



October 12, 2010

**VIA HAND-DELIVERY**

Mr. Mark E. Fesmire  
Oil Conservation Division  
New Mexico Department of Energy,  
Minerals and Natural Resources  
1220 South Saint Francis Drive  
Santa Fe, New Mexico 87505

Re: Case Nos. 14477 and 14478/ Order No. R-13303: Applications of Chesapeake Exploration, LLC Doing Business Through Its Agent, Chesapeake Operating Inc. for Statutory Unitization of the Chambers Strawn Unit Area and for Approval of a Waterflood Project and Qualification of the Project Area of the Chambers Strawn Unit for the Recovered Oil Tax Rate Pursuant to the Enhanced Oil Recovery Act, Lea County, New Mexico.

Dear Mr. Fesmire:

On September 9, 2010, the Division granted Chesapeake Operating Inc.'s ("Chesapeake") application to statutorily unitize the Chambers Strawn Unit Area and approved a waterflood project and certified the project as an "Enhanced Oil Recovery Project" eligible for the enhanced oil recovery tax rate in Order No. R-13303. The Unitized Formation was amended in the Order to comprise "that stratigraphic interval underlying the Unit Area from the base of the Strawn Carbonate formation to a point 100 feet above the top of the Strawn Carbonate formation. See page 7, Order Paragraph 3. Since the Unitized Formation was revised from what was proposed to and ratified by the interest owners in the Unit, the Division required Chesapeake to seek re-ratification of the Unit Agreement with the amended language by at least 75 percent of working and non-cost bearing interest owners. See page 8, Order Paragraph 5.

Accordingly, Chesapeake has enclosed ratifications from at least 75 percent of both working and royalty interest owners. Also, enclosed for your information is the vote totals for both working and royalty interest owners showing at least 75 percent have ratified the revised Unit Agreement. Pursuant to Order Paragraph 5 of Order No. R-13303, Chesapeake respectfully requests a supplemental order certifying that the Unit Agreement, as revised, has been approved by at least 75 percent of the working and royalty interest owners.



Also, there appears to be an error in the description of the Unit Area on page 7, Order Paragraph 2. The Unit Area is described as including the NW/4, S/2 NW/4 and the SW/4 of Section 8. However, the correct description of the Unit Area for Section 8 is the **NW/4** NW/4, S/2 NW/4 and the SW/4. This is the description used on page 2, Finding Paragraph 2. Since this appears to be merely a clerical error, Chesapeake requests that the Supplemental Order also include a correction of the Unit Area in Section 8.

Chesapeake requests a supplemental order be issued as soon as possible. Thank you for your time and attention to this matter. Please let me know if you have any questions or concerns.

Very truly yours,

A handwritten signature in black ink that reads "Ocean Munds-Dry".

Ocean Munds-Dry  
Attorney for Chesapeake Operating Inc.

cc: Will Jones

Enclosures

**STATE OF NEW MEXICO  
ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT  
OIL CONSERVATION DIVISION**

**IN THE MATTER OF THE HEARING CALLED BY THE OIL  
CONSERVATION DIVISION FOR THE PURPOSE OF CONSIDERING:**

**THE APPLICATION OF CHESAPEAKE EXPLORATION, LLC DOING  
BUSINESS THROUGH ITS AGENT, CHESAPEAKE OPERATING INC., FOR  
STATUTORY UNITIZATION OF THE CHAMBERS STRAWN UNIT AREA,  
LEA COUNTY, NEW MEXICO**

**CASE NO. 14477**

**THE APPLICATION OF CHESAPEAKE EXPLORATION, LLC, DOING  
BUSINESS THROUGH ITS AGENT, CHESAPEAKE OPERATING, INC., FOR  
APPROVAL OF A WATERFLOOD PROJECT AND QUALIFICATION OF THE  
PROJECT AREA OF THE CHAMBERS STRAWN UNIT FOR THE  
RECOVERED OIL TAX RATE PURSUANT TO THE ENHANCED OIL  
RECOVERY ACT, LEA COUNTY, NEW MEXICO**

**CASE NO. 14478  
ORDER NO. R-13303**

**ORDER OF THE DIVISION**

**BY THE DIVISION:**

These cases came on for hearing at 8:15 a.m. on May 27, 2010 at Santa Fe, New Mexico before Examiner William V. Jones.

