### ARTICLE 10: RELATIONSHIPS OF PERSONS

**No Partnership**. All duties, obligations, and liabilities arising hereunder shall be several and not joint or collective. This Agreement is not intended to and shall not be construed to create an association or trust, or to impose a partnership or fiduciary duty, obligation, or liability. Each Person affected hereby shall be individually responsible for its own obligations.

**No Joint or Cooperative Refining, Sale or Marketing**. This Agreement is not intended and shall not be construed to provide, directly or indirectly, for any joint or cooperative refining, sale or marketing of Unitized Substances.

#### **ARTICLE 11: EFFECTIVE DATE**

Effective Date. This Agreement shall become effective, and operations may commence hereunder, as of the date of an effective order approving this unit by the Division in accordance with the provisions of Ohio Revised Code Section 1509.28; provided, however, that Working Interest Owners may terminate this Agreement in the event of a material modification by the Division of all or any part of this Agreement or the Unit Operating Agreement in such order by filing a notice of termination with the Division within thirty (30) days of such order becoming final and no longer subject to further appeal. In the event a dispute arises or exists with respect to this Agreement, the Unit Operating Agreement, or the order approving this unit issued by the Division, Unit Operator may, in its sole discretion, hold the revenues from the sale of Unitized Substances until such time as such dispute is resolved or, in the Unit Operator's opinion, it is appropriate to distribute such revenues.

#### **ARTICLE 12: TERM**

**Term**. This Agreement, unless sooner terminated in the manner hereinafter provided, shall remain in effect for five (5) years from the Effective Date and as long thereafter as Unitized Substances are produced, or are capable of being produced, in paying quantities from the Unit Area without a cessation of more than ninety (90) consecutive days, or so long as other Unit Operations are conducted without a cessation of more than ninety (90) consecutive days, unless sooner terminated by Working Interest Owners owning a combined Unit Participation of fifty-one percent (51%) or more whenever such Working Interest Owners determine that Unit Operations are no longer warranted. The date of any termination hereunder shall be known as the "Termination Date."

**Effect of Termination**. Upon termination of this Agreement, the further development and operation of the Unitized Formation as a unit shall cease. Each oil and gas lease and other agreement covering lands within the Unit Area shall remain in force for one hundred eighty (180) days after the date on which this Agreement terminates, and for such further period as is provided by the lease or other agreement. The relationships among owners of Oil and Gas Rights shall thereafter be governed by the terms and provisions of the leases and other instruments, not including this Agreement, affecting the separate Tracts.

**Certificate of Termination**. Upon termination of this Agreement, Unit Operator shall file with the Division and for record in the county or counties in which the land affected is located a certificate stating that this Agreement has terminated and the Termination Date.

**Salvaging Equipment Upon Termination**. If not otherwise granted by the leases or other instruments affecting the separate Tracts, Working Interest Owners shall have a period of six (6) months after the Termination Date within which to salvage and remove Unit Equipment.

#### **ARTICLE 13: APPROVAL**

**Original, Counterpart, or Other Instrument**. An owner of Oil and Gas Rights or its agent may approve this Agreement by signing the original, a counterpart thereof, or other instrument approving this Agreement. The signing of any such instrument shall have the same effect as if all Persons had signed the same instrument.

**Commitment of Interests to Unit.** The approval of this Agreement by a Person or their agent shall bind that Person and commit all interests owned or controlled by that Person as of the date of such approval, and additional interests thereafter acquired.

**Joinder in Dual Capacity**. Execution as herein provided by any Person, as either Working Interest Owner or a Royalty Owner, shall commit all interests owned or controlled by such Person as of the date of such execution and any additional interest thereafter acquired.

#### **ARTICLE 14: MISCELLANEOUS**

**Determinations by Working Interest Owners**. All decisions, determinations, or approvals by Working Interest Owners hereunder shall be made pursuant to the voting procedure of the Unit Operating Agreement unless otherwise provided herein.

**Severability of Provisions**. The provisions of this Agreement are severable and if any section, sentence, clause or part thereof is held to be invalid for any reason, such invalidity shall not be construed to affect the validity of the remaining provisions of this Agreement.

Laws and Regulations. This Agreement shall be governed by and subject to the laws of the State of Ohio, to the valid rules, regulations, orders and permits of the Division, and to all other applicable federal, state, and municipal laws, rules, regulations, orders, and ordinances. Any change of the Unit Area or any amendment to this Agreement or the Unit Operating Agreement shall be in accordance with Ohio law.

By:

Submitted by:

CHESAPEAKE EXPLORATION, L.L.C.

Dan Kucab

Sr. Staff Landman – Appalachia Chesapeake Energy Corporation 6100 N. Western Avenue

P. O. Box 18496

Oklahoma City, Oklahoma 73154-0496

Tel. (405) 935-2289

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This instrument prepared by:

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### A.A.P.L. FORM 610 - 1989

## MODEL FORM OPERATING AGREEMENT

# DATED

OPERATING AGREEMENT

		<b>May 16</b>	, <u>2017</u>				
OPERATOR <u>(</u>	Chesapeake	Exploration, L.L.C.					
CONTRACT AR	EA <b>The l</b> a	ands shown on the pla	nt attached as	Exhibit A-1 a	and described on		
Exhibit A-2 and generally known as the Surratt Unit.							
COUNTY OR PA	ARISH OF	Belmont & Guernse	y	, STATE OF	Ohio		
	_						

UNIT NAME: Surratt

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A.A.P.L. NO. 610 – 1989

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#### 1 2 3

#### OPERATING AGREEMENT

company

THIS AGREEMENT, entered into by and between <u>Chesapeake Exploration</u>, L.L.C., an Oklahoma limited liability

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hereinafter designated and referred to as "Operator," and the signatory party or parties other than Operator, sometimes hereinafter referred to individually as "Non-Operator," and collectively as "Non-Operators." WITNESSETH:

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WHEREAS, the parties to this agreement are owners of Oil and Gas Leases and/or Oil and Gas Interests in the land identified in Exhibit "A," and the parties hereto have reached an agreement to explore and develop these Leases and/or Oil and Gas Interests for the production of Oil and Gas to the extent and as hereinafter provided,

ARTICLE I.

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NOW, THEREFORE, it is agreed as follows:

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### DEFINITIONS

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As used in this agreement, the following words and terms shall have the meanings here ascribed to them: A. The term "AFE" shall mean an Authority for Expenditure prepared by a party to this agreement for the purpose of estimating the costs to be incurred in conducting an operation hereunder.

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B. The term "Completion" or "Complete" shall mean a single operation intended to complete a well as a producer of Oil and Gas in one or more Zones, including, but not limited to, the setting of production casing, perforating, well stimulation and production testing conducted in such operation.

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C. The term "Contract Area" shall mean all of the lands. Oil and Gas Leases and/or Oil and Gas Interests intended to be Developed and operated for Oil and Gas purposes under this agreement. Such lands, Oil and Gas Leases and Oil and Gas

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Interests are described in Exhibit "A,", Exhibit "A-1", Exhibit "A-2", and Exhibit "A-3". See also Article XVI.K.

D. The term "Deepen"/ shall mean a single operation whereby a well is drilled to an objective Zone below the deepest Zone in which the well was previously drilled, or below the Deepest Zone proposed in the associated AFE, whichever is the

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E. The terms "Drilling Party" and "Consenting Party" shall mean a party who agrees to join in and pay its share of the cost of any operation conducted under the provisions of this agreement.

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F. The term "Drilling Unit" shall mean the area fixed for the drilling of one well / by order or rule of any state or federal body having authority. If a Drilling Unit is not fixed by any such rule or order, a Drilling Unit shall be the drilling unit as Operator in its sole discretion so long as consistent with any restrictions in the Oil and Gas Leases or by applicable law, established by the / pattern of drilling in the Contract Area unless fixed by express agreement of the Drilling Parties. See also Article XVI.K.

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G. The term "Drillsite" shall mean the Oil and Gas Lease or Oil and Gas Interest on which a proposed well is to be located.

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H. The term "Initial Well" shall mean the well required to be drilled by the parties hereto as provided in Article VI.A.

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I. The term "Non-Consent Well" shall mean a well in which less than all parties have conducted an operation as provided in Article VI.B.2.

35 36 J. The terms "Non-Drilling Party" and "Non-Consenting Party" shall mean a party who elects not to participate in a

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K. The term "Oil and Gas" shall mean oil, gas, casinghead gas, gas condensate, and/or all other liquid or gaseous hydrocarbons and other marketable substances produced therewith, unless an intent to limit the inclusiveness of this term is specifically stated.

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L. The term "Oil and Gas Interests" or "Interests" shall mean unleased fee and mineral interests in Oil and Gas in tracts of land lying within the Contract Area which are owned by parties to this agreement.

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M. The terms "Oil and Gas Lease," "Lease" and "Leasehold" shall mean the oil and gas leases or interests therein covering tracts of land lying within the Contract Area which are owned by the parties to this agreement.

N. The term "Plug Back" shall mean / a single operation whereby a deeper Zone is abandoned in order to attempt a

44 45 Completion in a shallower Zone.

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O. The term "Recompletion" or "Recomplete" shall mean an operation whereby a Completion in one Zone is abandoned in order to attempt a Completion in a different Zone within the existing wellbore. P. The term "Rework" shall mean an operation conducted in the wellbore of a well after it is Completed to secure,

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restore, or improve production in a Zone which is currently open to production in the wellbore. Such operations include, but are not limited to, well stimulation operations but exclude any routine repair or maintenance work or drilling, Sidetracking, Deepening, Completing, Recompleting, or Plugging Back of a well.

, in the case of Vertical Wells,

Q. The term "Sidetrack" shall mean / the directional control and intentional deviation of a well from vertical so as to

53 54 change the bottom hole location and, in the case of Horizontal Wells (defined hereinafter), an operation by which a lateral wellbore is drilled off of the horizontal wellbore, in each case unless done to straighten the hole or drill around junk in the hole of to overcome other mechanical difficulties.

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R. The term "Zone" shall mean a stratum of earth containing or thought to contain a common accumulation of Oil and Gas separately producible from any other common accumulation of Oil and Gas.

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S. The term "Lateral" shall mean that portion of a wellbore that deviates from approximate vertical orientation to approximate horizontal orientation and all wellbore beyond such deviation to Total Measured Depth. T. The term "Vertical Well" shall mean any well other than a "Horizontal Well".

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U. The term "Horizontal Well" shall mean a well containing a single Lateral in which the wellbore deviates at an angle of at least eighty degrees (80°) from true vertical and with a horizontal projection exceeding one hundred feet (100') measured from

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the initial point of penetration into a specific geological interval. V. The term "Multi-lateral Well" shall mean a Horizontal Well which contains more than one Lateral.

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W. The term "Total Measured Depth," when used in connection with a Multi-lateral or Horizontal Well, shall mean the distance from the surface of the ground to the terminus of the wellbore, as measured along the wellbore. Each Lateral taken together with the common vertical wellbore shall be considered a single wellbore and shall have a corresponding Total Measured Depth. When the proposed operation(s) is the drilling of, or operation on, a Multi-lateral or Horizontal Well, the term "depth" or "total depth" wherever used in the Agreement shall be deemed to read "Total Measured Depth" insofar as it applies to such well.

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X. The term "Deepen" when used in conjunction with a Multi-lateral or Horizontal Well shall mean an operation whereby a lateral is drilled to a distance greater than the distance set out in the well proposal approved by the participating parties. This shall include reentry of a Vertical Well to convert the well to a Horizontal Well. See also Article XVI.E.2.

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Y. For the purposes of this Agreement, as to a Multi-lateral or Horizontal Well, the term "Plug Back" shall mean an

#### A.A.P.L. FORM 610 - MODEL FORM OPERATING AGREEMENT – 1989

operation to test or complete the well at a stratigraphically shallower geological horizon in which the operation has been or is being completed and which is not within an existing Lateral.

- Z. The term "affiliate" shall mean any Person that, directly or indirectly, through one or more intermediaries, Controls or is Controlled by, or is under common Control with, another Person.
- The term "Control" and its derivatives with respect to any Person shall means the possession, directly or indirectly, of the power, directly or indirectly, to direct or cause the direction of the management or policies of the controlled Person, whether through the ownership of equity interests in or voting rights attributable to the equity interests in such Person, by contract or agency, by the general partner of a Person that is a partnership, or otherwise.
- BB. The term "Person" shall mean any individual, corporation, company, partnership, limited partnership, limited liability company, trust, estate, governmental authority or any other entity.

Unless the context otherwise clearly indicates, words used in the singular include the plural, the word "person" includes

natural and artificial persons, the plural includes the singular, and any gender includes the masculine, feminine, and neuter. ARTICLE II. **EXHIBITS** The following exhibits, as indicated below and attached hereto, are incorporated in and made a part hereof: A. Exhibit "A," – shall also mean all sub-exhibits as appropriate, including Exhibits "A-1", "A-2", and "A-3", and shall include the following information: (1) Description of lands subject to this agreement, (2) Restrictions, if any, as to depths, formations, or substances, (3) Parties to agreement with addresses and telephone numbers for notice purposes, (4) Percentages or fractional interests of parties to this agreement, (5) Oil and Gas Leases and/or Oil and Gas Interests subject to this agreement. (also included on Exhibit "A-2") (6) Burdens on production.(7) Addresses of parties for notice purposes (also included on Exhibit "A-3") A-1. Plat of Contract Area. \_ A-2. List of Contract Area Leases. B. Exhibit "B," Form of Lease. \_\_ C. Exhibit "C," Accounting Procedure. D. Exhibit "D," Insurance. \_ E. Exhibit "E," Gas Balancing Agreement. F. Exhibit "F," Non-Discrimination and Certification of Non-Segregated Facilities.

F. Other: Model Form Recording Supplement to Operating Agreement and Financing Agreement.

G. Exhibit "G," Tax Partnership.

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If any provision of any exhibit, except Exhibits "E<sub>1</sub>" "F;" and "G;" is inconsistent with any provision contained in the body of this agreement, the provisions in the body of this agreement shall prevail.

INTERESTS OF PARTIES

ARTICLE III.

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A. Oil and Gas Interests:
 or hereafter acquires
 If any party owns / an Oil and Gas Interest in the Contract Area, that Interest shall be treated for all purposes of this agreement and during the term hereof as if it were covered by the form of Oil and Gas Lease attached hereto as Exhibit "B." and the owner thereof shall be deemed to own both royalty interest in such lease and the interest of the lessee thereunder.

#### **B.** Interests of Parties in Costs and Production:

Unless changed by other provisions, all costs and liabilities incurred in operations under this agreement shall be borne and paid, and all equipment and materials acquired in operations on the Contract Area shall be owned, by the parties as their interests are set forth in Exhibit "A." In the same manner, the parties shall also own all production of Oil and Gas from the Contract Area subject, however, to the payment of royalties and other burdens on production as subject to burdens of record described hereafter.

Regardless of which party has contributed any Oil and Gas Lease or Oil and Gas Interest on which royalty or other burdens may be payable and except as otherwise expressly provided in this agreement, each party shall pay or deliver, or cause to be paid or delivered, all burdens on its share of the production from the Contract Area as subject to burdens of record up to, but -not in excess of and shall indemnify, defend and hold the other parties free from any liability therefor. Except as otherwise expressly provided in this agreement, if any party has contributed hereto any Lease or Interest which is burdened with any royalty, overriding royalty, production payment or other burden on production in excess of the amounts stipulated above, such party so burdened shall assume and alone bear all such excess obligations and shall indemnify, defend and hold the other parties hereto harmless from any and all claims attributable to such excess burden. However, so long as the Drilling Unit for the productive Zone(s) is identical with the Contract Area, each party shall pay or deliver, or cause to be paid or delivered, all burdens on production from the Contract Area due under the terms of the Oil and Gas Lease(s) which such party has contributed to this agreement, and shall indemnify, defend and hold the other parties free from any liability therefor.

No party shall ever be responsible, on a price basis higher than the price received by such party, to any other party's lessor or royalty owner, and if such other party's lessor or royalty owner should demand and receive settlement on a higher price basis, the party contributing the affected Lease shall bear the additional royalty burden attributable to such higher price.

Nothing contained in this Article III.B. shall be deemed an assignment or cross-assignment of interests covered hereby, and in the event two or more parties contribute to this agreement jointly owned Leases, the parties' undivided interests in said Leaseholds shall be deemed separate leasehold interests for the purposes of this agreement.

#### C. Subsequently Created Interests:

If any party has contributed hereto a Lease or Interest that is burdened with an assignment of production given as security for the payment of money, or if, after the date of this agreement, any party creates an overriding royalty, production payment, net profits interest, assignment of production or other burden payable out of production attributable to its working interest hereunder, such burden shall be deemed a "Subsequently Created Interest." Further, if any party has contributed hereto a Lease or Interest burdened with an overriding royalty, production payment, net profits interests, or other burden payable out of production created prior to the date of this agreement, and such burden is not recorded or is not referenced by another recorded instrument sufficient for notice purposes in the county records of the applicable county or is not shown on Exhibit "A," such burden also shall be deemed a Subsequently Created Interest to the extent such burden causes the burdens on such party's Lease or Interest to exceed the amount stipulated in Article III.B. above.

The party whose interest is burdened with the Subsequently Created Interest (the "Burdened Party") shall assume and alone bear, pay and discharge the Subsequently Created Interest and shall indemnify, defend and hold harmless the other parties from and against any liability therefor. Further, if the Burdened Party fails to pay, when due, its share of expenses chargeable hereunder, all provisions of Article VII.B. shall be enforceable against the Subsequently Created Interest in the same manner as they are enforceable against the working interest of the Burdened Party. If the Burdened Party is required under this agreement to assign or relinquish to any other party, or parties, all or a portion of its working interest and/or the production attributable thereto, said other party, or parties, shall receive said assignment and/or production free and clear of said Subsequently Created Interest, and the Burdened Party shall indemnify, defend and hold harmless said other party, or parties, from any and all claims and demands for payment asserted by owners of the Subsequently Created Interest.

#### TITLES

#### A. Title Examination: 54

wellbore path and thereafter
Title examination shall be made on the / Drillsite of any proposed well prior to commencement of drilling operations and, / if a majority in interest of the Drilling Parties so requests or Operator so elects, title examination shall be made on the entire Drilling Unit, or maximum anticipated Drilling Unit, of the well. The opinion will include the ownership of the working interest, minerals, royalty, overriding royalty and production payments under the applicable Leases. Each party contributing Leases and/or Oil and Gas Interests to be included in the Drillsite or Drilling Unit, if appropriate, shall furnish to Operator all abstracts (including federal lease status reports), title opinions, title papers and curative material in its possession free of charge. All such information not in the possession of or made available to Operator by the parties, but necessary for the examination of the title, shall be obtained by Operator. Operator shall cause title to be examined by attorneys on its staff or by outside attorneys. Copies of all title opinions shall be furnished to each Drilling Party. Costs incurred by Operator in and field landmen and title specialists

procuring abstracts, fees paid outside attorneys / for title examination (including preliminary, supplemental, shut-in royalty opinions and division order title opinions) and other direct charges as provided in Exhibit "C" shall be borne by the Drilling Parties in the proportion that the interest of each Drilling Party bears to the total interest of all Drilling Parties as such interests appear in Exhibit "A." Operator shall make no charge for services rendered by its staff attorneys or other personnel in the performance of the above functions, that exceeds prevailing rates in the area. Operator may use staff field landmen and title specialists for abstracting and staff attorneys for title examination if such personnel are employed specifically for this purpose and are billed at rates no higher than third party rates billed for similar services in the state where the services are rendered. Operator may also charge a reasonable digital abstracting fee per tract if Operator has imaged and indexed the county records in which the Contract Area is located.

Each party shall be responsible for securing curative matter and pooling amendments or agreements required in connection with Leases or Oil and Gas Interests contributed by such party. Operator shall be responsible for the preparation

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and recording of pooling designations or declarations and communitization agreements as well as the conduct of hearings before governmental agencies for the securing of spacing or pooling orders or any other orders necessary or appropriate to the conduct of operations hereunder. This shall not prevent any party from appearing on its own behalf at such hearings. Costs incurred by Operator, including fees paid to outside attorneys, which are associated with hearings before governmental agencies, and which costs are necessary and proper for the activities contemplated under this agreement, shall be direct charges to the joint account and shall not be covered by the administrative overhead charges as provided in Exhibit "C."

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 Operator shall make no charge for services rendered by its staff attorneys or other personnel in the performance of the above functions, except as provided herein.

No well shall be drilled on the Contract Area until after (1) the title to the Drilling Unit, if appropriate, has been examined as above provided, and (2) the title has been approved by the examining attorney or title has been accepted by all of the Drilling Parties in such well. the Operator.

#### B. Loss or Failure of Title:

- 1. Failure of Title: Should any Oil and Gas Interest or Oil and Gas Lease be lost through failure of title, which results in a reduction of interest from that shown on Exhibit "A," the party credited with contributing the affected Lease or Interest (including, if applicable, a successor in interest to such party) shall have ninety (90) days from final determination of title failure to acquire a new lease or other instrument curing the entirety of the title failure, which acquisition will not be subject to Article VIII.B., and failing to do so, this agreement, nevertheless, shall continue in force as to all remaining Oil and Gas Leases and Interests; and,
- (a) The party credited with contributing the Oil and Gas Lease or Interest affected by the title failure (including, if applicable, a successor in interest to such party) shall bear alone the entire loss and it shall not be entitled to recover from Operator or the other parties any development or operating costs which it may have previously paid or incurred, but there shall be no additional liability on its part to the other parties hereto by reason of such title failure;
- (b) There shall be no retroactive adjustment of expenses incurred or revenues received from the operation of the Lease or Interest which has failed, but the interests of the parties contained on Exhibit "A" shall be revised on an acreage basis, as of the time it is determined finally that title failure has occurred, so that the interest of the party whose Lease or Interest is affected by the title failure will thereafter be reduced in the Contract Area by the amount of the Lease or Interest failed;
- (c) If the proportionate interest of the other parties hereto in any producing well previously drilled on the Contract Area is increased by reason of the title failure, the party who bore the costs incurred in connection with such well attributable to the Lease or Interest which has failed shall receive the proceeds attributable to the increase in such interest (less costs and burdens attributable thereto) until it has been reimbursed for unrecovered costs paid by it in connection with such well attributable to such failed Lease or Interest;
- (d) Should any person not a party to this agreement, who is determined to be the owner of any Lease or Interest which has failed, pay in any manner any part of the cost of operation, development, or equipment, such amount shall be paid to the party or parties who bore the costs which are so refunded;
- (e) Any liability to account to a person not a party to this agreement for prior production of Oil and Gas which arises by reason of title failure shall be borne severally by each party (including a predecessor to a current party) who received production for which such accounting is required based on the amount of such production received, and each such party shall severally indemnify, defend and hold harmless all other parties hereto for any such liability to account;
- (f) No charge shall be made to the joint account for legal expenses, fees or salaries in connection with the defense of the Lease or Interest claimed to have failed, but if the party contributing such Lease or Interest hereto elects to defend its title it shall bear all expenses in connection therewith; and
- (g) If any party is given credit on Exhibit "A" to a Lease or Interest which is limited solely to ownership of an interest in the wellbore of any well or wells and the production therefrom, such party's absence of interest in the remainder of the Contract Area shall be considered a Failure of Title as to such remaining Contract Area unless that absence of interest is reflected on Exhibit "A."
- 2. Loss by Non-Payment or Erroneous Payment of Amount Due: If, through mistake or oversight, any rental, shut-in well payment, minimum royalty or royalty payment, or other payment necessary to maintain all or a portion of an Oil and Gas Lease or interest is not paid or is erroneously paid, and as a result a Lease or Interest terminates, there shall be no monetary liability against the party who failed to make such payment. Unless the party who failed to make the required payment secures a new Lease or Interest covering the same interest within ninety (90) days from the discovery of the failure to make proper payment, which acquisition will not be subject to Article VIII.B., the interests of the parties reflected on Exhibit "A" shall be revised on an acreage basis, effective as of the date of termination of the Lease or Interest involved, and the party who failed to make proper payment will no longer be credited with an interest in the Contract Area on account of ownership of the Lease or Interest which has terminated. If the party who failed to make the required payment shall not have been fully reimbursed, at the time of the loss, from the proceeds of the sale of Oil and Gas attributable to the lost Lease or Interest, calculated on an acreage basis, for the development and operating costs previously paid on account of such Lease or Interest, it shall be reimbursed for unrecovered actual costs previously paid by it (but not for its share of the cost of any dry hole previously drilled or wells previously abandoned) from so much of the following as is necessary to effect reimbursement:
- (a) Proceeds of Oil and Gas produced prior to termination of the Lease or Interest, less operating expenses and lease burdens chargeable hereunder to the person who failed to make payment, previously accrued to the credit of the lost Lease or Interest, on an acreage basis, up to the amount of unrecovered costs;
- (b) Proceeds of Oil and Gas, less operating expenses and lease burdens chargeable hereunder to the person who failed to make payment, up to the amount of unrecovered costs attributable to that portion of Oil and Gas thereafter produced and marketed (excluding production from any wells thereafter drilled) which, in the absence of such Lease or Interest termination, would be attributable to the lost Lease or Interest on an acreage basis and which as a result of such Lease or Interest termination is credited to other parties, the proceeds of said portion of the Oil and Gas to be contributed by the other parties in proportion to their respective interests reflected on Exhibit "A": and.
- (c) Any monies, up to the amount of unrecovered costs, that may be paid by any party who is, or becomes, the owner of the Lease or Interest lost, for the privilege of participating in the Contract Area or becoming a party to this agreement.
- 3. Other Losses: All losses of Leases or Interests committed to this agreement, other than those set forth in Articles IV.B.1. and IV.B.2. above, shall be joint losses and shall be borne by all parties in proportion to their interests shown on Exhibit "A." This shall include but not be limited to the loss of any Lease or Interest through failure to develop or because express or implied covenants have not been performed (other than performance which requires only the payment of money), and the loss of any Lease by expiration at the end of its primary term if it is not renewed or extended. There shall be no readjustment of interests in the remaining portion of the Contract Area on account of any joint loss.
- 4. <u>Curing Title</u>: In the event of a Failure of Title under Article IV.B.1. or a loss of title under Article IV.B.2. above, any Lease or Interest acquired by any party hereto (other than the party whose interest has failed or was lost) during the ninety (90) day period provided by Article IV.B.1. and Article IV.B.2. above covering all or a portion of the interest that has failed or was lost shall be offered at cost to the party whose interest has failed or was lost, and the provisions of Article VIII.B. shall not apply to such acquisition.

ARTICLE V. OPERATOR

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A. Designation and Responsibilities of Operator:
Chesapeake Exploration L.L.C., by and though its agent Chesapeake Operating, Inc.,
\_\_\_ shall be the Operator of the Contract Area, and shall conduct and direct and have full control of all operations on the Contract Area as permitted and required by, and within the limits of this agreement. In its performance of services hereunder for the Non-Operators, Operator shall be an independent contractor not subject to the control or direction of the Non-Operators except as to the type of operation to be undertaken in accordance with the election procedures contained in this agreement. Operator shall not be deemed, or hold itself out as, the agent of the Non-Operators with authority to bind them to any obligation or liability assumed or incurred by Operator as to any third party. Operator shall conduct its activities under this agreement as a reasonable prudent operator, in a good and workmanlike manner, with due diligence and dispatch, in accordance with good oilfield practice, and in compliance with applicable law and regulation, but in no event shall it have any liability as Operator to the other parties / for losses sustained or liabilities incurred except such as may result from gross negligence or willful misconduct.

#### B. Resignation or Removal of Operator and Selection of Successor:

1. Resignation or Removal of Operator: Operator may resign at any time by giving written notice thereof to Non-Operators. If Operator terminates its legal existence, no longer owns an interest hereunder in the Contract Area, or is no longer capable of serving as Operator, Operator shall be deemed to have resigned without any action by Non-Operators, except the selection of a successor. Operator may be removed only for good cause by the affirmative vote of Non-Operators owning a majority interest based on ownership as shown on Exhibit "A" remaining after excluding the voting interest of Operator; such vote shall not be deemed effective until a written notice has been delivered to the Operator by a Non-Operator detailing the alleged default and Operator has failed to cure the default within thirty (30) days from its receipt of the notice or, if the default concerns an operation then being conducted, within forty-eight (48) hours of its receipt of the notice. For purposes hereof, "good cause" shall mean not only gross negligence or willful misconduct but also the material breach of or inability to meet the standards of operation contained in Article V.A. or material failure or inability to perform its obligations under this agreement.

Subject to Article VII.D.1., such resignation or removal shall not become effective until 7:00 o'clock A.M. on the first day of the calendar month following the expiration of ninety (90) days after the giving of notice of resignation by Operator or action by the Non-Operators to remove Operator, unless a successor Operator has been selected and assumes the duties of Operator at an earlier date. Operator, after effective date of resignation or removal, shall be bound by the terms hereof affiliat Non-Operator. A change of a corporate name or structure of Operator or transfer of Operator's interest to any subsidiary, parent or successor corporation shall not be the basis for removal of Operator.

2. Selection of Successor Operator: Upon the resignation or removal of Operator under any provision of this agreement, a successor Operator shall be selected by the parties. The successor Operator shall be selected from the parties owning an interest in the Contract Area at the time such successor Operator is selected. The successor Operator shall be selected by the affirmative vote of two (2) or more parties owning a majority interest based on ownership as shown on Exhibit "A"; provided, however, if an Operator which has been removed or is deemed to have resigned / fails to vote or votes only to succeed itself, / the successor Operator shall be selected by the affirmative vote of the party or parties owning a majority

interest based on ownership as shown on Exhibit "A" remaining after excluding the voting interest of the Operator that was and its affiliates and, provided further, that the requirement for two (2) or more parties shall not apply in the event that two (2) or fewer parties are entitled to vote.

removed or resigned /. The former Operator shall promptly deliver to the successor Operator all records and data relating to the operations conducted by the former Operator to the extent such records and data are not already in the possession of the successor operator. Any cost of obtaining or copying the former Operator's records and data shall be charged to the joint

3. Effect of Bankruptcy: If Operator becomes insolvent, bankrupt or is placed in receivership, it shall be deemed to have resigned without any action by Non-Operators, except the selection of a successor. If a petition for relief under the federal terms of the Bankruptcy Code or actions of the federal bankruptcy court, then, to the extent allowed by law, bankruptcy laws is filed by or against Operator, and the removal of Operator is prevented by the / federal bankruptcy court, all Non-Operators and Operator shall comprise an interim operating committee to serve until Operator has elected to reject or assume this agreement pursuant to the Bankruptcy Code, and an election to reject this agreement by Operator as a debtor in possession, or by a trustee in bankruptcy, shall be deemed a resignation as Operator without any action by Non-Operators, except the selection of a successor. During the period of time the operating committee controls operations, all actions shall require the approval of two (2) or more parties owning a majority interest based on ownership as shown on Exhibit "A." In the event there are only two (2) parties to this agreement, during the period of time the operating committee controls operations, a third party acceptable to Operator, Non-Operator and the federal bankruptcy court shall be selected as a member of the operating committee, and all actions shall require the approval of two (2) members of the operating committee without regard for their interest in the Contract Area based on Exhibit "A."

#### C. Employees and Contractors:

The number of employees or contractors used by Operator in conducting operations hereunder, their selection, and the hours of labor and the compensation for services performed shall be determined Operator, and all such employees or contractors shall be the employees or contractors of Operator.

#### D. Rights and Duties of Operator:

- and Duties of Operator:

  operations conducted in

  Competitive Rates and Use of Affiliates: All / wells drilled on the Contract Area shall be drilled / on a competitive state where the services were rendered asis at the usual rates prevailing in the /-area. If it so desires, Operator may employ its own tools and equipment in performing such operations state where the services were rendered g of wells /, but its charges therefor shall not exceed the prevailing rates in the / area and the rate of such charges shall be agreed upon by the parties in writing before drilling operations are commenced, and such work shall be performed by Operator under the same terms and conditions as are customary and usual in the area in contracts of independent contractors who are doing work of a similar nature. All work performed or materials supplied by affiliates or related parties of Operator shall be performed or supplied at competitive rates, pursuant to written agreement, and in accordance with customs and standards prevailing in the industry.
- 2. <u>Discharge of Joint Account Obligations:</u> Except as herein otherwise specifically provided, Operator shall promptly pay and discharge expenses incurred in the development and operation of the Contract Area pursuant to this agreement and shall charge each of the parties hereto with their respective proportionate shares upon the expense basis provided in Exhibit "C." Operator shall keep an accurate record of the joint account hereunder, showing expenses incurred and charges and credits made and received.
- 3. Protection from Liens: Operator shall pay, or cause to be paid, as and when they become due and payable, all accounts of contractors and suppliers and wages and salaries for services rendered or performed, and for materials supplied on, to or in respect of the Contract Area or any operations for the joint account thereof, and shall keep the Contract Area free from

liens and encumbrances resulting therefrom except for those resulting from a bona fide dispute as to services rendered or materials supplied.

4. <u>Custody of Funds:</u> Operator shall hold for the account of the Non-Operators any funds of the Non-Operators advanced or paid to the Operator, either for the conduct of operations hereunder or as a result of the sale of production from the Contract Area, and such funds shall remain the funds of the Non-Operators on whose account they are advanced or paid until used for their intended purpose or otherwise delivered to the Non-Operators or applied toward the payment of debts as provided in Article VII.B. Nothing in this paragraph shall be construed to establish a fiduciary relationship between Operator and Non-Operators for any purpose other than to account for Non-Operator funds as herein specifically provided. Nothing in this paragraph shall require the maintenance by Operator of separate accounts for the funds of Non-Operators unless the parties otherwise specifically agree.

5. Access to Contract Area and Records: Operator shall, except as otherwise provided herein, permit each / Non-Operator or its duly authorized representative, at the / Non-Operator's sole risk and cost, full and free access at all reasonable times to all operations of every kind and character being conducted for the joint account on the Contract Area and to the records of operations conducted thereon or production therefrom, including Operator's books and records relating thereto. Such access rights shall not be exercised in a manner interfering with Operator's conduct of an operation hereunder and shall not obligate Operator to furnish any geologic or geophysical data of an interpretive nature unless the cost of preparation of such interpretive data was charged to the joint account. Operator will furnish to each / Non-Operator upon request copies of any and all reports and information obtained by Operator in connection with production and related items, including, without limitation, meter and chart reports, production purchaser statements, run tickets and monthly gauge reports, but excluding purchase contracts and pricing information to the extent not applicable to the production of the Non-Operator seeking the information. Any audit of Operator's records relating to amounts expended and the appropriateness of such expenditures shall be conducted in accordance with the audit protocol specified in Exhibit "C."

6. Filing and Furnishing Governmental Reports: Operator will file, and upon written request promptly furnish copies to Consenting Party
each requesting / Non-Operator not in default of its payment obligations, all operational notices, reports or applications required to be filed by local, State, Federal or Indian agencies or authorities having jurisdiction over operations hereunder.
Each Non-Operator shall provide to Operator on a timely basis all information necessary to Operator to make such filings.

Each Non-Operator shall provide to Operator on a timely basis all information necessary to Operator to make such filings.

Sidetracked, Deepened, Completed, Recompleted or Plugged Back

7. Drilling and Testing Operations: The following provisions shall apply to each well drilled / hereunder, including but not limited to the Initial Well:

(a) Operator will promptly advise / Non-Operators of the date on which the well is spudded, or the date on which drilling operations are commenced.

drilling operations are commenced.

each Consenting Party

(b) Operator will send to / Non-Operators such reports, test results and notices regarding the progress of operations on the Consenting Parties

well as the / Non-Operators shall reasonably request, including, but not limited to, daily drilling reports, completion reports, and well logs.

(c) Operator shall adequately test all Zones encountered which may reasonably be expected to be capable of producing Oil and Gas in paying quantities as a result of examination of the electric log or any other logs or cores or tests conducted becaused

8. <u>Cost Estimates:</u> Upon request of any Consenting Party, Operator shall furnish estimates of current and cumulative costs incurred for the joint account at reasonable intervals during the conduct of any operation pursuant to this agreement. Operator shall not be held liable for errors in such estimates so long as the estimates are made in good faith.

9. <u>Insurance:</u> At all times while operations are conducted hereunder, Operator shall comply with the workers compensation law of the state where the operations are being conducted; provided, however, that Operator may be a self-insurer for liability under said compensation laws in which event the only charge that shall be made to the joint account shall be as provided in Exhibit "C." Operator shall also carry or provide insurance for the benefit of the joint account of the parties as outlined in Exhibit "D" attached hereto and made a part hereof. Operator shall require all contractors engaged in work on or for the Contract Area to comply with the workers compensation law of the state where the operations are being conducted and to maintain such other insurance as Operator may require.

In the event automobile liability insurance is specified in said Exhibit "D," or subsequently receives the approval of the parties, no direct charge shall be made by Operator for premiums paid for such insurance for Operator's automotive equipment.

#### ARTICLE VI.

#### DRILLING AND DEVELOPMENT

#### A. Initial Well:

On or before the \_\_\_\_\_\_\_, day of \_\_\_\_\_\_\_, Operator shall commence the drilling of the Initial Well at the following location: Operator anticipates commencing the drilling of the Initial Well within one (1) years of the effective date of the Unitization Order issued by the Division,

and shall thereafter continue the drilling of the well with due diligence to a depth sufficient in the Operator's reasonable opinion, to adequately test the Utica/Point Pleasant formation with the Initial Well.

In the event a Party elects not to participate (a Non-Consenting Party) in the Initial Well proposed in the Contract Area pursuant to Article VI.A., upon the timely commencement of actual drilling operations on such Well, such Non-Consenting Party shall be deemed to have relinquished to the Consenting Parties, and the Consenting Parties shall own and be entitled to receive, in proportion to their respective interests, all of such Non-Consenting Party's interest in the well and share of production therefrom until the proceeds of the sale of such share, calculated at the well, or market value thereof if such share is not sold, (after deducting production taxes, excise taxes, royalty, overriding royalty and other interests not excepted by Article III.D. payable out of or measured by the production from such well accruing with respect to such interest until it reverts) shall equal the total of the following: (a) 500% of such Non-Consenting Party's share of the cost of any newly acquired surface equipment beyond the wellhead connections (including, but not limited to, stock tanks, separators, treaters, pumping equipment and piping), plus 500% of such Non-Consenting Party's share of the cost of operation of the well commencing with first production and continuing until such Non-Consenting Party's relinquished interest shall revert to it under other provisions of this Article, it being agreed that such

Non-Consenting Party's share of such costs and equipment will be that interest which would have been chargeable to such Non-Consenting Party had it participated in the well from the beginning of the operations; and (b) 500% of that portion of the costs and

expenses of drilling, testing and completing, after deducting any cash contributions received under Article III.C., and 500% of that

portion of the cost of newly acquired equipment in the well (to and including wellhead connections), which would have been chargeable to such Non-Consenting Party if it had participated therein.

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The drilling of the Initial Well and the participation therein by all parties is obligatory, subject to Article VI.C.1. as to participation in Completion operations and Article VI.F. as to termination of operations and Article XI as to occurrence of force majeure.

#### **B.** Subsequent Operations:

Departor

1. Proposed Operations: If / any party hereto should desire to drill any well on the Contract Area other than the Initial Well, or Operator if / any party should desire to Rework, Sidetrack, Deepen, Recomplete or Plug Back a dry hole or a well no longer capable of producing in paying quantities in which such party has not otherwise relinquished its interest in the proposed objective Zone under this agreement, the party desiring to drill, Rework, Sidetrack, Deepen, Recomplete or Plug Back such a well shall give written notice of the proposed operation to the parties who have not otherwise relinquished their interest in such objective Zone

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performed, the location, proposed depth, objective Zone and the estimated cost of the operation. The parties to whom such a notice is delivered shall have thirty (30) days after receipt of the notice within which to notify the party proposing to do the work whether they elect to participate in the cost of the proposed operation. If a drilling rig is on location, notice of a proposal to Rework, Sidetrack, Recomplete, Plug Back or Deepen may be given by telephone and the response period shall be limited to forty-inclusive eight (48) hours, / exclusive of Saturday, Sunday and legal holidays. Failure of a party to whom such notice is delivered to reply within the period above fixed shall constitute an election by that party not to participate in the cost of the proposed operation. Any proposal by a party to conduct an operation conflicting with the operation initially proposed shall be delivered to all parties within the time and in the manner provided in Article VI.B.6. No Party may elect to participate in any well proposed pursuant to this Agreement with less than its full and undivided working interest in the Contract Area.

If all parties to whom such notice is delivered elect to participate in such a proposed operation, the parties shall be contractually committed to participate therein provided such operations are commenced within the time period hereafter set forth, and Operator shall, no later than ninety (90) days after expiration of the notice period of thirty (30) days (or as promptly as practicable after the expiration of the forty-eight (48) hour period when a drilling rig is on location, as the case may be), actually commence the proposed operation and thereafter complete it with due diligence at the risk and expense of the parties participating therein; provided, however, said commencement date may be extended upon written notice of same by Operator to the other parties, for a period of up to thirty (30) additional days if, in the sole opinion of Operator, such additional time is reasonably necessary to obtain permits from governmental authorities, surface rights (including rights-ofway) or appropriate drilling equipment, or to complete title examination or curative matter required for title approval or acceptance. If the actual operation has not been commenced within the time provided (including any extension thereof as specifically permitted herein or in the force majeure provisions of Article XI) and if any party hereto still desires to conduct said operation, written notice proposing same must be resubmitted to the other parties in accordance herewith as if no prior proposal had been made. Those parties that did not participate in the drilling of a well for which a proposal to Deepen or Sidetrack is made hereunder shall, if such parties desire to participate in the proposed Deepening or Sidetracking operation, reimburse the Drilling Parties in accordance with Article VI.B.4. in the event of a Deepening operation and in accordance with Article VI.B.5. in the event of a Sidetracking operation.

under this agreement and to all other parties in the case of a proposal for Sidetracking or Deepening, specifying the work to be

#### 2. Operations by Less Than All Parties:

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(a) Determination of Participation. If any party to whom such notice is delivered as provided in Article VI.B.1. or VI.C.1. (Option No. 2) elects not to participate in the proposed operation, then, in order to be entitled to the benefits of this **Operator** Article, / the party or parties giving the notice and such other parties as shall elect to participate in the operation shall, no one hundred eighty (180)
later than / ninety (90) days after the expiration of the notice period of thirty (30) days (or as promptly as practicable after the expiration of the forty-eight (48) hour period when a drilling rig is on location, as the case may be) actually commence the proposed operation \* and complete it with due diligence; provided, however, said commencement date may be extended, upon written notice of same by Operator to the other parties, for a reasonable period if, in the sole opinion of Operator, such additional time is reasonably necessary to obtain permits from governmental authorities, surface rights (including rights-of-way) or appropriate drilling equipment, or to complete title examination or curative matter required for title approval or acceptance. Operator shall perform all work for the account of the Consenting Parties; provided, however, if no drilling rig or other equipment is on location, and if Operator is a Non-Consenting Party, the Consenting Parties shall either: (i) request Operator to perform the work required by such proposed operation for the account of the Consenting Parties, or (ii) designate one of the Consenting Parties as Operator to perform such work. The rights and duties granted to and imposed upon the Operator under this agreement are granted to and imposed upon the party designated as Operator for an operation in which the original Operator is a Non-Consenting Party. Consenting Parties, when conducting operations on the Contract Area pursuant to this Article VI.B.2., shall comply with all terms and conditions of this agreement. \*Nothing contained herein shall prohibit Operator from actually commencing the proposed operation before the expiration of the notice period, nor shall such commencement affect in any way the validity of a party's election or deemed election.