NOW, on this 9<sup>th</sup> day of September, 2010, the Division Director, having considered the testimony, the record and the recommendations of the Examiner,

**FINDS THAT:**

1. Due public notice has been given, and the Division has jurisdiction of this case and its subject matter.

2. In Case No. 14477, Chesapeake Exploration, LLC doing business as Chesapeake Operating, Inc. ("Chesapeake") seeks statutory unitization, pursuant to the Statutory Unitization Act, NMSA 1978 Sections 70-7-1 through 70-7-21, as amended ("the Statutory Unitization Act"), of 480 acres, more or less, of fee lands located in Lea County, New Mexico, more particularly described as follows,

TOWNSHIP 16 SOUTH, RANGE 36 EAST, NMPM

Section 7: NE/4, NE/4 SE/4  
Section 8: NW/4 NW/4, S/2 NW/4, SW/4

The proposed Chambers Strawn Unit statutory unit is for the purpose of instituting secondary recovery operations which include a waterflood project within the Northeast Shoe Bar-Strawn Pool, and approval of the Unit Agreement and the Unit Operating Agreement, which were submitted as Applicant's Exhibits No. 2 and 5 in this case.

3. In Case No. 14478, Chesapeake seeks approval to institute secondary recovery operations including a waterflood project for the injection of water into the Strawn formation, Northeast Shoe Bar-Strawn Pool, initially through the following two injection wells:

Chambers 7 Well No. 1	API No. 30-025-33623	1700FNL, 900FEL, H-7-16S-36E
Runnels 8 Well No. 1	API No. 30-025-34264	780FSL, 1510FWL, N- 8-16S-36E

Chesapeake further seeks provisions allowing for the administrative approval of additional injection wells and seeks to qualify the proposed project as an "Enhanced Oil Recovery Project" pursuant to the "Enhanced Oil Recovery Act" (NMSA 1978 Sections 7-29A-1 through 7-29A-5, as amended).

4. Cases No. 14477 and 14478 were consolidated at the hearing for the purpose of testimony. Because the cases involve the same property and subject matter, a single order is being issued in both cases.

5. No party entered an appearance in these cases or otherwise indicated opposition to the implementation of enhanced recovery operations or the unitization of the Unit Area.

6. The proposed vertical extent ("Unitized Formation") of the unit is that stratigraphic interval occurring from the base of the Strawn Carbonate formation to 100 feet above the top of the Strawn Carbonate formation. This Strawn Carbonate interval is located at the following depths shown on logs in the following Chesapeake Operating, Inc. wells, all located in Township 16 South, Range 36 East, N.M.P.M., Lea County, New Mexico:

a. Runnels "8" Well No. 1 (API No. 30-025-34264) located 780 feet from the South line and 1510 feet from the West line of Section 8, between 11442 feet and 11738 feet (-7490 feet to -7786 feet subsea),

b. Alston "8" Well No. 1 (API No. 30-025-33876) located 2281 feet from the South line and 531 feet from the West line of Section 8, between 11422 feet and 11706 feet (-7463 feet to -7747 feet subsea), and

c. Chambers "7" Well No. 1 (API No. 30-025-33623) located 1700 feet from the North line and 900 feet from the East line of Section 7, between 11376 feet and 11660 feet (-7459 feet to -7743 feet subsea).