If less than all parties approve any proposed operation, the proposing party Operator, immediately after the expiration of the applicable notice period, shall advise all Parties of the total interest of the parties approving such operation and its recommendation as to whether the Consenting Parties should proceed with the operation as proposed. Each Consenting Party, within forty-eight (48) hours (exclusive of Saturday, Sunday, and legal holidays) after delivery of such notice, shall advise the Operator proposing party / of its desire to (i) limit participation to such party's interest as shown on Exhibit "A" or (ii) carry only its proportionate part (determined by dividing such party's interest in the Contract Area by the interests of all Consenting Parties in the Contract Area) of Non-Consenting Parties' interests, or (iii) carry its proportionate part (determined as provided in (ii)) of Non-Consenting Parties' interests together with all or a portion of its proportionate part of any Non-Consenting Parties' interests that any Consenting Party did not elect to take. Any interest of Non-Consenting Parties that is not carried by a Consenting Party shall be deemed to be carried by the party proposing the operation if such party does not withdraw its proposal. Failure to advise the proposing party within the time required shall be deemed an election under (i). In the event a drilling rig is on location, notice may be given by telephone, and the time permitted for such a response shall not exceed a **Operator** total of forty-eight (48) hours (exclusive of Saturday, Sunday and legal holidays). The / proposing party, at its election, may proposing party, at its election, may withdraw such proposal if there is less than 100% participation and shall notify all parties of such decision within ten (10) days, or within twenty-four (24) hours if a drilling rig is on location, following expiration of the applicable response period. If 100% subscription to the proposed operation is obtained, the proposing party shall promptly notify the Consenting Parties of their proportionate interests in the operation and the party serving as Operator shall commence such operation within the

(b) Relinquishment of Interest for Non-Participation. The entire cost and risk of conducting such operations shall be borne by the Consenting Parties in the proportions they have elected to bear same under the terms of the preceding paragraph. Consenting Parties shall keep the leasehold estates involved in such operations free and clear of all liens and encumbrances of every kind created by or arising from the operations of the Consenting Parties. If such an operation results in a dry hole, then subject to Articles VI.B.6. and VI.E.3., the Consenting Parties shall plug and abandon the well and restore the surface location at their sole cost, risk and expense; provided, however, that those Non-Consenting Parties that participated in the drilling, Deepening or Sidetracking of the well shall remain liable for, and shall pay, their proportionate shares of the cost of plugging and abandoning the well and restoring the surface location insofar only as those costs were not increased by the subsequent operations of the Consenting Parties. The Consenting Parties shall bear proportionately the well costs attributed to any unleased or uncommitted owners in the Contract Area. If any well drilled, Reworked, Sidetracked, Deepened, Recompleted or Plugged Back under the provisions of this Article results in a well capable of producing Oil and/or Gas in paying quantities, the Consenting Parties shall Complete and equip the well to produce at their sole cost and risk, and the well shall then be turned over to Operator (if the Operator did not conduct the operation) and shall be operated by it at the expense and for the account of the Consenting Parties. Upon commencement of operations for the drilling, Reworking, Sidetracking, Recompleting, Deepening or Plugging Back of any such well by Consenting Parties in accordance with the

period provided in Article VI.B.1., subject to the same extension right as provided therein.

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provisions of this Article, each Non-Consenting Party shall be deemed to have relinquished to Consenting Parties, and the Consenting Parties shall own and be entitled to receive, in proportion to their respective interests, all of such Non-Consenting Party's interest in the well and share of production therefrom or, in the case of a Reworking, Sidetracking,

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 Deepening, Recompleting or Plugging Back, or a Completion pursuant to Article VI.C.1. Option No. 2, all of such Non-Consenting Party's interest in the production obtained from the operation in which the Non-Consenting Party did not elect to participate. Such relinquishment shall be effective until the proceeds of the sale of such share, calculated at the well, or market value thereof if such share is not sold (after deducting applicable ad valorem, production, severance, and excise taxes, royalty, overriding royalty and other interests not excepted by Article III.C. payable out of or measured by the production from such well accruing with respect to such interest until it reverts), shall equal the total of the following:

(i)  $\underline{500}$  % of each such Non-Consenting Party's share of the cost of any newly acquired surface equipment beyond the wellhead connections (including but not limited to stock tanks, separators, treaters, pumping equipment and piping), plus 7.400% of each such Non-Consenting Party's share of the cost of operation of the well commencing with first production and continuing until each such Non-Consenting Party's relinquished interest shall revert to it under other provisions of this Article, it being agreed that each Non-Consenting Party's share of such costs and equipment will be that interest which would have been chargeable to such Non-Consenting Party had it participated in the well from the beginning of the operations; and

(ii)  $\underline{500}$  % of (a) that portion of the costs and expenses of drilling, Reworking, Sidetracking, Deepening, Plugging Back, testing, Completing, and Recompleting, after deducting any cash contributions received under Article VIII.C., and / of (b) that portion of the cost of newly acquired equipment in the well (to and including the wellhead connections), which would have been chargeable to such Non-Consenting Party if it had participated therein.

Notwithstanding anything to the contrary in this Article VI.B., if the well does not reach the deepest objective Zone described in the notice proposing the well for reasons other than the encountering of granite or practically impenetrable substance or other condition in the hole rendering further operations impracticable, Operator shall give notice thereof to each Non-Consenting Party who submitted or voted for an alternative proposal under Article VI.B.6. to drill the well to a shallower Zone than the deepest objective Zone proposed in the notice under which the well was drilled, and each such Non-Consenting Party shall have the option to participate in the initial proposed Completion of the well by paying its share of the cost of drilling the well to its actual depth, calculated in the manner provided in Article VI.B.4. (a). If any such Non-Consenting Party does not elect to participate in the first Completion proposed for such well, the relinquishment provisions of this Article VI.B.2. (b) shall apply to such party's interest.

(d) <u>Recoupment Matters.</u> During the period of time Consenting Parties are entitled to receive Non-Consenting Party's share of production, or the proceeds therefrom, Consenting Parties shall be responsible for the payment of all ad valorem, production, severance, excise, gathering and other taxes, and all royalty, overriding royalty and other burdens applicable to Non-Consenting Party's share of production not excepted by Article III.C.

In the case of any Reworking, Sidetracking, Plugging Back, Recompleting or Deepening operation, the Consenting Parties shall be permitted to use, free of cost, all casing, tubing and other equipment in the well, but the ownership of all such equipment shall remain unchanged; and upon abandonment of a well after such Reworking, Sidetracking, Plugging Back, Recompleting or Deepening, the Consenting Parties shall account for all such equipment to the owners thereof, with each party receiving its proportionate part in kind or in value, less cost of salvage.

One hundred eighty (180)

Within iniety (90) / days after the completion of any operation under this Article, the party conducting the operations

Within ninety (90) / days after the completion of any operation under this Article, the party conducting the operations for the Consenting Parties shall furnish each Non-Consenting Party with an inventory of the equipment in and connected to the well, and an itemized statement of the cost of drilling, Sidetracking, Deepening, Plugging Back, testing, Completing, Recompleting, and equipping the well for production; or, at its option, the operating party, in lieu of an itemized statement of such costs of operation, may submit a detailed statement of monthly billings. Each month / thereafter, during the time the Consenting Parties are being reimbursed as provided above, the party conducting the operations for the Consenting Parties shall furnish the Non-Consenting Parties with an itemized statement of all costs and liabilities incurred in the operation of the well, together with a statement of the quantity of Oil and Gas produced from it and the amount of proceeds realized from the sale of the well's working interest production during the preceding month. In determining the quantity of Oil and Gas produced during any month, Consenting Parties shall use industry accepted methods such as but not limited to metering or periodic well tests. Any amount realized from the sale or other disposition of equipment newly acquired in connection with any such operation which would have been owned by a Non-Consenting Party had it participated therein shall be credited against the total unreturned costs of the work done and of the equipment purchased in determining when the interest of such Non-Consenting Party shall revert to it as above provided; and if there is a credit balance, it shall be paid to such Non-Consenting Party.

If and when the Consenting Parties recover from a Non-Consenting Party's relinquished interest the amounts provided first day of the month for above, the relinquished interests of such Non-Consenting Party shall automatically revert to it as of 7:00 a.m. on the / day following the day on which such recoupment occurs, and, from and after such reversion, such Non-Consenting Party shall own the same interest in such well, the material and equipment in or pertaining thereto, and the production therefrom as such Non-Consenting Party would have been entitled to had it participated in the drilling, Sidetracking, Reworking, Deepening, Recompleting or Plugging Back of said well. Thereafter, such Non-Consenting Party shall be charged with and shall pay its proportionate part of the further costs of the operation of said well in accordance with the terms of this agreement and Exhibit "C" attached hereto.

3. <u>Stand-By Costs:</u> When a well which has been drilled or Deepened has reached its authorized depth and all tests have been completed and the results thereof furnished to the parties, or when operations on the well have been otherwise terminated pursuant to Article VI.F., stand-by costs incurred pending response to a party's notice proposing a Reworking,

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Sidetracking, Deepening, Recompleting, Plugging Back or Completing operation in such a well (including the period required under Article VI.B.6. to resolve competing proposals) shall be charged and borne as part of the drilling or Deepening operation just completed. Stand-by costs subsequent to all parties responding, or expiration of the response time permitted, whichever first occurs, and prior to agreement as to the participating interests of all Consenting Parties pursuant to the terms of the second grammatical paragraph of Article VI.B.2. (a), shall be charged to and borne as part of the proposed operation, but if the proposal is subsequently withdrawn because of insufficient participation, such stand-by costs shall be allocated between the Consenting Parties in the proportion each Consenting Party's interest as shown on Exhibit "A" bears to the total interest as shown on Exhibit "A" of all Consenting Parties.

In the event that notice for a Sidetracking operation is given while the drilling rig to be utilized is on location, any party may request and receive up to five (5) additional days after expiration of the forty-eight hour response period specified in Article VI.B.1. within which to respond by paying for all stand-by costs and other costs incurred during such extended response period; Operator may require such party to pay the estimated stand-by time in advance as a condition to extending the response period. If more than one party elects to take such additional time to respond to the notice, standby costs shall be allocated between the parties taking additional time to respond on a day-to-day basis in the proportion each electing party's interest as shown on Exhibit "A" bears to the total interest as shown on Exhibit "A" of all the electing parties.

4. <u>Deepening:</u> If less than all parties elect to participate in a drilling, Sidetracking, or Deepening operation proposed pursuant to Article VI.B.1., the interest relinquished by the Non-Consenting Parties to the Consenting Parties under Article VI.B.2. shall relate only and be limited to the lesser of (i) the total depth actually drilled or (ii) the objective depth or Zone of which the parties were given notice under Article VI.B.1. ("Initial Objective"). / Such well shall not be Deepened beyond the Initial Objective without first complying with this Article to afford the Non-Consenting Parties the opportunity to participate in the Deepening operation.

In the event any Consenting Party desires to drill or Deepen a Non-Consent Well-to-a depth below the Initial Objective, such party shall give notice thereof, complying with the requirements of Article VI.B.1., to all parties (including Non-Consenting Parties). Thereupon, Articles VI.B.1. and 2. shall apply and all parties receiving such notice shall have the right to participate or not participate in the Deepening of such well pursuant to said Articles VI.B.1. and 2. If a Deepening operation is approved pursuant to such provisions, and if any Non-Consenting Party elects to participate in the Deepening operation, such Non-Consenting party shall pay or make reimbursement (as the case may be) of the following costs and expenses.

(a) If the proposal to Deepen is made prior to the Completion of such well as a well capable of producing in paying quantities, such Non-Consenting Party shall pay (or reimburse Consenting Parties for, as the case may be) that share of costs and expenses incurred in connection with the drilling of said well from the surface to the Initial Objective which Non-Consenting Party would have paid had such Non-Consenting Party agreed to participate therein, plus the Non-Consenting Party's share of the cost of Deepening and of participating in any further operations on the well in accordance with the other provisions of this Agreement; provided, however, all costs for testing and Completion or attempted Completion of the well incurred by Consenting Parties prior to the point of actual operations to Deepen beyond the Initial Objective shall be for the sole account of Consenting Parties.

(b) If the proposal is made for a Non-Consent Well that has been previously Completed as a well capable of producing in paying quantities, but is no longer capable of producing in paying quantities, such Non-Consenting Party shall pay (or reimburse Consenting Parties for, as the case may be) its proportionate share of all costs of drilling, Completing, and equipping said well from the surface to the Initial Objective, calculated in the manner provided in paragraph (a) above, less those costs recouped by the Consenting Parties from the sale of production from the well. The Non-Consenting Party shall also pay its proportionate share of all costs of re-entering said well. The Non-Consenting Parties' proportionate part (based on the percentage of such well Non-Consenting Party would have owned had it previously participated in such Non-Consent Well) of the costs of salvable materials and equipment remaining in the hole and salvable surface equipment used in connection with such well shall be determined in accordance with Exhibit "C." If the Consenting Parties have recouped the cost of drilling, Completing, and equipping the well at the time such Deepening operation is conducted, then a Non-Consenting Party may participate in the Deepening of the well with no payment for costs incurred prior to re-entering the well for Deepening

The foregoing shall not imply a right of any Consenting Party to propose any Deepening for a Non-Consent Well prior to the drilling of such well to its Initial Objective without the consent of the other Consenting Parties as provided in Article VI.F.

- 5. <u>Sidetracking:</u> Any party having the right to participate in a proposed Sidetracking operation that does not own an interest in the affected wellbore at the time of the notice shall, upon electing to participate, tender to the wellbore owners its proportionate share (equal to its interest in the Sidetracking operation) of the value of that portion of the existing wellbore to be utilized as follows:
- (a) If the proposal is for Sidetracking an existing dry hole, reimbursement shall be on the basis of the actual costs incurred in the initial drilling of the well down to the depth at which the Sidetracking operation is initiated.
- (b) If the proposal is for Sidetracking a well which has previously produced, reimbursement shall be on the basis of such party's proportionate share of drilling and equipping costs incurred in the initial drilling of the well down to the depth at which the Sidetracking operation is conducted, calculated in the manner described in Article VI.B.4(b) above. Such party's proportionate share of the cost of the well's salvable materials and equipment down to the depth at which the Sidetracking operation is initiated shall be determined in accordance with the provisions of Exhibit "C."
- 6. Order of Preference of Operations. Except as otherwise specifically provided in this agreement, if any party desires to propose the conduct of an operation that conflicts with a proposal that has been made by a party under this Article VI, such party shall have fifteen (15) days from delivery of the initial proposal, in the case of a proposal to drill a well or to perform an operation on a well where no drilling rig is on location, or twenty-four (24) hours, exclusive of Saturday, Sunday and legal holidays, from delivery of the initial proposal, if a drilling rig is on location for the well on which such operation is to be conducted, to deliver to all parties entitled to participate in the proposed operation such party's alternative proposal, such alternate proposal to contain the same information required to be included in the initial proposal. Each party receiving such proposals shall elect by delivery of notice to Operator within five (5) days after expiration of the proposal period, or within twenty-four (24) hours (exclusive of Saturday, Sunday and legal holidays) if a drilling rig is on location for the well that is the subject of the proposals, to participate in one of the competing proposals. Any party not electing within the time required shall be deemed not to have voted. The proposal receiving the vote of parties owning the largest aggregate percentage interest of the parties voting shall have priority over all other competing proposals; in the case of a tie vote, the

initial proposal shall prevail. Operator shall deliver notice of such result to all parties entitled to participate in the operation within five (5) days after expiration of the election period (or within twenty-four (24) hours, exclusive of Saturday, Sunday and legal holidays, if a drilling rig is on location). Each party shall then have two (2) days (or twenty-four (24) hours if a rig is on location) from receipt of such notice to elect by delivery of notice to Operator to participate in such operation or to relinquish interest in the affected well pursuant to the provisions of Article VI.B.2.; failure by a party to deliver notice within such period shall be deemed an election <u>not</u> to participate in the prevailing proposal.

- 7. Conformity to Spacing Pattern. Notwithstanding the provisions of this Article VI.B.2., it is agreed that no wells shall be proposed to be drilled to or Completed in or produced from a Zone from which a well located elsewhere on the Contract Area is producing, unless such well conforms to the then-existing well spacing pattern for such Zone.
- 8. <u>Paying Wells.</u> No party shall conduct any Reworking, Deepening, Plugging Back, Completion, Recompletion, or Sidetracking operation under this agreement with respect to any well then capable of producing in paying quantities except with the consent of all parties that have not relinquished interests in the well at the time of such operation.

#### C. Completion of Wells; Reworking and Plugging Back:

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- 1. <u>Completion:</u> Without the consent of all parties, no well shall be drilled, Deepened or Sidetracked, except any well drilled, Deepened or Sidetracked pursuant to the provisions of Article VI.B.2. of this agreement. Consent to the drilling, Deepening or Sidetracking shall include:
- Deepening or Sidetracking shall include:
  For Horizontal Wells and Multi-Lateral Wells, all
  Option No. 1: All / necessary expenditures for the drilling, Deepening, equipping of the well, including tankage and/or surface
  - facilities. See also Article XVI.E. For Vertical Wells, all
    Option No. 2: All / necessary expenditures for the drilling, Deepening or Sidetracking and testing of the well. When Option No. such well has reached its authorized depth, and all logs, cores and other tests have been completed, and the results thereof furnished to the parties, Operator shall give immediate notice to the Non-Operators having the right to participate in a Completion attempt whether or not Operator recommends attempting to Complete the well, together with Operator's AFE for Completion costs if not previously provided. The parties receiving such notice shall have forty-eight (48) hours (exclusive of Saturday, Sunday and legal holidays) in which to elect by delivery of notice to Operator to participate in a recommended Completion attempt or to make a Completion proposal with an accompanying AFE. Operator shall deliver any such Completion proposal, or any Completion proposal conflicting with Operator's proposal, to the other parties entitled to participate in such Completion in accordance with the procedures specified in Article VI.B.6. Election to participate in a Completion attempt shall include consent to all necessary expenditures for the Completing and equipping of such well, including necessary tankage and/or surface facilities but excluding any stimulation operation not contained on the Completion AFE. Failure of any party receiving such notice to reply within the period above fixed shall constitute an election by that party not to participate in the cost of the Completion attempt; provided, that Article VI.B.6. shall control in the case of conflicting Completion proposals. If one or more, but less than all of the parties, elect to attempt a Completion, the provision of Article VI.B.2. hereof (the phrase "Reworking, Sidetracking, Deepening, Recompleting or Plugging Back" as contained in Article VI.B.2. shall be deemed to include "Completing") shall apply to the operations thereafter conducted by less than all parties; provided, however, that Article VI.B.2. shall apply separately to each separate Completion or Recompletion attempt undertaken hereunder, and an election to become a Non-Consenting Party as to one Completion or Recompletion attempt shall not prevent a party from becoming a Consenting Party in subsequent Completion or Recompletion attempts regardless whether the Consenting Parties as to earlier Completions or Recompletion have recouped their costs pursuant to Article VI.B.2.; provided further, that any recoupment of costs by a Consenting Party shall be made solely from the production attributable to the Zone in which the Completion attempt is made. Election by a previous Non-Consenting party to participate in a subsequent Completion or Recompletion attempt shall require such party to pay its proportionate share of the cost of salvable materials and equipment installed in the well pursuant to the previous Completion or Recompletion attempt, insofar and only insofar as such materials and equipment benefit the Zone in which such party participates in a Completion attempt. See also Article XVI.E.
- 2. Rework, Recomplete or Plug Back: No well shall be Reworked, Recompleted or Plugged Back except a well Reworked, Recompleted, or Plugged Back pursuant to the provisions of Article VI.B.2. of this agreement. Consent to the Reworking, Recompleting or Plugging Back of a well shall include all necessary expenditures in conducting such operations and Completing and equipping of said well, including necessary tankage and/or surface facilities.

  D. Other Operations:

Operator shall not undertake any single project reasonably estimated to require an expenditure in excess of Fifty Thousand Dollars (\$ 50,000.00 \_) except in connection with the drilling, Sidetracking, Reworking, Deepening, Completing, Recompleting or Plugging Back of a well that has been previously authorized by or pursuant to this agreement; provided, however, that, in case of explosion, fire, flood or other sudden emergency, whether of the same or different nature, Operator may take such steps and incur such expenses as in its opinion are required to deal with the emergency to safeguard life and property but Operator, as promptly as possible, shall report the emergency to the other parties. If Operator prepares an AFE for its own use, Operator shall furnish any Non-Operator so requesting an information copy thereof for any single project costing in excess of \_\_ Fifty Thousand \$50,000.00 \_). Any party who has not relinquished its interest in a well shall have the right to propose that Operator perform repair work or undertake the installation of artificial lift equipment or ancillary production facilities such as salt water disposal wells or to conduct additional work with respect to a well drilled hereunder or other similar project (but not including the installation of gathering lines or other transportation or marketing facilities, the installation of which shall be governed by separate agreement between the parties) reasonably estimated to require an expenditure in excess of the amount first set forth above in this Article VI.D. (except in connection with an operation required to be proposed under Articles VI.B.1. or VI.C.1. Option No. 2, which shall be governed exclusively be those Articles). Operator shall deliver such proposal to all parties entitled to participate therein. If within thirty (30) days thereof Operator secures the written consent of any party or parties owning at least 80 % of the interests of the parties entitled to participate in such operation, each party having the right to participate in such project shall be bound by the terms of such proposal and shall be obligated to pay its proportionate share of the costs of the proposed project as if it had consented to such project pursuant to the terms of the proposal.

#### E. Abandonment of Wells:

1. Abandonment of Dry Holes: Except for any well drilled or Deepened pursuant to Article VI.B.2., any well which has been drilled or Deepened under the terms of this agreement and is proposed to be completed as a dry hole shall not be

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plugged and abandoned without the consent of all parties. Should Operator, after diligent effort, be unable to contact any party, or should any party fail to reply within forty-eight (48) hours (exclusive of Saturday, Sunday and legal holidays) after delivery of notice of the proposal to plug and abandon such well, such party shall be deemed to have consented to the proposed abandonment. All such wells shall be plugged and abandoned in accordance with applicable regulations and at the cost, risk and expense of the parties who participated in the cost of drilling or Deepening such well. Any party who objects to plugging and abandoning such well by notice delivered to Operator within forty-eight (48) hours (exclusive of Saturday, Sunday and legal holidays) after delivery of notice of the proposed plugging shall take over the well as of the end of such forty-eight (48) hour notice period and conduct further operations in search of Oil and/or Gas subject to the provisions of Article VI.B.; failure of such party to provide proof reasonably satisfactory to Operator of its financial capability to conduct such operations or to take over the well within such period or thereafter to conduct operations on such well or plug and abandon such well shall entitle Operator to retain or take possession of the well and plug and abandon the well. The party taking over the well shall indemnify Operator (if Operator is an abandoning party) and the other abandoning parties against liability for any further operations conducted on such well except for the costs of plugging and abandoning the well and restoring the surface, for which the abandoning parties shall remain proportionately liable.

2. Abandonment of Wells That Have Produced: Except for any well in which a Non-Consent operation has been conducted hereunder for which the Consenting Parties have not been fully reimbursed as herein provided. Any well which has who participated in the cost of drilling the well been completed as a producer shall not be plugged and abandoned without the consent of all parties /. If all parties consent to such abandonment, the well shall be plugged and abandoned in accordance with applicable regulations and at the cost, risk and expense of all the parties hereto. Failure of a party to reply within sixty (60) days of delivery of notice of proposed abandonment shall be deemed an election to consent to the proposal. If, within sixty (60) days after delivery of notice of the proposed abandonment of any well, all parties do not agree to the abandonment of such well, those wishing to continue its operation from the Zone then open to production shall be obligated to take over the well as of the expiration of the applicable notice period and shall indemnify Operator (if Operator is an abandoning party) and the other abandoning parties against liability for any further operations / on the well conducted by such parties. Failure of such party or parties to provide proof reasonably satisfactory to Operator of their financial capability to conduct such operations or to take over the well within the required period or thereafter to conduct operations on such well shall entitle operator to retain or take possession of such well and plug and abandon the well.

Parties taking over a well as provided herein shall tender to each of the other parties its proportionate share of the value of the well's salvable material and equipment, determined in accordance with the provisions of Exhibit "C," less the estimated cost of salvaging and the estimated cost of plugging and abandoning and restoring the surface; provided, however, that in the event the estimated plugging and abandoning and surface restoration costs and the estimated cost of salvaging are higher than the value of the well's salvable material and equipment, each of the abandoning parties shall tender to the parties continuing operations their proportionate shares of the estimated excess cost. Each abandoning party shall assign to the non-abandoning parties, without warranty, express or implied, as to title or as to quantity, or fitness for use of the equipment and material, all of its interest in the wellbore of the well and related equipment, together with its interest in the Leasehold insofar and only insofar as such Leasehold covers the right to obtain production from that wellbore in the Zone then open to production. If the interest of the abandoning party is or includes and Oil and Gas Interest, such party shall execute and deliver to the nonabandoning party or parties an oil and gas lease, limited to the wellbore and the Zone then open to production, for a term of one (1) year and so long thereafter as Oil and/or Gas is produced from the Zone covered thereby, such lease to be on the form attached as Exhibit "B." The assignments or leases so limited shall encompass the Drilling Unit upon which the well is located. The payments by, and the assignments or leases to, the assignees shall be in a ratio based upon the relationship of their respective percentage of participation in the Contract Area to the aggregate of the percentages of participation in the Contract Area of all assignees. There shall be no readjustment of interests in the remaining portions of the Contract Area.

Thereafter, abandoning parties shall have no further responsibility, liability, or interest in the operation of or production from the well in the Zone then open other than the royalties retained in any lease made under the terms of this Article. Upon request, Operator shall continue to operate the assigned well for the account of the non-abandoning parties at the rates and charges contemplated by this agreement, plus any additional cost and charges which may arise as the result of the separate ownership of the assigned well. Upon proposed abandonment of the producing Zone assigned or leased, the assignor or lessor shall then have the option to repurchase its prior interest in the well (using the same valuation formula) and participate in further operations therein subject to the provisions hereof.

3. Abandonment of Non-Consent Operations: The provisions of Article VI.E.1. or VI.E.2. above shall be applicable as between Consenting Parties in the event of the proposed abandonment of any well excepted from said Articles; provided, however, no well shall be permanently plugged and abandoned unless and until all parties having the right to conduct further operations therein have been notified of the proposed abandonment and afforded the opportunity to elect to take over the well in accordance with the provisions of this Article VI.E.; and provided further, that Non-Consenting Parties who own an interest in a portion of the well shall pay their proportionate shares of abandonment and surface restoration cost for such well as provided in Article VI.B.2.(b).

#### F. Termination of Operations:

#### G. Taking Production in Kind:

#### **Option No. 1**: Gas Balancing Agreement Attached

Each party shall take in kind or separately dispose of its proportionate share of all Oil and Gas produced from the Contract Area, exclusive of production which may be used in development and producing operations and in preparing and treating Oil and Gas for marketing purposes and production unavoidably lost. Any extra expenditure incurred in the taking in kind or separate disposition by any party of its proportionate share of the production shall be borne by such party. Any party taking its share of production in kind shall be required to pay for only its proportionate share of such part of Operator's surface facilities which it uses.

Each party shall execute such division orders and contracts as may be necessary for the sale of its interest in production from the Contract Area, and, except as provided in Article VII.B., shall be entitled to receive payment

directly from the purchaser thereof for its share of all production.

If any party fails to make the arrangements necessary to take in kind or separately dispose of its proportionate share of the Oil produced from the Contract Area, Operator shall have the right, subject to the revocation at will by the party owning it, but not the obligation, to purchase such Oil or sell it to others at any time and from time to time, for the account of the non-taking party. Any such purchase or sale by Operator may be terminated by Operator upon at least ten (10) days written notice to the owner of said production and shall be subject always to the right of the owner of the production upon at least ten (10) days written notice to Operator to exercise at any time its right to take in kind, or separately dispose of, its share of all Oil not previously delivered to a purchaser. Any purchase or sale by Operator of any other party's share of Oil shall be only for such reasonable periods of time as are consistent with the minimum needs of the industry under the particular circumstances, but in no event for a period in excess of one (1) year.

Any such sale by Operator shall be in a manner commercially reasonable under the circumstances but Operator shall have no duty to share any existing market or to obtain a price equal to that received under any existing market. The sale or delivery by Operator of a non-taking party's share of Oil under the terms of any existing contract of Operator shall not give the non-taking party any interest in or make the non-taking party a party to said contract. No purchase shall be made by Operator without first giving the non-taking party at least ten (10) days written notice of such intended purchase and the price to be paid or the pricing basis to be used.

All parties shall give timely written notice to Operator of their Gas marketing arrangements for the following month, excluding price, and shall notify Operator immediately in the event of a change in such arrangements. Operator shall maintain records of all marketing arrangements, and of volumes actually sold or transported, which records shall be made available to Non-Operators upon reasonable request.

In the event one or more parties' separate disposition of its share of the Gas causes split-stream deliveries to separate pipelines and/or deliveries which on a day-to-day basis for any reason are not exactly equal to a party's respective proportionate share of total Gas sales to be allocated to it, the balancing or accounting between the parties shall be in accordance with any Gas balancing agreement between the parties hereto, whether such an agreement is attached as Exhibit "E" or is a separate agreement. Operator shall give notice to all parties of the first sales of Gas from any well under this agreement.

#### ☐ Option No. 2: No Gas Balancing Agreement:

- Each party shall take in kind or separately dispose of its proportionate share of all Oil and Gas produced from the Contract Area, exclusive of production which may be used in development and producing operations and in preparing and treating Oil and Gas for marketing purposes and production unavoidably lost. Any extra expenditures incurred in the taking in kind or separate disposition by any party of its proportionate share of the production shall be borne by such party. Any party taking its share of production in kind shall be required to pay for only its proportionate share of such part of Operator's surface facilities which it uses.
- Each party shall execute such division orders and contracts as may be necessary for the sale of its interest in production from the Contract Area, and, except as provided in Article VII.B., shall be entitled to receive payment directly from the purchaser thereof for its share of all production.
- If any party fails to make the arrangements necessary to take in kind or separately dispose of its proportionate share of the Oil and/or Gas produced from the Contract Area, Operator shall have the right, subject to the revocation at will by the party owning it, but not the obligation, to purchase such Oil and/or Gas or sell it to others at any time and from time to time, for the account of the non-taking party. Any such purchase or sale by Operator may be terminated by Operator upon at least ten (10) days written notice to the owner of said production and shall be subject always to the right of the owner of the production upon at least ten (10) days written notice to Operator to exercise its right to take in kind, or separately dispose of, its share of all Oil and/or Gas not previously delivered to a purchaser; provided, however, that the effective date of any such revocation may be deferred at Operator's election for a period not to exceed ninety (90) days if Operator has committed such production to a purchase contract having a term extending beyond such ten (10) day period. Any purchase or sale by Operator of any other
- party's share of Oil and/or Gas shall be only for such reasonable periods of time as are consistent with the minimum needs of the industry under the particular circumstances, but in no event for a period in excess of one (1) year.
- Any such sale by Operator shall be in a manner commercially reasonable under the circumstances, but Operator shall have no duty to share any existing market or transportation arrangement or to obtain a price or transportation fee equal to that received under any existing market or transportation arrangement. The sale or delivery by Operator of a non-taking party's share of production under the terms of any existing contract of Operator shall not give the non-taking party any interest in or make the non-taking party a party to said contract. No purchase of Oil and Gas and no sale of Gas shall be made by Operator without first giving the non-taking party ten days written notice of such intended purchase or sale and the price to be paid or the pricing basis to be used. Operator shall give notice to all parties of the first sale of Gas from any well under this Agreement.
- All parties shall give timely written notice to Operator of their Gas marketing arrangements for the following month, excluding price, and shall notify Operator immediately in the event of a change in such arrangements. Operator shall maintain records of all marketing arrangements, and of volumes actually sold or transported, which records shall be made available to Non-Operators upon reasonable request.

#### ARTICLE VII.

#### EXPENDITURES AND LIABILITY OF PARTIES

#### A. Liability of Parties:

The liability of the parties shall be several, not joint or collective. Each party shall be responsible only for its obligations, and shall be liable only for its proportionate share of the costs of developing and operating the Contract Area. Accordingly, the liens granted among the parties in Article VII.B. are given to secure only the debts of each severally, and no party shall have any liability to third parties hereunder to satisfy the default of any other party in the payment of any expense or obligation hereunder. It is not the intention of the parties to create, nor shall this agreement be construed as creating, a mining or other partnership, joint venture, agency relationship or association, or to render the parties liable as partners, co-venturers, or principals. In their relations with each other under this agreement, the parties shall not be considered fiduciaries or to have established a confidential relationship but rather shall be free to act on an arm's-length basis in accordance with their own respective self-interest, subject, however, to the obligation of the parties to act in good faith in their dealings with each other with respect to activities hereunder.

#### B. Liens and Security Interests:

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Each party grants to the other parties hereto a lien upon any interest it now owns or hereafter acquires in Oil and Gas Leases and Oil and Gas Interests in the Contract Area, and a security interest and/or purchase money security interest in any interest it now owns or hereafter acquires in the personal property and fixtures on or used or obtained for use in connection therewith, to secure performance of all of its obligations under this agreement including but not limited to payment of expense, interest and fees, the proper disbursement of all monies paid hereunder, the assignment or relinquishment of interest in Oil and Gas Leases as required hereunder, and the proper performance of operations hereunder. Such lien and security interest granted by each party hereto shall include such party's leasehold interests, working interests, operating rights, and royalty and overriding royalty interests in the Contract Area now owned or hereafter acquired and in lands pooled or unitized therewith or otherwise becoming subject to this agreement, the Oil and Gas when extracted therefrom and equipment situated thereon or used or obtained for use in connection therewith (including, without limitation, all wells, tools, and tubular goods), and accounts (including, without limitation, accounts arising from gas imbalances or from the sale of Oil and/or Gas at the wellhead), contract rights, inventory and general intangibles relating thereto or arising therefrom, and all proceeds and products of the foregoing.

To perfect the lien and security agreement provided herein, each party hereto shall execute and acknowledge the recording supplement and/or any financing statement prepared and submitted by any party hereto in conjunction herewith or at any time following execution hereof, and Operator is authorized to file this agreement or the recording supplement executed herewith as a lien or mortgage in the applicable real estate records and as a financing statement with the proper officer under the Uniform Commercial Code in the state in which the Contract Area is situated and such other states as Operator shall deem appropriate to perfect the security interest granted hereunder. Any party may file this agreement, the recording supplement executed herewith, or such other documents as it deems necessary as a lien or mortgage in the applicable real estate records and/or a financing statement with the proper officer under the Uniform Commercial Code.

Each party represents and warrants to the other parties hereto that the lien and security interest granted by such party to the other parties shall be a first and prior lien, and each party hereby agrees to maintain the priority of said lien and security interest against all persons acquiring an interest in Oil and Gas Leases and Interests covered by this agreement by, through or under such party. All parties acquiring an interest in Oil and Gas Leases and Oil and Gas Interests covered by this agreement, whether by assignment, merger, mortgage, operation of law, or otherwise, shall be deemed to have taken subject to the lien and security interest granted by this Article VII.B. as to all obligations attributable to such interest hereunder whether or not such obligations arise before or after such interest is acquired.

To the extent that parties have a security interest under the Uniform Commercial Code of the state in which the Contract Area is situated, they shall be entitled to exercise the rights and remedies of a secured party under the Code. The bringing of a suit and the obtaining of judgment by a party for the secured indebtedness shall not be deemed an election of remedies or otherwise affect the lien rights or security interest as security for the payment thereof. In addition, upon default by any party in the payment of its share of expenses, interests or fees, or upon the improper use of funds by the Operator, the other parties shall have the right, without prejudice to other rights or remedies, to collect from the purchaser the proceeds from the sale of such defaulting party's share of Oil and Gas until the amount owed by such party, plus interest as provided in "Exhibit C," has been received, and shall have the right to offset the amount owed against the proceeds from the sale of such defaulting party's share of Oil and Gas. All purchasers of production may rely on a notification of default from the non-defaulting party or parties stating the amount due as a result of the default, and all parties waive any recourse available against purchasers for releasing production proceeds as provided in this paragraph.

If any party fails to pay its share of cost within one hundred twenty (120) days after rendition of a statement therefor by Operator, the non-defaulting parties, including Operator, shall upon request by Operator, pay the unpaid amount in the proportion that the interest of each such party bears to the interest of all such parties. The amount paid by each party so paying its share of the unpaid amount shall be secured by the liens and security rights described in Article VII.B., and each paying party may independently pursue any remedy available hereunder or otherwise.

If any party does not perform all of its obligations hereunder, and the failure to perform subjects such party to foreclosure or execution proceedings pursuant to the provisions of this agreement, to the extent allowed by governing law, the defaulting party waives any available right of redemption from and after the date of judgment, any required valuation or appraisement of the mortgaged or secured property prior to sale, any available right / to stay execution or to require a marshaling of assets or sale in inverse order of alienation / and any required bond in the event a receiver is appointed. In addition, to the extent permitted by applicable law, each party hereby grants to the other parties a power of sale as to any property that is subject to the lien and security rights granted hereunder, such power to be exercised in the manner provided by applicable law or otherwise in a commercially reasonable manner and upon reasonable notice.

Each party agrees that the other parties shall be entitled to utilize the provisions of Oil and Gas lien law or other lien law of any state in which the Contract Area is situated to enforce the obligations of each party hereunder. Without limiting the generality of the foregoing, to the extent permitted by applicable law, Non-Operators agree that Operator may invoke or utilize the mechanics' or materialmen's lien law of the state in which the Contract Area is situated in order to secure the payment to Operator of any sum due hereunder for services performed or materials supplied by Operator. **C. Advances:** 

Operator, at its election, shall have the right from time to time to demand and receive from one or more of the other parties payment in advance of their respective shares of the estimated amount of the expense to be incurred in operations hereunder during the next succeeding month, which right may be exercised only by submission to each such party of an itemized statement of such estimated expense, together with an invoice for its share thereof. Each such statement and invoice for the payment in advance of estimated expense shall be submitted on or before the 20th day of the next preceding month. Each party shall pay to Operator its proportionate share of such estimate within fifteen (15) days after such estimate and invoice is received. If any party fails to pay its share of said estimate within said time, the amount due shall bear interest as provided in Exhibit "C" until paid. Proper adjustment shall be made monthly between advances and actual expense to the end that each party shall bear and pay its proportionate share of actual expenses incurred, and no more.

#### D. Defaults and Remedies:

If any party fails to discharge any financial obligation under this agreement, including without limitation the failure to make any advance under the preceding Article VII.C. or any other provision of this agreement, within the period required for such payment hereunder, then in addition to the remedies provided in Article VII.B. or elsewhere in this agreement, the remedies specified below shall be applicable. For purposes of this Article VII.D., all notices and elections shall be delivered

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only by Operator, except that Operator shall deliver any such notice and election requested by a non-defaulting Non-Operator, and when Operator is the party in default, the applicable notices and elections can be delivered by any Non-Operator. Election of any one or more of the following remedies shall not preclude the subsequent use of any other remedy specified below or otherwise available to a non-defaulting party.

- 1. Suspension of Rights: Any party may deliver to the party in default a Notice of Default, which shall specify the default, specify the action to be taken to cure the default, and specify that failure to take such action will result in the exercise of one or more of the remedies provided in this Article. If the default is not cured within thirty (30) days of the delivery of such Notice of Default, all of the rights of the defaulting party granted by this agreement may upon notice be suspended until the default is cured, without prejudice to the right of the non-defaulting party or parties to continue to enforce the obligations of the defaulting party previously accrued or thereafter accruing under this agreement. If Operator is the party in default, the Non-Operators shall have in addition the right, by vote of Non-Operators owning a majority in interest in the Contract Area after excluding the voting interest of Operator, to appoint a new Operator effective immediately. The rights of a defaulting party that may be suspended hereunder at the election of the non-defaulting parties shall include, without limitation, the right to receive information as to any operation conducted hereunder during the period of such default, the right to elect to participate in an operation proposed under Article VI.B. of this agreement, the right to participate in an operation, and the right to receive proceeds of production from any well subject to this agreement.
- 2. <u>Suit for Damages:</u> Non-defaulting parties or Operator for the benefit of non-defaulting parties may sue (at joint account expense) to collect the amounts in default, plus interest accruing on the amounts recovered from the date of default until the date of collection at the rate specified in Exhibit "C" attached hereto. Nothing herein shall prevent any party from suing any defaulting party to collect consequential damages accruing to such party as a result of the default.
- 3. <u>Deemed Non-Consent:</u> The non-defaulting party may deliver a written Notice of Non-Consent Election to the defaulting party at any time after the expiration of the thirty-day cure period following delivery of the Notice of Default, in which event if the billing is for the drilling a new well or the Plugging Back, Sidetracking, Reworking or Deepening of a well which is to be or has been plugged as a dry hole, or for the Completion or Recompletion of any well, the defaulting party will be conclusively deemed to have elected not to participate in the operation and to be a Non-Consenting Party with respect thereto under Article VI.B. or VI.C., as the case may be, to the extent of the costs unpaid by such party, notwithstanding any election to participate theretofore made. If election is made to proceed under this provision, then the non-defaulting parties may not elect to sue for the unpaid amount pursuant to Article VII.D.2.

Until the delivery of such Notice of Non-Consent Election to the defaulting party, such party shall have the right to cure its default by paying its unpaid share of costs plus interest at the rate set forth in Exhibit "C," provided, however, such payment shall not prejudice the rights of the non-defaulting parties to pursue remedies for damages incurred by the non-defaulting parties as a result of the default. Any interest relinquished pursuant to this Article VII.D.3. shall be offered to the non-defaulting parties in proportion to their interests, and the non-defaulting parties electing to participate in the ownership of such interest shall be required to contribute their shares of the defaulted amount upon their election to participate therein.

- 4. Advance Payment: If a default is not cured within thirty (30) days of the delivery of a Notice of Default, Operator, or Non-Operators if Operator is the defaulting party, may thereafter require advance payment from the defaulting party of such defaulting party's anticipated share of any item of expense for which Operator, or Non-Operators, as the case may be, would be entitled to reimbursement under any provision of this agreement, whether or not such expense was the subject of the previous default. Such right includes, but is not limited to, the right to require advance payment for the estimated costs of drilling a well or Completion of a well as to which an election to participate in drilling or Completion has been made. If the defaulting party fails to pay the required advance payment, the non-defaulting parties may pursue any of the remedies provided in the Article VII.D. or any other default remedy provided elsewhere in this agreement. Any excess of funds advanced remaining when the operation is completed and all costs have been paid shall be promptly returned to the advancing party.
- 5. <u>Costs and Attorneys' Fees:</u> In the event any party is required to bring legal proceedings to enforce any financial obligation of a party hereunder, the prevailing party in such action shall be entitled to recover all court costs, costs of collection, and a reasonable attorney's fee, which the lien provided for herein shall also secure.

#### E. Rentals, Shut-in Well Payments and Minimum Royalties:

Rentals, shut-in well payments and minimum royalties which may be required under the terms of any lease shall be paid by the party or parties who subjected / such lease to this agreement at its or their expense. In the event two or more parties own and have contributed interests in the same lease to this agreement, such parties may designate one of such parties to make said payments for and on behalf of all such parties. Any party may request, and shall be entitled to receive, proper evidence of all such payments. In the event of failure to make proper payment of any rental, shut-in well payment or minimum royalty through mistake or oversight where such payment is required to continue the lease in force, any loss which results from such non-payment shall be borne in accordance with the provisions of Article IV.B.2.

Operator shall notify Non-Operators of the anticipated completion of a shut-in well, or the shutting in or return to production of a producing well, at least five (5) days (excluding Saturday, Sunday, and legal holidays) prior to taking such action, or at the earliest opportunity permitted by circumstances, but assumes no liability for failure to do so. In the event of failure by Operator to so notify Non-Operators, the loss of any lease contributed hereto by Non-Operators for failure to make timely payments of any shut-in well payment shall be borne jointly by the parties hereto under the provisions of Article IV.B.3.

#### F. Taxes:

Beginning with the first calendar year after the effective date hereof, Operator shall render for ad valorem taxation all property subject to this agreement which by law should be rendered for such taxes, and it shall pay all such taxes assessed thereon before they become delinquent. Prior to the rendition date, each Non-Operator shall furnish Operator information as to burdens (to include, but not be limited to, royalties, overriding royalties and production payments) on Leases and Oil and Gas Interests contributed by such Non-Operator. If the assessed valuation of any Lease is reduced by reason of its being subject to outstanding excess royalties, overriding royalties or production payments, the reduction in ad valorem taxes resulting therefrom shall inure to the benefit of the owner or owners of such Lease, and Operator shall adjust the charge to such owner or owners so as to reflect the benefit of such reduction. If the ad valorem taxes are based in whole or in part upon separate valuations of each party's working interest, then notwithstanding anything to the contrary herein, charges to the joint account shall be made and paid by the parties hereto in accordance with the tax value generated by each party's working interest. Operator shall bill the other parties for their proportionate shares of all tax payments in the manner provided in Exhibit "C."