7. Chesapeake presented the testimony of landman Terry Frohnapfel as follows:

- (a) In late March, 2010 the proposed unit was proposed by Chesapeake to the working interest owners in the unit area. On April 15, 2010, Chesapeake conducted a working interest meeting to review the proposed unitization plan and the unit agreement with the other working interest owners in the unit area and on April 19, 2010 provided the Unit Agreement and Unit Operating Agreement to all working interest owners and all royalty owners in the Unit Area. Since that time, and in accordance with the provisions of the Unit Agreement, Chesapeake has had numerous conversations with the owners in the Unit Area concerning this proposed unit.
- (b) The proposed Unit contains seven separate tracts owned by numerous parties. All owners within this proposed Unit have valid addresses and notices were sent to all owners for purposes of forming this statutory unit. Tracts comprising the 480 acres committed to the Unit are in private ownership and comprise 100% of the unit area. Approximately 75.6% of the working interest was committed to the unit at the time of hearing; and when the ratifications are received from owners who have expressed an interest in participating but had not returned their ratification forms, approximately 93% of the working interest will be committed to the Unit. Owners of 100% of the non-cost bearing interests were committed to the Unit at the time of the hearing.

8. Chesapeake presented the testimony of petroleum geologist Chima Nzewunwah interpreted as follows:

- (a) The primary stratigraphic interval of interest in the proposed Chambers Strawn Unit is the Strawn carbonate. The porous algal mound within the Strawn contains hydrocarbons and the best candidate for waterflooding is the clean limestone in the upper part of the Strawn.
- (b) Core data is available on one well and 3-D seismic and well control were both used to determine the extent of this reservoir.
- (c) The Structure Map shows an east/southeast downward dip on the top of the Strawn carbonate and logs show generally increasing water to the south and southeast. When the Type Log and the Structure Map are compared, it is clear that the portion of the reservoir that is proposed to be unitized is reasonably defined by development.

- (d) The hydrocarbon pore volume map (greater than 5% porosity and less than 45 API units gamma ray) shows that the pore volume does change within this reservoir but, based on water saturation information and hydrocarbon pore volume data, the target porosity is present over the proposed unit area and the entire unitized area should contribute additional secondary reserves.
- (e) The unit area shows good continuity, the entire proposed unit area should contribute enhanced recovery reserves, and it is well suited for secondary recovery operations.

9. Chesapeake presented the testimony of petroleum engineer Everett Bradley interpreted as follows:

- (a) The Strawn oil is approximately 43 degree API gravity and has no H<sub>2</sub>S contaminant. The initial reservoir pressure was estimated at 4,200 psi and current pressure is estimated at 800 psi. The permeability is very good within this Strawn algal mound even at over 11,000 feet deep. There is no indication of a secondary gas cap on this reservoir.
- (b) The reservoir has been produced to date under primary recovery operations and 90% of ultimate primary has already been recovered. The estimated remaining primary gross production from the Unit Area amounts to approximately 68,000 barrels of oil.
- (c) The secondary recovery operation will be initiated with two injection wells and only one production well and will be implemented in one phase.
- (d) The estimated additional capital costs of implementing the proposed secondary plan are 1.25 million dollars.
- (e) The estimated future gross production from the Unitized Formation of the Unit Area if the proposed secondary recovery operation is implemented is approximately 572,000 barrels of oil and 580,000 Mcf of natural gas.
- (f) Unitized management of this pool is necessary to effectively implement and carry on the proposed secondary recovery operations.
- (g) The tract participation formula in the Unit Agreement was presented at the working interest owners meeting and is based on tract percentages of the unit for the following parameters: latest average production rate, remaining primary reserves, ultimate primary recovery volume, volume of original oil in place, and number of usable wellbores. This formula allocates unitized substances to the owners of each tract on a fair, reasonable and equitable basis.