If Operator considers any tax assessment improper, Operator may, at its discretion, protest within the time and manner prescribed by law, and prosecute the protest to a final determination, unless all parties agree to abandon the protest prior to final determination. During the pendency of administrative or judicial proceedings, Operator may elect to pay, under protest, all such taxes and any interest and penalty. When any such protested assessment shall have been finally determined, Operator shall pay the tax for the joint account, together with any interest and penalty accrued, and the total cost shall then be assessed against the parties, and be paid by them, as provided in Exhibit "C."

Each party shall pay or cause to be paid all production, severance, excise, gathering and other taxes imposed upon or with respect to the production or handling of such party's share of Oil and Gas produced under the terms of this agreement.

#### ARTICLE VIII.

#### ACQUISITION, MAINTENANCE OR TRANSFER OF INTEREST

#### A. Surrender of Leases:

The Leases covered by this agreement, insofar as they embrace acreage in the Contract Area, shall not be surrendered in whole or in part unless all parties consent thereto-; however, no consent shall be necessary to release a lease which has expired or otherwise terminated in accordance with its terms.

Should

However, should / any party desire to surrender its interest in any Lease or in any portion thereof, such party shall give written

notice of the proposed surrender to all parties, and the parties to whom such notice is delivered shall have thirty (30) days after delivery of the notice within which to notify the party proposing the surrender whether they elect to consent thereto. Failure of a party to whom such notice is delivered to reply within said 30-day period shall constitute a consent to the surrender of the Leases described in the notice. If all parties do not agree or consent thereto, the party desiring to surrender shall assign, without express or implied warranty of title, all of its interest in such Lease, or portion thereof, and any well, material and equipment which may be located thereon and any rights in production thereafter secured, to the parties not consenting to such surrender. If the interest of the assigning party is or includes an Oil and Gas Interest, the assigning party shall execute and deliver to the party or parties not consenting to such surrender an oil and gas lease covering such Oil and Gas Interest for a term of one (1) year and so long thereafter as Oil and/or Gas is produced from the land covered thereby, such lease to be on the form attached hereto as Exhibit "B." Upon such assignment or lease, the assigning party shall be relieved from all obligations thereafter accruing, but not theretofore accrued, with respect to the interest assigned or leased and the operation of any well attributable thereto, and the assigning party shall have no further interest in the assigned or leased premises and its equipment and production other than the royalties retained in any lease made under the terms of this Article. The party assignee or lessee shall pay to the party assignor or lessor the reasonable salvage value of the latter's interest in any well's salvable materials and equipment attributable to the assigned or leased acreage. The value of all salvable materials and equipment shall be determined in accordance with the provisions of Exhibit "C," less the estimated cost of salvaging and the estimated cost of plugging and abandoning and restoring the surface. If such value is less than such costs, then the party assignor or lessor shall pay to the party assignee or lessee the amount of such deficit. If the assignment or lease is in favor of more than one party, the interest shall be shared by such parties in the proportions that the interest of each bears to the total interest of all such parties. If the interest of the parties to whom the assignment is to be made varies according to depth, then the interest assigned shall similarly reflect such variances.

Any assignment, lease or surrender made under this provision shall not reduce or change the assignor's, lessor's or surrendering party's interest as it was immediately before the assignment, lease or surrender in the balance of the Contract Area; and the acreage assigned, leased or surrendered, and subsequent operations thereon, shall not thereafter be subject to the terms and provisions of this agreement but shall be deemed subject to an Operating Agreement in the form of this agreement.

#### **B.** Renewal or Extension of Leases:

If any party secures a renewal or replacement of an Oil and Gas Lease or Interest subject to this agreement, then all other parties shall be notified promptly upon such acquisition or, in the case of a replacement Lease taken before expiration of an existing Lease, promptly upon expiration of the existing Lease. The parties notified shall have the right for a period of thirty (30) days following delivery of such notice in which to elect to participate in the ownership of the renewal or replacement Lease, insofar as such Lease affects lands within the Contract Area, by paying to the party who acquired it their proportionate shares of the acquisition cost allocated to that part of such Lease within the Contract Area, which shall be in proportion to the interest held at that time by the parties in the Contract Area. Each party who participates in the purchase of a renewal or replacement Lease shall be given an assignment of its proportionate interest therein by the acquiring party.

If some, but less than all, of the parties elect to participate in the purchase of a renewal or replacement Lease, it shall be owned by the parties who elect to participate therein, in a ratio based upon the relationship of their respective percentage of participation in the Contract Area to the aggregate of the percentages of participation in the Contract Area of all parties participating in the purchase of such renewal or replacement Lease. The acquisition of a renewal or replacement Lease by any or all of the parties hereto shall not-cause a readjustment of the interests of the parties stated in Exhibit "A" / but and any renewal or replacement Lease in which less than all parties elect to participate shall not-be subject to this agreement—but shall be deemed subject to a separate Operating Agreement in the form of this agreement.

If the interests of the parties in the Contract Area vary according to depth, then their right to participate proportionately in renewal or replacement Leases and their right to receive an assignment of interest shall also reflect such depth variances.

The provisions of this Article shall apply to renewal or replacement Leases whether they are for the entire interest covered by the expiring Lease or cover only a portion of its area or an interest therein. Any renewal or replacement Lease taken before the expiration of its predecessor Lease, or taken or contracted for or becoming effective within six (6) months after the expiration of the existing Lease, shall be subject to this provision so long as this agreement is in effect at the time of such acquisition or at the time the renewal or replacement Lease becomes effective; but any Lease taken or contracted for more than six (6) months after the expiration of an existing Lease shall not be deemed a renewal or replacement Lease and shall not be subject to the provisions of this agreement.

The provisions in this Article shall / <del>also</del> be applicable to extensions of Oil and Gas Leases.

# C. Acreage or Cash Contributions:

While this agreement is in force, if any party contracts for a contribution of cash towards the drilling of a well or any other operation on the Contract Area, such contribution shall be paid to the party who conducted the drilling or other operation and shall be applied by it against the cost of such drilling or other operation. If the contribution be in the form of acreage, the party to whom the contribution is made shall promptly tender an assignment of the acreage, without warranty of title, to the Drilling Parties in the proportions said Drilling Parties shared the cost of drilling the well. Such acreage shall become a separate Contract Area and, to the extent possible, be governed by provisions identical to this agreement. Each party shall promptly notify all other parties of any acreage or cash contributions it may obtain in support of any well or any other operation on the Contract Area. The above provisions shall also be applicable to optional rights to earn acreage outside the Contract Area which are in support of well drilled inside Contract Area.

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If any party contracts for any consideration relating to disposition of such party's share of substances produced hereunder, such consideration shall not be deemed a contribution as contemplated in this Article VIII.C.

#### D. Assignment; Maintenance of Uniform Interest:

72.

For the purpose of maintaining uniformity of ownership in the Contract Area in the Oil and Gas Leases, Oil and Gas Interests, wells, equipment and production covered by this agreement no party shall sell, encumber, transfer or make other disposition of its interest in the Oil and Gas Leases and Oil and Gas Interests embraced within the Contract Area or in wells, equipment and production unless such disposition covers either:

- 1. the entire interest of the party in all Oil and Gas Leases, Oil and Gas Interests, wells, equipment and production; or
  - 2. an equal undivided percent of the party's present interest in all Oil and Gas Leases, Oil and Gas Interests, wells, equipment and production in the Contract Area.

Every sale, encumbrance, transfer or other disposition made by any party shall be made expressly subject to this agreement and shall be made without prejudice to the right of the other parties, and any transferee of an ownership interest in any Oil and Gas Lease or Interest shall be deemed a party to this agreement as to the interest conveyed from and after the effective date of the transfer of ownership; provided, however, that the other parties shall not be required to recognize any such sale, encumbrance, transfer or other disposition for any purpose hereunder until thirty (30) days after they have received a copy of the instrument of transfer or other satisfactory evidence thereof in writing from the transferor or transferee. No assignment or other disposition of interest by a party shall relieve such party of obligations previously incurred by such party hereunder with respect to the interest transferred, including without limitation the obligation of a party to pay all costs attributable to an operation conducted hereunder in which such party has agreed to participate prior to making such assignment, and the lien and security interest granted by Article VII.B. shall continue to burden the interest transferred to secure payment of any such obligations.

If, at any time the interest of any party is divided among and owned by four or more co-owners, Operator, at its discretion, may require such co-owners to appoint a single trustee or agent with full authority to receive notices, approve expenditures, receive billings for and approve and pay such party's share of the joint expenses, and to deal generally with, and with power to bind, the co-owners of such party's interest within the scope of the operations embraced in this agreement; however, all such co-owners shall have the right to enter into and execute all contracts or agreements for the disposition of their respective shares of the Oil and Gas produced from the Contract Area and they shall have the right to receive, separately, payment of the sale proceeds thereof.

#### 28 Also see Article XVI.D.

#### E. Waiver of Rights to Partition:

If permitted by the laws of the state or states in which the property covered hereby is located, each party hereto owning an undivided interest in the Contract Area waives any and all rights it may have to partition and have set aside to it in severalty its undivided interest therein.

#### F. Preferential Right to Purchase

☐─(Optional: Check if applicable)

Should any party desire to sell all or any part of its interests under this agreement, or its rights and interests in the Contract Area, it shall promptly give written notice to the other parties, with full information concerning its proposed disposition, which shall include the name and address of the prospective transferee (who must be ready, willing and able to purchase), the purchase price, a legal description sufficient to identify the property, and all other terms of the offer. The other parties shall then have an optional prior right, for a period of ten (10) days after notice is delivered, to purchase for the stated consideration on the same terms and conditions the interest which the other party proposes to sell; and, if this optional right is exercised, the purchasing parties shall share the purchased interest in the proportions that the interest of each bears to the total interest of all purchasing parties. However, there shall be no preferential right to purchase in those cases where any party wishes to mortgage its interests, or to transfer title to its interest to its mortgage in lieu of or pursuant to foreclosure of a mortgage of its interests, or to dispose of its interests by merger, reorganization, consolidation, or by sale of all or substantially all of its Oil and Gas assets to any party, or by transfer of its interests to a subsidiary or parent company or to a subsidiary of a parent company, or to any company in which such party owns a majority of the stock.

#### ARTICLE IX.

#### INTERNAL REVENUE CODE ELECTION

If, for federal income tax purposes, this agreement and the operations hereunder are regarded as a partnership, and if the parties have not otherwise agreed to form a tax partnership pursuant to Exhibit "G" or other agreement between them, each party thereby affected elects to be excluded from the application of all of the provisions of Subchapter "K," Chapter 1, Subtitle "A," of the Internal Revenue Code of 1986, as amended ("Code"), as permitted and authorized by Section 761 of the Code and the regulations promulgated thereunder. Operator is authorized and directed to execute on behalf of each party hereby affected such evidence of this election as may be required by the Secretary of the Treasury of the United States or the Federal Internal Revenue Service, including specifically, but not by way of limitation, all of the returns, statements, and the data required by Treasury Regulation §1.761. Should there be any requirement that each party hereby affected give further evidence of this election, each such party shall execute such documents and furnish such other evidence as may be required by the Federal Internal Revenue Service or as may be necessary to evidence this election. No such party shall give any notices or take any other action inconsistent with the election made hereby. If any present or future income tax laws of the state or states in which the Contract Area is located or any future income tax laws of the United States contain provisions similar to those in Subchapter "K," Chapter 1, Subtitle "A," of the Code, under which an election similar to that provided by Section 761 of the Code is permitted, each party hereby affected shall make such election as may be permitted or required by such laws. In making the foregoing election, each such party states that the income derived by such party from operations hereunder can be adequately determined without the computation of partnership taxable income.

#### ARTICLE X.

#### CLAIMS AND LAWSUITS

Operator may settle any single uninsured third party damage claim or suit arising from operations hereunder if the expenditure does not exceed Fifty Thousand Dollars (\$50,000.00) and if the payment is in complete settlement of such claim or suit. If the amount required for settlement exceeds the above amount, the parties hereto shall assume and take over the further handling of the claim or suit, unless such authority is delegated to Operator. All costs and expenses of handling settling, or otherwise discharging such claim or suit shall be a the joint expense of the parties participating in the operation from which the claim or suit arises. If a claim is made against any party or if any party is sued on account of any matter arising from operations hereunder over which such individual has no control because of the rights given Operator by this agreement, such party shall immediately notify all other parties, and the claim or suit shall be treated as any other claim or suit involving operations hereunder.

1 ARTICLE XI.
2 FORCE MAJEURE

If any party is rendered unable, wholly or in part, by force majeure to carry out its obligations under this agreement, other than the obligation to indemnify or make money payments or furnish security, that party shall give to all other parties prompt written notice of the force majeure with reasonably full particulars concerning it; thereupon, the obligations of the party giving the notice, so far as they are affected by the force majeure, shall be suspended during, but no longer than, the continuance of the force majeure. The term "force majeure," as here employed, shall mean an act of God, strike, lockout, or other industrial disturbance, act of the public enemy, war, blockade, public riot, lightening, fire, storm, flood or other act of nature, explosion, governmental action, governmental delay, restraint or inaction, unavailability of equipment, and any other cause, whether of the kind specifically enumerated above or otherwise, which is not reasonably within the control of the party claiming suspension.

The affected party shall use all reasonable diligence to remove the force majeure situation as quickly as practicable. The requirement that any force majeure shall be remedied with all reasonable dispatch shall not require the settlement of strikes, lockouts, or other labor difficulty by the party involved, contrary to its wishes; how all such difficulties shall be handled shall be entirely within the discretion of the party concerned.

ARTICLE XII.

NOTICES

All notices authorized or required between the parties by any of the provisions of this agreement, unless otherwise specifically provided, shall be in writing and delivered in person or by United States mail, courier service, / telegram, telex, telecopier or any other form of facsimile, postage or charges prepaid, and addressed to such parties at the addresses listed on Exhibit "A." All telephone or oral notices permitted by this agreement shall be confirmed immediately thereafter by written notice. The originating notice given under any provision hereof shall be deemed delivered only when received by the party to whom such notice is directed, and the time for such party to deliver any notice in response thereto shall run from the date the originating notice is received. "Receipt" for purposes of this agreement with respect to written notice delivered hereunder shall be actual delivery of the notice to the address of the party to be notified specified in accordance with this agreement, or to the telecopy, facsimile / or telex machine of such party. The second or any responsive notice shall be deemed delivered when electronic mail, deposited in the United States mail or at the office of the courier or telegraph service, or upon transmittal by telex, / telecopy or facsimile, or when personally delivered to the party to be notified, provided, that when response is required within 24 or 48 hours, such response shall be given orally or by telephone, telex, / telecopy or other facsimile within such period. Each party shall have the right to change its address at any time, and from time to time, by giving written notice thereof to all other parties. If a party is not available to receive notice orally or by telephone when a party attempts to deliver a notice required to be delivered within 24 or 48 hours, the notice may be delivered in writing by any other method specified herein and shall be deemed delivered in the same manner provided above for any responsive notice.

ARTICLE XIII.

#### TERM OF AGREEMENT

This agreement shall remain in full force and effect as to the Oil and Gas Leases and/or Oil and Gas Interests subject hereto for the period of time selected below; provided, however, no party hereto shall ever be construed as having any right, title or interest in or to any Lease or Oil and Gas Interest contributed by any other party beyond the term of this agreement. **See Article XVI.N.** 

Option No. 1: So long as any of the Oil and Gas Leases subject to this agreement remain or are continued in force as to any part
 of the Contract Area, whether by production, extension, renewal or otherwise

The termination of this agreement shall not relieve any party hereto from any expense, liability or other obligation or any remedy therefor which has accrued or attached prior to the date of such termination.

Upon termination of this agreement and the satisfaction of all obligations hereunder, in the event a memorandum of this Operating Agreement has been filed of record, Operator is authorized to file of record in all necessary recording offices a notice of termination, and each party hereto agrees to execute such a notice of termination as to Operator's interest, upon request of Operator, if Operator has satisfied all its financial obligations.

# ARTICLE XIV.

# COMPLIANCE WITH LAWS AND REGULATIONS

#### A. Laws, Regulations and Orders:

This agreement shall be subject to the applicable laws of the state in which the Contract Area is located, to the valid rules, regulations, and orders of any duly constituted regulatory body of said state; and to all other applicable federal, state, and local laws, ordinances, rules, regulations and orders.

### B. Governing Law:

This agreement and all matters pertaining hereto, including but not limited to matters of performance, non-performance, breach, remedies, procedures, rights, duties, and interpretation or construction, shall be governed and determined by the law of the state in which the Contract Area is located. If the Contract Area is in two or more states, the law of the state of shall govern.

# C. Regulatory Agencies:

Nothing herein contained shall grant, or be construed to grant, Operator the right or authority to waive or release any rights, privileges, or obligations which Non-Operators may have under federal or state laws or under rules, regulations or

orders promulgated under such laws in reference to oil, gas and mineral operations, including the location, operation, or production of wells, on tracts offsetting or adjacent to the Contract Area.

With respect to the operations hereunder, Non-Operators agree to release Operator from any and all losses, damages, injuries, claims and causes of action arising out of, incident to or resulting directly or indirectly from Operator's interpretation or application of rules, rulings, regulations or orders of the Department of Energy or Federal Energy Regulatory Commission or predecessor or successor agencies to the extent such interpretation or application was made in good faith and does not constitute gross negligence. Each Non-Operator further agrees to reimburse Operator for such Non-Operator's share of production or any refund, fine, levy or other governmental sanction that Operator may be required to pay as a result of such an incorrect interpretation or application, together with interest and penalties thereon owing by Operator as a result of such incorrect interpretation or application.

# ARTICLE XV. MISCELLANEOUS

#### A. Execution:

This agreement shall be binding upon each Non-Operator when this agreement or a counterpart thereof has been executed by such Non-Operator and Operator notwithstanding that this agreement is not then or thereafter executed by all of the parties to which it is tendered or which are listed on Exhibit "A" as owning an interest in the Contract Area or which own, in fact, an interest in the Contract Area. Operator may, however, by written notice to all Non-Operators who have become bound by this agreement as aforesaid, given at any time prior to the actual spud date of the Initial Well but in no event later than five days prior to the date specified in Article VI.A. for commencement of the Initial Well, terminate this agreement if Operator in its sole discretion determines that there is insufficient participation to justify commencement of drilling operations. In the event of such a termination by Operator, all further obligations of the parties hereunder shall cease as of such termination. In the event any Non-Operator has advanced or prepaid any share of drilling or other costs hereunder, all sums so advanced shall be returned to such Non-Operator without interest. In the event Operator proceeds with drilling operations for the Initial Well without the execution hereof by all persons listed on Exhibit "A" as having a current working interest in such well, Operator shall indemnify Non-Operators with respect to all costs incurred for the Initial Well which would have been charged to such person under this agreement if such person had executed the same and Operator shall receive all revenues which would have been received by such person under this agreement if such person had executed the same.

#### B. Successors and Assigns:

This agreement shall be binding upon and shall inure to the benefit of the parties hereto and their respective heirs, devisees, legal representatives, successors and assigns, and the terms hereof shall be deemed to run with the Leases or Interests included within the Contract Area.

#### C. Counterparts:

This instrument may be executed in any number of counterparts, each of which shall be considered an original for all purposes.

#### D. Severability:

For the purposes of assuming or rejecting this agreement as an executory contract pursuant to federal bankruptcy laws, this agreement shall not be severable, but rather must be assumed or rejected in its entirety, and the failure of any party to this agreement to comply with all of its financial obligations provided herein shall be a material default.

# ARTICLE XVI. OTHER PROVISIONS

#### A. Conflicts:

Notwithstanding anything herein contained to the contrary, it is understood and agreed that if there is any conflict between any part of or all of the terms and provisions of Article XVI and any other terms and provisions of this agreement, the terms and provisions of this Article XVI shall prevail and control.

This agreement is subject to all the terms and provisions of that certain Unit Agreement for the Development of the Surratt Unit dated May 16, 2017, to which a copy of this agreement is attached (hereinafter the "Unit Agreement"). In the event of a conflict between the provisions of this agreement, including this Article XVI, and the Unit Agreement, the provisions of this agreement, including this Article XVI, shall prevail and control.

This Operating Agreement is intended to cover the parties' respective interests in the Unitized Formation.

#### B. Priority of Operations:

If at any time there is more than one operation proposed in connection with any well subject to this agreement and if the Consenting Parties do not agree on the sequence of proposed operations, such proposed operations shall be conducted in the following sequence:

First: testing, coring or logging;

Second: completion attempts without plugging back in ascending order from deepest to shallowest depths;

Third: sidetracking in the order of least deviation from the original bottom hole location to the greatest deviation;

Fourth: deepening of a well below the authorized depth in descending order from shallowest to deepest depths;

Fifth: plugging back and completion attempts in ascending order from deepest to shallowest depths.

# C. Netting and Setoff:

Except for any payments related to charges on any joint interest billing that a Non-Operator has disputed in good faith, in the event that Non-Operator does not remit payment for any operating costs or charges assessable to Non-Operators and permitted under this Operating Agreement within forty five (45) days after the date payment is due, Operator is authorized to deduct such costs or charges, and to remit to such Non-Operators their respective net share of any proceeds attributable to the interest of such Non-Operators being received directly from any purchasers of production from the Contract Area. The foregoing provisions shall not diminish Operator's lien rights contained within this agreement.

#### D. Multiple Billing:

In no event shall Operator be required to make more than four billings for the entire interest credited to each Non-Operator on Exhibit "A". If any Non-Operator to this agreement disposes of any part or all of the interest credited to it on Exhibit "A", hereinafter referred to as "Selling Party," such Selling Party shall be solely responsible for billing its assignee or assignees and shall remain primarily

liable to the other Parties for the interest or interests assigned until such time as Selling Party has (1) designated and qualified the assignees to receive the billing for its interest, (2) designated assignees have been approved and accepted by Operator, and (3) has furnished to Operator written notice of the conveyance and photocopy of the recorded assignments by which the transfer is made. The

sale or other disposition of any interest in the leases covered by this agreement shall be made specifically subject to the provisions of this Article. Operator's approval shall not be unreasonably withheld.

#### E. Horizontal Wells:

1. Notwithstanding anything contained herein to the contrary, (i) the provisions of Article VI.C.I <u>Option No. 1</u> shall apply to any Horizontal Well or Multi-lateral Well proposed hereunder, and (ii) the provisions of Article VI.C.1. <u>Option No. 2</u> shall apply to

all other wells proposed hereunder that are not expressly proposed as Horizontal Wells or Multi-lateral Wells. To be effective as a Horizontal Well Proposal, such proposal must include an AFE, the corresponding anticipated Unit and Contract Area size and dimensions within which the well will be drilled, and other accompanying documents that clearly indicate the well being proposed is

a Horizontal Well or Multi-lateral Well. As to any possible conflicts that may arise during the completion phase of a Horizontal Well or Multi-lateral Well, priority shall be given first to a Lateral drain hole of the authorized depth, and then to objective formations in ascending order above the authorized depth, and then to objective formations in descending order below the authorized depth.

2. Operator shall have the right to cease drilling a Horizontal Well or Multi-lateral Well at any time, for any reason, and such Horizontal Well or Multi-lateral Well shall be deemed to have reached its objective depth so long as Operator has drilled such Horizontal Well or Multi-lateral Well to the objective formation and has drilled laterally in the objective formation for a distance which is at least equal to fifty percent (50%) of the length of the total horizontal drainhole displacement (displacement from true vertical) proposed for the operation. In like manner, Operator may continue drilling to extend a proposed lateral in a Horizontal Well or Multi-lateral Well up to 10% longer than the length proposed in the proposal approved by the Parties if in Operator's sole judgment, it would be reasonably prudent to do so.

#### F. Sidetracking:

Notwithstanding the provisions of Article VI.B(5), "Sidetracking", such paragraph shall not be applicable to operations in the lateral portion of a Horizontal Well or Multi-lateral Well. Drilling operations which are intended to recover penetration of the target interval which are conducted in a Horizontal Well or Multi-lateral Well shall be considered as included in the original proposed drilling operations.

#### G. Further Assurances:

In connection with this agreement, the parties agree to execute and deliver such additional documents and instruments and to perform such additional acts as may be necessary or appropriate to effectuate, carry out, and perform all the terms, provisions and conditions of this agreement.

#### H. Covenants Running with the Land:

The terms, provisions, covenants and conditions of this agreement shall be deemed to be covenants running with the lands, the lease or leases and leasehold estate covered hereby, and all of the terms, provisions, covenants and conditions of this agreement shall

be binding upon and inure to the benefit of the parties hereto, their respective successors and assigns.

#### I. Headings:

All headings in this agreement are for reference purposes only and have no binding effect on the terms, conditions or provisions of this agreement.

#### J. Indemnity for Access to Contract Area:

Each Non-Operator shall indemnify and hold Operator harmless against any and all liability in excess of insurance coverage carried for the joint account for injury to each such Non-Operator's officers, employees and/or agents resulting from and in any way relating to such officers', employees', and/or agents' presence on the Contract Area. The Non-Operators indemnity to Operator shall also apply to any other person whose presence on the Contract Area is at the insistence of such Non-Operator.

#### K. Working Interest Adjustment:

Subject to approval by the State, any recalculation or adjustment of the Parties' Exhibit "A" working interests pursuant to Articles VIII.A, VIII.B, XVI.L or XVI.N of this Agreement shall be recalculated or adjusted after written notice is provided to the affected party(ies) of such recalculation or adjustment of working interest. Such recalculation or adjustment shall be made effective as of the date of the lease surrender, renewal, acquisition and/or Contract Area / Drilling Unit Adjustment; provided, however, any such recalculation or adjustment to the Parties' working interests prior to the date of the first sale of production from such Drilling Unit shall be made effective as of the date first costs were incurred on and for such Drilling Unit.

This Article XVI.M shall not apply to loss or failure of title pursuant to Article IV.B of this Agreement.

# L. Contract Area / Drilling Unit Adjustment:

Subject to approval by the State, it is recognized by the Parties consenting to unit operations that it may be prudent and/or necessary to enlarge or reduce the size of an existing Contract Area / Drilling Unit and/or include within an existing Contract Area

Drilling Unit acreage which was not initially included therein. Without the consent of the Parties consenting to unit operations, an existing Contract Area / Drilling Unit may not be enlarged or reduced in size. Such consent shall not be unreasonably withheld, delayed or conditioned. The party proposing such enlargement or reduction to an existing Contract Area / Drilling Unit shall notify

the other party(ies) consenting to unit operations in writing, providing an explanation for the Contract Area / Drilling Unit modification proposal. To the extent a Contract Area / Drilling Unit is modified pursuant to this Agreement, the working interests of the Parties consenting to unit operations shall be recalculated in the manner set forth in Article XVI L.4. and XVI.M and a modified declaration of pooled unit shall be prepared and filed of record.

To the extent the Contract Area is modified pursuant to this Agreement, this Agreement shall be amended with revised Exhibits

**"A," "A-1," and "A-2."** 

This Article XVI.L shall not apply to the loss or failure of title pursuant to Article IV.B of this Agreement.

#### 65 M. Voting by the Parties

Unless otherwise provided for herein, each party to this agreement shall have a voting interest equal to its Unit Participation. All decisions, determinations, consents or approvals of the parties, unless otherwise provided for herein or in the Unit Agreement attached hereto, shall be made by the affirmative vote of one or more parties having a combined voting interest of at least fifty-one percent (51%).

#### N. Term

This Agreement shall continue in effect so long as the Unit Agreement remains in effect, and thereafter until (a) all wells in the Unit Area have been plugged and abandoned or turned over to Working Interest Owners; (b) all Unit Equipment and real property

acquired for the joint account have been disposed of by Unit Operator in accordance with the instructions of Working Interest Owners; and (c) there has been a final accounting.

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1 2

# A.A.P.L. FORM 610 - MODEL FORM OPERATING AGREEMENT – 1989

IN WITNESS WHEREOF, this	agreement shall be effe	ective as of the day of
that the form was printed from and, with t Operating Agreement, as published in modifications, other than those made by	the exception(s) listed by computerized form strikethrough and/or	reculated this form for execution, represents and warrant below, is identical to the AAPL Form 610-1989 Model Form by Forms On-A-Disk, Inc. No changes, alterations, or insertion and that are clearly recognizable as changes.
	OPERA	ATOR
ATTEST OR WITNESS		Chesapeake Exploration, L.L.C. An Oklahoma limited liability company
	Bv:	Jim R. Dewbre
	Бу.	Jill K. Dewore
	Title:	Vice President – Land Chesapeake E&P Holding Corporation, Manager
	Address:	6100 North Western Ave., Oklahoma City, OK 73118

### **EXHIBIT "A"**

Attached to and made a part of that certain Unit Operating Agreement dated May 16, 2017, as approved by the Ohio Department of Natural Resources for the Surratt Unit.

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# (1) Identification of lands subject to this agreement.

The Contract Area is shown on Exhibit "A-1" attached hereto.

# (2) Restrictions as to depths and formations.

This Agreement shall cover the Unit Area from fifty feet above the top of the Utica Shale formation to fifty feet below the base of the Point Pleasant formation (as more particularly defined in Article 1 of the Unit Agreement).

#### (3) Percentages or fractional interests of parties to this agreement\*

OPERATOR	Working Interest
Chesapeake Exploration, LLC	62.4604%*
Chesapeake Exploration, LLC – 50% Leased	2.6927%*
COMMITTED WORKING INTEREST OWNER	
Enervest Operating, LLC	6.8031%*
NON OPERATOR	
Antero Resources Corporation	10.5701%*
Gulfport Energy Corporation	10.3709%*
Ascent Resources-Utica, LLC	1.0967%*
RHDK Oil & Gas, LLC	0.1448%*
Unleased Mineral Owners	5.8613%*

# (4) Oil and gas leases and/or oil and gas interests subject to this agreement.

See Exhibits "A-2" for a list of the oil and gas leases and interests subject to this agreement.

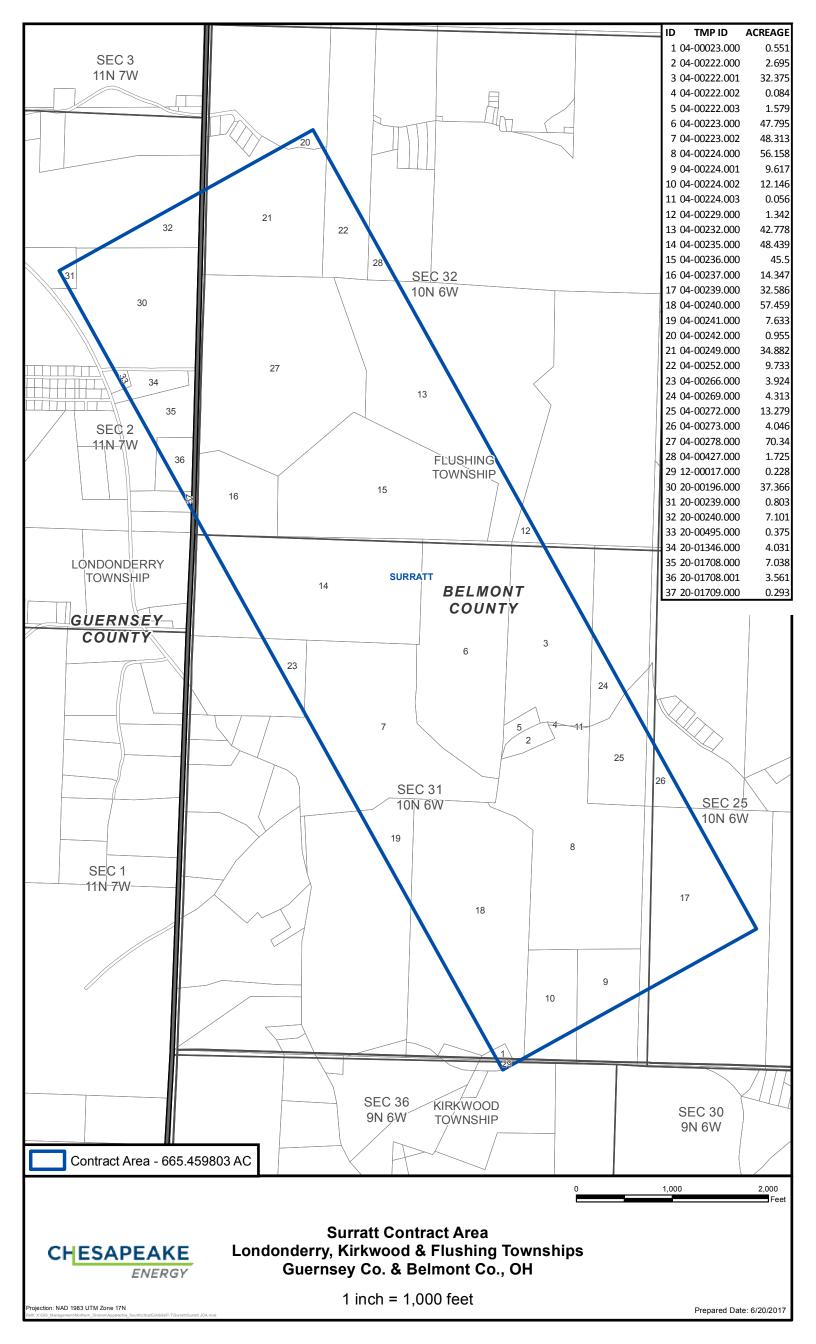
#### (5) Addresses of parties for notice purposes.

Chesapeake Exploration, L.L.C. P. O. Box 18496 Oklahoma City, Oklahoma 73154-0496

Attention: Jim R. Dewbre, Vice President - Land

The names and addresses of the remaining parties are set forth in Exhibit "A-3" attached hereto.

<sup>\*</sup>It is understood by the parties that the working interests listed in this Unit Operating Agreement (and any attachments hereto) are estimates only and are subject to change based upon final verification of title, due diligence, additional leasehold acquired within the Contract Area, and/or the participation or non-participation of unleased mineral interests and/or third parties. The parties' interests shall be adjusted to reflect the actual interest owned by the parties in the Contract Area.



# Exhibit "A-2" Leases Within the Contract Area

										Attached to and r	nade a part of that cer	rtain Unit Operating Agreem	ent dated May 16, 2017 a	s approved by the Ohio De	epartment of Natural Hesou	urces for the Surratt Unit.											
TRACT NUMBER	CHESAPEAKE LEASE ID NUMBER	LESSOR AND/OR CURRENT MINERAL OWNER(S)	LEASED YES/NO		SURFACE ACRES IN UNIT	TRACT PARTICIPATION	TAX MAP PARCEL ID NUMBERS	TOWNSHIP	COUNTY STAT	E UNIT WORKING INTEREST	CHESAPEAKE WORKING INTEREST	CHESAPEAKE UNIT PARTICIPATION	ARU WORKING INTEREST	ARU UNIT PARTICIPATION	RHDK WORKING INTEREST	RHDK UNIT PARTICIPATION	GPOR WORKING INTEREST	GPOR PARTICIPATION	ANTERO WORKING INTEREST	ANTERO PARTICIPATION	ENERVEST WORKING INTEREST	ENERVEST PARTICIPATION	ADDRESS	CITY	STATE	ZIP CODE	SUPPLEMENT
1	GPOR	SHIRLEY A BLIZZARD	Υ	Bk 403 Pg 4 201300009468 Bk 240 Pg 660	0.551624	0.00082894	04-00023.000	FLUSHING	BELMONT OH	0.082894%	0.0000%	0.000000%	0.0000%	0.000000%	0.0000%	0.000000%	100.0000%	0.082894%	0.0000%	0.000000%	0.0000%	0.000000%	32701 Crews Lane	Piedmont	Ohio	43983	
2	341-00043-000	JOAS AND FANNIE MILLER BLACK HAWK ROYALTY III LP	Υ	201000005541	1.347650	0.00202514	04-00222.000	FLUSHING	BELMONT OH	0.202514%	100.0000%	0.202514%	0.0000%	0.000000%	0.0000%	0.000000%	0.0000%	0.000000%	0.0000%	0.000000%	0.0000%	0.000000%	33339 Rouggen Rd	Piedmont	Ohio	43983	
2	341-00043-000	C/O JOSH LEFFLER	Υ	Bk 240 Pg 660 201000005541	0.449217	0.00067505	04-00222.000	FLUSHING	BELMONT OH	0.067505%	100.0000%	0.067505%	0.0000%	0.000000%	0.0000%	0.000000%	0.0000%	0.000000%	0.0000%	0.000000%	0.0000%	0.000000%	7303 North Highway 81	Duncan	Oklahoma	73533	
2	341-00043-000	WNH PROFIT SHARING PLAN C/O WILLIAM N HEISS	Υ	Bk 240 Pg 660 201000005541	0.449217	0.00067505	04-00222.000	FLUSHING	BELMONT OH	0.067505%	100.0000%	0.067505%	0.0000%	0.000000%	0.0000%	0.000000%	0.0000%	0.000000%	0.0000%	0.000000%	0.0000%	0.000000%	P.O. Box 2680	Casper	Wyoming	82602	
2	341-00043-000	JACK B SEARLE	Υ	Bk 240 Pg 660 201000005541	0.449217	0.00067505	04-00222.000	FLUSHING	BELMONT OH	0.067505%	100.0000%	0.067505%	0.0000%	0.000000%	0.0000%	0.000000%	0.0000%	0.000000%	0.0000%	0.000000%	0.0000%	0.000000%	841 Hersch Avenue	Pagosa Springs	Colorado	81147	
3	341-00046-000	WILLIAM E ERB & ANNA M ERB, TRUSTEES OF THE WILLIAM E AND ANNA M ERB FAMILY IRREVOCABLE TRUST DATED 5/12/2016	Y	Bk 263 Pg 413 201100002037	32.375844	0.04865184	04-00222.001	FLUSHING	BELMONT OH	4.865184%	100.0000%	4.865184%	0.0000%	0.000000%	0.0000%	0.000000%	0.0000%	0.000000%	0.0000%	0.000000%	0.0000%	0.000000%	400 Waucondo Trail	Hartville	Ohio	44632	
4	GPOR	JOAS AND FANNIE MILLER	Y	Bk 240 Pg 660 201000005541	0.042000	0.00006311	04-00222.002	FLUSHING	BELMONT OH	0.006311%	0.0000%	0.000000%	0.0000%	0.000000%	0.0000%	0.000000%	100.0000%	0.006311%	0.0000%	0.000000%	0.0000%	0.000000%	33339 Rouggen Rd	Piedmont	Ohio	43983	
4	GPOR	BLACK HAWK ROYALTY III LP C/O JOSH LEFFLER	Υ	Bk 240 Pg 660 201000005541	0.014000	0.00002104	04-00222.002	FLUSHING	BELMONT OH	0.002104%	0.0000%	0.000000%	0.0000%	0.000000%	0.0000%	0.000000%	100.0000%	0.002104%	0.0000%	0.000000%	0.0000%	0.000000%	7303 North Highway 81	Duncan	Oklahoma	73533	
4	GPOR	WNH PROFIT SHARING PLAN C/O WILLIAM N HEISS	Y	Bk 240 Pg 660	0.014000	0.00002104	04-00222.002	FLUSHING	BELMONT OH	0.002104%	0.0000%	0.000000%	0.0000%	0.000000%	0.0000%	0.000000%	100.0000%	0.002104%	0.0000%	0.000000%	0.0000%	0.000000%	P.O. Box 2680	Casper	Wyoming	82602	
4	GPOR	JACK B SEARLE	Υ	Bk 240 Pg 660 20100005541	0.014000	0.00002104	04-00222.002	FLUSHING	BELMONT OH	0.002104%	0.0000%	0.000000%	0.0000%	0.000000%	0.0000%	0.000000%	100.0000%	0.002104%	0.0000%	0.000000%	0.0000%	0.000000%	841 Hersch Avenue	Pagosa Springs	Colorado	81147	
5	341-00046-000	WILLIAM E ERB & ANNA M ERB, TRUSTEES OF THE WILLIAM E AND ANNA M ERB FAMILY IRREVOCABLE TRUST DATED \$1/2/2016	Y	Bk 263 Pg 413	1.579000	0.00237280	04-00222.003	FLUSHING	BELMONT OH	0.237280%	100.0000%	0.237280%	0.0000%	0.000000%	0.0000%	0.000000%	0.0000%	0.000000%	0.0000%	0.000000%	0.0000%	0.000000%	400 Waucondo Trail	Hartville	Ohio	44632	
6	341-00052-000	TRIPLE B TRUCKING, INC C/O GREG BAHMER	Υ	201100002037 Bk 400 Pg 671 201300008930	47.795100	0.07182267	04-00223.000	FLUSHING	BELMONT OH	7.182267%	100.0000%	7.182267%	0.0000%	0.000000%	0.0000%	0.000000%	0.0000%	0.000000%	0.0000%	0.000000%	0.0000%	0.000000%	58098 Wright Road	Barnesville	Ohio	43713	
7	GPOR	DAN D YODER AND ELIZABETH J YODER	Υ	Bk 263 Pg 423 201100002042 Bk 240 Pg 660	48.313794	0.07260212	04-00223.002	FLUSHING	BELMONT OH	7.260212%	0.0000%	0.000000%	0.0000%	0.000000%	0.0000%	0.000000%	100.0000%	7.260212%	0.0000%	0.000000%	0.0000%	0.000000%	32455 Rouggen Road	Piedmont	Ohio	43983	
8	341-00043-000	JOAS AND FANNIE MILLER	Υ	Bk 240 Pg 660 20100005541	28.079000	0.04219489	04-00224.000	FLUSHING	BELMONT OH	4.219489%	100.0000%	4.219489%	0.0000%	0.000000%	0.0000%	0.000000%	0.0000%	0.000000%	0.0000%	0.000000%	0.0000%	0.000000%	33339 Rouggen Rd	Piedmont	Ohio	43983	
8	341-00043-000	BLACK HAWK ROYALTY III LP C/O JOSH LEFFLER	Y	Bk 240 Pg 660 201000005541	9.359667	0.01406496	04-00224.000	FLUSHING	BELMONT OH	1.406496%	100.0000%	1.406496%	0.0000%	0.000000%	0.0000%	0.000000%	0.0000%	0.000000%	0.0000%	0.000000%	0.0000%	0.000000%	7303 North Highway 81	Duncan	Oklahoma	73533	
8	341-00043-000	WNH PROFIT SHARING PLAN C/O WILLIAM N HEISS	Υ	Bk 240 Pg 660	9.359667	0.01406496	04-00224.000	FLUSHING	BELMONT OH	1.406496%	100.0000%	1.406496%	0.0000%	0.000000%	0.0000%	0.000000%	0.0000%	0.000000%	0.0000%	0.000000%	0.0000%	0.000000%	P.O. Box 2680	Casper	Wyoming	82602	
8	341-00043-000	JACK B SEARLE	Υ	Bk 240 Pg 660 201000005541	9.359667	0.01406496	04-00224.000	FLUSHING	BELMONT OH	1.406496%	100.0000%	1.406496%	0.0000%	0.000000%	0.0000%	0.000000%	0.0000%	0.000000%	0.0000%	0.000000%	0.0000%	0.000000%	841 Hersch Avenue	Pagosa Springs	Colorado	81147	
9	341-00636-000	MAHLON D YODER AND DENA D YODER	Υ	Bk 263 Pg 395	9.617300	0.01445211	04-00224.001	FLUSHING	BELMONT OH	1.445211%	100.0000%	1.445211%	0.0000%	0.000000%	0.0000%	0.000000%	0.0000%	0.000000%	0.0000%	0.000000%	0.0000%	0.000000%	32999 Crews Land Road	Piedmont	Ohio	43983	
10	GPOR	BRIAN L FRITTER	Υ	Bk 276 Pg 693 201100005064	8.321412	0.01250475	04-00224.002	FLUSHING	BELMONT OH	1.250475%	0.0000%	0.000000%	0.0000%	0.000000%	0.0000%	0.000000%	100.0000%	1.250475%	0.0000%	0.000000%	0.0000%	0.000000%	32900 Crews Lane Road	Piedmont	Ohio	43983	
10	GPOR	AMERICAN ENERGY - UTICA MINERALS LLC C/O THOMAS F ATEN	Υ	Bk 276 Pg 693	3.824861	0.00574770	04-00224.002	FLUSHING	BELMONT OH	0.574770%	0.0000%	0.000000%	0.0000%	0.000000%	0.0000%	0.000000%	100.0000%	0.574770%	0.0000%	0.000000%	0.0000%	0.000000%	301 NW 63rd Street	Oklahoma City	Oklahoma	73116	
11	GPOR	WILLIAM E ERB & ANNA M ERB, TRUSTEES OF THE WILLIAM E AND ANNA M ERB FAMILY IRREVOCABLE TRUST DATED \$1122016	Y	201100005064 Bk 505 Pg 291	0.056000	0.00008415	04-00224.003	FLUSHING	BELMONT OH	0.008415%	0.0000%	0.000000%	0.0000%	0.000000%	0.0000%	0.000000%	100.0000%	0.008415%	0.0000%	0.000000%	0.0000%	0.000000%	400 Waucondo Trail	Hartville	Ohio	44632	
12	34-038948-000	CAMP PRESMONT, INC C/O AMY DEVOLLD	Y	201400013756 Bk 324 Pg 634 201200005313	1.342285	0.00201708	04-00229.000	FLUSHING	BELMONT OH	0.201708%	100.0000%	0.201708%	0.0000%	0.000000%	0.0000%	0.000000%	0.0000%	0.000000%	0.0000%	0.000000%	0.0000%	0.000000%	34211 4-H Club Road	Piedmont	Ohio	43982	
13	341-00050-000	TRIPLE B TRUCKING, INC C/O GREG BAHMER	Υ	Bk 273 Pg 344	42.778183	0.06428365	04-00232.000	FLUSHING	BELMONT OH	6.428365%	100.0000%	6.428365%	0.0000%	0.000000%	0.0000%	0.000000%	0.0000%	0.000000%	0.0000%	0.000000%	0.0000%	0.000000%	58098 Wright Road	Barnesville	Ohio	43713	
14	34-017184-000	JOHN WILLIAM KEATING, JEAN A KEATING AND JOHN F KEATING	Υ	Bk 276 Pg 699 201100005066	48.439476	0.07279099	04-00235.000	FLUSHING	BELMONT OH	7.279099%	100.0000%	7.279099%	0.0000%	0.000000%	0.0000%	0.000000%	0.0000%	0.000000%	0.0000%	0.000000%	0.0000%	0.000000%	3403 38th Street	Canton	Ohio	44706	
15	34-017184-000	JOHN WILLIAM KEATING, JEAN A KEATING AND JOHN F	Υ	Bk 276 Pg 699	45.500000	0.06837378	04-00236.000	FLUSHING	BELMONT OH	6.837378%	100.0000%	6.837378%	0.0000%	0.000000%	0.0000%	0.000000%	0.0000%	0.000000%	0.0000%	0.000000%	0.0000%	0.000000%	3403 38th Street	Canton	Ohio	44706	
16	34-017184-000	JOHN WILLIAM KEATING, JEAN A KEATING AND JOHN F KEATING	Υ	201100005066 Bk 276 Pg 699 201100005066	14.347253	0.02155991	04-00237.000	FLUSHING	BELMONT OH	2.155991%	100.0000%	2.155991%	0.0000%	0.000000%	0.0000%	0.000000%	0.0000%	0.000000%	0.0000%	0.000000%	0.0000%	0.000000%	3403 38th Street	Canton	Ohio	44706	
17	341-00048-000	HAROLD J SURRATT AND JEANNE CHRISLIP	Υ	Bk 266 Pg 58	32.586645	0.04896862	04-00239.000	FLUSHING	BELMONT OH	4.896862%	100.0000%	4.896862%	0.0000%	0.000000%	0.0000%	0.000000%	0.0000%	0.000000%	0.0000%	0.000000%	0.0000%	0.000000%	33141 Rouggen Road	Bamesville	Ohio	43713	
		BRIAN L FRITTER		201100002828																			32900 Crews Lane	Piedmont		43983	
18	34-018810-000	DONNA J BOND GREGORY A FRITTER JEFFERY S FRITTER	Y	Bk 276 Pg 682 201100005060	57.459382	0.08634538	04-00240.000	FLUSHING	BELMONT OH	8.634538%	100.0000%	8.634538%	0.0000%	0.000000%	0.0000%	0.000000%	0.0000%	0.000000%	0.0000%	0.000000%	0.0000%	0.000000%	31145 Cadiz-Piedmont Rd 7073 Hendrysburg-Freeport Road 329 High Street Extension	Freeport Piedmont Freeport	Ohio	43973 43983 43973	
19	GPOR	DAVID J GAY	Υ	Bk 240 Pg 658	7.633721	0.01147135	04-00241.000	FLUSHING	BELMONT OH	1.147135%	0.0000%	0.000000%	0.0000%	0.000000%	0.0000%	0.000000%	100.0000%	1.147135%	0.0000%	0.000000%	0.0000%	0.000000%	71219 Hendrysburg-Freeport Road	Piedmont	Ohio	43983	
20	34-016151-000	ANTHONY M GEMMA AND MARY A GEMMA	Υ	Bk 294 Pg 804	0.477691	0.00071784	04-00242.000	FLUSHING	BELMONT OH	0.071784%	0.0000%	0.000000%	0.0000%	0.000000%	0.0000%	0.000000%	0.0000%	0.000000%	0.0000%	0.000000%	0.0000%	0.000000%	2002 29th Street NW	Canton	Ohio	44709	
20	34-016151-001	ANTHONY M GEMMA AND MARY A GEMMA	Y	201100009561 Bk 317 Pg 172	0.000000	0.00000000	04-00242.000	FLUSHING	BELMONT OH	0.000000%	0.0000%	0.000000%	0.0000%	0.000000%	0.0000%	0.000000%	0.0000%	0.000000%	0.0000%	0.000000%	0.0000%	0.000000%	2002 29th Street NW	Canton	Ohio	44709	
20	OPEN	GEORGE THARP ESTATE	N	201200003566	0.477691	0.00071784	04-00242.000	FLUSHING	BELMONT OH	0.071784%	0.0000%	0.000000%	0.0000%	0.000000%	0.0000%	0.000000%	0.0000%	0.000000%	0.0000%	0.000000%	0.0000%	0.000000%	UNKNOWN				
21	34-023552-000	KENNETH LYNN MARSH GLEINNA SUE MARSH STEPHAN CLAY MARSH BRENT MARSH	Υ	Bk 314 Pg 453	17.441111	0.02620911	04-00249.000	FLUSHING	BELMONT OH	2.620911%	0.0000%	0.000000%	0.0000%	0.000000%	0.0000%	0.000000%	0.0000%	0.000000%	0.0000%	0.000000%	0.0000%	0.000000%	1571 Applegrove Street NE 3823 Sanborn Ave NW 811 Pheasant Grove Ave NW 8399 Nordic Cir NW	North Canton Canton Massillion	Ohio	44721 44709 44646 44646	
21	OPEN	GEORGE THARP ESTATE	N	201200002959	17.441111	0.02620911	04-00249.000	FLUSHING	BELMONT OH	2.620911%	0.0000%	0.000000%	0.0000%	0.000000%	0.0000%	0.000000%	0.0000%	0.000000%	0.0000%	0.000000%	0.0000%	0.000000%	UNKNOWN	-			
22	OPEN	BOUNTY MINERALS LLC C/O TRACIE PAI MER	N	1	9.733753	0.01462711	04-00252.000	FLUSHING	BELMONT OH	1.462711%	0.0000%	0.000000%	0.0000%	0.000000%	0.0000%	0.000000%	0.0000%	0.000000%	0.0000%	0.000000%	0.0000%	0.000000%	777 Main Street, Suite 340	Fort Worth	Texas	76102	
23	341-00706-000	DONALD W HOSTETLER AND SHERRY L HOSTETLER	Y	BK 264 Pg 884	3 924371	0.00589723	04-00266.000	FLUSHING	BELMONT OH	0.589723%	100.0000%	0.589723%	0.0000%	0.000000%	0.0000%	0.000000%	0.0000%	0.000000%	0.0000%	0.000000%	0.0000%	0.000000%	71880 Freeport Road	Piedmont	Ohio	43983	
24	OPEN	PATRICK MARK HINKLER	N N	201100002399	4 313258	0.00589723	04-00269.000	FLUSHING	BELMONT OH	0.589723%	0.0000%	0.589723%	0.0000%	0.000000%	0.0000%	0.000000%	0.0000%	0.000000%	0.0000%	0.000000%	0.0000%	0.00000%	4152 Headley's Mill Rd SW	Pataskala	Ohio	43963	
25	341-00048-000	HAROLD J SURRATT AND JEANNE CHRISLIP	Y	BK 266 Pg 587	13.279100	0.00048102	04-00269.000	FLUSHING	BELMONT OH	1.995477%	100.0000%	1 995477%	0.0000%	0.000000%	0.0000%	0.000000%	0.0000%	0.00000%	0.0000%	0.000000%	0.0000%	0.000000%	33141 Rouggen Road	Bamesville	Ohio	43713	
26	341-00048-000	HAROLD J SURRATT AND JEANNE CHRISLIP	ν	201100002828 BK 266 Pg 587	4.046370	0.01535477	04-00273.000	FLUSHING	BELMONT OH	0.608056%	100.0000%	0.608056%	0.0000%	0.000000%	0.0000%	0.000000%	0.0000%	0.000000%	0.0000%	0.000000%	0.0000%	0.000000%	33141 Rouggen Road	Barnesville	Ohio	43713	
				201100002828 Bk 403 Pg 603																							
27	ANTERO	GEORGE DUDICH JR AND KAREN L DUDICH  ALERT BOOSTERS CAMP, INC.	Υ	201300009594	70.340000	0.10570135	04-00278.000	FLUSHING	BELMONT OH	10.570135%	0.0000%	0.000000%	0.0000%	0.000000%	0.0000%	0.000000%	0.0000%	0.000000%	100.0000%	10.570135%	0.0000%	0.000000%	5073 Bryant Cove Dr	Evans	Georgia	30809	
28	34-031116-000	C/O JOHN AYERS	Y	Bk 317 Pg 199 201200003577	0.862601	0.00129625	04-00427.000	FLUSHING	BELMONT OH	0.129625%	100.0000%	0.129625%	0.0000%	0.000000%	0.0000%	0.000000%	0.0000%	0.000000%	0.0000%	0.000000%	0.0000%	0.000000%	201 North Zane Highway	Martins Ferry	Ohio	43935	
28	34-0003114-001	JANE MUELLER SESTRIC JOSEPH A MUELLER JOHN K MUELLER JUDITH MUELLER STEINBACH	Y	Bk 561 Pg 384	0.862601	0.00129625	04-00427.000	FLUSHING	BELMONT OH	0.129625%	100.0000%	0.129625%	0.0000%	0.000000%	0.0000%	0.000000%	0.0000%	0.000000%	0.0000%	0.000000%	0.0000%	0.000000%	3036 Norwood Avenue 51 Walnut Grove Road #2 6120 Blue Bonnet Lane 125 Lamar Avenue	Pittsburgh Wheeling Winston-Salem Edison	Pennsylvania West Virginia North Carolina New Jersey	15218 26003 27103 08820	
29	GPOR	SHIRLEY A BLIZZARD	Υ	201500009187 Bk 403 Pg 4	0.228538	0.00034343	12-00017.000	KIRKWOOD	BELMONT OH	0.034343%	0.0000%	0.000000%	0.0000%	0.000000%	0.0000%	0.000000%	100.0000%	0.034343%	0.0000%	0.000000%	0.0000%	0.000000%	32701 Crews Lane	Piedmont	Ohio	43983	
30	ENERVEST	KENNETH M. DUVALL	,	201300009468 Bk 88 Pg 325	37.366926	0.05615204	20-00196.000	LONDONDERRY	GUERNSEY OH	5.615204%	0.0000%	0.000000%	0.0000%	0.000000%	0.0000%	0.000000%	0.0000%	0.000000%	0.0000%	0.000000%	100.0000%	5.615204%	72564 Freeport Road	Piedmont	Ohio	43983	
31	ENERVEST	BOYD HALL AND INEZ J HALL, TRUSTEES UNDER THE	Y	Bk 235 Pg 89	0.803362	0.00120723	20-00196.000	LONDONDERRY	GUERNSEY OH	0.120723%	0.0000%	0.00000%	0.0000%	0.000000%	0.0000%	0.000000%	0.0000%	0.000000%	0.0000%	0.000000%	100.0000%	0.120723%	72678 Freeport Road	Piedmont	Ohio	43983	
32	ENERVEST	HALL LIVING TRUST  BOYD HALL AND INEZ J HALL, TRUSTEES UNDER THE	Y	199900009350 Bk 235 Pg 89	7.101721	0.00120723	20-00239.000	LONDONDERRY	GUERNSEY OH		0.0000%	0.00000%	0.0000%	0.000000%	0.0000%	0.00000%	0.0000%	0.000000%	0.0000%	0.000000%	100.0000%	1.067190%	72678 Freeport Road	Piedmont	Ohio	43963	
32	ENEMVEST	HALL LIVING TRUST	,	199900009350	7.101721	0.01067190	20-00240.000	LUNDUNDERHY	GUERNSET OH	1.06/190%	0.0000%	0.0000076	0.0000%	0.000000%	0.0000%	0.000000%	0.0000%	0.000000%	0.0000%	0.000000%	100.0000%	1.06/190%	720/8 Freeport Hoad	Pleamont	Unio	43983	

TRACT NUMBER	CHESAPEAKE LEASE ID NUMBER	LESSOR AND/OR CURRENT MINERAL OWNER(S)	LEASED YES/NO	LEASE RECORDING INFORMATION	SURFACE ACRES IN UNIT	TRACT PARTICIPATION	TAX MAP PARCEL ID NUMBERS	TOWNSHIP	COUNTY	TATE UNIT WORKIN	CHESAPEAKE WORKING INTEREST	CHESAPEAKE UNIT PARTICIPATION	ARU WORKING INTEREST	ARU UNIT PARTICIPATION	RHDK WORKING INTEREST	RHDK UNIT PARTICIPATION	GPOR WORKING INTEREST	GPOR PARTICIPATION	ANTERO WORKING INTEREST	ANTERO PARTICIPATION	ENERVEST WORKING INTEREST	ENERVEST PARTICIPATION	ADDRESS	CITY	STATE	ZIP CODE	SUPPLEMENT
33	ARU	OAK GROVE CALVARY CHAPEL C/O ROGER HESKETT	Υ	Bk 513 Pg 3447 201400002102	0.375077	0.00056364	20-00495.000	LONDONDERRY	GUERNSEY	OH 0.056364%	0.0000%	0.000000%	100.0000%	0.056364%	0.0000%	0.000000%	0.0000%	0.000000%	0.0000%	0.000000%	0.0000%	0.000000%	528 S Highland Ave	Barnesville	Ohio	43713	
34	ARU	OAK GROVE CALVARY CHAPEL C/O ROGER HESKETT	Υ	Bk 513 Pg 3447 201400002102	4.031935	0.00605887	20-01346.000	LONDONDERRY	GUERNSEY	OH 0.605887%	0.0000%	0.000000%	100.0000%	0.605887%	0.0000%	0.000000%	0.0000%	0.000000%	0.0000%	0.000000%	0.0000%	0.000000%	528 S Highland Ave	Barnesville	Ohio	43713	
35	OPEN	WILLIAM P EDMUNDS, MARGARET A WILLIAMS AND SHELLY ANN CLINE, JT	N		7.038832	0.01057740	20-01708.000	LONDONDERRY	GUERNSEY	OH 1.057740%	0.0000%	0.000000%	0.0000%	0.000000%	0.0000%	0.000000%	0.0000%	0.000000%	0.0000%	0.000000%	0.0000%	0.000000%	72218 Freeport Road	Piedmont	Ohio	43983	
36	ARU/RHDK	KELLY GILLESPIE TOOHEY AND ALLEN E STULL	Υ	Bk 511 Pg 480 201300010610	3.561100	0.00535134	20-01708.001	LONDONDERRY	GUERNSEY	OH 0.535134%	0.0000%	0.000000%	75.0000%	0.401350%	25.0000%	0.133783%	0.0000%	0.000000%	0.0000%	0.000000%	0.0000%	0.000000%	72010 Freeport Road	Piedmont	Ohio	43983	
37	ARU/RHDK	KELLY GILLESPIE TOOHEY AND ALLEN E STULL	Υ	Bk 511 Pg 480 201300010610	0.293474	0.00044101	20-01709.000	LONDONDERRY	GUERNSEY	OH 0.044101%	0.0000%	0.000000%	75.0000%	0.033076%	25.0000%	0.011025%	0.0000%	0.000000%	0.0000%	0.000000%	0.0000%	0.000000%	72010 Freeport Road	Piedmont	Ohio	43983	
		TOT	AL LEASED ACRES	S:	608.536356	0.91445998				91.445998%		62.460393%		1.096677%		0.144809%		10.370867%		10.570135%		6.803117%					
		т	OTAL UNIT ACRES	S:	665.459803																						

Exhibit "A-3"
Unitized Parties

TRACT NUMBER	MINERAL OWNER	ADDRESS	CITY	STATE	ZIP CODE	LEASED YES/NO		TRACT PARTICIPATION	TAX MAP PARCEL ID NUMBERS	TOWNSHIP	COUNTY	STATE	WORKING INTEREST	UNIT PARTICIPATION
20	GEORGE THARP ESTATE	UNKNOWN				N	0.477691	0.00071784	04-00242.000	FLUSHING	BELMONT	ОН	100.00%	0.071784%
21	GEORGE THARP ESTATE	UNKNOWN				N	17.441111	0.02620911	04-00249.000	FLUSHING	BELMONT	ОН	100.00%	2.620911%
22	BOUNTY MINERALS LLC C/O TRACIE PALMER	777 Main Street, Suite 340	Fort Worth	TX	76102	N	9.733753	0.01462711	04-00252.000	FLUSHING	BELMONT	ОН	100.00%	1.462711%
24	PATRICK MARK HUNKLER	4152 Headley's Mill Rd SW	Pataskala	ОН	43062	N	4.313258	0.00648162	04-00269.000	FLUSHING	BELMONT	ОН	100.00%	0.648162%
35	WILLIAM P EDMUNDS, MARGARET A WILLIAMS AND SHELLY ANN CLINE, JT	72218 Freeport Road	Piedmont	ОН	43983	N	7.038832	0.01057740	20-01708.000	LONDONDERRY	GUERNSEY	ОН	100.00%	1.057740%
•				TC	TAL UNITI	ZED ACRES:	39.004645	0.05861308		•				
					TOTAL U	NIT ACRES:	665.459803							

Exhibit "A-4"
Tracts With Committed Working Interest Owners Within The Surratt Unit Contract Area

TRACT NUMBER	COMMITTED WORKING INTEREST OWNER	ADDRESS	CITY	STATE	ZIP CODE	LEASED YES/NO	SURFACE ACRES IN UNIT	TRACT PARTICIPATION	TAX MAP PARCEL ID NUMBERS	TOWNSHIP	COUNTY	STATE	WORKING INTEREST	UNIT PARTICIPATION
2	CHESAPEAKE EXPLORATION LLC	ATTN: DAN KUCAB 6100 N WESTERN AVENUE	OKLAHOMA CITY	ОК	73118	YES	2.695300	0.00405028	04-00222.000	FLUSHING	BELMONT	ОН	100.00%	0.405028%
3	CHESAPEAKE EXPLORATION LLC	ATTN: DAN KUCAB 6100 N WESTERN AVENUE	OKLAHOMA CITY	ОК	73118	YES	32.375844	0.04865184	04-00222.001	FLUSHING	BELMONT	ОН	100.00%	4.865184%
5	CHESAPEAKE EXPLORATION LLC	ATTN: DAN KUCAB 6100 N WESTERN AVENUE	OKLAHOMA CITY	ОК	73118	YES	1.579000	0.00237280	04-00222.003	FLUSHING	BELMONT	ОН	100.00%	0.237280%
6	CHESAPEAKE EXPLORATION LLC	ATTN: DAN KUCAB 6100 N WESTERN AVENUE	OKLAHOMA CITY	ОК	73118	YES	47.795100	0.07182267	04-00223.000	FLUSHING	BELMONT	ОН	100.00%	7.182267%
8	CHESAPEAKE EXPLORATION LLC	ATTN: DAN KUCAB 6100 N WESTERN AVENUE	OKLAHOMA CITY	ОК	73118	YES	56.158000	0.08438977	04-00224.000	FLUSHING	BELMONT	ОН	100.00%	8.438977%
9	CHESAPEAKE EXPLORATION LLC	ATTN: DAN KUCAB 6100 N WESTERN AVENUE	OKLAHOMA CITY	ОК	73118	YES	9.617300	0.01445211	04-00224.001	FLUSHING	BELMONT	ОН	100.00%	1.445211%
12	CHESAPEAKE EXPLORATION LLC	ATTN: DAN KUCAB 6100 N WESTERN AVENUE	OKLAHOMA CITY	ОК	73118	YES	1.342285	0.00201708	04-00229.000	FLUSHING	BELMONT	ОН	100.00%	0.201708%
13	CHESAPEAKE EXPLORATION LLC	ATTN: DAN KUCAB 6100 N WESTERN AVENUE	OKLAHOMA CITY	ОК	73118	YES	42.778183	0.06428365	04-00232.000	FLUSHING	BELMONT	ОН	100.00%	6.428365%
14	CHESAPEAKE EXPLORATION LLC	ATTN: DAN KUCAB 6100 N WESTERN AVENUE	OKLAHOMA CITY	ОК	73118	YES	48.439476	0.07279099	04-00235.000	FLUSHING	BELMONT	ОН	100.00%	7.279099%
15	CHESAPEAKE EXPLORATION LLC	ATTN: DAN KUCAB 6100 N WESTERN AVENUE	OKLAHOMA CITY	ОК	73118	YES	45.500000	0.06837378	04-00236.000	FLUSHING	BELMONT	ОН	100.00%	6.837378%
16	CHESAPEAKE EXPLORATION LLC	ATTN: DAN KUCAB 6100 N WESTERN AVENUE	OKLAHOMA CITY	ОК	73118	YES	14.347253	0.02155991	04-00237.000	FLUSHING	BELMONT	ОН	100.00%	2.155991%
17	CHESAPEAKE EXPLORATION LLC	ATTN: DAN KUCAB 6100 N WESTERN AVENUE	OKLAHOMA CITY	ОК	73118	YES	32.586645	0.04896862	04-00239.000	FLUSHING	BELMONT	ОН	100.00%	4.896862%
18	CHESAPEAKE EXPLORATION LLC	ATTN: DAN KUCAB 6100 N WESTERN AVENUE	OKLAHOMA CITY	ОК	73118	YES	57.459382	0.08634538	04-00240.000	FLUSHING	BELMONT	ОН	100.00%	8.634538%
20	CHESAPEAKE EXPLORATION LLC (50% LEASED)	ATTN: DAN KUCAB 6100 N WESTERN AVENUE	OKLAHOMA CITY	ОК	73118	YES	0.000000	0.00000000	04-00242.000	FLUSHING	BELMONT	ОН	100.00%	0.000000%
21	CHESAPEAKE EXPLORATION LLC (50% LEASED)	ATTN: DAN KUCAB 6100 N WESTERN AVENUE	OKLAHOMA CITY	ОК	73118	YES	0.000000	0.00000000	04-00249.000	FLUSHING	BELMONT	ОН	100.00%	0.000000%
23	CHESAPEAKE EXPLORATION LLC	ATTN: DAN KUCAB 6100 N WESTERN AVENUE	OKLAHOMA CITY	ОК	73118	YES	3.924371	0.00589723	04-00266.000	FLUSHING	BELMONT	ОН	100.00%	0.589723%
25	CHESAPEAKE EXPLORATION LLC	ATTN: DAN KUCAB 6100 N WESTERN AVENUE	OKLAHOMA CITY	ОК	73118	YES	13.279100	0.01995477	04-00272.000	FLUSHING	BELMONT	ОН	100.00%	1.995477%
26	CHESAPEAKE EXPLORATION LLC	ATTN: DAN KUCAB 6100 N WESTERN AVENUE	OKLAHOMA CITY	ОК	73118	YES	4.046370	0.00608056	04-00273.000	FLUSHING	BELMONT	ОН	100.00%	0.608056%

28	CHESAPEAKE EXPLORATION LLC	ATTN: DAN KUCAB 6100 N WESTERN AVENUE	OKLAHOMA CITY	ОК	73118	YES	1.725202	0.00259250	04-00427.000	FLUSHING	BELMONT	ОН	100.00%	0.259250%
30	ENERVEST OPERATING LLC	ATTN: JAMES D. MCKINNEY 300 CAPITOL STREET, SUITE 200	CHARLESTON	WV	25301	YES	37.366926	0.05615204	20-00196.000	FLUSHING	BELMONT	ОН	100.00%	5.615204%
31	ENERVEST OPERATING LLC	ATTN: JAMES D. MCKINNEY 300 CAPITOL STREET, SUITE 200	CHARLESTON	WV	25301	YES	0.803362	0.00120723	20-00239.000	FLUSHING	BELMONT	ОН	100.00%	0.120723%
32	ENERVEST OPERATING LLC	ATTN: JAMES D. MCKINNEY 300 CAPITOL STREET, SUITE 200	CHARLESTON	WV	25301	YES	7.101721	0.01067190	20-00240.000	FLUSHING	BELMONT	ОН	100.00%	1.067190%
			•	TOTA	L COMMIT	TED ACRES:	460.920820	0.692635			•			
			•		TOTAL U	NIT ACRES:	665.459803							

Exhibit "A-5"

Tracts With Uncommitted Working Interest Owners Within The Surratt Unit Contract Area

Attached to and made a part of that certain Unit Operating Agreement dated May 16, 2017 as approved by the Ohio Department of Natural Resources for the Surratt Unit.

TRACT NUMBER	UNCOMMITTED WORKING INTEREST OWNER	ADDRESS	CITY	STATE	ZIP CODE	LEASED YES/NO	SURFACE ACRES IN UNIT	TRACT PARTICIPATION	TAX MAP PARCEL ID NUMBERS	TOWNSHIP	COUNTY	STATE	WORKING INTEREST	UNIT PARTICIPATION
1	GULFPORT ENERGY CORPORATION	ATTN: LESTER ZITKUS 3001 QUAIL SPRINGS PARKWAY	OKLAHOMA CITY	ОК	73134	YES	0.551624	0.00082894	04-00023.000	FLUSHING	BELMONT	ОН	100.00%	0.082894%
4	GULFPORT ENERGY CORPORATION	ATTN: LESTER ZITKUS 3001 QUAIL SPRINGS PARKWAY	OKLAHOMA CITY	ОК	73134	YES	0.084000	0.00012623	04-00222.002	FLUSHING	BELMONT	ОН	100.00%	0.012623%
7	GULFPORT ENERGY CORPORATION	ATTN: LESTER ZITKUS 3001 QUAIL SPRINGS PARKWAY	OKLAHOMA CITY	OK	73134	YES	48.313794	0.07260212	04-00223.002	FLUSHING	BELMONT	ОН	100.00%	7.260212%
10	GULFPORT ENERGY CORPORATION	ATTN: LESTER ZITKUS 3001 QUAIL SPRINGS PARKWAY	OKLAHOMA CITY	ОК	73134	YES	12.146273	0.01825245	04-00224.002	FLUSHING	BELMONT	ОН	100.00%	1.825245%
11	GULFPORT ENERGY CORPORATION	ATTN: LESTER ZITKUS 3001 QUAIL SPRINGS PARKWAY	OKLAHOMA CITY	ОК	73134	YES	0.056000	0.00008415	04-00224.003	FLUSHING	BELMONT	ОН	100.00%	0.008415%
19	GULFPORT ENERGY CORPORATION	ATTN: LESTER ZITKUS 3001 QUAIL SPRINGS PARKWAY	OKLAHOMA CITY	ОК	73134	YES	7.633721	0.01147135	04-00241.000	FLUSHING	BELMONT	ОН	100.00%	1.147135%
27	ANTERO RESOURCES CORPORATION	ATTN: BRIAN A KUHN 1615 WYNKOOP STREET	DENVER	со	80202	YES	70.340000	0.10570135	04-00278.000	FLUSHING	BELMONT	ОН	100.00%	10.570135%
29	GULFPORT ENERGY CORPORATION	ATTN: LESTER ZITKUS 3001 QUAIL SPRINGS PARKWAY	OKLAHOMA CITY	ОК	73134	YES	0.228538	0.00034343	12-00017.000	KIRKWOOD	BELMONT	ОН	100.00%	0.034343%
33	ASCENT RESOURCES- UTICA, L.L.C.	ATTN: SERENA EVANS 301 NW 63RD, SUITE 600	OKLAHOMA CITY	ОК	73116	YES	0.375077	0.00056364	20-00495.000	LONDONDERRY	GUERNSEY	ОН	100.00%	0.056364%
34	ASCENT RESOURCES- UTICA, L.L.C.	ATTN: SERENA EVANS 301 NW 63RD, SUITE 600	OKLAHOMA CITY	ОК	73116	YES	4.031935	0.00605887	20-01346.000	LONDONDERRY	GUERNSEY	ОН	100.00%	0.605887%
36	ASCENT RESOURCES- UTICA, L.L.C.	ATTN: SERENA EVANS 301 NW 63RD, SUITE 600	OKLAHOMA CITY	ОК	73116	YES	2.670825	0.00401351	20-01708.001	LONDONDERRY	GUERNSEY	ОН	75.00%	0.401351%
36	RHDK OIL & GAS, L.L.C.	ATTN.: KEITH B. KIMBLE 3596 STATE ROUTE 39 NW	DOVER	ОН	44622	YES	0.890275	0.00133784	20-01708.001	LONDONDERRY	GUERNSEY	ОН	25.00%	0.133784%
37	ASCENT RESOURCES- UTICA, L.L.C.	ATTN: SERENA EVANS 301 NW 63RD, SUITE 600	OKLAHOMA CITY	ОК	73116	YES	0.220106	0.00033076	20-01709.000	LONDONDERRY	GUERNSEY	ОН	75.00%	0.033076%
37	RHDK OIL & GAS, L.L.C.	ATTN.: KEITH B. KIMBLE 3596 STATE ROUTE 39 NW	DOVER	ОН	44622	YES	0.073369	0.00011025	20-01709.000	LONDONDERRY	GUERNSEY	ОН	25.00%	0.011025%
				T	OTAL UNITI	ZED ACRES:	147.615536	0.22182488						

TOTAL UNIT ACRES:

665.459803

# Exhibit "A-6" DMA Disputes

TRACT NUMBER	MINERAL OWNER	ADDRESS	CITY	STATE	ZIP CODE	LEASED YES/NO		TRACT PARTICIPATION	TAX MAP PARCEL ID NUMBERS	TOWNSHIP	COUNTY	STATE
None	There are no DMA disputes currently in litigation.											
-				•	TOTAL D	MA ACRES:	0.000000	0.00000000		•	•	
					TOTAL U	NIT ACRES:	0.000000					

Mailing List

Attached to and made a part of that certain Unit Operating Agreement dated May 16, 2017 as approved by the Ohio Department of Natural Resources for the Surratt Unit.

MINERAL OWNERS	ADDRESS	CITY	STATE	ZIP CODE
Shirley A Blizzard	32701 Crews Lane	Piedmont	ОН	43983
Joas Miller and Fannie Miller	33339 Rouggen Rd	Piedmont	ОН	43983
Black Hawk Royalty III LP C/O Josh Leffler	7303 North Highway 81	Duncan	OK	73533
WNH Profit Sharing Plan C/O William N Heiss	P.O. Box 2680	Casper	WY	82602
Jack B Searle	841 Hersch Avenue	Pagosa Springs	со	81147
William E Erb & Anna M Erb, Trustees of the William E and Anna M Erb Family Irrevocable Trust dated 5/12/2016	400 Waucondo Trail	Hartville	ОН	44632
Triple B Trucking, Inc. C/O Greg Bahmer	58098 Wright Road	Barnesville	ОН	43713
Dan D Yoder and Elizabeth J Yoder	32455 Rouggen Road	Piedmont	ОН	43983
Mahlon D Yoder and Dena D Yoder	32999 Crews Land Road	Piedmont	ОН	43983
Brian L Fritter	32900 Crews Lane Road	Piedmont	ОН	43983
American Energy - Utica Minerals L.L.C. C/O Thomas F Aten	301 NW 63rd Street	Oklahoma City	ОК	73116
Camp Presmont, Inc. C/O Amy Devolld	34211 4-H Club Road	Piedmont	ОН	43982
John William Keating, Jean A Keating and John F Keating	3403 38th Street	Canton	ОН	44706

33141 Rouggen Road	Barnesville	ОН	43713
31145 Cadiz-Piedmont Rd	Freeport	ОН	43973
7073 Hendrysburg-Freeport Road	Piedmont	ОН	43983
329 High Street Extension	Freeport	ОН	43973
71219 Hendrysburg-Freeport Road	Piedmont	ОН	43983
2002 29th Street NW	Canton	ОН	44709
Unknown	Unknown	Unknown	Unknown
1571 Applegrove Street NE	North Canton	ОН	44721
3823 Sanborn Ave NW	Canton	ОН	44709
811 Pheasant Grove Ave NW	Massillion	ОН	44646
8399 Nordic Cir NW	Massillion	ОН	44646
777 Main Street, Suite 340	Fort Worth	TX	76102
71880 Freeport Road	Piedmont	ОН	43983
4152 Headley's Mill Rd SW	Pataskala	ОН	43062
5073 Bryant Cove Dr	Evans	GA	30809
	31145 Cadiz-Piedmont Rd  7073 Hendrysburg-Freeport Road  329 High Street Extension  71219 Hendrysburg-Freeport Road  2002 29th Street NW  Unknown  1571 Applegrove Street NE  3823 Sanborn Ave NW  811 Pheasant Grove Ave NW  8399 Nordic Cir NW  777 Main Street, Suite 340  71880 Freeport Road  4152 Headley's Mill Rd SW	31145 Cadiz-Piedmont Rd Freeport  7073 Hendrysburg-Freeport Road Piedmont  329 High Street Extension Freeport  71219 Hendrysburg-Freeport Road Piedmont  2002 29th Street NW Canton  Unknown Unknown  1571 Applegrove Street NE North Canton  3823 Sanborn Ave NW Canton  811 Pheasant Grove Ave NW Massillion  8399 Nordic Cir NW Massillion  777 Main Street, Suite 340 Fort Worth  71880 Freeport Road Piedmont  4152 Headley's Mill Rd SW Pataskala	31145 Cadiz-Piedmont Rd Freeport OH  7073 Hendrysburg-Freeport Road Piedmont OH  329 High Street Extension Freeport OH  71219 Hendrysburg-Freeport Road Piedmont OH  2002 29th Street NW Canton OH  Unknown Unknown Unknown  1571 Applegrove Street NE North Canton OH  3823 Sanborn Ave NW Canton OH  811 Pheasant Grove Ave NW Massillion OH  777 Main Street, Suite 340 Fort Worth TX  71880 Freeport Road Piedmont OH  4152 Headley's Mill Rd SW Pataskala OH

Alert Boosters Camp, Inc. C/O John Ayers 201 North Zane Highway		Martins Ferry	ОН	43935
Jane Mueller Sestric	3036 Norwood Avenue	Pittsburgh	PA	15218
Joseph A Mueller	51 Walnut Grove Road #2	Wheeling	WV	26003
John K Mueller	6120 Blue Bonnet Lane	Winston-Salem	NC	27103
Judith Mueller Steinbach	125 Lamar Avenue	Edison	NJ	08820
Kenneth M Duvall 72564 Freeport Road		Piedmont	ОН	43983
Boyd Hall and Inez J Hall, Trustees under the Hall Living Trust 72678 Freeport Road Piedmont C		ОН	43983	
Oak Grove Calvary Chapel C/O Roger Heskett 528 S Highland Ave		Barnesville	ОН	43713
Williams P Edmunds, Margaret A Williams and Shelly Ann Cline	72218 Freeport Road	Piedmont	ОН	43983
Kelly Gillespie Toohey and Allen S Stull	72010 Freeport Road	Piedmont	ОН	43983
WORKING INTEREST OWNERS				
Gulfport Energy Corporation C/O Lester Zitkus	3001 Quail Springs Parkway	Oklahoma City	ОК	73134
Antero Resources Corporation C/O Brian A Kuhn 1615 Wynkoop Street		Denver	со	80202
Enervest Operating, L.L.C. C/O James D McKinney	300 Capitol Street, Suite 200	Charleston	WV	25301
Ascent Resources - Utica, L.L.C. C/O Serena Evans	301 NW 63rd, Suite 600	Oklahoma City	ОК	73116
RHDK Oil & Gas, L.L.C. C/O Keith B Kimble	3596 State Route 39 NW	Dover	ОН	44622

# PAID-UP OIL & GAS LEASE

Lease No.

04/10 - OH

This Lease made this day of	, 20, by and between:, c
hereinafter collectively called "Lessor," and CHESAPEAKE E	EXPLORATION, L.L.C., an Oklahoma limite
liability company, 6100 N. Western Avenue, Oklahoma City, Oklah	
WITNESSETH, that for and in consideration of Ten	
consideration, the receipt and sufficiency of which is hereby a	
agreements hereinafter set forth, the Lessor and Lessee agree as followed	
LEASING CLAUSE. Lessor hereby leases exclusively	to Lessee all the oil and gas (including, but no
limited to coal seam gas, coalbed methane gas, coalbed gas, methan all associated natural gas and other hydrocarbons and non-hydrocarbons.	ne gas, gob gas, occluded methane/natural gas an
from, or produced/originating within any formation, gob area, m	nined-out area, coal seam, and all communication
zones), and their liquid or gaseous constituents, whether hydrod	carbon or non-hydrocarbon, underlying the lan
herein leased, together with such exclusive rights as may be nece explore for, develop, produce, measure, and market production fro	essary or convenient for Lessee, at its election, to the Leasehold, and from adjoining lands, using
methods and techniques which are not restricted to current techniques	ology, including the right to conduct geophysics
and other exploratory tests; to drill, maintain, operate, cease to op	perate, plug, abandon, and remove wells; to use of
install roads, electric power and telephone facilities, and to construdata acquisition, compression and collection facilities for use in the	uct pipelines with appurtenant facilities, including
the Leasehold or from neighboring lands across the Leasehold, to	use oil, gas, and non-domestic water sources, fre
of cost, to store gas of any kind underground, regardless of the sou	urce thereof, including the injecting of gas therei
and removing the same therefrom; to protect stored gas; to ope equipment; to use and occupy the subsurface for a wellbore or	erate, maintain, repair, and remove material an wellhores to drill across through and under the
Leasehold.	welloofes to drift defoss, through and under the
<b>DESCRIPTION</b> . The Leasehold is located in the Townshi	ip of
in the County of, in the State of Ohio, a	and described as follows:
Township:, Range:	
Section: Tax Parcel No.:	Containing acre
. Tax rate rrow.	, containing ucre
and is bounded formerly or currently as follows:	
On the North by lands of	
On the East by lands of	
On the South by lands of	
On the West by lands of	
including lands acquired from	by virtue of deed date
including lands acquired from, and recorded in Book	at Page and described for the
purposes of this agreement as containing a total of	Leasehold acres, whether actually more of
less, and including contiguous lands owned by Lessor. This Lease	
described, all land, if any, contiguous or adjacent to or adjoining th	he land above described and (a) owned or claime
by Lessor, by limitation, prescription, possession, reversion or unre-	ecorded instrument or (b) as to which Lessor has
preference right of acquisition. Lessor agrees to execute any sup	pplemental instrument requested by Lessee for
more complete or accurate description of said land.	
<u>LEASE TERM.</u> This Lease shall remain in force for a p	primary term of () years from 12:0
A.M (effective date) to 11:5	
of primary term) and shall continue beyond the primary term a	
following is satisfied: (i) operations are conducted on the Leaseho	
oil, gas, or their constituents, or (ii) a well deemed by Lessee to be	
or lands pooled/unitized therewith, or (iii) oil or gas, or their const	
pooled/unitized therewith, or (iv) if the Leasehold or lands poole	
storage of gas, or for the protection of stored gas, or (v) if properties are deleved postponed or interrupted as a result of ex-	
operations are delayed, postponed or interrupted as a result of an operation under any existing and effective lease, permit or author	
premises or on other lands affecting the leased premises, such	
secondary term of this oil and gas lease without additional compe	
time equal to any such delay, postponement or interruption.	- 1

If there is any dispute concerning the extension of this Lease beyond the primary term by reason of any of the alternative mechanisms specified herein, the payment to the Lessor of the prescribed payments provided below shall be conclusive evidence that the Lease has been extended beyond the primary term.

EXTENSION OF PRIMARY TERM. Lessee has the option to extend the primary term of this Lease for one additional term of three (3) years from the expiration of the primary term of this Lease; said extension to be under the same terms and conditions as contained in this Lease. Lessee may exercise this option to extend this Lease if on or before the expiration date of the primary term of this Lease, Lessee pays or tenders to the Lessor or to the Lessor's credit an amount equal to the initial consideration given for the execution hereof. Exercise of this option is at Lessee's sole discretion and may be invoked by Lessee where no other alternative of the Lease Term clause extends this Lease beyond the primary term.

#### NO AUTOMATIC TERMINATION OR FORFEITURE.

- (A) CONSTRUCTION OF LEASE: The language of this Lease (including, but not limited to, the Lease Term and Extension of Term clauses) shall never be read as language of special limitation. This Lease shall be construed against termination, forfeiture, cancellation or expiration and in favor of giving effect to the continuation of this Lease where the circumstances exist to maintain this Lease in effect under any of the alternative mechanisms set forth above. In connection therewith, (i) a well shall be deemed to be capable of production if it has the capacity to produce a profit over operating costs, without regard to any capital costs to drill or equip the well, or to deliver the oil or gas to market, and (ii) the Lessee shall be deemed to be conducting operations in search of oil or gas, or their constituents, if the Lessee is engaged in geophysical and other exploratory work including, but not limited to, activities to drill an initial well, to drill a new well, or to rework, stimulate, deepen, sidetrack, frac, plug back in the same or different formation or repair a well or equipment on the Leasehold or any lands pooled/unitized therewith (such activities shall include, but not be limited to, performing any preliminary or preparatory work necessary for drilling, conducting internal technical analysis to initiate and/or further develop a well, obtaining permits and approvals associated therewith and may include reasonable gaps in activities provided that there is a continuum of activities showing a good faith effort to develop a well or that the cessation or interruption of activities was beyond the control of Lessee, including interruptions caused by the acts of third parties over whom Lessee has no control or regulatory delays associated with any approval process required for conducting such activities).
- (B) LIMITATION OF FORFEITURE: This Lease shall never be subject to a civil action or proceeding to enforce a claim of termination, cancellation, expiration or forfeiture due to any action or inaction by the Lessee, including, but not limited to making any prescribed payments authorized under the terms of this Lease, unless the Lessee has received written notice of Lessor's demand and thereafter fails or refuses to satisfy or provide justification responding to Lessor's demand within 60 days from the receipt of such notice. If Lessee timely responds to Lessor's demand, but in good faith disagrees with Lessor's position and sets forth the reasons therefore, such a response shall be deemed to satisfy this provision, this Lease shall continue in full force and effect and no further damages (or other claims for relief) will accrue in Lessor's favor during the pendency of the dispute, other than claims for payments that may be due under the terms of this Lease.