- (h) Each of the two proposed injection wells is expected to take 1800 barrels of produced water per day. Makeup produced water will be transported from 6 or 7 miles to the east and no fresh makeup water will be used.
- (i) Injection pressures are expected to initially be low and the proposed maximum injection pressure for each injection well is based on 0.2 psig per foot of depth to the top of the injection interval. If a higher pressure is needed, Chesapeake will justify the pressure increase with a step rate test.
- (j) The two active wells which penetrate the Strawn formation within the ½ mile areas of review have adequate cement to isolate the injection interval and to protect fresh water, and no remedial work is required on these wells.
- (k) There are no plugged and abandoned wells in the two areas of review that penetrated into the Strawn formation.
- (l) The fresh ground water in this area consists of the Ogallala formation that produces from intervals 51 to 160 feet in depth. There is no evidence of non-sealing geologic faults or inadequately cemented wellbores between the proposed waterflood interval and protectable waters. The proposed injection operation will not pose a threat to any freshwater supplies.
- (m) Waterflooding of this Unit Area is expected to be profitable and is necessary to extend the producing life of this reservoir and prevent waste of hydrocarbons.

10. Ronald Miles, mineral owner in Section 17 to the southeast was present at the hearing and asked about the extent of this reservoir within Section 17. Chesapeake's engineer stated that the acreage within the northeastern portion of Section 17 is likely not part of the Strawn reservoir being targeted by Chesapeake for this Unit and this waterflood.

11. Division records indicate that a well located within Unit Letter P of Section 7, the Chambers Well No. 2, API No. 30-025-36317, is producing a low volume of oil and high volume of water from the Strawn formation. This well is offsetting the proposed Unit but Chesapeake's testimony and post-hearing correspondence indicate this well is not connected to the proposed waterflood or the algal mound portion of the Strawn formation.

12. Chesapeake has made a good faith effort to secure voluntary unitization of the Unitized Formation within the Unit Area.

13. The proposed Unit Agreement and Unit Operating Agreement contain satisfactory provisions with respect to all of the matters required by NMSA 1978 Section 70-7-7, as amended.

14. The tract participation formula contained in the proposed Unit Agreement allocates the produced and saved, unitized hydrocarbons to the separately owned tracts in the Unit Area on a fair, reasonable and equitable basis.

15. The estimated additional costs of the proposed operations will not exceed the estimated value of the additional oil and gas recovered plus a reasonable profit.

16. As of the hearing date, owners of more than 75% of the working interest and owners of 100% of the non-cost bearing interest have voluntarily committed to the unit, as the unit was defined at that time. The definition of the Unitized Interval changed after the date of this hearing – raising the base of the Unitized interval from “100 feet below the base of the Strawn” to “the base of the Strawn”. Despite having the required concurrence for the previously worded Unit Agreement, Chesapeake should seek approval from owners of this unit for the currently worded Unit Agreement.

17. The provisions of the proposed Unit Agreement and Unit Operating Agreement are fair and reasonable. The statutory unitization of the Unitized Formation within the Unit Area in accordance with the plan embodied in the Unit Agreement and the Unit Operating Agreement will prevent waste and protect correlative rights.

18. Statutory unitization and adoption of applicant’s proposed unitized method of operation will benefit the working interest and royalty interest owners within the proposed Unit Area, and will prevent waste and protect correlative rights of all parties.

19. The unitized management, operation and further development of the Northeast Shoe Bar-Strawn Pool in the proposed Unit Area is reasonably necessary in order to effectively carry on the proposed secondary recovery project, which will substantially increase the ultimate recovery of oil and gas from this pool, and delays in implementing this project are detrimental to ultimate recovery from this reservoir.

20. The applicant proposes to institute a secondary recovery (waterflood) project within the Chambers Strawn Unit Area.

21. The evidence presented demonstrates that (i) the application for approval of the proposed secondary recovery project has not been prematurely filed either for economic or technical reasons; and (ii) the area affected by the proposed project has been so depleted by primary operations that it is prudent to apply secondary recovery techniques to maximize the ultimate recovery of crude oil from the Northeast Shoe Bar-Strawn Pool.

22. The proposed waterflood is feasible and will result with reasonable probability in the recovery of substantially more oil and gas from the unitized portion of the pool than would otherwise be recovered.

23. The proposed Chambers Strawn Unit Waterflood Project should be approved and should be governed by 19.15.26.1 through 19.15.26.15 NMAC.