<u>PAYMENTS TO LESSOR.</u> In addition to the bonus paid by Lessee for the execution hereof, Lessee covenants to pay Lessor, proportionate to Lessor's percentage of ownership, as follows:

- (A) DELAY RENTAL: To pay Lessor as Delay Rental, after the first year, at the rate of <u>five dollars</u> (\$5.00) per net acre per year payable in advance. The parties hereto agree that this is a Paid-Up Lease with no further Delay Rental and/or Delay in Marketing payments due to Lessor during the primary term hereof.
- (B) ROYALTY: To pay Lessor as Royalty, less all taxes, assessments, and adjustments on production from the Leasehold, as follows:
- 1. OIL: To deliver to the credit of Lessor a Royalty equal to seventeen and one half percent (17.5%) of the net revenue realized by Lessee for all oil and any constituents thereof produced and marketed from the Leasehold, less the cost to transport, handle, separate, meter, treat, process and market the oil.
- 2. GAS: To pay Lessor an amount equal to seventeen and one half percent (17.5%) of the net revenue realized by Lessee for all gas and the constituents thereof produced and marketed from the Leasehold, less the cost to transport, gather, dehydrate, compress, market, meter, treat and process the gas and any losses in volumes to point of measurement that determines the revenue realized by Lessee. Lessee may withhold Royalty payment until such time as the total withheld exceeds fifty dollars (\$50.00).
- (C) DELAY IN MARKETING: In the event that Lessee drills a well on the Leasehold or lands pooled/unitized therewith that is awaiting completion (such as hydraulic fracture stimulation), or that Lessee deems to be capable of production, but does not market producible gas, oil, or their constituents therefrom and there is no other basis for extending this Lease, Lessee shall pay after the primary term and until such time as marketing is established (or Lessee surrenders the Lease) a Delay in Marketing payment equal in amount and frequency to the annual Delay Rental payment, and this Lease shall remain in full force and effect to the same extent as payment of Royalty.
- (D) SHUT-IN: In the event that production of oil, gas, or their constituents is interrupted and not marketed for a period of twelve (12) months, and there is no producing well on the Leasehold or lands pooled/unitized therewith, Lessee shall thereafter, as Royalty for constructive production, pay a Shut-in Royalty equal in amount and frequency to the annual Delay Rental payment until such time as production is re-established (or lessee surrenders the Lease) and this Lease shall remain in full force and effect. During Shut-in, Lessee shall have the right to rework, stimulate, or deepen any well on the Leasehold or to drill a new well on the Leasehold in an effort to re-establish production, whether from an original producing formation or from a different formation. In the event that the production from the only producing well on the Leasehold is interrupted for a period of less than twelve (12) months, this Lease shall remain in full force and effect without payment of Royalty or Shut-in Royalty.
- (E) DAMAGES: Lessee will remove unnecessary equipment and materials and reclaim all disturbed lands at the completion of activities, and Lessee agrees to repair any damaged improvements to the land and pay for the loss of growing crops or marketable timber.

- (F) MANNER OF PAYMENT: Lessee shall make or tender all payments due hereunder by check, payable to Lessor, at Lessor's last known address, and Lessee may withhold any payment pending notification by Lessor of a change in address. Payment may be tendered by mail or any comparable method (e.g., Federal Express), and payment is deemed complete upon mailing or dispatch. Where the due date for any payment specified herein falls on a holiday, Saturday or Sunday, payment tendered (mailed or dispatched) on the next business day is timely.
- (G) CHANGE IN LAND OWNERSHIP: Lessee shall not be bound by any change in the ownership of the Leasehold until furnished with such documentation as Lessee may reasonably require. Pending the receipt of documentation, Lessee may elect either to continue to make or withhold payments as if such a change had not occurred
- (H) TITLE: If Lessee receives evidence that Lessor does not have title to all or any part of the rights herein leased, Lessee may immediately withhold payments that would be otherwise due and payable hereunder to Lessor until the adverse claim is fully resolved.
- (I) LIENS: Lessee may at its option pay and discharge any past due taxes, mortgages, judgments, or other liens and encumbrances on or against any land or interest included in the Leasehold; and Lessee shall be entitled to recover from the debtor, with legal interest and costs, by deduction from any future payments to Lessor or by any other lawful means. In the event the leased lands are encumbered by a prior mortgage, then, notwithstanding anything contained herein to the contrary, Lessee shall have the right to suspend the payment of any royalties due hereunder, without liability for interest, until such time as Lessor obtains at its own expense a subordination of the mortgage in a form acceptable to Lessee.
- (J) CHARACTERIZATION OF PAYMENTS: Payments set forth herein are covenants, not special limitations, regardless of the manner in which these payments may be invoked. Any failure on the part of the Lessee to timely or otherwise properly tender payment can never result in an automatic termination, expiration, cancellation, or forfeiture of this Lease. Lessor recognizes and acknowledges that oil and gas lease payments, in the form of rental, bonus and royalty, can vary depending on multiple factors and that this Lease is the product of good faith negotiations. Lessor hereby agrees that the payment terms, as set forth herein, and any bonus payments paid to Lessor constitute full consideration for the Leasehold. Lessor further agrees that such payment terms and bonus payments are final and that Lessor will not seek to amend or modify the lease payments, or seek additional consideration based upon any differing terms which Lessee has or will negotiate with any other lessor/oil and gas owner.
- (K) PAYMENT REDUCTIONS: If Lessor owns a lesser interest in the oil or gas than the entire undivided fee simple estate, then the rentals (except for Delay Rental payments as set forth above), royalties and shut-in royalties hereunder shall be paid to Lessor only in the proportion which Lessor's interest bears to the whole and undivided fee.

UNITIZATION AND POOLING. Lessor grants Lessee the right to pool, unitize, or combine all or parts of the Leasehold with other lands, whether contiguous or not contiguous, leased or unleased, whether owned by Lessee or by others, at a time before or after drilling to create drilling or production units either by contract right or pursuant to governmental authorization. Pooling or unitizing in one or more instances shall not exhaust Lessee's pooling and unitizing rights hereunder, and Lessee is granted the right to change the size, shape, and conditions of operation or payment of any unit created. Lessor agrees to accept and receive out of the production or the revenue realized from the production of such unit, such proportional share of the Royalty from each unit well as the number of Leasehold acres included in the unit bears to the total number of acres in the unit. Otherwise, as to any part of the unit, drilling, operations in preparation for drilling, production, or shut-in production from the unit, or payment of Royalty, Shut-in Royalty, Delay in Marketing payment or Delay Rental attributable to any part of the unit (including non-Leasehold land) shall have the same effect upon the terms of this Lease as if a well were located on, or the subject activity attributable to, the Leasehold. In the event of conflict or inconsistency between the Leasehold acres ascribed to the Lease, and the local property tax assessment calculation of the lands covered by the Lease, or the deeded acreage amount, Lessee may, at its option, rely on the latter as being determinative for the purposes of this paragraph.

<u>FACILITIES</u>. Lessee shall not drill a well on the Leasehold within 200 feet of any structure located on the Leasehold without Lessor's written consent. Lessor shall not erect any building or structure, or plant any trees within 200 feet of a well or within 25 feet of a pipeline without Lessee's written consent. Lessor shall not improve, modify, degrade, or restrict roads and facilities built by Lessee without Lessee's written consent.

CONVERSION TO STORAGE. Lessee is hereby granted the right to convert the Leasehold or lands pooled/unitized therewith to gas storage. At the time of conversion, Lessee shall pay Lessor's proportionate part for the estimated recoverable gas remaining in any well drilled pursuant to this Lease using methods of calculating gas reserves as are generally accepted by the natural gas industry and, in the event that all wells on the Leasehold and/or lands pooled/unitized therewith have permanently ceased production, Lessor shall be paid a Conversion to Storage payment in an amount equal to Delay Rental for as long thereafter as the Leasehold or lands pooled/unitized therewith is/are used for gas storage or for protection of gas storage; such Conversion to Storage payment shall first become due upon the next ensuing Delay Rental anniversary date. The use of any part of the Leasehold or lands pooled or unitized therewith for the underground storage of gas, or for the protection of stored gas will extend this Lease beyond the primary term as to all rights granted by this Lease, including but not limited to production rights, regardless of whether the production and storage rights are owned together or separately.

DISPOSAL AND INJECTION WELLS. Lessor hereby grants to Lessee the right to drill wells and/or reenter existing wells, including necessary location, roadway and pipeline easements and rights of way, on any part of the Leasehold or lands pooled or unitized therewith for the disposal and/or injection into any subsurface strata, other than a potable water strata, of air, gas, brine, completion and production fluids, waste water and any hydrocarbon related substances from any source, including, but not limited to wells on the Leasehold or lands pooled or unitized therewith or from properties and lands outside the Leasehold or lands pooled or unitized therewith, and to conduct all operations as may be required, for so long as necessary and required by Lessee for purposes as herein provided. If, at the expiration of the primary term, Lessee is disposing and/or injecting into any subsurface strata underlying the

Leasehold or lands pooled or unitized therewith or conducting operations for such disposal and/or injection and this lease is not being maintained by any other provision contained herein and no other payments are being made to Lessor as prescribed hereunder, Lessee shall pay to Lessor the sum of one thousand dollars (\$1,000.00) per year, proportionately reduced to Lessor's ownership in the Leasehold and surface as it bears to the full and undivided estate, beginning on the next anniversary date of this Lease and said payment and term of this Lease, insofar as to terms and provisions contained herein applicable to disposal and injection wells, shall continue annually thereafter for so long as necessary and required by Lessee for purposes as herein provided and until all disposal and/or injection wells located on the Leasehold or on lands pooled or unitized therewith are plugged and abandoned. Lessor agrees that if required by Lessee, regulatory agency or governmental authority having jurisdiction, Lessor shall enter a separate Disposal and Injection Agreement with Lessee for the purposes as herein provided.

<u>TITLE AND INTERESTS.</u> Lessor hereby warrants generally and agrees to defend title to the Leasehold and covenants that Lessee shall have quiet enjoyment hereunder and shall have benefit of the doctrine of after acquired title. Should any person having title to the Leasehold fail to execute this Lease, the Lease shall nevertheless be binding upon all persons who do execute it as Lessor.

<u>LEASE DEVELOPMENT.</u> There is no implied covenant to drill, prevent drainage, further develop or market production within the primary term or any extension of term of this Lease. There shall be no Leasehold forfeiture, termination, expiration or cancellation for failure to comply with said implied covenants. Provisions herein, including, but not limited to the prescribed payments, constitute full compensation for the privileges herein granted.

<u>COVENANTS.</u> This Lease and its expressed or implied covenants shall not be subject to termination, forfeiture of rights, or damages due to failure to comply with obligations if compliance is effectively prevented by federal, state, or local law, regulation, or decree, or the acts of God and/or third parties over whom Lessee has no control.

RIGHT OF FIRST REFUSAL. If at any time within the primary term of this Lease or any continuation or extension thereof, Lessor receives any bona fide offer, acceptable to Lessor, to grant an additional lease ("Top Lease") covering all or part of the Leasehold, Lessee shall have the continuing option by meeting any such offer to acquire a Top Lease on equivalent terms and conditions. Any offer must be in writing and must set forth the proposed Lessee's name, bonus consideration and royalty consideration to be paid for such Top Lease, and include a copy of the lease form to be utilized reflecting all pertinent and relevant terms and conditions of the Top Lease. Lessee shall have fifteen (15) days after receipt from Lessor of a complete copy of any such offer to advise Lessor in writing of its election to enter into an oil and gas lease with Lessor on equivalent terms and conditions. If Lessee fails to notify Lessor within the aforesaid fifteen (15) day period of its election to meet any such bona fide offer, Lessor shall have the right to accept said offer. Any Top Lease granted by Lessor in violation of this provision shall be null and void.

ARBITRATION. In the event of a disagreement between Lessor and Lessee concerning this Lease or the associated Order of Payment, performance thereunder, or damages caused by Lessee's operations, the resolution of all such disputes shall be determined by arbitration in accordance with the rules of the American Arbitration Association. Arbitration shall be the exclusive remedy and cover all disputes, including but not limited to, the formation, execution, validity and performance of the Lease and Order of Payment. All fees and costs associated with the arbitration shall be borne equally by Lessor and Lessee.

ENTIRE CONTRACT. The entire agreement between Lessor and Lessee is embodied herein and in the associated Order of Payment (if any). No oral warranties, representations, or promises have been made or relied upon by either party as an inducement to or modification of this Lease.

<u>TITLE CURATIVE.</u> Lessor agrees to execute affidavits, ratifications, amendments, permits and other instruments as may be necessary to carry out the purpose of this lease.

SURRENDER. Lessee, at any time, and from time to time, may surrender and cancel this Lease as to all or any part of the Leasehold by recording a Surrender of Lease and thereupon this Lease, and the rights and obligations of the parties hereunder, shall terminate as to the part so surrendered; provided, however, that upon each surrender as to any part of the Leasehold, Lessee shall have reasonable and convenient easements for then existing wells, pipelines, pole lines, roadways and other facilities on the lands surrendered.

<u>SUCCESSORS.</u> All rights, duties, and liabilities herein benefit and bind Lessor and Lessee and their heirs, successors, and assigns.

FORCE MAJEURE. All express or implied covenants of this Lease shall be subject to all applicable laws, rules, regulations and orders. When drilling, reworking, production or other operations hereunder, or Lessee's fulfillment of its obligations hereunder are prevented or delayed by such laws, rules, regulations or orders, or by inability to obtain necessary permits, equipment, services, material, water, electricity, fuel, access or easements, or by fire, flood, adverse weather conditions, war, sabotage, rebellion, insurrection, riot, strike or labor disputes, or by inability to obtain a satisfactory market for production or failure of purchasers or carriers to take or transport such production, or by any other cause not reasonably within Lessee's control, this Lease shall not terminate, in whole or in part, because of such prevention or delay, and, at Lessee's option, the period of such prevention or delay shall be added to the term hereof. Lessee shall not be liable in damages for breach of any express or implied covenants of this Lease for failure to comply therewith, if compliance is prevented by, or failure is the result of any applicable laws, rules, regulations or orders or operation of force majeure.

SEVERABILITY. This Lease is intended to comply with all applicable laws, rules, regulations, ordinances and governmental orders. If any provision of this Lease is held by a court of competent jurisdiction to be invalid, void, or unenforceable, the remaining provisions shall survive and continue in full force and effect to the maximum extent allowed by law. If a court of competent jurisdiction holds any provision of this Lease invalid, void, or unenforceable under applicable law, the court shall give the provision the greatest effect possible under the law and modify the provision so as to conform to applicable law if that can be done in a manner which does not frustrate the purpose of this Lease.

<u>COUNTERPARTS.</u> This Lease may be executed in one or more counterparts, each of which will be deemed to be an original copy of this Lease and all of which, when taken together, will be deemed to constitute one and the same agreement.

IN WITNESS WHEREOF, Lessor hereunto sets hand and seal.

Witness	(Seal)
Witness	(Seal)
Witness	(Seal)
Witness	(Seal)
Document prepared by: Chesapeake Exploration, L.L.C., 73118	6100 N. Western Avenue, Oklahoma City, Oklahoma
ACKNOWLE	EDGMENT
STATE OF	)
COUNTY OF	) SS: )
Signature/Notary Public	ven) to be the person(s) whose name(s) is/are subscribed _ executed the same for the purposes therein contained.
CORPORATE ACKN	NOWLEDGMENT
COUNTY OF day of 20, before me, who acknowledged himself to be the, being authorized to do so, executed foregoing	
the name of the corporation by himself as	
IN WITNESS WHEREOF, I hereunto set my hand	and official seal.
Signature/Notary Public	s: :: int):

Recorder: Return to Chesapeake Exploration, L.L.C., Land Dept., P.O. Box 18496, Oklahoma City, Oklahoma 73154-0496.

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# EXHIBIT "C"

Attached to and made a part of	that certain Unit Operating Agreement dated May 16, 2017, for the Surratt Unit.

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# ACCOUNTING PROCEDURE JOINT OPERATIONS

#### I. GENERAL PROVISIONS

#### Definitions

"Joint Property" shall mean and personal property subject to the agreement to which this Accounting Procedure is attached.

"Joint Operations" shall operations for the development, operation, mean necessary proper maintenance of the Joint Property.

"Joint Account" shall mean the account showing the charges paid and credits received in the conduct of the Joint Operations and which are to be shared by the Parties.

"Operator" shall mean the party designated to conduct the Joint Operations.

"Non-Operators" shall mean the Parties to this agreement other than the Operator

"Parties" shall mean Operator and Non-Operators.

"First Level Supervisors" shall mean those employees whose primary Joint Operations function in Property supervision of other employees and/or contract labor directly employed on the Joint in field a capacity.

"Technical Employees" shall mean those employees having special and specific engineering, geological other professional skills, and whose primary function in Joint Operations is the handling of specific operating conditions and problems for the benefit of the Joint Property.

"Personal Expenses" shall mean travel and other reasonable reimbursable expenses of Operator's employees.

"Material" shall mean personal property, equipment or supplies acquired or held for use on the Joint Property.

"Controllable Material" shall mean Material which at the time is so classified in the Material Classification Manual as most recently recommended by the Council or Petroleum Accountants Societies.

### Statement and Billings

Operator shall bill Non-Operators on or before the last day of each month for their proportionate share of the Joint Account for the preceding month. Such bills will be accompanied by statements which identify authority expenditure, lease or facility, and all charges and credits summarized by appropriate classifications of investment and expense except that items of Controllable Material and unusual charges and credits shall be separately fully described in detail.

### **Advances and Payments by Non-Operators**

- Unless otherwise provided for in the agreement, the Operator may require the Non-Operators to advance their share of estimated cash outlay for the succeeding month's operation within fifteen (15) days after receipt of the billing or by the first day of the month for which the advance is required, whichever is later. Operator shall adjust each monthly billing to reflect advances received from the Non-Operators.
- Each Non-Operator shall pay its proportion of all bills within / thirty (30) / fifteen (15) days after receipt. If payment is not made within such time, the unpaid balance shall bear interest monthly at the greater rate of prime plus 2% or at the rate of 12% per compounded monthly, on the first day of the month in which delinquency maximum contract rate permitted by the applicable usury laws in the state in which the Joint Property is located, whichever is the lesser, plus attorney's fees, court costs, and other costs in connection with the collection of unpaid

thirty (30) Operator may, at its option, choose to substitute other penalties described elsewhere in this Agreement for failure to pay bills within the / fifteen (15)-day time frame described above.

# Adjustments

Payment of any such bills shall not prejudice the right of any Non-Operator to protest or question the correctness thereof; provided, however, all bills and statements rendered to Non-Operators by Operator during any calendar year conclusively be presumed to be true and correct after twenty-four (24) months following the end of any such calendar year, unless within the said twenty-four (24) month period a Non-Operator takes written exception thereto and makes claim on Operator for adjustment. No adjustment favorable to Operator shall be made unless it is made within the same prescribed period. The provisions of this paragraph shall not prevent adjustments resulting from a physical inventory of Controllable Material as provided for in Section V.

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#### 5. Audits

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- writing to Operator and all other Non-Operators, shall have A Non-Operator, upon notice in right to to the Joint Account for any calendar year within the twenty-four Operator's accounts and records relating (24) month period following the end of such calendar year; provided, however, the making of an audit shall not extend the time for the taking of written exception to and the adjustments of accounts as provided Where there Paragraph 4 of this Section I. are two or more Non-Operators, the Non-Operators shall make to conduct a joint audit in manner which will result in a to the Operator. Operator shall bear no portion of the Non-Operators' audit cost incurred under this paragraph unless agreed to by the Operator. The audits shall not be conducted more than once each vear without prior approval of Operator, except upon the resignation or removal of the Operator, and shall be made at the expense of those Non-Operators approving such audit.
- B. The Operator shall reply in writing to an audit report within 180 days after receipt of such report.

#### 6. Approval By Non-Operators

Where an approval or other agreement of the Parties or Non-Operators is expressly required under other sections of this Accounting Procedure and if the agreement to which this Accounting Procedure is attached contains no contrary provisions in regard thereto, Operator shall notify all Non-Operators of the Operator's proposal, and the agreement or approval of a majority in interest of the Non-Operators shall be controlling on all Non-Operators.

#### II. DIRECT CHARGES

Operator shall charge the Joint Account with the following items:

#### 1. Ecological and Environmental

Costs incurred for the benefit of the Joint Property as a result of governmental or regulatory requirements to satisfy environmental considerations applicable to the Joint Operations. Such costs may include surveys of an ecological or archaeological nature and pollution control procedures as required by applicable laws and regulations.

#### 2. Rentals and Royalties

Lease rentals and royalties paid by Operator for the Joint Operations.

# 3. Labor

# and/or consultants

- A. (1) Salaries and wages of Operator's field employees directly employed on the Joint Property in the conduct of Joint Operations.
  - (2) Salaries of First level Supervisors in the field.

#### and/or consultants

(3) Salaries and wages of Technical Employees directly employed on the Joint Property if such charges are excluded from the overhead rates.

# and/or consultants

- (4) Salaries and wages of Technical Employees either temporarily or permanently assigned to and directly employed in the operation or the Joint Property if such charges are excluded from the overhead rates.
- B. Operator's cost of holiday, vacation, sickness and disability benefits and other customary allowances paid to employees whose salaries and wages are chargeable to the Joint Account under Paragraph 3A of this Section II.

  Such costs under this Paragraph 3B may be charged on a "when and as paid basis" or by "percentage assessment" on the amount of salaries and wages chargeable to the Joint Account under Paragraph 3A of this Section II. If percentage assessment is used, the rate shall be based on the Operator's cost experience.
- C. Expenditures or contributions made pursuant to assessments imposed by governmental authority which are applicable to Operator's costs chargeable to the Joint Account under Paragraphs 3A and 3B of this Section II.
- D. Personal Expenses of those employees whose salaries and wages are chargeable to the Joint Account under Paragraphs 3A and 3B of this Section II.

# 4. Employee Benefits

Operator's current costs or established plans for employees' group life insurance, hospitalization, pension, retirement, stock purchase, thrift, bonus, and other benefit plans of a like nature, applicable to Operator's labor cost chargeable to the Joint Account under Paragraphs 3A and 3B of this Section II shall be Operator's actual cost not to exceed the percent most recently recommended by the Council of Petroleum Accountants Societies.



#### 5. Material

Material purchased or furnished by Operator for use on the Joint Property as provided under Section IV. Only such Material shall be purchased for or transferred to the Joint Property as may be required for immediate use and is reasonably practical and consistent with efficient and economical operations. The accumulation of surplus stocks shall be avoided.

#### 6. Transportation

A. If Material is moved to the Joint Property from the Operator's warehouse or other properties, no charge shall be made to the Joint Account for a distance greater than the distance from the nearest reliable supply store where like

Transportation of employees and Material necessary for the Joint Operations but subject to the following limitations:

material is normally available or railway receiving point nearest the Joint Property unless agreed to by the Parties.

B. If surplus Material is moved to Operator's warehouse or other storage point, no charge shall be made to the Joint Account for a distance greater than the distance to the nearest reliable supply store where like material is normally available, or railway receiving point nearest the Joint Property unless agreed to by the Parties. No charge shall be made to the Joint Account for moving Material to other properties belonging to Operator, unless agreed to by the Parties.

C. In the application of subparagraphs A and B above, the option to equalize or charge actual trucking cost is available when the actual charge is \$400 or less excluding accessorial charges. The \$400 will be adjusted to the amount most recently recommended by the Council of Petroleum Accountants Societies.

#### 7. Services

 The cost of contract services, equipment and utilities provided by outside sources, except services excluded by Paragraph 10 of Section II and Paragraph i, ii, and iii, of Section III. The cost of professional consultant services and contract services of technical personnel directly engaged on the Joint Property if such charges are excluded from the overhead rates. The cost of professional consultant services or contract services of technical personnel not directly engaged on the Joint Property shall not be charged to the Joint Account unless previously agreed to by the Parties.

#### 8. Equipment and Facilities Furnished By Operator

B. In lieu of charges in Paragraph 8A above, Operator may elect to use average commercial rates prevailing in the immediate area of the Joint Property less 20%. For automotive equipment, Operator may elect to use rates published by the Petroleum Motor Transport Association.

#### 9. Damages and Losses to Joint Property

All costs or expenses necessary for the repair or replacement of Joint Property made necessary because of damages or losses incurred by fire, flood, storm, theft, accident, or other cause, except those resulting from Operator's gross negligence or willful misconduct. Operator shall furnish Non-Operator written notice of damages or losses incurred as soon as practicable after a report thereof has been received by Operator.

### 10. Legal Expense

title and regulatory work,

Expense of handling, investigating and settling litigation or claims, discharging of liens, payment of judgments and amounts paid for settlement of claims incurred in or resulting from operations under the agreement or necessary to protect or recover the Joint Property. except that no charge for services of Operator's legal staff or fees or expense of outside attorneys shall be made unless previously agreed to by the Parties. All other legal expense is considered to be covered by the overhead provisions of Section III unless otherwise agreed to by the Parties, except as provided in Section

I, Paragraph 3.

### 11. Taxes

 All taxes of every kind and nature assessed or levied upon or in connection with the Joint Property, the operation thereof, or the production therefrom, and which taxes have been paid by the Operator for the benefit of the Parties. If the ad valorem taxes are based in whole or in part upon separate valuations of each party's working interest, then notwithstanding anything to the contrary herein, charges to the Joint Account shall be made and paid by the Parties hereto in accordance with the tax value generated by each party's working interest.



1	12.	Insurance
2		Not promiums paid for insurance required to be carried for the Loint Operations for the protection of the Parties. In the
4		Net premiums paid for insurance required to be carried for the Joint Operations for the protection of the Parties. In the event Joint Operations are conducted in a state in which Operator may act as self-insurer for Worker's Compensation
5		and/or Employers Liability under the respective state's laws, Operator may, at its election, include the risk under its self-
6		insurance program and in that event, Operator shall include a charge at Operator's cost not to exceed manual rates.
7		
8 9	13.	Abandonment and Reclamation
10		Costs incurred for abandonment of the Joint Property, including costs required by governmental or other regulatory
11		authority.
12		
13	14.	Communications
14		
15		Cost of acquiring, leasing, installing, operating, repairing and maintaining communication systems, including radio and
16		microwave facilities directly serving the Joint Property. In the event communication facilities/systems serving the Joint
17 18		Property are Operator owned, charges to the Joint Account shall be made as provided in Paragraph 8 of this Section II.
19	15.	Other Expenditures
20	10.	The cost of Operator's Field Offices not covered in Section III, or any
21		Any other expenditure not covered or dealt with in the foregoing provisions of this Section II, or in Section III and which
22		is of direct benefit to the Joint Property and is incurred by the Operator in the necessary and proper conduct of the Joint
23		Operations.
24		
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26		III. OVERHEAD
27		Ourshard Delling and Developing Ourselford
28 29	1.	Overhead - Drilling and Producing Operations
30		i. As compensation for administrative, supervision, office services and warehousing costs, Operator shall charge
31		drilling and producing operations on either:
32		
33		(X) Fixed Rate Basis, Paragraph lA, or
34		( ) Percentage Basis, Paragraph lB
35		
36		Unless otherwise agreed to by the Parties, such charge shall be in lieu of costs and expenses of all offices and
37		salaries or wages plus applicable burdens and expenses of all personnel, except those directly chargeable under
38 39		Paragraph 3A, Section II. The cost and expense of services from outside sources in connection with matters of
40		taxation, traffic, accounting or matters before or involving governmental agencies shall be considered as included in the overhead rates provided for in the above selected Paragraph of this Section III unless such cost and expense are
41		agreed to by the Parties as a direct charge to the Joint Account.
42		
43		ii. The salaries, wages and Personal Expenses of Technical Employees and/or the cost of professional consultant
44		services and contract services of technical personnel directly employed on the Joint Property:
45		
46		( ) shall be covered by the overhead rates, or
47		( X ) shall not be covered by the overhead rates.
48 49		iii. The salaries, wages and Personal Expenses of Technical Employees and/or costs of professional consultant services
50		and contract services of technical personnel either temporarily or permanently assigned to and directly employed in
51		the operation of the Joint Property:
52		
53		( ) shall be covered by the overhead rates, or
54		(X) shall not be covered by the overhead rates.
55		
56		A. Overhead - Fixed Rate Basis
57		(1) Occasional all above the Villa Account of the Cillarian control of
58 59		(1) Operator shall charge the Joint Account at the following rates per well per month:
60		Drilling Well Rate \$ 17,798.74
61		(Prorated for less than a full month)
62		
63		Producing Well Rate \$
64		
65		(2) Application of Overhead - Fixed Rate Basis shall be as follows:
66		
67		(a) Drilling Well Rate   location work begins
68 69		(1) Charges for drilling wells shall begin on the date the well is spudded and terminate on the date
70		the drilling rig, completion rig, or other units used in completion of the well is released, whichever



is later, except that no charge shall be made during suspension of drilling or completion operations 1 2 for fifteen (15) or more consecutive calendar days. 3 4 (2) Charges for wells undergoing any type of workover or recompletion for a period of five (5) 5 consecutive work days or more shall be made at the drilling well rate. Such charges shall be 6 applied for the period from date workover operations, with rig or other units used in workover, 7 commence through date of rig or other unit release, except that no charge shall be made during 8 suspension of operations for fifteen (15) or more consecutive calendar days. 9 10 (b) Producing Well Rates 11 (1) An active well either produced or injected into for any portion of the month shall be considered as 12 13 a one-well charge for the entire month. 14 15 (2) Each active completion in a multi-completed well in which production is not commingled down 16 hole shall be considered as a one-well charge providing each completion is considered a separate 17 well by the governing regulatory authority. 18 19 (3) An inactive gas well shut in because of overproduction or failure of purchaser to take the 20 production shall be considered as a one-well charge providing the gas well is directly connected to 21 a permanent sales outlet. 22 23 (4) A one-well charge shall be made for the month in which plugging and abandonment 24 are completed on any well. This one-well charge shall be made whether or not the well has 25 produced except when drilling well rate applies. 26 27 (5) All other inactive wells (including but not limited to inactive wells covered by unit allowable, lease 28 allowable, transferred allowable, etc.) shall not qualify for an overhead charge. 29 The well rates shall be adjusted as of the first day of April each year following the effective date by the percent increase or decrease published by COPAS agreement to which this Accounting Procedure is attached /. The adjustment shall be computed by mul 30 31 iltiplying the rate currently in use by the percentage increase or decrease in the average weekly 32 earnings 33 Petroleum and Gas Production Workers for the last calendar year compared to the calendar year preceding as 34 shown by the index of average weekly earnings of Crude Petroleum and Gas Production Workers as approved and recorded by COPAS. 35 published by the United States Department of Labor, Bureau of Labor Statistics, or the equivalent Canadian index as 36 published by Statistics Canada, as applicable. The adjusted rates shall be the rates currently in use, plus-37 minus the computed adjustment. 38 39 Overhead - Percentage Basis 40 41 (1) Operator shall charge the Joint Account at the following rates: 42 43 (a) Development 44 45 %) of the cost of development of the Joint Property exclusive of costs Percent ( 46 provided under Paragraph 10 of Section II and all salvage credits. 47 48 (b) Operating 49 50 \_\_\_\_\_%) of the cost of operating the Joint Property exclusive of costs provided Percent ( 51 under Paragraphs 2 and 10 of Section II, all salvage credits, the value of injected substances purchased 52 secondary recovery and all taxes and assessments which are levied, assessed and paid upon the 53 mineral interest in and to the Joint Property. 54 55 (2) Application of Overhead - Percentage Basis shall be as follows: 56 57 the purpose of determining charges on a percentage basis under Paragraph 1B of this Section III, 58 development shall include all costs in connection with drilling, redrilling, deepening, or operations on any or all wells involving the use of drilling rig and crew capable of drilling to the producing 59 60 Joint Property; also, preliminary expenditures necessary in preparation for drilling expenditures incurred in abandoning when the well is not completed as a producer, and original cost of 61 62 construction or installation of fixed assets, the expansion of fixed assets and any other project clearly 63 discernible as a fixed asset, except Major Construction as defined in Paragraph 2 of this Section III. All other 64 costs shall be considered as operating. 65 Overhead - Major Construction 66 67 To compensate Operator for overhead costs incurred in the construction and installation of fixed assets, the expansion of 68 fixed assets, and any other project clearly discernible as a fixed asset required for the development and operation of the 70 Joint Property, Operator shall either negotiate a rate prior to the beginning of construction, or shall charge the Joint Account for overhead based on the following rates for any Major Construction project in excess of \$\_\_\_\_

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		COPA
		A% of first \$100,000 or total cost if less, plus
1 2		B% of costs in excess of \$100,000 but less than \$1,000,000, plus
3		C. <u>2.0</u> % of costs in excess of \$1,000,000.
5 6 7 8		Total cost shall mean the gross cost of any one project. For the purpose of this paragraph, the component parts of a single project shall not be treated separately and the cost of drilling and workover wells and artificial lift equipment shall be excluded.
9	3.	Catastrophe Overhead
10 11		
12 13 14 15		To compensate Operator for overhead costs incurred in the event of expenditures resulting from a single occurrence due to oil spill, blowout, explosion, fire, storm, hurricane, or other catastrophes as agreed to by the Parties, which are necessary to restore the Joint Property to the equivalent condition that existed prior to the event causing the expenditures, Operator shall either negotiate a rate prior to charging the Joint Account or shall charge the Joint Account
16		for overhead based on the following rates:
17 18		A
19 20		B. 3.0 % of total costs in excess of \$100,000 but less than \$1,000,000; plus
21 22		C% of total costs in excess of \$1,000,000.
23		Expenditures subject to the overheads above will not be reduced by insurance recoveries, and no other overhead
24 25		provisions of this Section III shall apply.
26 27	4.	Amendment of Rates
28		The overhead rates provided for in this Section III may be amended from time to time only by mutual agreement
29 30		between the Parties hereto if, in practice, the rates are found to be insufficient or excessive.
31 32 33		IV. PRICING OF JOINT ACCOUNT MATERIAL PURCHASES, TRANSFERS AND DISPOSITIONS
34 35 36 37 38 39 40	outsiders.	
41 42	1.	Purchases
43 44 45 46		Material purchased shall be charged at the price paid by Operator after deduction of all discounts received. In case of Material found to be defective or returned to vendor for any other reasons, credit shall be passed to the Joint Account when adjustment has been received by the Operator.
47 48	2.	Transfers and Dispositions
49 50		Material furnished to the Joint Property and Material transferred from the Joint Property or disposed of by the Operator, unless otherwise agreed to by the Parties, shall be priced on the following basis exclusive of cash discounts:
51 52		A. New Material (Condition A)
53 54		(1) Tubular Goods Other than Line Pipe
55 56		
57		(a) Tubular goods, sized 2 3/8 inches OD and larger, except line pipe, shall be priced at Eastern mill published carload base prices effective as of date of movement plus transportation cost using the 80,000
58		pound carload weight basis to the railway receiving point nearest the Joint Property for which
59 60		published rail rates for tubular goods exist. If the 80,000 pound rail rate is not offered, the 70,000 pound
61		or 90,000 pound rail rate may be used. Freight charges for tubing will be calculated from Lorain, Ohio and casing from Youngstown, Ohio.
62		
63 64		(b) For grades which are special to one mill only, prices shall be computed at the mill base of that mill plus transportation cost from that mill to the railway receiving point nearest the Joint Property as provided

above in Paragraph 2.A.(1)(a). For transportation cost from points other than Eastern mills, the 30,000

1		pound Oil Field Haulers Association interstate truck rate shall be used.
2		
3		(c) Special end finish tubular goods shall be priced at the lowest published out-of-stock price, f.o.b. Houston,
4		Texas, plus transportation cost, using Oil Field Haulers Association interstate 30,000 pound truck rate,
5		to the railway receiving point nearest the Joint Property.
7		(d) Macaroni tubing (size less than 2 3/8 inch OD) shall be priced at the lowest published out-of-stock prices
8		f.o.b. the supplier plus transportation costs, using the Oil Field Haulers Association interstate truck rate
9		per weight of tubing transferred, to the railway receiving point nearest the Joint Property.
10		
11	(2)	Line Pipe
12		
13		(a) Line pipe movements (except size 24 inch OD and larger with walls 34 inch and over) 30,000 pounds or
14		more shall be priced under provisions of tubular goods pricing in Paragraph A.(l)(a) as provided above.
15 16		Freight charges shall be calculated from Lorain, Ohio.
17		(b) Line Pipe movements (except size 24 inch OD) and larger with walls ¾ inch and over) less than 30,000
18		pounds shall be priced at Eastern mill published carload base prices effective as of date of shipment,
19		/ plus 20 percent, plus transportation costs based on freight rates as set forth under provisions of tubular
20		goods pricing in Paragraph A.(1)(a) as provided above. Freight charges shall be calculated from Lorain,
21		Ohio.
22		
23		(c) Line pipe 24 inch OD and over and 34 inch wall and larger shall be priced f.o.b. the point of
24 25		manufacture at current new published prices plus transportation cost to the railway receiving point nearest the Joint Property.
26		nearest the John Property.
27		(d) Line pipe, including fabricated line pipe, drive pipe and conduit not listed on published price lists shall
28		be priced at quoted prices plus freight to the railway receiving point nearest the Joint Property or at
29		prices agreed to by the Parties.
30		
31	(3)	Other Material shall be priced at the current new price, in effect at date of movement, as listed by a reliable
32		supply store nearest the Joint Property, or point of manufacture, plus transportation costs, if applicable, to the
33		railway receiving point nearest the Joint Property.
34 35	(4)	Unused new Material, except tubular goods, moved from the Joint Property shall be priced at the current
36	(1)	new price, in effect on date of movement, as listed by a reliable supply store nearest the Joint Property, or
37		point of manufacture, plus transportation costs, if applicable, to the railway receiving point nearest the Joint
38		Property. Unused new tubulars will be priced as provided above in Paragraph 2.A.(l) and (2).
39		
40	В.	Good Used Material (Condition B)
41		Marcialia and a dama in the confidence of a fell for a marcial and a second file of a secon
42 43		Material in sound and serviceable condition and suitable for reuse without reconditioning:
44		(1) Material moved to the Joint Property
45		(-)
46		At seventy-five percent (75%) of current new price, as determined by Paragraph A.
47		
48		(2) Material used on and moved from the Joint Property
49		
50		(a) At seventy-five percent (75%) of current new price, as determined by Paragraph A, if Material was
51 52		originally charged to the Joint Account as new Material or
53		(b) At sixty-five percent (65%) of current new price, as determined by Paragraph A, if Material was
54		originally charged to the Joint Account as used Material
55		
56		(3) Material not used on and moved from the Joint Property
57		
58		At seventy-five percent (75%) of current new price as determined by Paragraph A.
59		The cost of reconditioning if any shall be absorbed by the transferring property
60 61		The cost of reconditioning, if any, shall be absorbed by the transferring property.
62	C.	Other Used Material
63		
64		(1) Condition C
65		
66		Material which is not in sound and serviceable condition and not suitable for its original function until
67		after reconditioning shall be priced at fifty percent (50%) of current new price as determined by
68		Paragraph A. The cost of reconditioning shall be charged to the receiving property, provided Condition
69		C value plus cost of reconditioning does not exceed Condition B value.



(2)	Condition D
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Material, excluding junk, no longer suitable for its original purpose, but usable for some other purpose shall be priced on a basis commensurate with its use. Operator may dispose of Condition D Material under procedures normally used by Operator without prior approval of Non-Operators.

(a) Casing, tubing, or drill pipe used as line pipe shall be priced as Grade A and B seamless line pipe of comparable size and weight. Used casing, tubing or drill pipe utilized as line pipe shall be priced at used line pipe prices.

(b) Casing, tubing or drill pipe used as higher pressure service lines than standard line pipe, e.g. power oil lines, shall be priced under normal pricing procedures for casing, tubing, or drill pipe. Upset tubular goods shall be priced on a non upset basis.

#### (3) Condition E

Junk shall be priced at prevailing prices. Operator may dispose of Condition E Material under procedures normally utilized by Operator without prior approval of Non-Operators.

#### D. Obsolete Material

Material which is serviceable and usable for its original function but condition and/or value of such Material is not equivalent to that which would justify a price as provided above may be specially priced as agreed to by the Parties. Such price should result in the Joint Account being charged with the value of the service rendered by such Material.

#### E. Pricing Conditions

(1) Loading or unloading costs may be charged to the Joint Account at the rate of twenty-five cents (25¢) per hundred weight on all tubular goods movements, in lieu of actual loading or unloading costs sustained at the stocking point. The above rate shall be adjusted as of the first day of April each year following January 1, 1985 by the same percentage increase or decrease used to adjust overhead rates in Section III, Paragraph 1.A.(3). Each year, the rate calculated shall be rounded to the nearest cent and shall be the rate in effect until the first day of April next year. Such rate shall be published each year by the Council of Petroleum Accountants Societies.

(2) Material involving erection costs shall be charged at applicable percentage of the current knocked-down price of new Material.

# 3. Premium Prices

Whenever Material is not readily obtainable at published or listed prices because of national emergencies. strikes or other unusual causes over which the Operator has no control, the Operator may charge the Joint Account for the required Material at the Operator's actual cost incurred in providing such Material, in making it suitable for use, and in moving it to the Joint Property; provided notice in writing is furnished to Non-Operators of the proposed charge prior to billing Non-Operators for such Material. Each Non-Operator shall have the right, by so electing and notifying Operator within ten days after receiving notice from Operator, to furnish in kind all or part of his share of such Material suitable for use and acceptable to Operator.

# 4. Warranty of Material Furnished By Operator

Operator does not warrant the Material furnished. In case of defective Material, credit shall not be passed to the Joint Account until adjustment has been received by Operator from the manufacturers or their agents.

# V. INVENTORIES

The Operator shall maintain detailed records of Controllable Material.

Periodic Inventories, Notice and Representation

# At reasonable intervals, inventories shall be taken by Operator of the Joint Account Controllable Material. Written notice of intention to take inventory shall be given by Operator at least thirty (30) days before any inventory is to begin so that Non-Operators may be represented when any inventory is taken. Failure of Non-Operators to be represented at an inventory shall bind Non-Operators to accept the inventory taken by Operator.

#### Reconciliation and Adjustment of Inventories

Adjustments to the Joint Account resulting from the reconciliation of a physical inventory shall be made within six months following the taking of the inventory. Inventory adjustments shall be made by Operator to the Joint Account for



overages and shortages, but, Operator shall be held accountable only for shortages due to lack of reasonable diligence.

#### 3. Special Inventories

1 2

Special inventories may be taken whenever there is any sale, change of interest, or change of Operator in the Joint Property. It shall be the duty of the party selling to notify all other Parties as quickly as possible after the transfer of interest takes place. In such cases, both the seller and the purchaser shall be governed by such inventory. In cases involving a change of Operator, all Parties shall be governed by such inventory.

# 4. Expense of Conducting Inventories

A. The expense of conducting periodic inventories shall not be charged to the Joint Account unless agreed to by the Parties.

B. The expense of conducting special inventories shall be charged to the Parties requesting such inventories, except inventories required due to change of Operator shall be charged to the Joint Account.

#### **EXHIBIT "D"**

Attached to and made a part of that certain Unit Operating Agreement dated May 16, 2017, for the Surratt Unit.

1. Operator shall procure and maintain, at all times while conducting operations under this Agreement, the following insurance coverages with limits not less than those specified below:

A. Workers' Compensation Statutory Employer's Liability \$1,000,000 Each Accident B. General Liability including bodily injury \$5,000,000 Combined Single Limit and property damage liability C. Auto Liability \$1,000,000 Combined Single Limit D. Excess or Umbrella Liability \$20,000,000 Combined Single Limit E. Cost of Well Control and Care, \$5,000,000 Each Occurrence and **Custody and Control** \$250,000 CCC F. Pollution Liability \$20,000,000 Combined Single Limit

- 2. The insurance described in 1. above shall include Non-Operator as additional insured (except Workers' Compensation) and shall include a waiver by the insurer of all rights of subrogation in favor of Non-Operator. Such insurance shall be carried at the joint expense of the parties hereto and all premiums and other costs and expenses related thereto shall be charged to the Joint Account in accordance with the Accounting Procedure attached as Exhibit "C" to this Agreement, unless prior to spud a party hereto who desires to provide its own insurance or self-insurance provides Operator with a certificate of insurance evidencing such individual coverage.
- 3. Operator shall endeavor to have its contractors and subcontractors comply with applicable Workers' Compensation laws, rules and regulations and carry such insurance as Operator may deem necessary.
- 4. Operator shall not be liable to Non-Operator for loss suffered because of insufficiency of the insurance procured and maintained for the Joint Account nor shall Operator be liable to Non-Operator for any loss occurring by reason of Operator's inability to procure or maintain the insurance provided for herein. If, in Operator's opinion, at any time during the term of this Agreement, Operator is unable to procure or maintain said insurance on commercially reasonable terms, or Operator reduces the limits of insurance, Operator shall promptly so notify Non-Operator in writing.
- 5. In the event of loss not covered by the insurance provided for herein, such loss shall be charged to the Joint Account and borne by the parties in accordance with their respective percentage of participation as determined by this Agreement.
- 6. Any party hereto may individually and at its own expense procure such additional insurance as it desires; provided, however, such party shall provide Operator with a certificate of insurance evidencing such coverage before spud of the well and such coverage shall include a waiver by the insurer of all rights of subrogation in favor of the parties hereto.

End of Exhibit "D"

#### **EXHIBIT "E"**

Attached to and made a part of that certain Unit Operating Agreement dated May 16, 2017, for the Surratt Unit ("Operating Agreement").

#### **Gas Balancing Agreement**

#### I. **DEFINITIONS**:

For the purposes of this Gas Balancing Agreement ("GBA") the following terms shall be defined as follows:

- (a) "Affiliate" shall have the meaning ascribed to such term in the Operating Agreement.
- (b) The "Allowable" is the maximum rate of Gas production from each Gas Well permitted from time to time by the regulatory authority having jurisdiction.
- (c) "Balance" is the condition occurring when a party has utilized, sold or disposed of a Quantity of Gas equal to the same percentage of the cumulative Gas production as such party's Percentage Ownership during the period of such cumulative Gas production.
- (d) "Deliverability" shall mean the maximum sustainable daily Gas withdrawal from a Gas Well which may be accomplished without detriment to ultimate recovery of reserves as determined by Operator acting in good faith and taking into account relevant operational factors including, but not limited to, pipeline capacity and pressure and the maximum producing capability of the Gas Well based on data reported to the appropriate governmental agency having jurisdiction.
- (e) "Gas" shall mean all gaseous hydrocarbons produced from each Gas Well but shall not include liquid hydrocarbons.
- (f) "Gas Well" shall mean each well subject to the Operating Agreement that produces gas. If a single Gas Well is completed in two or more reservoirs, such Gas Well will be considered a separate Gas Well with respect to, but only as to, each reservoir from which the Gas production is not commingled in the well bore.
  - (g) "MMBtu" shall mean one million British thermal units.
- (h) "Operating Agreement" means the operating agreement between the Parties to which this GBA is attached.
- (i) "Operator" means the Party designated as operator under the Operating Agreement.
- (j) "Overproduced" is the condition occurring when a party has utilized, disposed of or sold a greater Quantity of Gas from a particular Gas Well at any given time (individually or through its gas purchaser) than if such party were in Balance.
- (k) "parties" means the legal entities that are signatory to the Operating Agreement, or their successors and assigns. Parties shall be referred to individually as a party.
- (I) "Percentage Ownership" is the percentage interest of each party in each Gas Well as set forth in or determined in accordance with the provisions of the Operating Agreement, as such interest may change from time to time.
- (m) "Percentage of Proceeds Sale" means a sale of Gas processed in a gas processing plant the price for which is computed as a percentage of the proceeds from the resale of residue gas and natural gas liquids attributable to such Gas.
  - (n) "Quantity" shall mean the number of units of Gas expressed in MMBtus.

(o) "Underproduced" is the condition occurring when a party has utilized, disposed of or sold a lesser Quantity of Gas from a particular Well at any given time (individually or through its gas purchaser) than if such party were in Balance.

#### II. APPLICATION OF THIS AGREEMENT

The provisions of this GBA shall be separately applicable to each Gas Well to the end that Gas production from one Gas Well may not be utilized for the purposes of balancing underproduction of Gas from any other Gas Well.

#### III. OVERPRODUCTION

#### A. Right to Take All Gas Produced

Subject to the other provisions herein, during any period when any party hereto is not marketing or otherwise disposing of or utilizing its Percentage Ownership of the Allowable or Deliverability, as applicable, of Gas from any Gas Well, the other parties shall be entitled--but shall not have the obligation--to take, in addition to their own Percentage Ownership of Gas, that portion of such other party's Percentage Ownership of Gas which said party is not marketing, utilizing or otherwise disposing of, and shall be entitled to take such Gas production and deliver same to its or their purchasers in accordance with the provisions herein. Each such taking party shall have the right to take its pro rata portion of each such non-taking party's share, said pro rata portion being based on the ratio of its Percentage Ownership to the Percentage Ownership of all parties in the same balancing status (either Overproduced or Underproduced) who elect to take such non-taking party's share of gas; provided, however, an Underproduced party desiring to take a non-taking party's share of Gas shall take precedence over an Overproduced party which wishes to take such non-taking party's Gas, and an Overproduced party shall be entitled to take a non-taking party's share of Gas only to the extent that an Underproduced party has elected not to take said Gas. The Gas of a party not taking its production shall be allocated to a taking party hereunder prior to calculation of percentage entitlement to make up Gas from an Overproduced party under Article IV, below.

Notwithstanding the foregoing, all parties shall share in and own the liquid hydrocarbons recovered from Gas by primary separation equipment in accordance with their respective Percentage Ownership, which liquid hydrocarbon ownership shall be unaffected by this GBA. One or more parties may arrange to have their Gas processed in a gas processing plant for the recovery of liquefiable hydrocarbons. Nothing in this GBA shall afford a basis for balancing any liquefiable hydrocarbons recovered from a Gas processing plant. Each party taking Gas shall own all of the Gas delivered to its purchaser.

#### B. <u>Limitation on Overproduced Party's Right to Take Gas</u>

Notwithstanding the provisions of Article III.A., above, if during any time and from time to time an Overproduced party shall have taken more than one hundred percent (100%) of such party's Percentage Ownership share of the estimated ultimate recoverable reserves for a Gas Well as determined by Operator acting in good faith, said Overproduced party shall not, after receipt of written notice of said fact from Operator, be entitled to take, sell or otherwise dispose of Gas from such Gas Well until such time as said party is no longer Overproduced; provided, however, said Overproduced party may take Gas from such Gas Well without restriction if and for so long as the other parties are not taking Gas from such Gas Well their full share of the Gas or as otherwise authorized by all of the Underproduced parties. Also, no Overproduced party shall at any time be entitled to take, sell or otherwise dispose of more than 300% of its Percentage Ownership of the Allowable from a Gas Well or, if there is no Allowable established, of the Deliverability of a Gas Well.

#### C. <u>Credit For Gas in Storage</u>

Each party who markets less than its Percentage Ownership of the Gas produced shall be credited with Gas in storage equal to its Percentage Ownership share of the Gas produced, less the Gas actually marketed and taken by said party, and less such Party's Percentage Ownership share of the Gas, vented, used or lost in lease operations.

#### IV. RIGHT OF UNDERPRODUCED PARTY TO MAKE UP PRODUCTION

Any Underproduced party may commence making up its underproduction provided it has given written notice to the Operator not later than the fifth day of the month preceding the month in which it wishes to commence making up its underproduction, or within such other time as Operator may from time to time reasonably establish.

In addition to its Percentage Ownership and its rights to a non-taking party's Gas under Article III, above, each Underproduced party will be entitled to take up to an additional twenty-five percent (25%) of the monthly Quantity of each Overproduced party's Percentage Ownership in Gas produced during any month; provided, however, nothing in this Article IV shall reduce the right of any Overproduced party to take a Quantity of Gas available for sale during any month less than seventy-five percent (75%) of its Percentage Ownership in Gas produced in said month.

If at any time more than one Underproduced party is taking a Quantity of Gas in excess of its Percentage Ownership in Gas production in order to balance its Gas production account ("Makeup"), then each such Underproduced party shall be entitled to take such Makeup in proportion that its Percentage Ownership bears to the total Percentage Ownership of all Underproduced parties desiring to take Makeup from the Well. Any portion of the Makeup to which an Underproduced party is entitled and which is not taken by such Underproduced party may be taken by any other Underproduced party in the proportion that its Percentage Ownership bears to the total Percentage Ownership of all Underproduced parties desiring to take such untaken portion of Makeup.

#### V. MONTHLY DATA AND STATEMENTS TO BE PROVIDED

The Operator will establish and maintain a current Gas account which shows the Gas balance which exists for all the parties and will furnish each of these parties a monthly statement showing the total Quantity of Gas sold and taken in kind and the current and cumulative over and under account of each party within ninety (90) days following the end of each applicable month. Operator shall not incur any liability to any party for errors in the data provided by each party or third parties or for other matters pertaining to gas balancing statements (e.g., transporter's allocation of Gas). Each party shall be responsible for promptly providing written notification to Operator of any error(s) or inaccuracy(ies) contained in any gas balancing statement which it receives.

# VI. PAYMENT OF ROYALTIES AND PRODUCTION TAXES

At all times while Gas is produced from a Well, each party hereto will make, or cause to be made, settlement with respective royalty owners to whom each is accountable in accordance with the actual volumes of Gas taken by such party. Upon written request from any party, any other party shall provide on a monthly basis, any additional information which such requesting party may require in order to comply with its obligation to pay royalty pursuant to the terms hereof including, without limitation, name, address, decimal interest, tax identification and, to the extent it has same, title opinions and abstracts of ownership. The term "royalty owner" includes owners of royalty, overriding royalties, production payments and similar interests. Each party agrees to indemnify and hold harmless each other party from any and all claims asserted by its royalty owners and its Gas Purchasers for which said indemnifying party is responsible. Each party producing and/or delivering Gas to its purchaser shall pay, or cause to be paid, any and all production, severance and other similar taxes due on such Gas in accordance with the actual volumes of Gas taken by such party.

#### VII. CASH SETTLEMENTS

#### A. <u>Events Occasioning Cash Settlements</u>

A cash settlement of any imbalance of Gas production: (i) shall be made when production from a Gas Well permanently ceases or the Operating Agreement otherwise terminates (each being referred to herein as "Termination"); and (ii) shall be made by an Overproduced party at the request and option of any Underproduced party or parties upon the sale, transfer, assignment, mortgage or other disposition to an unaffiliated entity (herein individually or collectively referred to as a "Transfer"), by an Overproduced party of all or any portion of its Percentage Ownership in any Gas Well unless (x) the Transfer documentation clearly provides that the assignee has expressly assumed the gas balance position of, and the liability for gas imbalances from, the assignor, and (y) the assignee is not a known credit risk and the assignor has provided to the other parties evidence of the creditworthiness of assignee prior to the date that the applicable Transfer becomes effective taking into account the potential liability associated with the applicable gas imbalance. (A cash settlement pursuant to clause (ii) above may hereinafter be referred to as an "Optional Cash Settlement".) The parties acknowledge that a cash settlement may be made on more than one occasion pursuant to the terms of this GBA.

#### B. Notification of Proposed Transfer By Overproduced Party

When an Overproduced party elects to Transfer all or a portion of its Percentage Ownership (except to an Affiliate, or where the liability for prior period gas imbalances is assumed by an assignee), it shall give notice to all other parties to the Operating Agreement of its intended Transfer and the anticipated closing date. Each Underproduced party shall have fifteen (15) days from the receipt of such notice in which to elect to receive a cash settlement from the transferring party for the transferring party's share of overproduction allocable to the Underproduced party. Such election shall be made in writing and sent to the transferring party and Operator. An Underproduced party's election not to request a cash settlement at the time of Transfer by an Overproduced party shall not, subject to the provisions of Article VII.E, below, preclude said Underproduced party from sharing in cash settlement at Termination or from requesting a cash settlement upon subsequent Transfer by an Overproduced party.

#### C. Quantity of Gas

Within one hundred twenty (120) days after Termination, Operator shall provide a statement captioned "Final Quantity Statement" showing on a party-by-party basis the net unrecouped underproduction, the overproduction and the months and years in which such underproduction and overproduction occurred. Quantities of Gas for which settlement is due shall be determined by accruing the monthly overproduction and underproduction in the order of accrual of said overproduction and underproduction; i.e. makeup Quantities taken by an Underproduced party shall be applied against the oldest overproduction and underproduction then outstanding. In the event an Optional Cash Settlement is requested, Operator shall provide to the parties, within fifteen business days, an Interim Quantity Statement through the end of the last quarter for which Operator has production data, which shall contain similar information as would be contained within a Final Quantity Statement.

#### D. Pricing

#### 1. For Overproduction Sold

The amount to be paid by an Overproduced party to an Underproduced party for such Underproduced party's Gas upon cash settlement shall, where the Overproduced party has sold the Gas to an unaffiliated third party, be based upon the price received by the Overproduced party at the time such overproduction occurred (the "price received") shall be the gross proceeds received, less the following:

- (a) production and/or severance taxes attributable to said Gas production paid by the Overproduced party;
- (b) royalties, if any, paid by the Overproduced party to an Underproduced party's royalty owner(s) to the extent said payments amounted to a discharge of said Underproduced party's royalty obligation;
- (c) any other payments made by the Overproduced party to obligees of the Underproduced party to the extent said payments by the Overproduced party were required by law and/or amounted to discharge of the obligations of the Underproduced party; and
- (d) all reasonable costs and expenses incurred to third parties in connection with the sale of said Gas; e.g., gathering, transportation, compression, storage, marketing and similar fees.

In the event sales by the Overproduced party were made to an Affiliate and the price paid by such Affiliate was less than the prevailing market price in the area of the Well at the time of the sale, then the price received shall be deemed to be the Dominion Transmission Inc. South Point Index price found inside the Federal Energy Regulatory Commission's Gas Market Report for the applicable month of overproduction, calculated from a pricing bulletin published at the time such overproduction occurred, less those items set forth in adabove (the "Adjusted South Point Index Price"). Any Underproduced party that is entitled to payment with respect to the applicable cash settlement may, based upon competent evidence, object that sales by the Overproduced party to an Affiliate were at a price less than the prevailing market price in the area of the Well at the time of the sale, in which case the Adjusted South Point Index Price shall be used to price such sales in accordance with the prior sentence.

#### 2. For Overproduction Taken or Utilized and Not Sold

If there is no actual sale to establish the amount received by the Overproduced party because the Overproduced party took such Gas for its own purposes instead of selling it, the amount to be paid by an Overproduced party to an Underproduced party for such Underproduced party's Gas upon cash settlement shall be based upon the Adjusted South Point Index Price.

#### 3. Proceeds for Liquefiable Hydrocarbons Not Included

The parties agree that the terms "price received by an Overproduced party" and "weighted average price received" shall not include any compensation received by a party for liquid hydrocarbons derived from processing its Gas in a Gas processing plant, unless the overproduction for which the Overproduced party is accounting was sold under a Percentage of Proceeds Sale.

#### E. Calculation, Collection and Distribution of Payments

#### 1. For Cash Settlements at Termination

In the event of a cash settlement at Termination, within ten (10) days after receipt of the Final Quantity Statement from the Operator, each Overproduced party shall furnish to the Operator and the other parties a statement showing the price received for its overproduction on a monthly basis. Within ten (10) days after receipt of such pricing information from all parties, Operator shall submit to each party a statement showing the calculations and the total amount to be paid by each Overproduced party and to be received by each Underproduced party. Cash settlement shall be calculated on the "FIFO" accounting method.

Within twenty (20) days after receipt of said statement from Operator by an Overproduced party, the Overproduced party shall pay all amounts due and owing as

reflected on such statement to the Underproduced parties. In the event that all sums due and owing are not paid by an Overproduced party to the applicable Underproduced parties within the time periods set forth in this provision, interest shall accumulate on such unpaid amounts as provided herein. The amount to be received by each Underproduced party shall be determined by apportioning the total amount to be received by all Underproduced parties from all Overproduced parties among all Underproduced parties in proportion to the total sum to be received by each Underproduced party as a percent of the total sum to be received by all Underproduced parties. The amount to be paid by each Overproduced party to each Underproduced party shall be determined by apportioning the total amount to by paid by all Overproduced parties to each such Underproduced party among all Overproduced parties in proportion to the total sum to be paid by each such Overproduced party to all Underproduced parties as a percent of the total sum to be paid by all Overproduced parties to all Underproduced parties.

# 2. Optional Cash Settlement Pursuant to Article VII.A.(ii) from an Overproduced party Who Seeks to Transfer an Interest

In the event of a request for an Optional Cash Settlement by an Underproduced party pursuant to Article VII.A.(ii) from an Overproduced party who wishes to Transfer all or a portion of its Percentage Ownership, within twenty (20) working days after receipt of Operator's Interim Quantity Statement, the Overproduced party from whom cash settlement is sought shall provide to Operator a statement showing the price received for its overproduction on a monthly basis. Within ten (10) working days after receipt of such pricing information, Operator shall: (a) calculate the total amount due and owing by the Overproduced party and the total amount to be received by each Underproduced party requesting cash settlement based on the "FIFO" accounting method; and (b) provide the Overproduced party and each such Underproduced party with a statement showing the calculations and the total sum to be paid to said Underproduced party. The Overproduced party shall pay to each such Underproduced party the total amount due and owing as reflected in said statement within twenty (20) working days after receipt of said statement. In the event that all sums due and owing are not paid by an Overproduced party to the applicable Underproduced parties within the time periods set forth in this provision, interest shall accumulate on such unpaid amounts as provided herein.

The parties acknowledge that production and sales data may not be available for a brief period immediately preceding the closing date and prior to the effective date of the Transfer, and the transferring Overproduced party agrees to cash settle for any Gas produced during said period promptly after closing. In the event that said transferring Overproduced party for any reason fails to make all cash settlement payments required under this GBA, the transferee shall be obligated to make said payments.

#### 3. <u>Procedures Applicable to All Cash Settlements</u>

For purposes of all price calculations the overproduction of each Overproduced party shall be apportioned to each Underproduced party in proportion to each Underproduced party's underproduction as a percent of the sum of the underproduction of all Underproduced parties. Overproduced volumes shall be matched to Underproduced volumes based on the order in which the overproduction and underproduction arose. The parties recognize that the months of overproduction by an Overproduced party may not coincide with the months of underproduction by an Underproduced party.

#### 4. Amount Subject to Refund May Be Withheld.

In the event that any portion of the price actually received by an Overproduced party shall be subject to possible refund pursuant to rules and regulations issued by the Federal Energy Regulatory Commission ("FERC"), any state, administrative agency or successor governmental authority having jurisdiction, or any court order, the amount which may be ultimately required to be refunded by FERC or any other entity may be withheld without interest by the Overproduced party until such time as a final determination is made with respect thereto or until the party to whom payment is to be made provides a bond or other security to indemnify the party obligated to make such payments in form satisfactory to the

latter.

## F. Operator's Liability

Except as otherwise provided herein, Operator is obligated to administer the provisions of this GBA, but shall have no liability to the other parties for losses sustained or liability incurred which arise out of or in connection with the performance of Operator's duties hereunder except such as may result from Operator's gross negligence or willful misconduct.

#### VIII. OPERATING EXPENSES

The operating expenses are to be borne as provided in the Operating Agreement, regardless of whether all parties are selling or using Gas or whether the sales and use of each are in proportion to their Percentage Ownership.

#### IX. <u>DELIVERABILITY TESTS</u>

Nothing herein shall be construed to deny any party the right from time to time to produce and take or deliver to the purchaser its full share of the Gas production to meet the deliverability test required by its purchaser. Also, nothing herein shall: (a) require the Operator to produce a Gas Well in excess of its deliverability or the applicable maximum allowable rate where such rate is established by regulatory authority having jurisdiction from time to time; or (b) prevent an Operator from operating the Gas Well in order to conduct such tests as may be required by any applicable regulatory authority from time to time.

## X. NOMINATIONS

For each party wishing to sell, utilize or dispose of Gas from a Gas Well subject to this GBA, Operator shall provide each party an initial nomination by well/delivery point(s) six working days prior to the beginning of each month. Operator shall provide each party a revised nomination by well/delivery point as necessary during the month to reflect any change in production. Allocation of gas production in any month in which the total nominations vary from the total production shall be by the Operator according to such procedures as Operator from time to time may reasonably establish. Each non-operator party agrees to indemnify Operator for any charges or penalties incurred because of over or underdeliveries as compared to its nominations, except where such charges or penalties are solely attributable to action taken by Operator in total disregard of such nominations.

#### XI. TERM

This GBA shall remain in full force and effect for so long as the Operating Agreement is in effect and thereafter until the gas balance accounts are settled in full.

# XII. <u>SUCCESSORS AND ASSIGNS</u>

The terms, covenants and conditions of this GBA shall be binding upon and shall inure to the benefit of the parties hereto and their respective legal representatives, successors and assigns. The parties hereto agree to give notice of the existence of this GBA to any successor in interest and to make any transfer of any interest subject to the Operating Agreement, or any part thereof, expressly subject to the terms of this GBA.

#### XIII. AUDITS

Any Underproduced party shall have the right for a period of two (2) years after receipt of payment pursuant to a final accounting and after giving written notice to all parties, to audit an Overproduced party's accounts and records relating to such payment. The party conducting such audit shall bear its costs of the audit.

#### XIV. MISCELLANEOUS

- A. No assignment shall relieve the assignor from any obligation to the other parties with respect to any overproduction taken by assignor to such assignment.
- B. Any amount remaining unpaid under the GBA more than thirty (30) days after it is due shall bear interest (commencing the day after said payment was due) at the rate set forth in the Accounting Procedure (Exhibit C to the Operating Agreement).
- C . Unless the context otherwise clearly indicates, words used in the singular include the plural, and the plural includes the singular.
- D. Each party agrees to maintain the necessary records and documents to enable the gas balancing and cash settlements contemplated hereby to be made.
- E. If any party hereto fails to timely provide to Operator the data required hereby to enable gas balancing statements and cash settlements to be promptly made, Operator, or any other party, without prejudice to other remedies, is authorized to audit the records of the non-providing party and such audit shall be at the expense of the audited party.
- F. To the extent permitted by law, this GBA shall be in lieu of and take precedence over any law, statute, rule or regulation requiring Gas balancing, revenue sharing or marketing of Gas.
- G. In the event that any party is in default of any payment required by this GBA or fails to provide information required under this GBA, Operator is authorized--but not required--upon thirty (30) days notification to said defaulting party, without prejudice to any other remedies it may have, to curtail said party's Gas production from any and all Gas Wells subject to this GBA and such gas may be taken by the other parties in accordance with III.B. above.
- H. In the event of a conflict between the terms of this GBA and the Operating Agreement, the terms of this GBA shall govern except where the conflict is between Article VI of this GBA and the Operating Agreement, in which event the Operating Agreement shall govern.
- I. Nothing in this GBA shall be construed as precluding cash balancing at any time as may be agreed by the parties.
- J. Nothing contained in this GBA shall require an Overproduced Party to pay to an Underproduced Party a sum which would be violative of any law, rule or regulation.

End of Exhibit "E"

# STATE OF OHIO DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL AND GAS RESOURCES MANAGEMENT

In re the Matter of the Application of : Chesapeake Exploration, L.L.C., for :

Unit Operation : Application Date: May 16, 2017

:

Surratt Unit :

# PREPARED TESTIMONY OF COLTON BIRCH ON BEHALF OF CHESAPEAKE EXPLORATION, L.L.C.

Robert J. Krummen (0076996) CHESAPEAKE EXPLORATION, L.L.C. P. O. Box 18496 Oklahoma City, OK 73154

Attorney for Applicant, Chesapeake Exploration, L.L.C.

Date: May 16, 2017

#### PREPARED DIRECT TESTIMONY OF COLTON BIRCH

1	IN	TRC	M	JCT	ION
1		11/1	,,,	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	

- 2 Q1. Please state your name and business address.
- 3 A1. My name is Colton Birch and my business address is 6100 N. Western Avenue,
- 4 Oklahoma City, Oklahoma 73118.
- 5 **Q2.** Who is your employer?
- 6 A2. Chesapeake Operating, L.L.C., a wholly owned subsidiary of Chesapeake Energy
- 7 Corporation.
- 8 Q3. What is your position with Chesapeake?
- 9 A3. I am a Geologist I with Chesapeake's Appalachia Business Unit.
- 10 Q4. Please describe your professional responsibilities at Chesapeake.
- 11 A4. My general responsibilities include: exploring for new accumulations of oil and gas
- in the on-shore United States, evaluating prospects in different formations in the
- Appalachian Basin, planning and monitoring horizontal drilling of wells, and using
- geology to help optimize well performance. Additionally, as an operations
- geologist, I monitor drilling reports and well logs from active drilling of wells to
- ensure the wellbore stays in the target formation.
- 17 Q5. Starting with college, would you describe your education background?
- 18 A5. I have a Bachelor's degree in Geology from Brigham Young University (2013) and
- a Master's Degree in Geology from the University of Oklahoma (2015).
- 20 **Q6.** Would you briefly describe your professional experience?
- 21 A6. I have almost 2 years of petroleum industry experience, all as an intern or Geologist
- I at Chesapeake. In both my internship and current position, I have worked the
- 23 Appalachian Basin in the United States. Specifically I have worked as an
- operations and development geologist with a focus on optimizing and producing
- 25 Chesapeake's Utica Shale assets in Ohio as well as creating geological maps and
- prospecting evaluations for other formations in the Appalachian Basin.
- 27 Q7. Are you a member of any professional associations?
- 28 A7. Yes. I am an active member of the American Association of Petroleum Geologists.
- 29 Q8. Are you familiar with Chesapeake Exploration, L.L.C.'s Application for Unit
- 30 Operations with respect to the Surratt Unit?

1	A O	17.00
	A8.	Yes.

- 2 Q9. Could you please describe the Surratt Unit, in terms of its general location,
- 3 surface acreage, and subsurface depth?
- 4 A9. The Surratt Unit consists of thirty-seven (37) separate tracts of land totaling
- 5 approximately 665.459803 acres in northwest Belmont County and eastern
- 6 Guernsey County, Ohio. Exhibit CB-1 to the Application shows the geographical
- 7 location of the proposed unit in Belmont and Guernsey Counties in relation to the
- 8 surrounding counties. The Unitized Formation described in the Application is the
- 9 subsurface portion of the Surratt Unit at a depth located from 50' above the top of
- the Utica Shale, to 50' below the base of the Point Pleasant formation.

#### 11 UNITIZED FORMATION IS PART OF A POOL.

- 12 Q10. In geological terms, what does "pool" mean in connection with unitization?
- 13 A10. A pool is generally understood to be a common source of supply in pores of a rock
- that yields hydrocarbons on drilling.
- 15 Q11. Ohio Revised Code § 1509.01(E) defines the term "pool" as follows: "Pool"
- means an underground reservoir containing a common accumulation of oil or
- gas, or both, but does not include a gas storage reservoir. Each zone of a
- geological structure that is completely separated from any other zone in the
- same structure may contain a separate pool." Does this definition of "pool"
- apply to the Surratt Unit?
- 21 All. Yes. As part of a larger hydrocarbon pool, an equal accumulation of hydrocarbons
- are expected to be in place throughout the Surratt Unit. Furthermore, the
- 23 hydrocarbon pool would extend beyond the currently defined unit in each direction,
- North, South, East, and West. Interpretation of data indicates that the Utica
- formation has consistent characteristics across the Surratt Unit. Geological
- 26 mapping suggests that the Unitized Formation constitutes a common source of
- supply, meaning any portion of the Surratt Unit would be geologically equivalent to
- another portion of the Surratt Unit. Stated another way, the formation shows very
- similar traits from one well location to the next, which suggests the production is
- 30 likely to be similar from all wells drilled in the unit. Therefore, the Unitized
- Formation qualifies as part of a pool.

2 C. Birch

1	Q12.	Generally speaking, what sources of data would you review and analyze in
2		order to assess the geologic characteristics of a potential shale play?
3	A12.	Wireline well log data and core data. Both public and proprietary logs are analyzed
4		by Chesapeake Energy petrophysicists and geologists. Cores are analyzed by
5		scientists at the Chesapeake Reservoir Technology Center.
6	Q13.	How is this data obtained, and what is it meant to show about the formation?
7	A13.	Chesapeake geologists have used public well logs and recently drilled Chesapeake
8		Energy well logs to pick rock formation tops across the basin. After picking
9		formation tops, such as the Queenston Shale, Utica Shale, Point Pleasant Shale, and
10		Trenton Limestone, maps are made to show the thickness of each formation across
11		Ohio. This mapping indicates equal thickness of the Utica and Point Pleasant
12		shales over the Surratt Unit. The industry jargon has come to call this entire
13		interval the "Utica Formation", and in our testimony we will often adopt this
14		naming convention.
15	Q14.	What data sources did you use in determining the geologic features of the
16		Surratt Unit?
17	A14.	Wireline well log data and Gamma Ray data, which we used to compile Exhibits
18		CB-1 and CB-2 to the Application for Unit Operation.
19	Q15.	What do these exhibits tell us about the Surratt Unit?
20	A15.	Exhibits CB-1 and CB-2 are a map and cross section that show wireline well logs.
21		The logs are annotated with formation names. The cross section offsetting the
22		Surratt Unit suggests approximately equal thickness of the Utica formation,
23		including the Point Pleasant Shale. The three-well cross section displays wireline
24		Gamma Ray data on a 0-200 API scale, Resistivity data on a 0.2-2,000 OHMM
25		scale, and Bulk Density data on a 2.00-3.00 g/cm³ scale. As shown on Exhibit CB-
26		1, one of the three wells is located approximately 8.81 miles northeast of the Surratt
27		Unit pad site, one well is located approximately 4.39 miles northeast of the Surratt
28		Unit pad site, and the other well is approximately 5.81 miles southwest of the
29		Surratt Unit pad site. Interpreted formation tops based on Gamma Ray, Resistivity
30		and Bulk Density electric log curves are shown on the cross section in Exhibit CB-

31

3 C. Birch

2. Because of the location of the three evaluation wells and limited variation of the

1		log data across the three wens, as displayed on the cross section, the log data
2		indicates that the Utica Shale is predicted to have similar characteristics and be of
3		uniform thickness across the Surratt Unit.
4	Q16.	What is the approximate depth of the Utica/Point Pleasant formation under
5		the Surratt Unit?
6	A16.	The top of the Utica formation is expected around 7,580 feet True Vertical Depth.
7	Q17.	Which formations are included in the proposed Surratt Unit?
8	A17.	The Unitized Formation described in the Application is the subsurface portion of
9		the Surratt Unit at a depth located from 50' above the top of the Utica Shale to 50'
10		below the base of the Point Pleasant formation.
11	Q18.	How and why were these formations chosen?
12	A18.	Chesapeake Engineers' fracture models, derived from the measured rock properties
13		obtained from well logs and core data, suggest fractures are contained 50' above
14		the top of the Utica Shale and 50' below the top of the Trenton Limestone.
15	Q19.	Based on the data you analyzed, should the area be considered a pool?
16	A19.	Yes, it is part of a pool.
17	Q20.	Could you please explain why?
18	A20.	Well log analysis and mapping based on core data indicates that reservoir
19		characteristics are very similar over a unit area for the Utica/Point Pleasant
20		formations. Formation thickness, saturation, and porosity should be roughly
21		equivalent across the formation. Geologically, this would qualify the area being
22		considered as part of a pool.
23	ALL(	OCATION METHODOLOGY
24	Q21.	Are you generally familiar with the manner in which unit plans allocate
25		production and unit expenses to parcels within the unit?

26

A21. Yes.

4 C. Birch

1	Q22.	You testified earlier that the Utica/Point Pleasant formation underlying the
2		Surratt Unit has a relatively uniform thickness and reservoir quality. Given
3		those characteristics, what would be an appropriate method of allocating
4		production and unit expenses among the parcels contained in the Surratt
5		Unit?
6	A22.	An appropriate method of allocation would be on a surface-acreage basis. The
7		formation thickness and reservoir quality of the Utica formation is expected to be
8		consistent across the unit. I do not expect any substantial variations across the
9		proposed unit. Therefore, there is no geological reason to allocate by a method
10		other than on a surface-acreage basis.
11	Q23.	Is this method used elsewhere?
12	A23.	Yes. In fact, this method is used throughout the industry.
13	Q24.	What method of allocation is utilized in the unit plan for the Surratt Unit?
14	A24.	Based on the testimony of Dan Kucab attached to the Application, the method of

16 **Q25.** Does this conclude your testimony?

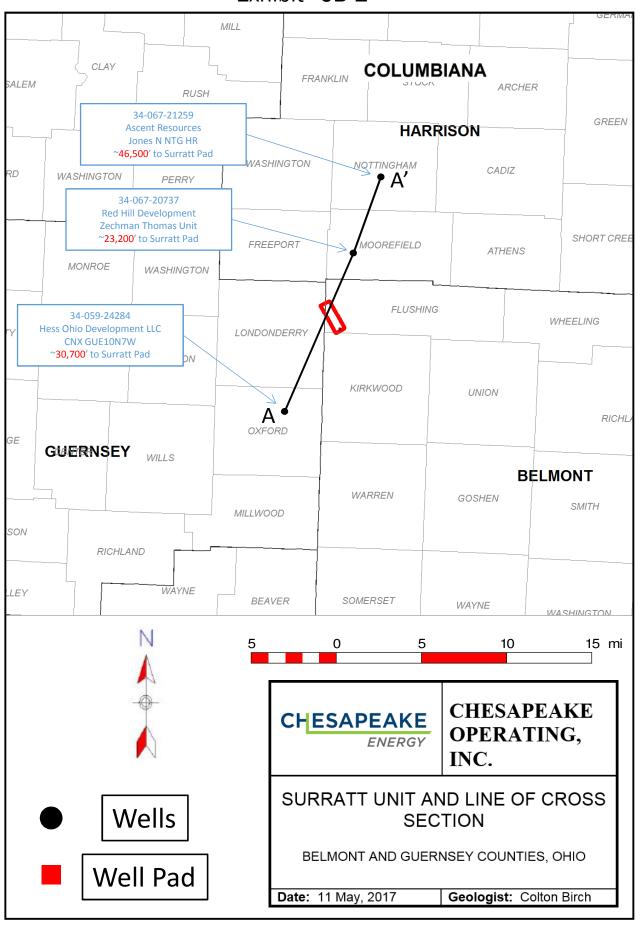
allocation utilized is on a surface-acreage basis.

17 A25. Yes.

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5 C. Birch

# Exhibit "CB-1"



#### **Surratt Unit Offset Stratigraphic Cross Section** Gamma Ray Logs (0-200 API) Resistivity Logs (0.2 - 2000 OHMM) Bulk Density (2.00-3.00 g/cm3) A' Α 34067207370000 34067212590000 34059242840000 **HESS OHIO DEVL LLC RED HILL DEVELOPMENT ASCENT RESOURCES UTICA LLC** CNX GUE10N7W 3P-8 **ZECHMAN THOMAS UNIT 1** JONES N NTG HR 5H Bulk Density Resistivity Bulk Density Correlation Depth Correlation Depth Resistivity Correlation Depth Resistivity **Bulk Density** ResD(RLA5) RHOB(RHOZ) CALI(CALD) TVD ResD(LLD) CALI ResD(AT90) RHOB(RHOZ) CAU(HCAL) TVD 0.200 OHMM 2000<mark>2.00 G/C3 3.00</mark> 0.200 ohm.m 20002.00g/cm33.00 D.200 DHMM 20002.00 G/C3 3.00 IN in ResD(RLA5) 2000 OHM**M**0000000 ResD(AT90) GR(GR\_N) ResD(LLD) GR(SGR) GR gAPI 200 00 200 2000 CHM**2**0000000 2000 ohm.2000000 GAPI 200 Lt.Gray Lt.Gray Lt.Gray 7700 7700 7500 Morningallo \$ 7800 7800 7600 monday Utica されていることにいいいかから gran may make 7900 7900 7700 a while **Point** Pleasant 8000 8000 7800 3 \ \ \ 0 0 ----**Trenton** 8100 8100 7900 W.

# STATE OF OHIO DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL AND GAS RESOURCES MANAGEMENT

In re the Matter of the Application of : Chesapeake Exploration, L.L.C., for :

Unit Operation : Application Date: May 16, 2017 : Revised Date: June 26, 2017

Surratt Unit :

# PREPARED TESTIMONY OF W. JOHN ROBINSON, JR. ON BEHALF OF CHESAPEAKE EXPLORATION, L.L.C.

Robert J. Krummen (0076996) CHESAPEAKE EXPLORATION, L.L.C. P. O. Box 18496 Oklahoma City, OK 73154

Attorney for Applicant, Chesapeake Exploration, L.L.C.

Date: May 16, 2017 Rev. Date: June 26, 2017

#### Q1. Please introduce yourself.

**A1.** My name is John Robinson and my business address is 6100 N. Western Avenue, Oklahoma City, Oklahoma 73154-0496. I am a Reservoir Engineering Advisor for Chesapeake Operating, L.L.C., a wholly owned subsidiary of Chesapeake Energy Corporation.

#### Q2. What is the purpose of your testimony today?

A2. I am testifying in support of the Application of Chesapeake Exploration, L.L.C., for Unit Operation filed with respect to the Surratt Unit. My testimony addresses the following: (1) that unit operations for the Surratt Unit are reasonably necessary to increase substantially the recovery of oil and gas, protect the correlative rights of the mineral owners, and (2) that the estimated additional revenue, due to unit operations, exceeds the estimated additional capital investment.

#### Q3. Can you summarize your educational experience for me?

- **A3.** I have a Bachelor of Science Geological Engineering and Master of Science Mineral Economics, both from Colorado School of Mines in Golden, Colorado.
- Q4. Are you a member of any professional associations?
- **A4.** I am a member of the Society of Petroleum Engineers.
- Q5. How long have you been a Reservoir Engineer for Chesapeake?
- **A5.** I have been a reservoir engineer at Chesapeake for approximately twelve years.
- Q6. What other work experiences have you had?
- A6. Prior to working for Chesapeake as a reservoir engineer, I held various reservoir positions starting with Amoco Production Company in 1978, Home Petroleum Corporation, Washington Energy Resources, Ampolex USA, Mustang Fuel Corporation and Mineral Acquisitions Partners. The majority of my titles were in the area of reservoir engineering, so it included providing occasional testimony on behalf of my employer(s) at other state oil and gas commissions, agencies, or departments responsible for oversight and development of underground mineral resources.

## Q7. What do your job responsibilities entail?

**A7.** I am responsible for providing advice and assistance with determining the efficient development of Chesapeake's Utica assets. This includes best estimates of reserves and

appropriate economic well spacing of the Utica by optimizing oil and gas recovery in a responsible manner. Providing engineering testimony for the Utica play in Ohio is part of that responsibility.

#### Q8. How do you do that?

**A8.** Using and reviewing accepted engineering practices, I help in the determination of reasonable estimates of reserves from current and future wells. I also provide estimates of some of Chesapeake's Utica assets. Some of these practices include volumetric analysis, decline curve analysis, and analysis using analytical models.

# Q9. Did you perform any analysis to support Chesapeake's application for unitization for the proposed Surratt Unit?

A9. Yes.

#### Q10. What sort of analysis did you perform?

**A10.** Using some of the methods I previously described we have analyzed analogous wells in the area to estimate the potentially recoverable hydrocarbons assuming 9,221 ft unitized lateral length(s). I also evaluated the potential hydrocarbon recovery foregoing unitization, observing regulatory setbacks. Finally, I calculated an estimated future discounted cash flow associated with the hydrocarbons using current SEC pricing and a 10% discount rate.

### Q11. Why is Chesapeake looking at drilling horizontal wells?

A11. The permeability of unconventional resource plays is so low (in nano-darcy units (nd), i.e. 1.0 x 10<sup>-9</sup> darcies) that the hydrocarbons cannot be economically produced without the use of horizontal drilling, coupled with massive stimulation treatments (i.e. hydraulic fracturing). Horizontal drilling is the predominant method used to develop shale formations such as the Utica/Point Pleasant.

# Q12. Turning specifically to the Surratt Unit, have you made an estimate of the production you anticipate from the proposed unit's operations?

**A12.** Yes. Based on 9,221 foot laterals, I have estimated the recoverable gas to be about 30.4 BCFe if granted unitization.

## Q13. How did you make those estimates?

**A13.** We used well performance and production data from the wells in the vicinity to evaluate the historical performance for this area. Exhibit JR - 1 is a list of nearby wells that were

used for comparison and normalization based on completed lateral length.

- Q14. Once you had that data from the other Utica/Point Pleasant wells, what did you do with it?
- **A14.** Using the data gathered from operated and non-operated wells, volumetric analysis, decline curve analysis, and analytical models were used to estimate the well performance for this portion of the play. Results were scaled that estimated performance to the unitized 9,221 foot lateral lengths.
- Q15. Why do you qualify your calculations as an estimate?
- A15. There is always the possibility that the petrophysical and geological data used from offset wells may be slightly different than the characteristics of the productive horizon at this location. However, the volumetric calculations of GIP should be a reasonably certain estimate in this statistical unconventional play.
- Q16. In your professional opinion, would it be economic to develop the Surratt Unit using traditional vertical drilling?
- **A16.** No.
- Q17. Are the estimates that you made based on good engineering practices and accepted methods in the industry?
- **A17.** Yes.
- Q18. Do you have the calculations you performed?
- **A18.** The results of my calculations are attached to this prepared testimony as Exhibit JR 2.
- Q19. Can you summarize what your calculations show?
- **A19.** The results of my prior stated methodology are;
  - 1) Capital expenditure (CAPEX) to develop the unitized project is \$20.9 million. Potential recoverable gas from the project is 30.4 BCFe and present value of the future cash flow (CF) (using current SEC pricing of \$2.74/Mcf (no btu adjustments) and \$47.61/bo) with a 10% discount rate is \$3.4 million.
  - 2) Capital expenditure (CAPEX) to develop the non-unitized project is \$17.4 million. Potential recoverable gas equivalent from the non-unitized project is 21.7 BCFe and the present value of the future cash flow (CF) (using current SEC pricing of \$2.74/Mcf (no btu adjustments) and \$47.61/bo) with a 10% discount rate is a negative \$2.3 million.

- Q20. Can you briefly explain why you are using current SEC pricing in this application?
- A20. Every company has its own ideas of economic indicators by which it decides to invest in an opportunity or not. Current SEC pricing, un-escalated, eliminates all the issues associated with corporate decision trees and reduces the evaluation of corporate assets, and projects, to a single deterministic standard. We have no means to accurately predict future oil and gas prices. What we do know, and can verify, is the price we currently and historically get for each barrel of oil and each MMbtu of gas.
- Q21. Based on this information and your professional judgment, do unit operations increase substantially the ultimate recovery of oil and gas?
- **A21.** Yes. The recoverable gas equivalent in the unitized project increases a drilled non-unitized Estimated Ultimate Recovery (EUR) from 21.7 BCFe to 30.4 BCFe.
- Q22. Based on this information and your professional judgment, does the value of the estimated additional recovery of hydrocarbons from the unitized project exceed its estimated costs?
- **A22.** Yes. Assuming the non-unitized acreage were to be drilled, the CAPEX is \$3.5 million more for the unitized project. The estimated additional present value of the proposed Surratt Unit, discounted at 10%, is approximately \$5.7 million as compared to what could be realized if the ODNR does not grant this application for unit operations.
- Q23. In your professional opinion, do you believe that the proposed unit operations for the Surratt Unit are reasonably necessary to increase substantially the ultimate recovery of oil and gas from the unit area?
- **A23.** Yes. The unitization of the Surratt Unit is needed to maximize the economic benefit to the interest owners and protect the correlative rights of the mineral owners. If the project is not unitized it is likely the wells will not be drilled and 30.4 BCFe will be stranded. The mineral owners, Chesapeake, and the State of Ohio will likely not obtain the benefits of that natural resource since economics are unfavorable.
- Q24. Does this conclude your testimony?
- **A24.** Yes.