24. The evidence establishes that the proposed secondary recovery project meets all the criteria for certification by the Division as a qualified "Enhanced Oil Recovery Project" pursuant to the "Enhanced Oil Recovery Act" (NMSA 1978 Sections 7-29A-1 through 7-29A-5).

25. The certified "project area" should initially comprise the area approved for statutory unitization as described above in this order.

26. The area within the waterflood project and/or the producing wells within such area eligible for the recovered oil tax rate may be contracted and reduced dependent upon the evidence presented by the applicant in its demonstration of the occurrence of a positive production response.

**IT IS THEREFORE ORDERED THAT:**

1. The application of Chesapeake Operating Inc. for the statutory unitization of 480 acres, more or less, in Lea County, New Mexico, to be known as the Chambers Strawn Unit, is hereby approved pursuant to the Statutory Unitization Act, Sections 70-7-1 through 70-7-21, NMSA 1978, subject to the following provisions.

2. The Chambers Strawn Unit shall comprise the following described 480 acres, more or less, of fee lands located in Lea County, New Mexico:

**TOWNSHIP 16 SOUTH, RANGE 36 EAST, NMPM**

Section 7: NE/4, NE/4 SE/4

Section 8: NW/4, S/2 NW/4, SW/4

3. The Unitized Formation shall comprise that stratigraphic interval underlying the Unit Area from the base of the Strawn Carbonate formation to a point 100 feet above the top of the Strawn Carbonate formation. This Strawn Carbonate interval is located at the following depths shown on logs in the following Chesapeake Operating, Inc. wells, all located in Township 16 South, Range 36 East, N.M.P.M., Lea County, New Mexico:

a. Runnels "8" Well No. 1 (API No. 30-025-34264) located 780 feet from the South line and 1510 feet from the West line of Section 8, between 11442 feet and 11738 feet (-7490 feet to -7786 feet subsea),

b. Alston "8" Well No. 1 (API No. 30-025-33876) located 2281 feet from the South line and 531 feet from the West line of Section 8, between 11422 feet and 11706 feet (-7463 feet to -7747 feet subsea), and

c. Chambers "7" Well No. 1 (API No. 30-025-33623) located 1700 feet from the North line and 900 feet from the East line of Section 7, between 11376 feet and 11660 feet (-7459 feet to -7743 feet subsea).

4. The Unit Agreement, with the unitized interval as defined above, and the Unit Operating Agreement shall be effective upon entry of an order certifying that these instruments have been ratified as required. These agreements shall be incorporated by reference into this order.

5. This order shall not become effective until the Unit Agreement as amended to revise the definition of the "Unitized Formation" has been ratified by (i) those persons who will be required initially to pay at least 75 percent of the costs of unit operations, and (ii) the owners of at least 75 percent of the production or proceeds thereof that will be credited to interests which are free of costs, and the Division has made a finding in a supplemental order that the Unit Agreement, as changed, has been so approved. If approval is not obtained within six months from the date of this order, this order shall be of no further effect unless the Division shall extend the time for ratification.

6. The applicant shall notify the Division Director in writing of any removal of the applicant as unit operator or substitution as unit operator of any other working interest owner within the Unit Area. In the event a person other than Chesapeake assumes operation of the unit established hereby, such person shall comply with all the terms and provision of this order.

7. The unit established hereby shall terminate upon the plugging and abandonment of the last well in the Unit Area completed in the Unitized Formation.

8. Chesapeake is hereby authorized to institute enhanced recovery operations within the Unit Area by the injection of produced water, limited to only the Strawn formation, within Unitized Formation of the Northeast Shoe Bar-Strawn Pool through the two wells shown below. Said wells are located in Sections 7 and 8 of Township 16 South, Range 36 East, NMPM, Lea County, New Mexico.