# EXHIBIT JR – 1

# **Surratt Unit**

# Surratt 25-10-6 Unit Offset Wells Used in Reserve Estimates

Well Name	<u>API</u>	Unit Name	Production Start Date	Length (feet)
DONNA W LND GR 2H	3405924428	DONNA W LND GR UNIT	1/13/2017	8,267
DONNA W LND GR 4H	3405924429	DONNA W LND GR UNIT	1/13/2017	7,249
DONNA W LND GR 6H	3405924433	DONNA W LND GR UNIT	1/10/2017	7,317
GUSTINA-BEAR 1-23H	3406721155	<b>GUSTINA BEAR #23 UNIT</b>	3/4/2014	5,940
GUSTINA-BEAR 2-23H	3406721156	<b>GUSTINA BEAR #23 UNIT</b>	3/5/2014	7,712
GUSTINA-BEAR 3-23H	3406721157	<b>GUSTINA BEAR #23 UNIT</b>	3/2/2014	6,840
CNX GUE10N7W 1H-8	3405924221	CNX GUE10N7W UNIT A	2/19/2014	4,782
CNX GUE10N7W 2H-8	3405924234	CNX GUE10N7W UNIT A	3/28/2014	4,137
CNX GUE10N7W 3H-8	3405924235	CNX GUE10N7W UNIT A	12/19/2013	3,270
CNX GUE10N7W 4H-8	3405924250	CNX GUE10N7W UNIT B	12/19/2013	4,006

## EXHIBIT JR – 2

# **Surratt Unit – Economic/Reserve Summary**

#### UNITIZED greater than 10% ROR

Well Name	Lateral Length (ft)	Potential Gas Recovery, BCFe	Capital (MM\$)
SURRATT 25-10-6 1H	9,221	10.1	\$7.9
SURRATT 25-10-6 3H	9,221	10.1	\$6.5
SURRATT 25-10-6 5H	9,221	10.1	\$6.5
Unitized Totals	27 663	30.4	\$20.9

#### NON-UNITIZED less than 10% ROR

Well Name		Lateral Length (ft)	Potential Gas Recovery, BCFe	Capital (MM\$)
SURRATT 25-10-6 1H	less than 10% ROR - Likely not drilled	6,678	7.1	\$6.7
SURRATT 25-10-6 3H	less than 10% ROR - Likely not drilled	7,907	8.4	\$5.9
SURRATT 25-10-6 5H	less than 10% ROR - Likely not drilled	5,812	6.2	\$4.8
	Abbreviated Totals	20 307	21 7	\$17.4

	Unitized	Non-Unitized	Increases due to Unitization
Total Capital (MM\$) <sup>1</sup>	\$20.9	\$17.4	\$3.5
Anticipated Recoverable Gas, BCFe <sup>2</sup>	30.4	21.7	8.7
Estimated PV of Project Cash Flow, (MM\$) @ SEC Prices 3	\$3.4	-\$2.3	\$5.7
Gross Cash Flow of Project (\$MM undiscounted)	\$16.2	\$5.3	\$10.9

<sup>&</sup>lt;sup>1</sup> Capex includes all capital expenditures necessary to initially drill, complete, equip, turn-in-line and produce the wells <sup>2</sup> Approximately 47% of BCFe (e = Equivalent) is Equivalent Liquids based on 6mcf/bbl liquid (oil and ngl volumes)

<sup>&</sup>lt;sup>3</sup> Calculated based on 100% WI and 81% NRI and 10% discount rate

# STATE OF OHIO DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL AND GAS RESOURCES MANAGEMENT

In re the Matter of the Application of : Chesapeake Exploration, L.L.C., for :

Unit Operation : Application Date: May 16, 2017

: Revised Date: June 26, 2017 <u>Surratt Unit</u> : Revised Date: July 20, 2017

Revised Date: August 21, 2017

# PREPARED TESTIMONY OF DAN KUCAB ON BEHALF OF CHESAPEAKE EXPLORATION, L.L.C.

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Attorney for Applicant, Chesapeake Exploration, L.L.C.

Date: May 16, 2017 Rev. Date: June 26, 2017 Rev. Date: July 20, 2017 Rev. Date: August 21, 2017

## PREPARED DIRECT TESTIMONY OF DAN KUCAB

#### 1 **INTRODUCTION**.

- 2 Q1. Please state your name and business address.
- 3 A1. My name is Dan Kucab and my business address is 6100 N. Western Avenue,
- 4 Oklahoma City, Oklahoma 73118.
- 5 **Q2.** Who is your employer?
- 6 A2. Chesapeake Operating, L.L.C., a wholly owned subsidiary of Chesapeake Energy
- 7 Corporation.
- 8 Q3. What is your position with Chesapeake?
- 9 A3. My official title at Chesapeake Energy Corporation is Sr. Staff Landman.
- 10 Q4. Please describe your professional responsibilities at Chesapeake.
- 11 A4. I am responsible for assisting with our oil and gas development program in eastern
- Ohio in Chesapeake's Appalachia South business unit.
- 13 Q5. Starting with college, please describe your educational background.
- 14 A5. I hold a Bachelor of Arts in General Business from Cameron University.
- 15 **Q6.** Please briefly describe your professional experience.
- 16 A6. I have been continuously employed by Chesapeake Energy Corporation since 2007,
- and I have spent the last 3 years at Chesapeake assisting with development of
- 18 Chesapeake's Utica Shale asset. I have assisted with development programs in
- Belmont, Guernsey, Harrison, and Jefferson Counties, and I have a wide variety of
- 20 experience with the asset.
- 21 Q7. What do you do as a Sr. Staff Landman?
- 22 A7. As a Sr. Staff Landman, I am responsible for managing the company's leasehold
- position in a specific Area of Responsibility (or AOR). I help facilitate
- 24 development of the Utica Shale play through lease acquisitions, sales, and
- 25 negotiations, joint operation or leasehold trade negotiations, title review, unit
- formation, wellbore planning, various permitting activities, drilling wells as a
- 27 landman, and other related operational activities.
- 28 Q8. Are you a member of any professional associations?
- 29 A8. Yes. The American Association of Professional Landmen and the Oklahoma City
- 30 Association of Petroleum Landmen.

1 Were you involved in the preparation of Chesapeake Exploration, L.L.C.'s **Q9.** 2 Application for unitization with respect to the Surratt Unit? 3 A9. I was. I am also familiar with the efforts made by Chesapeake to put the Surratt 4 Unit together and the Unit Plan that Chesapeake is proposing. 5 Q10. Can you generally describe the Surratt Unit? 6 The Surratt Unit consists of thirty-seven (37) separate tracts of land totaling A10. 7 approximately 665.459803 acres in Belmont County and Guernsey County, Ohio. EFFORTS MADE BY CHESAPEAKE TO LEASE UNIT TRACTS. 8 9 The Application submitted by Chesapeake indicates that Chesapeake and 10 other committed working interest owners own the oil and gas rights to 460.920820 acres of the proposed 665.459803-acre unit. Would you describe 11 12 how Chesapeake acquired its rights? 13 Chesapeake acquired its working interest in this unit through landowner signing group acquisitions, traditional organic leasing efforts and through 3<sup>rd</sup> party 14 acquisitions. In the leasing effort, Chesapeake assigned field title and leasing 15 agents to research the county records for a specific area and then secure oil and gas 16 17 leases with the relevant mineral owners for those particular tracts. 18 What percentage of the total acreage of the Surratt Unit is represented by the 19 oil and gas rights held by Chesapeake and its working interest partners? 20 A12. Chesapeake and other operators control over 91% of the working interest in the 21 unit, with Chesapeake and other committed working interest owners currently holding 69.263510%, Ascent Resources - Utica, LLC ("ARU") holding 22 1.096677%, RHDK Oil & Gas, L.L.C. ("RHDK") holding 0.144809%, Gulfport 23 Energy Corporation ("GPOR") holding 10.370867% and Antero Resources 24 Corporation ("Antero") holding 10.570135% of the working interest in the Surratt 25 26 Unit. Not including the non-operated leasehold of ARU, RHDK, GPOR, and 27 Antero, Chesapeake and other committed working interest owners account for over 65% of this Unit which exceeds the 65% statutory minimum requirement for 28 29 seeking unitization. Q13. Why was Chesapeake not able to acquire the oil and gas rights to all of the 30

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acreage in the proposed unit?

1	A13.	To date, one of the major unleased mineral owners in the planned Surratt Unit area
2		has declined to enter into an oil and gas lease on fair market terms with
3		Chesapeake. Chesapeake has made several fair market offers which have been
4		declined. That party has environmental concerns and how development will impact
5		their property. Negotiations for the other unleased parties just recently commenced
6		due to a recent lease expiration and a Dormant Mineral Act issue. Chesapeake is
7		optimistic that it can still obtain oil and gas leases from some of the unleased
8		mineral owners. For some sophisticated mineral owners, however, there are
9		oftentimes business and strategic reasons for those parties to opt not to lease.
10	Q14.	Have you prepared affidavits detailing Chesapeake's efforts to obtain a lease
11		from the unleased mineral owners in the proposed unit?
12	A14.	This Application includes Exhibit DK-1 which details all of Chesapeake's leasing
13		efforts on all remaining unleased tracts of land to date.
14	Q15.	If the unleased tract owners in the unit were to ask to lease with Chesapeake,
15		would Chesapeake be likely to agree?
16	A15.	Absolutely. As Chesapeake has demonstrated on a number of occasions with its
17		previous unitization applications throughout the years, Chesapeake remains willing
18		to lease on reasonable, fair market value terms. As a caveat, Chesapeake does not
19		feel obligated to give preferential treatment in the form of above-market financial
20		or lease terms to sophisticated individuals, companies, or incorporated entities
21		which are also unleased mineral owners who request financial terms which may
22		have been common 4-5 years ago during the leasing boom but are now above
23		market.
24	Q16.	Could you describe the location of the leased and unleased tracts within the
25		Surratt Unit?
26	A16.	Yes. Exhibit DK-2, which is attached to my testimony, is a colored plat showing
27		each of the tracts in the Surratt Unit, along with the wellbores in same. The tracts
28		in yellow indicate that Chesapeake has acquired the necessary mineral interests for
29		those particular tracts. The tracts in red indicates the tracts that are still open or
30		unleased for purposes of putting this unit together. The tracts in different shades of

green represent the acreage owned by ARU, RHDK, Antero and GPOR in the

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	Surratt Unit. Further, the cross-hatched green and olive portions of Exhibit DK-3
	depict the approximate 121.716709-acre area of leasehold that is currently stranded
	from development due to the aforementioned unleased tracts within the Surratt
	Unit.
UNIT	T PLAN PROVISIONS.
Q17.	Would you describe generally the development plan for the Surratt Unit?
A17.	Chesapeake plans to develop the Surratt Unit from a pad site parcel located in the

A18.

southern portion of the Unit, which would facilitate drilling three (3) planned horizontal wells in the Unit. The Unit is configured to accommodate three (3) horizontal wellbores, all with projected lateral lengths of approximately 9,221 feet once regulatory setbacks are taken into consideration. These planned wellbores will be drilled to the northwest from the aforementioned pad site after kick outs to the west and east from the planned pad site. If an Order is granted for this application, and depending upon rig availability and other logistical considerations, Chesapeake intends to drill the Surratt initial well beginning sometime in Q1 or Q2 2018.

# Q18. Can you describe the location of the proposed wellbore within the Surratt Unit?

Yes, the above-referenced Exhibit DK-2 depicts the configuration I just mentioned. As you can see, it illustrates that we anticipate using a surface location on a parcel in the southern portion of the Surratt Unit, and then drilling three (3) wells, estimated to each be 9,221 feet in lateral length, in the Unit Area to the northwest. Additionally, in a separate unit or units which are outside of the scope of this hearing, Chesapeake hopes to ultimately drill an additional three (3) wells off of the same surface location. Using one centrally located pad site to drill up to six (6) potential wellbores, in this instance, minimizes surface disturbance in the region by fully developing multiple unit areas from only one surface location. I have also attached to my testimony an aerial map illustrating the pad location, identified as Exhibit DK-4.

Q19. Do you know with certainty today where the drilling and completion equipment will be located on the pad?

A19. We are negotiating surface rights with a leased party for the area indicated on Exhibit DK-4. A surface use agreement is being negotiated between the surface owner and Chesapeake. At their closest point, the nearest unleased parcels are approximately 2,300 feet away from Chesapeake's planned surface location. As always, we'd like to reiterate that Chesapeake has no plans to utilize the surface of any presently unleased parcel.

## Q20. What are the benefits to this type of unit development?

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Developing the Surratt Unit in the manner previously described not only protects the correlative rights of the unit participants, but has substantial economic and environmental benefits as well. Drilling, completing and producing multiple wells from a single surface location significantly reduces the impact on the surface. Only one access road is constructed instead of several, the need for production equipment at multiple locations is eliminated, traffic to and from the area is significantly reduced, and it allows development of acreage that might not otherwise be developed with traditional drilling methods due to surface limitations, such as local water features and residential and commercial activities. There is a significant amount of acreage in eastern Ohio, where operators have proven the Utica formation is prospective. Development through vertical wells would not be practicable for two reasons: (1) because unconventional reservoirs cannot be produced at economic flow rates or volumes with vertical drilling (as described by John Robinson); and (2) because vertical wells, even if they were practical, require numerous surface locations spaced at consistent intervals, which become impractical in areas where the surface is already occupied with other uses (such as residential and commercial activities, agricultural use, existing surface waters, and, occasionally, timber activities). In contrast, horizontal drilling is both economically practical and physically viable, since it allows operators to locate surface operations on strategically located properties, which can serve as centralized access points used to develop mineral acreage underlying otherwise inaccessible lands.

# Q21. So is it fair to say that the benefits of this type of development are substantial?

31 A21. Yes, the type of development planned by Chesapeake for the Surratt Unit, and its

1		adjacent units, offers significant benefits not only to the operator, but also to the
2		landowners in the unit and the surrounding area.
3	Q22.	Are you familiar with the Unit Plan proposed by Chesapeake for the Surratt
4		Unit?
5	A22.	Yes. The Unit Plan proposed by Chesapeake is set out in two documents attached
6		to the Application - the Unit Agreement, which establishes the non-operating
7		relationship between the parties in the unit; and a Unit Operating Agreement and
8		related exhibits, which establish how the unit is going to be explored, developed,
9		and produced.
10	Q23.	Let's turn first to the Unit Agreement, marked as Exhibit 1 to the Application.
11		Would you describe briefly what it does?
12	A23.	Yes. The Unit Agreement in effect combines the oil and gas rights in the Surratt
13		Unit so that they can be uniformly developed as if they were part of a single oil and
14		gas lease.
15	Q24.	Are mineral rights to all geological formations combined under the Unit
16		Agreement?
17	A24.	No. The Unit Agreement only unitizes the oil and gas rights located fifty feet
18		above the top of the Utica Shale to fifty feet below the base of the Point Pleasant
19		formation, defined in the Agreement as the "Unitized Formation," to allow
20		development of the Utica Shale formation.
21	Q25.	How will production proceeds from the Surratt Unit be allocated among
22		royalty interest owners and working interest owners in the Unit?
23	A25.	On a surface-acreage basis. Under Article 4 of the Unit Agreement, every tract is
24		assigned a tract participation percentage based on surface acreage and shown on
25		Exhibit A-2 to the Unit Operating Agreement. Article 5 of the Unit Agreement
26		allocates production based on that tract participation.
27	Q26.	Why use a surface-acreage basis as the method of allocation?
28	A26.	Based on the testimony of Colton Birch attached to the Application as Exhibit 3, a
29		surface-acreage basis is an appropriate method of allocation because the formation
30		thickness and reservoir quality of the Utica formation is expected to be consistent
31		across the unit.

1	Q27.	Would you go through an example from Exhibit A-2 to the Unit Operating
2		Agreement to illustrate how a surface-acreage basis would be applied to the
3		Surratt Unit?
4	A27.	Yes. If you look at the column on Exhibit A-2 to the Unit Operating Agreement
5		entitled "Surface Acres in Unit," it shows the number of surface acres in each tract
6		of land within the Surratt Unit. The adjacent column on Exhibit A-2 shows the
7		related tract participation of each tract, which is calculated by taking the total
8		number of surface acres in the tract and dividing it by the total number of surface
9		acres in the unit. So, for example, if you look at Tract Number 1 on page 1 of
10		Exhibit A-2, it shows that this particular tract owned of record by Shirley A.
11		Blizzard comprises 0.551624 surface acres in the 665.459803 acre Surratt Unit,
12		which equates to a tract participation of approximately 0.082894% (0.551624÷
13		665.459803).
14	Q28.	What does that mean in terms of production allocated to that particular tract?
15	A28.	It would mean this particular tract owned of record by Shirley A. Blizzard would
16		have allocated to it roughly 0.082894% of all production from the Surratt Unit,
17		which would then be distributed based on the terms of the lease or other relevant
18		document affecting ownership to production proceeds from the tract.
19	Q29.	Does it work the same way for an unleased mineral interest, that is, for the
20		tract of a person or entity which did not lease its property in the unit?
21	A29.	Yes. If you take a look at Exhibit A-3 to the Unit Operating Agreement, you will
22		see that it lists, among other things, the surface acreage, tract participation and
23		related working interest and unit participations of each unleased parcel in the
24		proposed unit. In the thirty-seven-tract Surratt Unit, Tract 24 is one of a few
25		unleased parcels in the unit area and illustrative of how production would be
26		allocated. The minerals under this tract are currently owned of record by Patrick
27		Mark Hunkler, specifically, and an estimated 4.313258 acres are within the unit
28		area. If the unleased acreage is divided by the full surface acreage comprising the
29		unit (665.459803 acres), the result gives a tract participation of approximately
30		0.648162% for Patrick Mark Hunkler. Under the Unit Agreement, should the
31		unleased landowners affirmatively select the non-consenting working interest

option if one is provided for in the Order, the landowners would receive a 7/8
working interest and a 1/8 royalty interest on its respective tract participation. The
landowner's royalties would be calculated on the net proceeds received by
Chesapeake at the well in accordance with the royalty provision contained in
Exhibit B to the Unit Operating Agreement and rulings in the majority of gas
producing jurisdictions that royalty owners are responsible for their proportionate
share of post-production expenses. Allowing deduction of post-production
expenses for purposes of royalty calculation provides incentive to producers to add
value to their product by post-production treatment and transportation. If producers
are not allowed to deduct a proportionate share of royalty owners' post-production
expenses that enhance the value of the product, an economic loss to all parties
results and the incentive to generate additional value disappears because producers
are required to pay for all post-production expenses, and also surrender one-eighth
of the final proceeds received.

# Q30. In your experience, is surface acreage allocation a customary way to allocate production in a unit?

- 17 A30. In my experience, surface-acreage allocation is both fair and customary for horizontal shale development.
- **Q31.** How are unit expenses allocated?

- A31. Like production in the unit, unit expenses are allocated generally on a surfaceacreage basis. Article 3 of the Unit Agreement provides that expenses, unless
  otherwise allocated in the Unit Operating Agreement, will be allocated to each tract
  of land within the unit in the proportion that the surface acres of each tract bears to
  the surface acres of the entire unit.
- 25 Q32. Who pays the unit expenses?
- 26 A32. Working interest owners.
- 27 Q33. Do the royalty owners pay any part of the unit expenses?
- A33. No. Royalty interest owners are responsible only for their proportionate share of taxes and post-production costs, payable only from their share of the proceeds from sales of production from the unit area.
- 31 Q34. Let's turn to the Unit Operating Agreement, marked as Exhibit 2 to the

1		Application. It appears to be based upon a form document. Could you please
2		identify that form document?
3	A34.	Yes. The Unit Operating Agreement is based upon A.A.P.L. Form 610 - Model
4		Form Operating Agreement – 1989. We typically use a modified version of that
5		form agreement when we enter into joint operating agreements with other parties.
6	Q35.	Are you familiar with the custom and usage of the Form 610 and other similar
7		agreements in the industry?
8	A35.	Yes. The Form 610, together with its exhibits, is a commonly used form in the
9		industry and is frequently modified to fit the needs of the parties and
10		circumstances.
11	Q36.	Turning to the Unit Operating Agreement in particular, does it address how
12		unit expenses are determined and paid?
13	A36.	Yes. Article III of the Unit Operating Agreement provides that all costs and
14		liabilities incurred in operations shall be borne and paid proportionately by the
15		working interest owners, according to their Unit Participation percentages. Those
16		percentages can be found in Exhibits A-2 and A-3 to the Unit Operating
17		Agreement. Moreover, the Unit Operating Agreement has attached to it an
18		accounting procedure identified as Exhibit C.
19	Q37.	What is the purpose of the document marked Exhibit C in connection with the
20		Surratt Unit?
21	A37.	The document provides greater details regarding how unit expenses are determined
22		and paid.
23	Q38.	At the top of each page of Exhibit C, there appears a label that reads:
24		"COPAS 1984 ONSHORE Recommended by the Council of Petroleum
25		Accountants Societies." Are you familiar with this society?
26	A38.	Yes, COPAS stands for the Council of Petroleum Accountants Societies.
27	Q39.	Is this COPAS document used in oil and gas operations across the country?
28	A39.	Yes. This form is commonly used in the industry.
29	Q40.	In your opinion, is this COPAS document generally accepted in the industry?
30	A40.	Yes. Drafted by an organization that includes members from many different

companies in diverse sections of the industry, it was designed to be generally fair to

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1		the parties. Chesapeake, in fact, is frequently subject to the COPAS in its
2		operations with other producers.
3	Q41.	Will there be in-kind contributions made by owners in the unit area for unit
4		operations, such as contributions of equipment?
5	A41.	No, Chesapeake Energy does not anticipate in-kind contributions for the Unit Op-
6		erations.
7	Q42.	Are there times when a working interest owner in the unit chooses not to – or
8		cannot – pay their allocated share of the unit expenses?
9	A42.	Yes, such a situation is not uncommon in the industry. Joint operating agreements
10		contemplate that there will be times when less than all of the working interest
11		owners choose to participate in operations on the Contract Area. The agreements
12		are drafted to allow the parties flexibility. That includes flexibility for one or more
13		working interest owners to decline to participate in an operation that they may not
14		believe will be a profitable venture or one that they cannot afford, as well as
15		flexibility for the remaining parties to proceed with such operation at their own risk
16		and expense if they wish to do so.
17	Q43.	Generally, how is the working interest accounted for when an owner chooses
18		not to participate in an operation?
19	A43.	A working interest owner who cannot or chooses not to participate is considered a
20		non-consenting party. If the remaining working interest owners decide to proceed
21		with an operation, then the consenting parties bear the full costs and expenses of
22		that operation. A non-consenting party is deemed to have relinquished its interest
23		in that operation until such time as the well pays out the costs that would have been
24		payable by that party, plus some sort of risk factor, sometimes called a risk penalty
25		or non-consent penalty.
26	Q44.	What is a risk penalty or non-consent penalty, and why are they included in
27		the agreement?
28	A44.	A risk penalty or non-consent penalty is a mechanism which recognizes that in
29		instances when a working interest owner chooses not to agree in advance to pay its
30		share of the costs of drilling a well, the other working interest owners should be
31		compensated for the financial risks they undertake in paying the costs of drilling a

1		well considering that the well may be a non-producer. Additionally, a non-consent
2		penalty can serve as a means to allow a working interest owner to finance
3		participation in a well when unable to advance its share of drilling costs.
4	Q45.	Can a working interest owner choose to go non-consent in the initial well in
5		the Surratt Unit?
6	A45.	Yes. If a working interest owner fails to participate in the unit's initial well, and if
7		that working interest owner is not a party to a separate Joint Operating Agreement
8		with Chesapeake, then Article VI.A of the Unit Operating Agreement attached to
9		this application provides that the working interest owner shall be deemed to have
10		relinquished to the other parties its working interest in the unit with a back-in
11		provision that includes a risk factor of 500%.
12	Q46.	Does the Unit Operating Agreement treat the initial well and subsequent
13		operations differently in terms of non-consent penalties, and if so, why?
14	A46.	No. A risk factor of 500% applies to the initial well and subsequent operations.
15	Q47.	But if the working interest owner still has a royalty interest in the unit, that
16		royalty interest would remain in place and be paid?
16 17	A47.	royalty interest would remain in place and be paid?  Yes. The royalty interest would still be paid even if the working interest is being
	A47.	
17	A47. Q48.	Yes. The royalty interest would still be paid even if the working interest is being
17 18		Yes. The royalty interest would still be paid even if the working interest is being used to pay off a risk factor.
17 18 19		Yes. The royalty interest would still be paid even if the working interest is being used to pay off a risk factor.  Are the risk penalty/non-consent penalty percentages included in the Unit
17 18 19 20	Q48.	Yes. The royalty interest would still be paid even if the working interest is being used to pay off a risk factor.  Are the risk penalty/non-consent penalty percentages included in the Unit Operating Agreement unusual?
17 18 19 20 21	Q48.	Yes. The royalty interest would still be paid even if the working interest is being used to pay off a risk factor.  Are the risk penalty/non-consent penalty percentages included in the Unit Operating Agreement unusual?  No. A risk penalty of 500% is fair and reasonable for working interest owners in
17 18 19 20 21 22	Q48.	Yes. The royalty interest would still be paid even if the working interest is being used to pay off a risk factor.  Are the risk penalty/non-consent penalty percentages included in the Unit Operating Agreement unusual?  No. A risk penalty of 500% is fair and reasonable for working interest owners in the Utica who have acquired their rights as lessees under current oil and gas leases.
17 18 19 20 21 22 23	Q48.	Yes. The royalty interest would still be paid even if the working interest is being used to pay off a risk factor.  Are the risk penalty/non-consent penalty percentages included in the Unit Operating Agreement unusual?  No. A risk penalty of 500% is fair and reasonable for working interest owners in the Utica who have acquired their rights as lessees under current oil and gas leases. While Chesapeake and its peers in the industry are optimistic about development of
17 18 19 20 21 22 23 24	Q48.	Yes. The royalty interest would still be paid even if the working interest is being used to pay off a risk factor.  Are the risk penalty/non-consent penalty percentages included in the Unit Operating Agreement unusual?  No. A risk penalty of 500% is fair and reasonable for working interest owners in the Utica who have acquired their rights as lessees under current oil and gas leases.  While Chesapeake and its peers in the industry are optimistic about development of the Utica and other shale formations, the projects proposed are significant capital
17 18 19 20 21 22 23 24 25	Q48.	Yes. The royalty interest would still be paid even if the working interest is being used to pay off a risk factor.  Are the risk penalty/non-consent penalty percentages included in the Unit Operating Agreement unusual?  No. A risk penalty of 500% is fair and reasonable for working interest owners in the Utica who have acquired their rights as lessees under current oil and gas leases. While Chesapeake and its peers in the industry are optimistic about development of the Utica and other shale formations, the projects proposed are significant capital investments (often exceeding \$7,000,000 per well to plan, drill and complete). In
17 18 19 20 21 22 23 24 25 26	Q48.	Yes. The royalty interest would still be paid even if the working interest is being used to pay off a risk factor.  Are the risk penalty/non-consent penalty percentages included in the Unit Operating Agreement unusual?  No. A risk penalty of 500% is fair and reasonable for working interest owners in the Utica who have acquired their rights as lessees under current oil and gas leases. While Chesapeake and its peers in the industry are optimistic about development of the Utica and other shale formations, the projects proposed are significant capital investments (often exceeding \$7,000,000 per well to plan, drill and complete). In addition, unconventional plays like the Utica are not simple, homogeneous plays.
17 18 19 20 21 22 23 24 25 26 27	Q48.	Yes. The royalty interest would still be paid even if the working interest is being used to pay off a risk factor.  Are the risk penalty/non-consent penalty percentages included in the Unit Operating Agreement unusual?  No. A risk penalty of 500% is fair and reasonable for working interest owners in the Utica who have acquired their rights as lessees under current oil and gas leases. While Chesapeake and its peers in the industry are optimistic about development of the Utica and other shale formations, the projects proposed are significant capital investments (often exceeding \$7,000,000 per well to plan, drill and complete). In addition, unconventional plays like the Utica are not simple, homogeneous plays. Within the boundaries of the play (here, the Utica Shale generally), there are likely

1	Q49.	Is a risk factor level of 500% common among the industry or in other
2		jurisdictions?
3	A49.	Typically within the Utica operators have pre-negotiated Joint Operating
4		Agreements which contain risk factors of 400%, 500%, or sometimes even higher.
5	Q50.	How are decisions made regarding unit operations?
6	A50.	Article V of the Unit Operating Agreement designates Chesapeake Exploration,
7		L.L.C., as the Unit Operator, with full operational authority for the supervision and
8		conduct of operations in the unit. Additionally, except where otherwise provided,
9		Article XVI of the Unit Operating Agreement states that any decision,
10		determination or action to be taken by the unit participants shall be based on a
11		voting procedure in which each unit participant has a vote that corresponds in value
12		to that participant's allocated responsibility for the payment of unit expenses.
13	Q51.	I believe you've already described generally the documents in Exhibits A and
14		C to the Unit Operating Agreement. Let's turn therefore to Exhibit B of the
15		Unit Operating Agreement. What is it?
16	A51.	Exhibit B is a standard oil and gas lease form that is attached to the joint operating
17		agreement to govern any unleased interests owned by the parties. Article III.A of
18		the Unit Operating Agreement provides that if any party owns or acquires an oil
19		and gas interest in the Contract Area, then that interest shall be treated for all
20		purposes of the Unit Operating Agreement as if it were covered by the form of
21		lease attached as Exhibit B.
22	Q52.	Does this oil and gas lease contain standard provisions that Chesapeake uses in
23		connection with its drilling operations in Ohio and elsewhere?
24	A52.	Yes.
25	Q53.	Moving on to Exhibit D of the Unit Operating Agreement, would you describe
26		what it is?
27	A53.	Yes, Exhibit D is the insurance exhibit to the joint operating agreement. It sets
28		forth coverage amounts and limitations, and the insurance terms for operations
29		conducted under the Unit Operating Agreement. It requires the operator, to obtain
30		General Liability coverage, including bodily injury and property damage liability,
31		in an amount of five million dollars, which is substantially similar to those

12 D. Kucab

1		employed in connection with Chesapeake's other unitized projects in the State of
2		Ohio.
3	Q54.	Would you next describe Exhibit E of the Unit Operating Agreement?
4	A54.	Yes. Exhibit E is the Gas Balancing Agreement, which further details the rights
5		and obligations of working interest parties with respect to marketing and selling
6		any production from the Contract Area. It would normally not come in to play with
7		an unleased landowner, but only with a working interest owner who desired to
8		market their share of production separately from the Operator.
9	Q55.	Has Chesapeake documented which of the working interest owners included
10		within the Surratt Unit have given their consent to the proposed unitization?
11	A55.	Yes. Exhibit 6 to the Application documents the approvals for the Unit Plan
12		received from working interest owners included within the Surratt Unit, up to the
13		time that the Application was filed. Exhibit 6 gives the approval of working
14		interest owners approving the Unit Plain; currently, that being Chesapeake and
15		Enervest operating as owners of 69.263510%. ARU, RHDK, Antero and GPOR's
16		approvals are all still pending as of the date of this Application, and Chesapeake
17		has been discussing alternatives with each of these parties regarding their
18		respective leasehold in the Surratt Unit. The tracts in which Chesapeake has a
19		working interest are depicted in Exhibit 6-1.
20	Q56.	Does the Application contain a list of the fee interest owner and mineral
21		reservation holders who have not previously agreed to enter into any oil and
22		gas lease with respect to the tracts they own, or possibly own, within the
23		Surratt Unit?
24	A56.	Yes. Exhibit A-3 to the Unit Operating Agreement lists the "unitized parties," that
25		is, the fee mineral interest owners and/or mineral reservation holders who have not
26		leased their mineral interests to any party. For notice purposes, the proper
27		addresses for these unleased parties are listed on new Guideline-5 Exhibit as well.
28	Q57.	In your professional opinion, given your education and experience, are unit
29		operations for the proposed Surratt Unit reasonably necessary to increase
30		substantially the ultimate recovery of oil and gas?
31	A57.	Yes. Unit operations for the proposed Surratt Unit are reasonably necessary to

D. Kucab

increase substantially the ultimate recovery of oil and gas. As testified by my colleagues Mr. Birch and Mr. Robinson, unit operations will promote a rational and efficient development of the Utica formation underlying the Surratt Unit. In addition, as a land professional I am supportive of any efforts to reduce waste by minimizing the number of wells and surface locations utilized for drilling operations. I understand that land is a valuable commodity and that horizontal drilling is an excellent way to accommodate both the rights of the mineral owner and the rights of the surface owner to accomplish reasonable development.

- **Q58.** Does this conclude your testimony?
- 10 A58. Yes.

D. Kucab

In re the Matter of the Application of

Chesapeake Exploration, L.L.C., for :

Unit Operation : Application Date: May 16, 2017 : Revised Date: June 26, 2017

: Revised Date: June 26, 2017 <u>Surratt Unit</u> : Revised Date: July 20, 2017

Revised Date: August 21, 2017

### AFFIDAVIT OF UNLEASED MINERAL OWNERS AND NON-CONSENTING WORKING INTEREST EFFORTS

The undersigned, being first duly sworn according to the law, makes this Affidavit and deposes and says that:

- 1. Affiant, Dan Kucab, is employed by Chesapeake Operating L.L.C., a wholly owned subsidiary of Chesapeake Energy Corporation ("Chesapeake") as a Sr. Staff Landman. Affiant's job responsibilities include the acquisition of leases in certain areas of Ohio, including Belmont and Guernsey Counties, Ohio. Affiant has personal knowledge of the matters set forth in this affidavit, and the following information is true to the best of Affiant's knowledge and belief.
- 2. Affiant has personal knowledge of the matters set forth in this affidavit, including the attachment hereto, and the following information is true to the best of Affiant's knowledge and belief.
- 3. Tracts 20, 21, 22, 24 & 35 are owned in whole or in part by various unleased mineral owners.
- 4. The Applicant has made diligent efforts to obtain a lease with each unleased mineral interest owner. Those efforts are documented in the attached chart and include making in-person visits, telephone calls, e-mail correspondence and mail correspondence.
- 5. Tracts 1, 4, 7, 10, 11, 19, 27, 29, 33, 34, 36 & 37 are owned in whole or in part by various outstanding working interest owners.
- 6. The Applicant has made a diligent effort to locate, acquire or negotiate mutually acceptable terms that would permit the Applicant to voluntarily include the outstanding working interest owned by the subject parties in Tracts 1, 4, 7, 10, 11, 19, 27, 29, 33, 34, 36 & 37 in the Surratt Unit. These efforts are documented in the attached chart and include telephone calls and e-mail correspondence.

Further Affiant sayeth naught.

Dated this 21st day of August, 2017.

Dan Kucab, Affiant Sr. Staff Landman

Chesapeake Energy Corporation

#### **ACKNOWLEDGEMENT**

STATE OF OKLAHOMA )
) SS
COUNTY OF OKLAHOMA )

The foregoing instrument was sworn to before me, a Notary Public in and for the State of Oklahoma, and subscribed in my presence this 21st day of August, 2017, by Dan Kucab, known to me or satisfactorily proven to be the Affiant in the foregoing instrument, who acknowledged the above statements to be true as Affiant verily believes.

IN WITNESS WHEREOF, I hereunto set my hand and official seal.

My Commission Expires:

(SE #120070.
# 120070.
EXP. 07/271.

OF OXLANDING

Notary Public

Tract	Owner	Parcel(s)	Address			
20 & 21	George Tharp Estate	04-00242.000	Unknown			
20 & 21	(Unleased Mineral Owners)	04-00249.000	CHRIOWII			
Date	Comments					
4/12/2017			ent of Oil and Gas Interest, filed by Anthony M Gemma and Mary A Gemma, recorded at Book 306, Page 443, Instrument			
4/12/2017	Number 201200001052 to be ineffective	ve.				
4/12/2017	Dan Kucab sent an E-mail to David Hask	kins, of DPS Land Service	es, LP, to begin curative and leasing efforts for the George Tharpe Estate.			
			conducted by a Chesapeake Representative, Ben Grubbs of DPS Land Services, LP, to attempt to locate all of the heirs of			
4/12/2017		·	vania, Courthouse in attempt to find an estate record for John Clinton Gable. They did not have one on file. Mr. Grubbs also			
4/12/2017	searched the online records of Marshal	l County, West Virginia,	in an attempt to find the estate files for Jennie Gable Younkins and Addison Gable.			
4/28/2017	Mr. Grubbs called Scott Alan Morrow, a	apparent heir of George	Tharp. He did not answer and Mr. Grubbs left a message.			
		skogee County, Oklahon	ma, Clerk of Courts about the estate of Crawford Gable, apparent heir of George Tharp. They would not provide Mr.			
4/28/2017	Grubbs with information without a writ	ten request and search	fee. A letter and check was sent by Mr. Grubbs on May 1, 2017.			
5/2/2017	Mr. Grubbs called Scott Alan Morrow. a	apparent heir of George	Tharp. He did not answer and Mr. Grubbs left a message.			
5/2/2017						
F /2 /2017		Mr. Grubbs spoke to Norma Williams, Milton Gable's daughter and apparent heir of George Tharp, by phone. She gave Mr. Grubbs the contact info of her niece, Sandra Loar, who she				
5/2/2017	believes will have a better knowledge of the family history.					
	Mr. Grubbs spoke with Sandra Loar by	Mr. Grubbs spoke with Sandra Loar by phone. She was able to provide a partial list of her cousins she was aware of in her immediate family. Mr. Grubbs asked her if she knew if Lucy and				
5/2/2017	George Tharp had children and she did not know.					
5/9/2017	Mr. Grubbs called Scott Alan Morrow, a	apparent heir of George	Tharp. He did not answer and Mr. Grubbs left a message.			
			Tharp. He did not answer and Mr. Grubbs left a message.			
6/9/2017	Mr. Grubbs called Crawford C Gable Jr,	apparent heir of George	e Tharp. The number provided is no longer valid.			
	Bounty Minerals L.L.C.		777 Main Street, Suite 340			
22	C/O Tracie Palmer	04-00252.000	Fort Worth, TX 76102			
	(Unleased Mineral Owner)		Tota Worth, TX 70102			
Date	Comments					
2/17/2017	A Release of Oil and Gas Lease was filed by Gulfport Energy Corporation, recorded at Book 668, Page 358, Instrument Number 201700001801, dated February 6, 2017, for Oil and Gas					
2/1//201/	Lease at Book 303, Page 498, Instrument Number 201200000245, containing Parcel 04-00252.000. Parcel 04-00252.000 is now open of record.					
	Dan Kucab spoke with Tracie Palmer wi	th Bounty Minerals LLC	about leasing the subject property. Tracie confirmed Bounty's interest in leasing the subject property. A lease form and			
4/26/2017	terms are currently being discussed.					

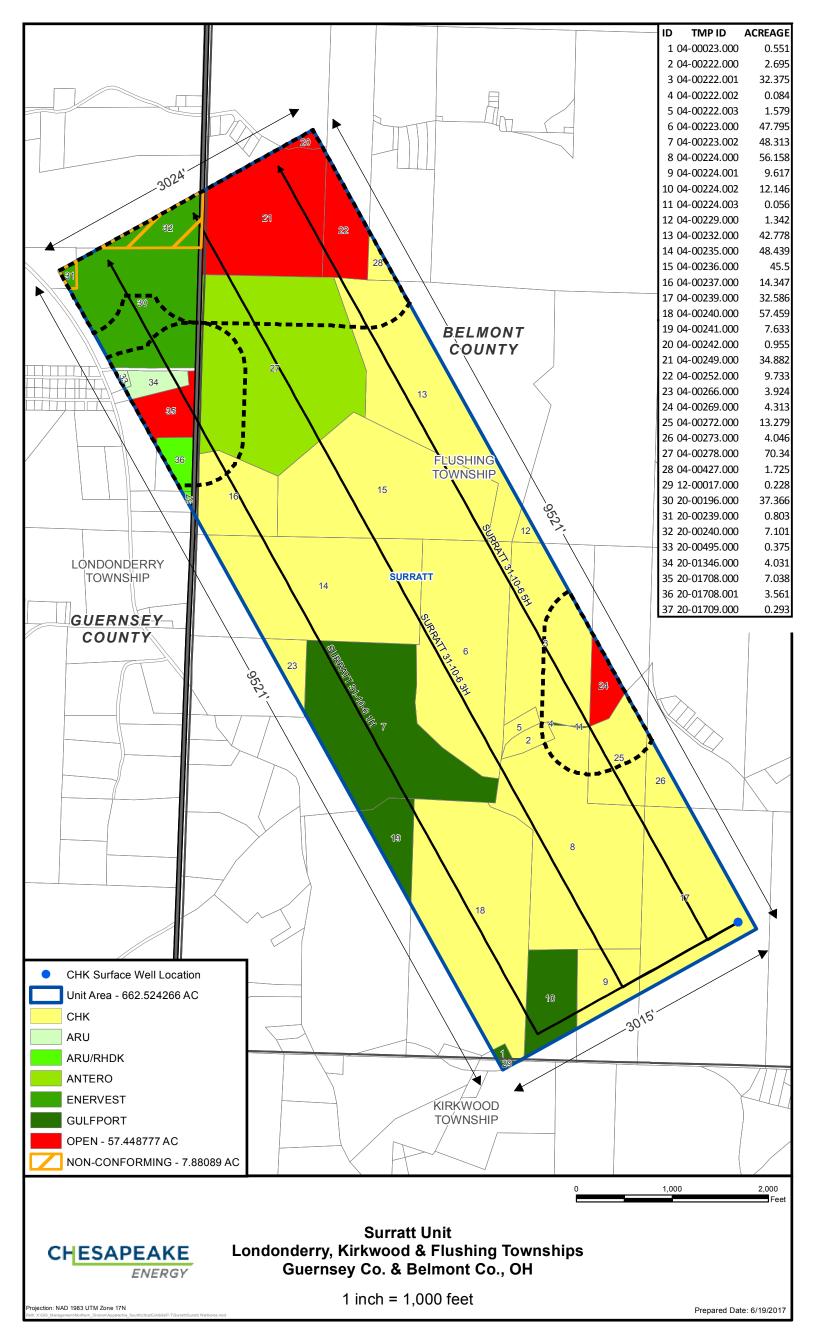
24	Patrick Mark Hunkler (Unleased Mineral Owner)	04-00269.000		4152 Headley's Mill Rd SW Pataskala, OH 43062		
Date	Comments					
1 4//5//1114	A Chesapeake Representative, Adam Warnelis of DPS Land Services, LP, called Patrick Hunkler expressing interest in leasing oil and gas rights in Belmont County, OH. Mr. Hunkler has no interest in signing an oil and gas lease for the current property.					
4/3/2013		Mr. Warnelis spoke with Mr. Hunkler by phone. He and his wife still have no intentions of signing a lease. He did mention that he is getting additional phone calls from other competitors as well. Mr. Warnelis stated that if things change, please give him a call back as Chesapeake is still very interested.				
4/21/2013		Mr. Warnelis called Mr. Hunkler to see if anything had changed regarding his interest in signing an oil and gas lease. Mr. Hunkler said he is still not interested in signing any lease. He then went on to mention that other competitors are "courting him pretty hard." Mr. Hunkler told Mr. Warnelis that if things were ever to change he would give him a call to have the first apportunity to execute the lease.				
6/23/2013	Mr. Warnelis called Mr. Hunkler, but th	e call was not answered	. A message was left as	king to return his phone call.		
	Mr. Warnelis spoke with Mr. Hunkler by phone. Mr. Hunkler and his wife were against leasing in the past, but he is now worried he may be force pooled in a unit so they are looking at lease offers again. He told Mr. Warnelis that he currently has offer from three other competitors, though he didn't want to disclose what their offers were. He mention that he was aware of the bonus amount paid to the Muskingum Watershed Conservancy District. He then stated that is he is also looking for a "pretty big bonus."					
11/11/2014	Mr. Warnelis spoke with Mr. Hunkler by phone. Mr. Warnelis had mailed Mr. Hunkler a modified lease months ago with a current offer and he was supposed to review it and get back to him. He told Mr. Warnelis that he never looked at it and was very frustrated about the possibility of force pooling. He had previously spoken to landmen from other companies that were more aggressive with him. He then told Mr. Walnelis that nothing has changed since they spoke last, that he and his wife are anti-drilling and don't want to sign a lease unless they are forced to do so. He wants to do more research on Ohio's force pooling laws before doing anything. He asked that another copy of the offer be sent to him in a couple of weeks. He then said his wife plans to retire soon and that may change their financial situation and they may be more inclined to sign.					
11/24/2014	Thomas Liles, of Chesapeake Energy, le	ft a message with Mr. H	unkler following up fro	m a conversation they had on November 19, 2014.		
12/12/2014	Mr. Liles left a message with Mr. Hunkler. Mr. Hunkler had previously stated that he did not believe in oil and gas leasing, but there appears to be a lease that he executed with Rice Drilling D LLC at Bk/Pg 366/312. Mr. Liles is trying to reach him to discuss his concerns.					
1/13/2015	Mr. Warnelis called Mr. Hunkler, but he	e did not answer. Mr. Wa	arnelis left a message r	equesting a call back.		
	Mr. Warnelis called Mr. Hunkler and spoke to Jean Backs, his wife. She said that Mr. Hunkler wasn't home and they still don't want anything to do with an Oil and Gas lease. She then said she didn't have time to talk but she would tell Mr. Hunkler that Mr. Warnelis had called. Mr. Warnelis quickly mentioned that the current offer from Cheaspeake is still valid, but he was unaware as to how much longer it will be. She said that she would mention that to Mr. Hunkler.					

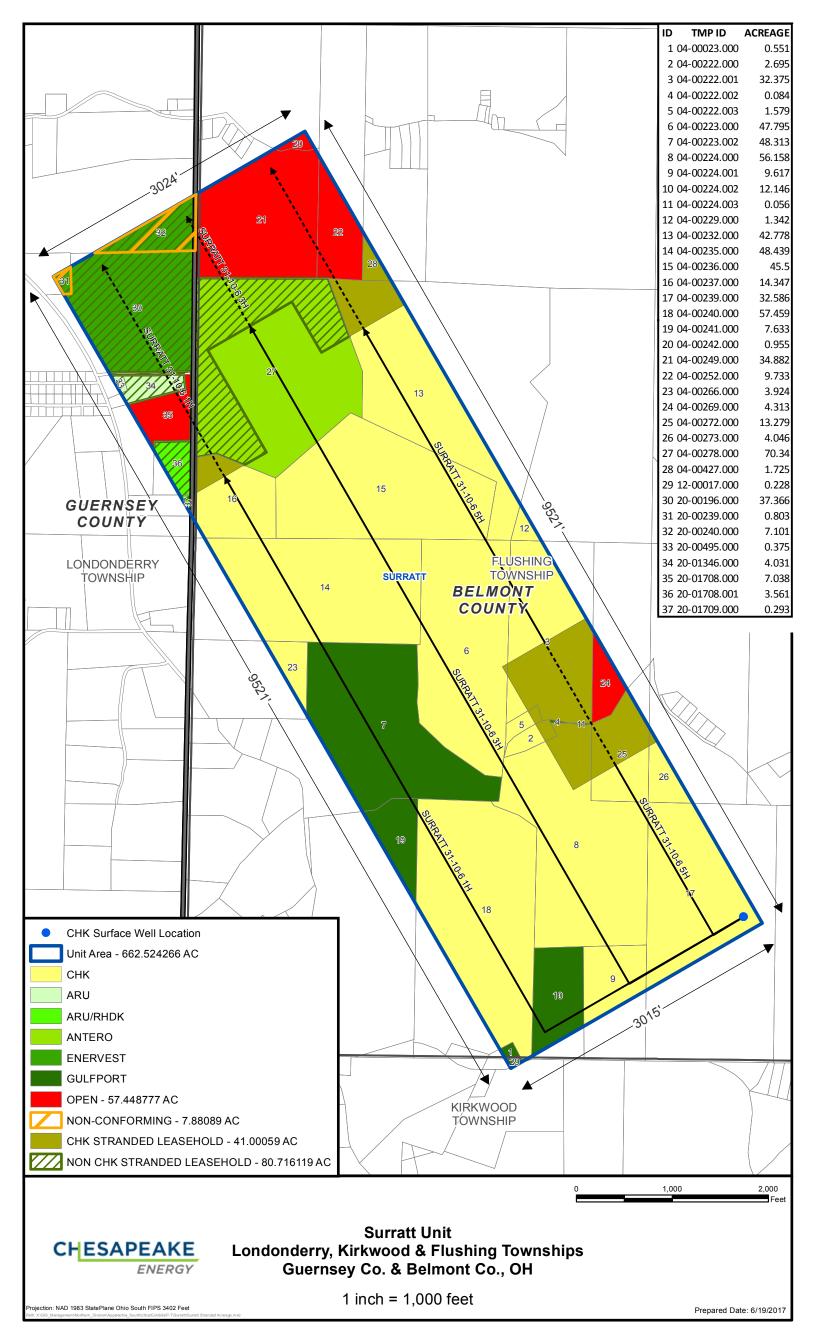
	Robert Thompson, of Chesapeake Energy, left a message for Mr. Hunkler offering to schedule a meeting with them to discuss various leasing options. Mr. Thompson also mentioned that
2/12/2015	a certified letter will be arriving at some point during the next few days. A return call was requested.
2/17/2015	Mr. Hunkler returned Mr. Thompson's call and left a message.
2/17/2015	Mr. Thompson spoke with Jean Backs. A phone call with Mr. Hunkler was then scheduled for the following morning at 8:00 am.
2/18/2015	Mr. Thompson spoke with Mr. Hunkler by phone. Mr. Hunkler went on to say that signing an oil and gas lease "would go against everything they've dedicated our lives to." Their primary concern is with the environment impact created by operations. They agreed to meet with Mr. Thompson the next time he was in Ohio.
5/21/2015	Mr. Thompson called Mr. Hunkler and left a message requesting a return phone call.
6/3/2015	Mr. Thompson left another message with Mr. Hunkler requesting a return phone call. Mr. Thompson also informed Mr. Hunkler that he would be in Ohio the following week and would like to schedule a meeting.
6/3/2015	A meeting was then scheduled with Mr. Thompson, Mr. Hunkler and Ms. Backs for June 15th at 11:00 am.
7/15/2015	Mr. Thompson was scheduled to meet with Mr. Hunkler and Ms. Backs at the Mochican State Park in Loudonville, Ohio. Mr. Thompson then drove around for over 1 hour and did not receive a response from the three message that were left for Mr. Hunkler and Ms. Backs. Mr. Thompson then returned to Canton. Cell Service was spotty, but Mr. Thompson did not have a problem finding a signal to make a call.
7/21/2015	Mr. Hunkler called Mr. Thompson to apologize for the previous week. He reiterated that they are not going to lease because they strongly oppose oil and gas development. If Mr. Thompson would like to schedule another meeting, Mr. Hunkler and his wife would be willing to listen for the sole purpose of having more information on what is taking place and how it will impact their property. During the phone call Mr. Thompson explained where their property is situated within the unit and also provided a rough estimate of the unit dimensions.
1/19/2017	A Chesapeake Representative, David Schriml of DPS Land Services, LP, met with Mr. Hunkler at his home. Mr. Hunkler had questions that he felt were not answered previously. He was not at all interested in a well that would/could damage the environment and his property. Mr. Schriml assured him that drilling follows all rules and regulations and then went over some of those with Mr. Hunkler. Mr. Schriml then gave him the current fair market offer to lease. He is interested and will speaking with his wife this weekend.
1/30/2017	Mr. Schriml attempted to reach Mr. Hunkler by phone and by visiting his house on numerous occasions. When Mr. Schriml meets with Mr. Hunkler he tells him that he wants to sign, but his wife does not. He is going to continue to try to convince her to sign a lease.
2/6/2017	Mr. Schriml meets with Mr. Hunkler in his home. His wife was not home. Mr. Hunkler then says that he believes there is a glut of oil and gas in the country and the price of it is too low right now. He said if we were at war he would sign, but that is not the current situation. A meeting is set up with Mr. Hunkler and his wife for later in the week.
2/20/2017	Mr. Schriml attempted to schedule a meeting with Mr. Hunkler and his wife.
	Mr. Schriml spoke with Ms. Backs. Mr. Schriml is planning on meeting with Mr. Hunkler and Ms. Backs the following Wednesday.
3/6/2017	Mr. Schriml met with Mr. Hunkler and reviewed an oil and gas lease with him. He is going to reconsider leasing his rights. He wants more time before making a decision.
3/22/2017	Mr. Schriml met briefly with Ms. Backs. Her position on signing an oil and gas lease has turned very negative. She will not give any reasons, but the outlook is not promising.

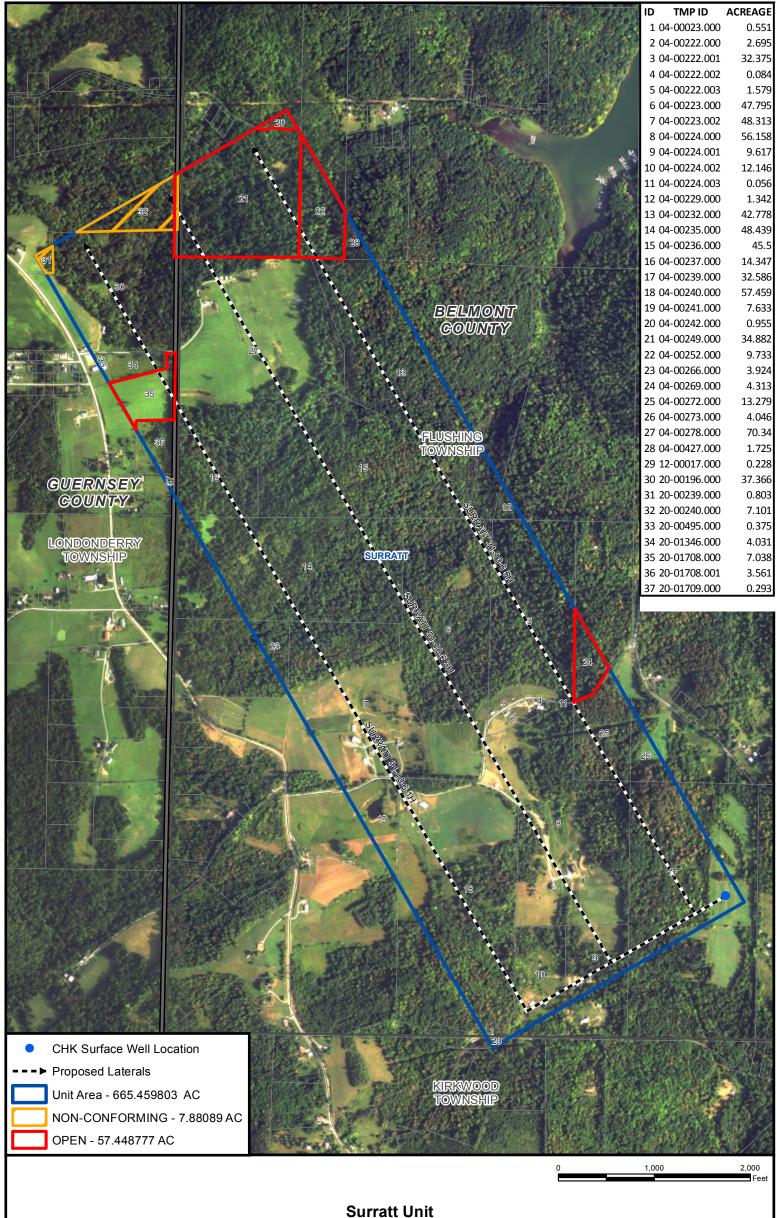
6/1 1/ 1/11	Mr. Schriml spoke with Ms. Backs and expressed to him that CHK is moving forward with a unitization hearing to include their land in a production unit. After hearing this she agreed that her husband and herself would meet with Mr. Schriml on either the 20th or 21th of June.			
35	Williams P Edmunds, Margaret A Williams and Shelly Ann Cline (Unleased Mineral Owners)	20-01708.000		72218 Freeport Road Piedmont, OH 43983
Date	Comments			
4/12/2017	Dan Kucab, of Chesapeake Energy, sent an E-mail to David Haskins, of DPS Land Services, LP, to begin leasing effort for by William P. Edmunds, Margaret A. Williams and Shelly Ann Cline.			
5/2/2017	A Chesapeake Representative, David Schhriml of DPS Land Services, LP, went to the property to attempt to discuss leasing with the mineral owners, but no one answered the door.			
5/4/2017	Mr. Schriml again went to the property to discuss leasing with the mineral owners, but no one answered.			
E /0 /2017	Mr. Schriml spoke over the phone with the wife of William P Edmunds. She stated that Mr. Edmunds is incapacitated and she has no interest in leasing their mineral rights. She then hung up abruptly on Mr. Schriml.			
5/31/2017	Mr. Schriml spoke with Mrs. Edmunds, who told him her daughter lives in Gerogia. Mrs. Edmunds stated again that she does not care about money and will not sign an oil and gas lease.			
1,4,7,10,11,1 9 & 29	Gulfport Energy Corporation C/O Lester Zitkus (Uncommitted Working Interst Owner)  O4-00223.000, 04-00223.002, 04-00223.002, 04-00224.002, 04-00224.003, 04-00224.003, 04-00224.003, 04-00241.000 & 12-00017.000			
Date	Comments			
	7 Dan Kucab, of Chesapeake Energy, sent an e-mail to Zac McCoy, of Gulfport Energy Corporation, gauging interest of a Farmout Proposal for the acreage included within the Surrat Unit.			
		Zac McCoy responds to the e-mail asking for more details on development plans.		
	Dan Kucab replies to Zac McCoy with more details on development plans.			
	Zac McCoy responds to Dan Kucab, saying that he believes they would be open to the idea of a Farmout, but would need a formal letter.			
5/5/2017	Zac McCoy e-mails Dan Kucab, agreeing	Zac McCoy e-mails Dan Kucab, agreeing to terms to assign the interest in Parcel 04-00222.002, once approval is given from CHK he will route for execution.		

27	Antero Resources Corporation C/O Brian A Kuhn (Uncommitted Working Interst Owner)	04-00278.000		1615 Wynkoop Street Denver, CO 80202	
Date	Comments				
4/4/2017	Dan Kucab, of Chesapeake Energy, e-m	ails Jordan Brandenburg,	, of Antero Resources, (	discussing interest for the lease needed within the Surratt unit.	
4/19/2017	Jordan Brandenburg replies, stating tha	t Antero would likely sel	I the interest opposed	to trading or participating.	
4/19/2017	Dan Kucab e-mails Jordan Brandenburg	, gauging interest in a Fa	rmout agreement.		
5/8/2017	Spencer Booth, of Antero Resources, e	mails Dan Kucab asking a	bout CHK purchasing t	he interest.	
5/19/2017	Dan Kucab replies to Spencer Booth, w	th an offer of a 1 year te	erm assignment, and als	so mentions purchasing acreage needed for the Keller Unit.	
5/19/2017	Spencer Booth replies to Dan Kucab say	ing the term are not fav	orable.		
5/19/2017	Dan Kucab e-mails Spencer Booth with	a modified offer for the	acreage needed in the	Surrat and Keller Units.	
	Spencer Booth replies to Dan Kucab asl				
6/13/2017	Dan Kucab calls Spencer Booth, left voi	cemail requesting a call b	pack.		
	Ascent Resources - Utica, LLC	20-00495.000,		301 NW 63rd	
33, 34, 36 &		20-01346.000,		Suite 600	
37	(Uncommitted Working Interst	20-01708.001 &		Oklahoma City, OK 73116	
	Owner)	20-01709.000		Chianoma dity) on 75115	
	Comments				
	Katie Langwell, of Ascent Resources, e-				
	Dan Kucab, of Chesapeake Energy, repl			s trades together to get it done faster.	
5/1/2017	Katie Langwell replies, stating that ARU	wants to keep the acrea	age trades separate.		
	John Schneider, of Ascent Resources, e	-mails Dan Kucab letting	him know the acreage	needed for the Surratt Unit located in Londonderry township is available in a trade he is currently	
	working on.				
				g worked in a separate trade by Andy Lawrence, of Chesapeake Energy.	
	Any Lawrence e-mails Blake Jenkinson, of Ascent Resources, asking him if he is aware RHDK owns a 25% interest in the leases needed.				
	Blake Jenkinson replies claiming the Ascent owns 100% of the working interest in the leases.				
	Andy Lawrence e-mails Blake Jenkinson with the assignment from ARU to RHDK for a 25% working interest in the leases needed in the Surratt Unit.				
	Blake Jenkinson replies, concurring with the RHDK interest and recommending that the leases needed for the Surratt Unit be excluded from the trade.				
5/26/2017	Andy Lawrence replies, saying that CHK	would prefer that the le	eases included in the Su	urrat be included in the trade.	
	Dan Kucab emails Blake Jenkinson and Andy Lawrence, stating CHK is ok with the acreage being excluded from the trade, as long as ARU agrees to execute a working interest approval				
	form for the Surrat Unit should a separate agreement to assign the acreage not be in place with a committed working interest owner prior to 7/31/17.				
	Blake Jenkinson replies, saying that Ascent does not execute working interest approval forms, but Ascent will not hold and or protest CHK at the upcoming unitization hearing for the				
6/2/2017	Surratt Unit.				

6/7/2017	Blake Jenkinson e-mails Dan Kucab and Andy Lawrence, again stating that Ascent will not protest any unitization hearings for CHK Surratt Unit.					
6/7/2017	6/7/2017 Dan Kucab replies to Blake Jenkinson, saying CHK would still like to have a deal in place prior to the end of July.					
36 & 37	RHDK Oil & Gas, LLC C/O Keith B Kimble (Uncommitted Working Interst Owner)  20-01708.001 & 3596 State Route 39 NW Dover, OH 44622					
Date	Comments					
5/3/2017	5/3/2017 Dan Kucab, of Chesapeake Energy, e-mails Matt Berkeley, of RHDK Oil & Gas LLC, regarding their interest in the Surrat Unit.					
	Matt Berkeley e-mails Dan Kucab, saying that RHDK needs to work through some transactions before responding on the interest included in the Surray unit. He will keep pushing on his 217 end to get it through.					









Londonderry, Kirkwood & Flushing Townships Guernsey Co. & Belmont Co., OH

#### WORKING INTEREST OWNER

#### APPROVAL OF

#### UNIT PLAN FOR THE

#### SURRATT UNIT

Flushing, Kirkwood & Londonderry Townships

Belmont & Guernsey Counties, Ohio

#### KNOW ALL MEN BY THESE PRESENTS:

WHEREAS, a Unit Plan has been prepared for the testing, development, and operation of certain Tracts identified therein, which Plan consists of an agreement entitled, "Unit Agreement, The Surratt Unit, Flushing & Londonderry Townships, Belmont & Guernsey Counties, Ohio," dated May 16, 2017 (the "Unit Agreement"); and an agreement entitled, "A.A.P.L. Form 610-1989 Model Form Operating Agreement," also regarding the Surratt Unit and of like date (the "Unit Operating Agreement"); and,

WHEREAS, the undersigned is the owner of a Working Interest in and to one or more of the Tracts identified in said Unit Plan, namely, the Tracts identified below (hereinafter, the "Owner").

NOW, THEREFORE, the Owner hereby approves the Unit Plan and acknowledges receipt of full and true copies of both the Unit Agreement and the Unit Operating Agreement.

IN WITNESS WHEREOF, the undersigned has executed this instrument on the date set forth opposite the signature of its representative.

WORKING INTEREST OWNER

TRACT NO. (see attached Exhibit 6.1)

TRACT ACREAGE <u>415.648811</u>

RELATED WORKING INTEREST PERCENTAGE 62.460393%

CHESAPEAKE EXPLORATION, L.L.C.

CHK UTICA, L.L.C.

Date 3/21/2017

Dan Kucab, Sr. Staff Landman - ETL Land - Appalachia

# **WORKING INTEREST OWNER**

# APPROVAL OF

# UNIT PLAN FOR THE

# SURRATT UNIT

Flushing, Kirkwood & Londonderry Townships

Belmont & Guernsey Counties, Ohio

# KNOW ALL MEN BY THESE PRESENTS:

WHEREAS, a Unit Plan has been prepared for the testing, development, and operation of certain Tracts identified therein, which Plan consists of an agreement entitled, "Unit Agreement, The Surratt Unit, Flushing & Londonderry Townships, Belmont & Guernsey Counties, Ohio," dated May 16, 2017 (the "Unit Agreement"); and an agreement entitled, "A.A.P.L. Form 610-1989 Model Form Operating Agreement," also regarding the Surratt Unit and of like date (the "Unit Operating Agreement"); and,

WHEREAS, the undersigned is the owner of a Working Interest in and to one or more of the Tracts identified in said Unit Plan, namely, the Tracts identified below (hereinafter, the "Owner").

NOW, THEREFORE, the Owner hereby approves the Unit Plan and acknowledges receipt of full and true copies of both the Unit Agreement and the Unit Operating Agreement. IN WITNESS WHEREOF, the undersigned has executed this instrument on the date set forth opposite the signature of its representative.

WORKING INTEREST OWNER

TRACT NO. 30, 31 & 32

TRACT ACREAGE 45.272009

RELATED WORKING INTEREST PERCENTAGE <u>6.803117%</u>

ENERVEST OPERATING, L.L.C.

7/14/17 By:

arkes D. McKinney,

Senior Vice President and General Manager On Behalf of All EnerVest Entities Exhibit 6

Attached to and made a part of that certain Unit Operating Agreement dated May 16, 2017 as approved by the Ohio Department of Natural Resources for the Surratt Unit.

Exhibit 6.1

TRACT NUMBER	LESSOR AND/OR CURRENT MINERAL OWNER(S)	SURFACE ACRES IN UNIT	TAX MAP PARCEL ID NUMBERS
2	JOAS AND FANNIE MILLER	1.347650	04-00222.000
2	BLACK HAWK ROYALTY III LP	0.449217	04-00222.000
2	WNH PROFIT SHARING PLAN	0.449217	04-00222.000
2	JACK B SEARLE	0.449217	04-00222.000
3	WILLIAM E ERB & ANNA M ERB, TRUSTEES OF THE WILLIAM E AND ANNA M ERB FAMILY IRREVOCABLE TRUST DATED 5/12/2016	32.375844	04-00222.001
5	WILLIAM E ERB & ANNA M ERB, TRUSTEES OF THE WILLIAM E AND ANNA M ERB FAMILY IRREVOCABLE TRUST DATED 5/12/2016	1.579000	04-00222.003
6	TRIPLE B TRUCKING, INC	47.795100	04-00223.000
8	JOAS AND FANNIE MILLER	28.079000	04-00224.000
8	BLACK HAWK ROYALTY III LP	9.359667	04-00224.000
8	WNH PROFIT SHARING PLAN	9.359667	04-00224.000
8	JACK B SEARLE	9.359667	04-00224.000
9	MAHLON D YODER AND DENA D YODER	9.617300	04-00224.001
12	CAMP PRESMONT, INC	1.342285	04-00229.000
13	TRIPLE B TRUCKING, INC	42.778183	04-00232.000
14	JOHN WILLIAM KEATING, JEAN A KEATING AND JOHN F KEATING	48.439476	04-00235.000
15	JOHN WILLIAM KEATING, JEAN A KEATING AND JOHN F KEATING	45.500000	04-00236.000
16	JOHN WILLIAM KEATING, JEAN A KEATING AND JOHN F KEATING	14.347253	04-00237.000
17	HAROLD J SURRATT AND JEANNE CHRISLIP	32.586645	04-00239.000
18	BRIAN L FRITTER DONNA J BOND GREGORY A FRITTER JEFFERY S FRITTER	57.459382	04-00240.000
20	ANTHONY M GEMMA AND MARY A GEMMA (50% LEASED)	0.000000	04-00242.000
21	KENNETH LYNN MARSH GLENNA SUE MARSH STEPHAN CLAY MARSH BRENT MARSH (50% LEASED)	0.000000	04-00249.000
23	DONALD W HOSTETLER AND SHERRY L HOSTETLER	3.924371	04-00266.000
25	HAROLD J SURRATT AND JEANNE CHRISLIP	13.279100	04-00272.000
26	HAROLD J SURRATT AND JEANNE CHRISLIP	4.046370	04-00273.000
28	ALERT BOOSTERS CAMP, INC.	0.862601	04-00427.000
28	JANE MUELLER SESTRIC JOSEPH A MUELLER JOHN K MUELLER JUDITH MUELLER STEINBACH	0.862601	04-00427.000
		415.648811	

In re the Matter of the Application of : Chesapeake Exploration, L.L.C., for :

Unit Operation : Application Date: May 16, 2017

Surratt Unit :

#### LEASE AFFIDAVIT

I, Dan Kucab, being first duly cautioned and sworn, do hereby depose and state as follows:

- 1. Affiant, Dan Kucab, is employed by Chesapeake Operating, L.L.C, a wholly owned subsidiary of Chesapeake Energy Corporation ("Chesapeake" or "Applicant") as a Sr. Staff Landman. My day-to day responsibilities include assisting with our oil and gas development program in eastern Ohio in the Appalachia South business unit for the Applicant. Affiant has personal knowledge of the facts stated herein, and the following information is true to the best of Affiant's knowledge and belief.
- 2. Pursuant to Ohio Revised Code § 1509.28, the Applicant has filed an application with the Chief of the Division of Oil and Gas Resources Management requesting an order authorizing Applicant to operate the Unitized Formation and applicable land area, identified as the Surrat Unit, according to the Unit Plan attached thereto (the "Application") (as those terms are used and defined therein). The Surratt is located in Belmont & Guernsey County, Ohio, and consists of thirty-seven (37) separate tracts of land covering approximately 665.459803 acres.
- 3. To my knowledge, the Applicant holds oil and gas leases (or equitable title thereto or operational rights thereto) covering all of the Applicant's acreage, being nineteen (19) of the thirty-seven (37) tracts, as set forth in greater detailed in Exhibit A-2 of the Unit Operating Agreement attached to this Application.

Further Affiant sayeth naught.

Dan Kucab – Sr. Staff Landman

#### ACKNOWLEDGMENT

STATE OF OKLAHOMA	)
	) SS
COUNTY OF OKLAHOMA	)

The foregoing instrument was sworn to before me, a Notary Public in and for the State of Oklahoma, and subscribed in my presence this 21<sup>st</sup> day of August, 2017, by Dan Kucab, known to me or satisfactorily proven to be the Affiant in the foregoing instrument, who acknowledged the above statements to be true as Affiant verily believes.

IN WITNESS WHEREOF, I hereunto set my hand and official seal.

My Commission Expires: 1-27-20

# 12007039 EXP. 07/27/20 1

(SEAL)

Printed Name of Notary

Public

In re the Matter of the Application of Chesapeake Exploration, L.L.C., for Unit Operation

Application Date: May 16, 2017

Surratt Unit

#### AFFIDAVIT OF OWNERSHIP

I, Dan Kucab, being first duly cautioned and sworn, do hereby depose and state as follows:

- 1. My name is Dan Kucab and I am a Sr. Staff Landman with Chesapeake Operating, L.L.C., a wholly owned subsidiary of Chesapeake Energy Corporation ("Applicant"). My day-to day responsibilities include assisting with our oil and gas development program in eastern Ohio in the Appalachia South business unit for the Applicant, and I have personal knowledge of the facts stated herein.
- 2. Pursuant to Ohio Revised Code § 1509.28, the Applicant has filed an application with the Chief of the Division of Oil and Gas Resources Management requesting an order authorizing Applicant to operate the Unitized Formation and applicable land area, identified as the Surratt Unit, according to the Unit Plan attached thereto (the "Application") (as those terms are used and defined therein). The Surratt is located in Belmont and Guernsey County, Ohio, and consists of thirty-seven (37) separate tracts of land covering approximately 665.459803 acres.
- 3. As of the Application Date set forth above, the Applicant and other committed working interest owners are the owners, as that term is defined in Ohio Revised Code § 1509.01(K), of at least 65% of the land overlying the Unitized Formation, as outlined on Exhibit A-2.

Further Affiant sayeth naught.

Dan Kucab – Sr. Staff Landman

#### ACKNOWLEDGMENT

STATE OF OKLAHOMA	)	
	) SS	-
COUNTY OF OKLAHOMA	)	

The foregoing instrument was sworn to before me, a Notary Public in and for the State of Oklahoma, and subscribed in my presence this 21<sup>st</sup> day of August, 2017, by Dan Kucab, known to me or satisfactorily proven to be the Affiant in the foregoing instrument, who acknowledged the above statements to be true as Affiant verily believes.

IN WITNESS WHEREOF, I hereunto set my hand and official seal,

My Commission Expires: 7-27-70

HIJAN OF OKLA

(SEAL)

In re the Matter of the Application of Chesapeake Exploration, L.L.C. for Unit

Operation : Application Date: May 16, 2017

:

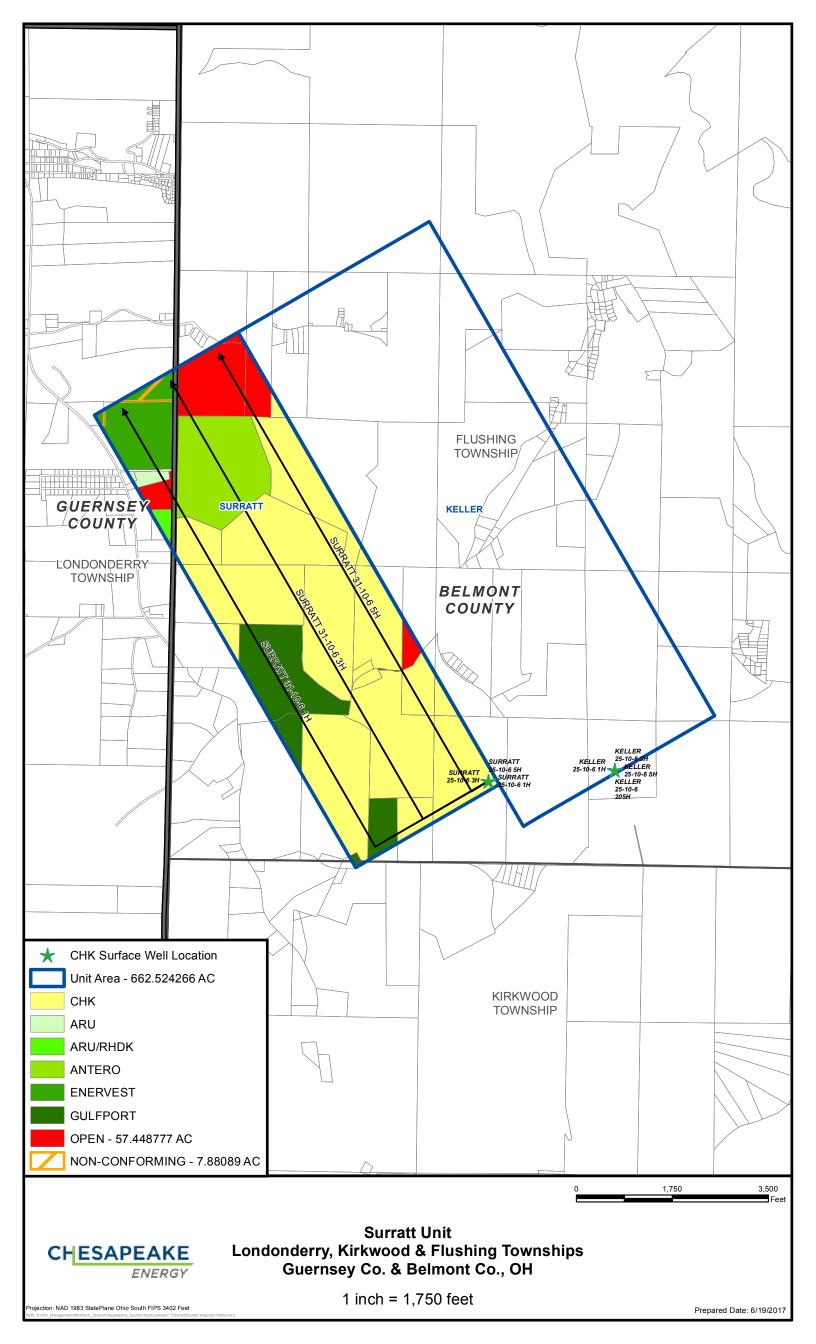
Surratt Unit

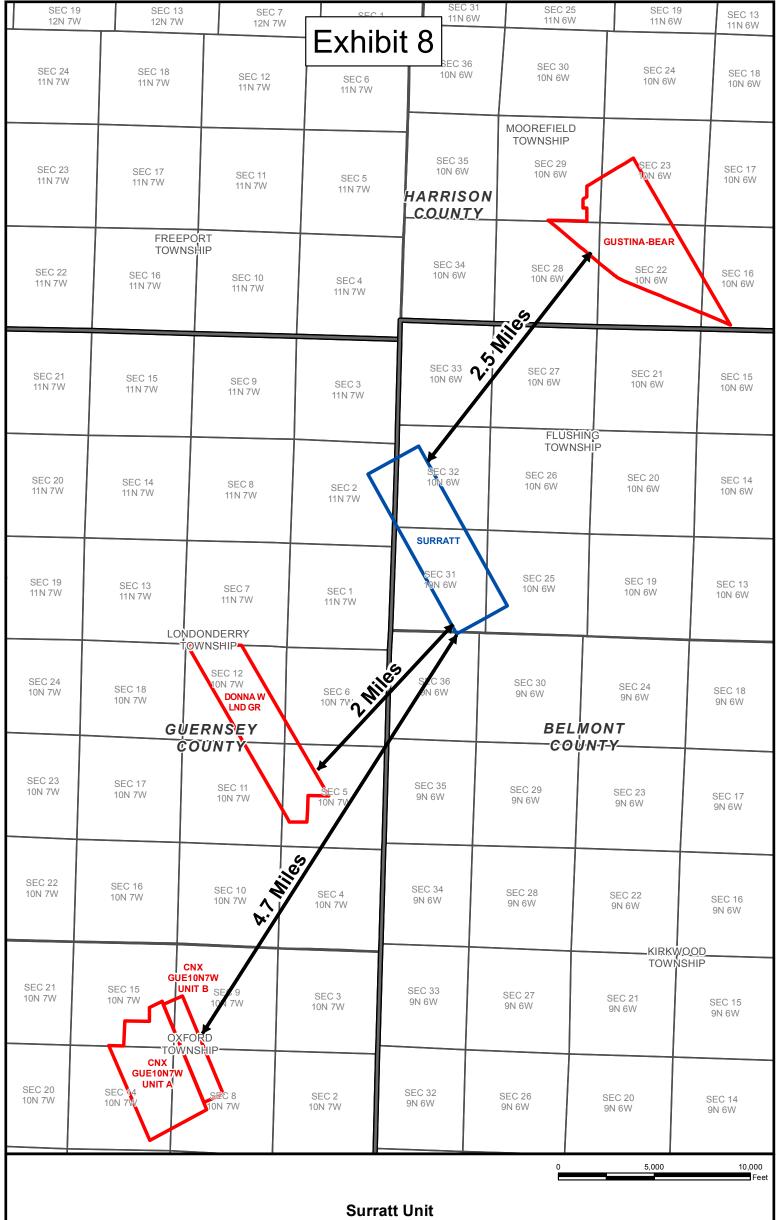
#### RIGHT TO DRILL AND PRODUCE AFFIDAVIT

- I, Dan Kucab, being first duly sworn and cautioned, affirm and state as follows:
- 1. Affiant is competent to testify on the matters contained in this affidavit.
- 2. I am employed at Chesapeake Operating, L.L.C., a wholly owned subsidiary of Chesapeake Energy Corporation as a Sr. Staff Landman and my job duties included assisting with its oil and gas development program in eastern Ohio in the Appalachia business unit.
- 3. Affiant has the authority to sign this Affidavit on behalf of Chesapeake Energy Corporation and Chesapeake Exploration, L.L.C. (collectively, "Chesapeake").
- 4. Pursuant to Ohio Revised Code § 1509.28, Chesapeake has filed an application with the Chief of the Division of Oil and Gas Resources Management (the "Division") requesting an order authorizing Chesapeake to operate the Unitized Formation and applicable land area, identified as the Surratt Unit, according to the Unit Plan attached thereto (the "Application") (as those terms are used and defined therein). The Surratt Unit is located in Belmont and Guernsey Counties, Ohio, and as a unit of an entire pool or part thereof consists of thirty-seven (37) separate tracts of land covering approximately 665.459803 acres.
- 5. As a result of Affiant's job duties, Affiant, or persons under Affiant's direction or supervision, has personal knowledge of the matters set forth in this affidavit. Further, Affiant has thoroughly reviewed all documents on which Chesapeake claims its legal right to conduct oil and gas exploration and production operations in the Surratt Unit for all tracts that Chesapeake has the right to drill into and produce in the Unitized Formation by virtue of a lease, operating agreement, fee title, or otherwise.
- 6. Affiant further states that by submitting the Application for the Surratt Unit, Chesapeake has the right to drill into and produce from all formations proposed in the Application and to appropriate the oil or gas produced from all tracts that it claims to have the right to drill into and produce from by virtue of a lease, operating agreement, fee title, or as otherwise stated in its Application.
- 7. Affiant understands that the Division of Oil and Gas Resources Management is relying on the statements and representations contained in this Affidavit to verify that the Chesapeake has the legal right to drill into and produce from all formations proposed in the Surratt Unit and that the Chesapeake has the right to drill into and produce from all tracts identified in the proposed Surratt Unit by virtue or a lease, operating agreement, fee title, or otherwise.
- 8. Affiant states that the above is a true and accurate to the best of Affiant's knowledge and belief and that no part of it is false.

#### FURTHER AFFIANT SAYETH NAUGHT.

	By:
	Dan Kucab – Sr. Staff Landman
STATE OF)	
COUNTY OF)	
Sworn to and subscribed before men Staff Landman for Chesapeake Energy Corp	this 21st day of August, 2017, by Dan Kucab, Sr. poration.
	Notary Public
My commission expires:	, and the second





CHESAPEAKE ENERGY Londonderry, Kirkwood & Flushing Townships Guernsey Co. & Belmont Co., OH

#	API Number	Display Name	Unit	Prod Start (Date)	Lateral (ft)
1	3406721155	GUSTINA-BEAR 1-23H	GUSTINA-BEAR	3/4/2014	5,940'
2	3406721156	GUSTINA-BEAR 2-23H	GUSTINA-BEAR	3/5/2014	6,986'
3	3406721157	GUSTINA-BEAR 3-23H	GUSTINA-BEAR	3/2/2014	6,840'
4	3405924428	DONNA W LND GR 2H	DONNA W LND GR	1/13/2017	8,500'
5	3405924429	DONNA W LND GR 4H	DONNA W LND GR	1/13/2017	7,700'
6	3405924433	DONNA W LND GR 6H	DONNA W LND GR	1/10/2017	7,750'
7	3405924221	CNX GUE 10N7W 1H-8	CNX GUE 10N7W Unit A	2/19/2014	4,891'
8	3405924234	CNX GUE10N7W 2H-8	CNX GUE 10N7W Unit A	3/28/2014	4,811'
9	3405924235	CNX GUE10N7W 3H-8	CNX GUE 10N7W Unit A	1/29/2014	4,558'
10	3405924250	CNX GUE 10N7W 4H-8	CNX GUE 10N7W Unit B	12/19/2013	4,521

In re the Matter of the Application of Chesapeake Exploration, L.L.C., for Unit Operation

Application Date:

May 16, 2017

Surratt Unit

#### AFFIDAVIT OF JOINT VENTURE

The undersigned, being first duly sworn according to the law, makes this Affidavit and deposes and says that:

- Affiant, Dan Kucab, is employed by Chesapeake Operating L.L.C., a wholly owned subsidiary of Chesapeake Energy Corporation ("Chesapeake") as a Sr. Staff Landman. Affiant's job responsibilities include, but are not limited to, working directly with TOTAL E&P USA, Inc. Affiant has personal knowledge of the matters set forth in this affidavit, and the following information is true to the best of Affiant's knowledge and belief.
- Chesapeake Exploration, L.L.C. and CHK Utica, L.L.C. entered into a Development Agreement dated 12/30/2011 and made effective 11/1/11 with Total E&P USA, Inc., to jointly develop certain geographical areas within the State of Ohio.

Further Affiant sayeth naught.

Dated this 21st day of August, 2017.

Dan Kucab, Affiant

Sr. Staff Landman

Chesapeake Energy Corporation

#### **ACKNOWLEDGEMENT**

STATE OF OKLAHOMA	)	
	)	SS
COUNTY OF OKLAHOMA	)	

The foregoing instrument was sworn to before me, a Notary Public in and for the State of Oklahoma, and subscribed in my presence this 21st day of August, 2017, by Dan Kucab, known to me or satisfactorily proven to be the Affiant in the foregoing instrument, who acknowledged the above statements to be true as Affiant verily believes.

IN WITNESS WHEREOF, I hereunto set my hand and official seal.

My Commission Expires:

Notary Public

In re the Matter of the Application of : Chesapeake Exploration, L.L.C., for Unit :

Operation : Application Date: May 16, 2017

: Revised Date: June 26, 2017 : Revised Date: July 20, 2017

Surratt Unit Revised Date: August 21, 2017

#### **DUE DILIGENCE AFFIDAVIT**

I, Dan Kucab, being first duly sworn and cautioned, affirm and state as follows:

- 1. Affiant is competent to testify on the matters contained in this affidavit.
- 2. Affiant, Dan Kucab is employed at Chesapeake Operating, L.L.C., a wholly owned subsidiary of Chesapeake Energy Corporation ("Applicant"). My day-to day responsibilities include assisting with our oil and gas development program in eastern Ohio in the Appalachia South business unit for the Applicant, and I have personal knowledge of the facts stated herein.
- 3. Affiant has the authority to sign this Affidavit on behalf of Chesapeake Energy Corporation.
- 4. Pursuant to Ohio Revised Code § 1509.28, Chesapeake Energy Corporation is filing an application with the Chief of the Division of Oil and Gas Resources Management (DOGRM) requesting an order authorizing Chesapeake Energy Corporation to operate the Unitized Formation and applicable land area, identified as the Surratt Unit. The Surratt is located in Belmont and Guernsey Counties, Ohio, and as a unit of an entire pool or part thereof consists of thirty-seven (37) separate tracts of land covering approximately 665.459803 acres.
- 5. As a function of Affiant's job duties, Affiant, or persons under Affiant's direction or supervision, has personal knowledge of the matters set forth in this affidavit. Further, Affiant, or persons under Affiant's direction or supervision, has reviewed all documents which reflect Chesapeake Energy Corporation's efforts to identify and locate mineral interest owners within the proposed unit.
- 6. Affiant attests that Chesapeake Energy Corporation acted with due diligence to identify all mineral interest owners within the proposed unit and ascertain their current addresses. These efforts included performing title work, court records, reviewing marriage and birth records, death records, searching county auditor tax records, searching records maintained by the United States Postal Service, utilizing electronic resources, etc. Affiant further attests that where it was not reasonably possible or practicable to identify mineral interest owners' identities or addresses, Chesapeake Energy Corporation will provide notice by publication of a hearing scheduled pursuant to R.C. 1509.28.
- 7. Chesapeake Energy Corporation attests that, to the best of its knowledge, the names and addresses it has provided to DOGRM are accurate.
- 8. Affiant understands that the DOGRM is relying on the statements and representations contained in this Affidavit to verify that Chesapeake Energy Corporation has acted with all due diligence to identify and locate mineral interest owners for tracts contained within the proposed unit. Further, Chesapeake Energy Corporation understands its duty to provide to DOGRM updated mineral interest owners information as soon as is practicable, and

understands that updated information (e.g., identifying a previously unknown heir) may result in a new or rescheduled unitization hearing.

9. Affiant states that the above is a true and accurate to the best of Affiant's knowledge and belief.

FURTHER AFFIANT SAYETH NAUGHT.

By: Dan Kucab - Sr. Staff Landman

STATE OF OKLAHOMA )

COUNTY OF OKLAHOMA )

The foregoing instrument was sworn to before me, a Notary Public in and for the State of Oklahoma, and subscribed in my presence this 21st day of August, 2017, by Dan Kucab, known to me or satisfactorily proven to be the Affiant in the foregoing instrument, who acknowledged the above statements to be true as Affiant verily believes.

IN WITNESS WHEREOF, I hereunto set my hand and official seal.

My Commission Expires: 1-27-7

(SEAL)

# 12007039
EXP. 07/27/20

OF OKLANDING

Notary Public