Injection Well and API	Location	Allowable Gross Injection Interval, Feet
Chambers 7 Well No. 1 (API No. 30-025-33623)	1700FNL, 900FEL, H-7-16S-36E	11376 to 11660
Runnels 8 Well No. 1 (API No. 30-025-34264)	780FSL, 1510FWL, N- 8-16S-36E	11442 to 11738

9. No fresh water shall be used as make-up water or otherwise injected.

10. Chesapeake shall take all steps necessary to ensure that the injected water enters only the proposed injection interval and is not permitted to escape to other formations or onto the surface from injection, production, or plugged and abandoned wells.

11. Injection into each of the wells shall be accomplished through lined injection tubing installed in an injection packer. Said packer must be located within 100 feet of the actual uppermost injection perforation or injection interval. The casing-tubing annulus shall be filled with an inert, corrosion resistant fluid, and a gauge or approved leak-detection device shall be attached to the annulus in order to determine leakage in the casing, tubing, or packer.

12. The injection wells or pressurization system shall be equipped with a pressure control device or acceptable substitute that is capable of limiting the surface injection pressure on each well. The maximum allowable surface pressure on any injection well within this waterflood project shall be limited to **no more than 2275 psi**.

13. The Division Director may administratively authorize a pressure limitation in excess of the above upon a showing by the operator that such higher pressure will not result in the fracturing of the injection formation or confining strata in any well.

14. The Division Director may administratively authorize additional injection wells within the Unit Area as provided in 19.15.26.8G(5) NMAC.

15. Prior to commencing injection operations, the casing in each well shall be pressure tested throughout the interval from the surface down to the casing/tubing packer setting depth to assure the integrity of such casing.

16. The unit operator shall give advance notice to the supervisor of the Division's Hobbs District Office of the date and time (i) injection equipment will be installed, and (ii) the mechanical integrity pressure test will be conducted on the proposed injection wells, so that these operations may be witnessed.

17. The unit operator shall immediately notify the supervisor of the Division's Hobbs District Office of any failure of the tubing, casing or packer in any of the injection wells or the leakage of water, oil or gas from or around any producing or plugged and abandoned well within the project area, and shall promptly take all steps necessary to correct such failure or leakage.

18. The unit operator shall conduct injection operations in accordance with 19.15.26.1 through 19.15.26.15 NMAC and shall submit monthly progress reports in accordance with 19.15.26.13 NMAC and 19.15.7.24 NMAC.

19. The injection authority granted herein for each well shown on Exhibit "A" shall terminate one year after the date of this order if the unit operator has not commenced injection operations into the well; provided, however, the Division, upon written request, may grant an extension for good cause.

20. The waterflood project authorized by this order shall be known as the Chambers Strawn Unit Waterflood Project.

21. The Chambers Strawn Unit Waterflood Project is hereby certified as an "Enhanced Oil Recovery Project" pursuant to the "Enhanced Oil Recovery Act" (NMSA 1978 Sections 7-29A-1 through 7-29A-5). The project area shall comprise the entire Chambers Strawn Unit, described in Ordering Paragraph No. 2; provided the area and/or the producing wells eligible for the enhanced oil recovery (EOR) tax rate may be contracted and reduced based upon the evidence presented by the unit operator in its demonstration of a positive production response.

22. At such time as a positive production response occurs, and within five years from the date of this order, the unit operator must apply to the Division for certification of a positive production response. This application shall identify the area benefiting from enhanced oil recovery operations and the specific wells eligible for the EOR tax rate. The Division may review the application administratively or set it for hearing. Based upon the evidence presented, the Division will certify to the New Mexico Taxation and Revenue Department those wells that are eligible for the EOR tax rate.

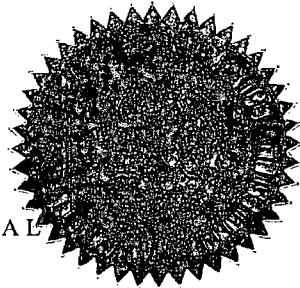
23. The injection authority granted under this order is not transferable except upon Division approval. The Division may require the operator to demonstrate mechanical integrity of any injection well that will be transferred prior to approving transfer of authority to inject.

24. The Division may revoke the injection authority for any well after notice and hearing if the operator is in violation of 19.15.5.9 NMAC.

25. Compliance with this order does not relieve the operator of the obligation to comply with other applicable federal, state or local laws or rules, or to exercise due care for the protection of fresh water, public health and safety and the environment.

26. Jurisdiction is retained by the Division for the entry of such further orders as may be necessary for the prevention of waste and/or protection of correlative rights or upon failure of the operator to conduct operations (i) to protect fresh or protectable waters or (ii) consistent with the requirements in this order, whereupon the Division may, after notice and hearing, or without notice and hearing in case of emergency, terminate the injection authority granted herein.

DONE at Santa Fe, New Mexico, on the day and year hereinabove designated.



STATE OF NEW MEXICO  
OIL CONSERVATION DIVISION

A handwritten signature in dark ink, appearing to read "Mark E. Fesmire".

MARK E. FESMIRE, P.E.  
Acting Director

**Chambers Strawn Unit  
Re-Ratification Approval Totals  
Case Nos. 14477 and 14478  
Order No. R-13303**

**Approvals / Working Interest Owners**

Number	Percent	
12	100.0	Total Working Interest owners in proposed unit.
8	75.8	Percent of Working Interest owners approving the revised Unit Agreement
4	24.1	Have not responded

**Approvals / Mineral Interest Owners & Overriding Royalty Interest Owners**

Number	Percent	
22	100.0	Total Mineral Interest/ORRI owners in proposed unit.
17	88.8	Percent of Mineral Interest owners approving the revised Unit Agreement.
5	11.2	Have not responded

Note: There are 5 ORRI owners included in this number count, their interest cannot be included toward the approval percent total.

14 out of 17 mineral owners have approved the unit agreement.  
3 out of 5 overriding royalty owners have approved the revised Unit Agreement.

**RATIFICATION OF THE UNIT AGREEMENT  
FOR THE CHAMBERS STRAWN UNIT  
LEA COUNTY, NEW MEXICO**

The undersigned working interest owner (whether one or more) hereby acknowledge receipt of a copy of that certain agreement dated April 1, 2010, as amended, entitled the Unit Agreement, Chambers Strawn Unit, Lea County, New Mexico covering the lands and interests described therein in Township 16 South, Range 36 East, N.M.P.M., Lea County, New Mexico, which agreement is hereinafter referred to as the "Unit Agreement."

The undersigned (whether one or more) hereby acknowledge receipt of a copy of New Mexico Oil Conservation Division Order No. R-13303, dated September 9, 2010 which approved the Chambers Strawn Unit pursuant to the New Mexico Statutory Unitization Act, as set forth in Sections 70-7-1 through 70-7-21 NMSA (1978), which order is hereinafter referred to as the "Approval Order."

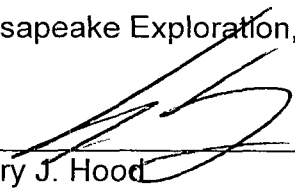
The undersigned also represents that it is the owner of working interest, in the lands or minerals embraced in said agreement and do hereby consent and ratify all of the terms and provisions of the Unit Agreement, exactly the same as if the undersigned had executed the original of the Unit Agreement or a counterpart thereof.

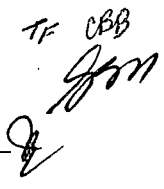
The undersigned agrees that this consent and ratification shall be binding on the undersigned, their successors and assigns and shall constitute ratification and joinder in compliance with Statutory Unitization Act and the Approval Order.

EXECUTED this 17<sup>th</sup> day of September, 2010.

WITNESS:

Chesapeake Exploration, L.L.C.

By:   
Title: Senior Vice-President Land  
and Legal & General Counsel

TF CBB  


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

STATE OF OKLAHOMA

ss.

COUNTY OF OKLAHOMA

The foregoing instrument was acknowledged before me on the 15th day of September, 2010, by Henry J. Hood, Sr. Vice President – Land & Legal and General Counsel, Chesapeake Exploration, L.L.C., an Oklahoma limited liability company.

WITNESS my hand and official seal.



Ann Wendorf  
Notary Public

My Commission expires:

12/11/11

**RATIFICATION OF THE UNIT AGREEMENT  
FOR THE CHAMBERS STRAWN UNIT  
LEA COUNTY, NEW MEXICO**

The undersigned working interest owner (whether one or more) hereby acknowledge receipt of a copy of that certain agreement dated April 1, 2010, as amended, entitled the Unit Agreement, Chambers Strawn Unit, Lea County, New Mexico covering the lands and interests described therein in Township 16 South, Range 36 East, N.M.P.M., Lea County, New Mexico, which agreement is hereinafter referred to as the "Unit Agreement."

The undersigned (whether one or more) hereby acknowledge receipt of a copy of New Mexico Oil Conservation Division Order No. R-13303, dated September 9, 2010 which approved the Chambers Strawn Unit pursuant to the New Mexico Statutory Unitization Act, as set forth in Sections 70-7-1 through 70-7-21 NMSA (1978), which order is hereinafter referred to as the "Approval Order."

The undersigned also represents that it is the owner of working interest, in the lands or minerals embraced in said agreement and do hereby consent and ratify all of the terms and provisions of the Unit Agreement, exactly the same as if the undersigned had executed the original of the Unit Agreement or a counterpart thereof.

The undersigned agrees that this consent and ratification shall be binding on the undersigned, their successors and assigns and shall constitute ratification and joinder in compliance with Statutory Unitization Act and the Approval Order.

EXECUTED this 21<sup>st</sup> day of September, 2010.


WITNESS:

Chesapeake Investments, L.P.

By: 

Title:

  
Address:

  
Chesapeake Investments, L.P.  
P.O. Box 18756  
Oklahoma City, OK 73154



STATE OF Oklahoma

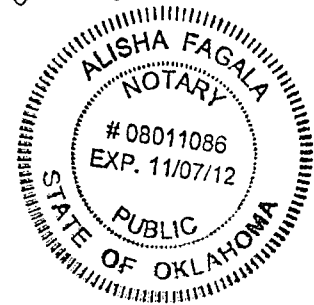
COUNTY OF Oklahoma

The foregoing instrument was acknowledged before me on 21<sup>st</sup> day of September, 2010, by Aubrey K. McClendon,  
General Partner, of Chesapeake Investments, L.P.

WITNESS my hand and official seal.

Alisha Lagala  
Notary Public

My Commission expires: 11.7.12



**RATIFICATION OF THE UNIT AGREEMENT  
FOR THE CHAMBERS STRAWN UNIT  
LEA COUNTY, NEW MEXICO**

The undersigned working interest owner (whether one or more) hereby acknowledge receipt of a copy of that certain agreement dated April 1, 2010, as amended, entitled the Unit Agreement, Chambers Strawn Unit, Lea County, New Mexico covering the lands and interests described therein in Township 16 South, Range 36 East, N.M.P.M., Lea County, New Mexico, which agreement is hereinafter referred to as the "Unit Agreement."

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The undersigned also represents that it is the owner of working interest, in the lands or minerals embraced in said agreement and do hereby consent and ratify all of the terms and provisions of the Unit Agreement, exactly the same as if the undersigned had executed the original of the Unit Agreement or a counterpart thereof.

The undersigned agrees that this consent and ratification shall be binding on the undersigned, their successors and assigns and shall constitute ratification and joinder in compliance with Statutory Unitization Act and the Approval Order.

EXECUTED this 30th day of SEPTEMBER, 2010.

WITNESS:

David Petroleum Corp.

Edward M. David  
By: EDWARD M. DAVID  
Title: Executive Vice President

Address: David Petroleum Corp.  
116 W. 1<sup>st</sup> Street  
Roswell, NM 88203

STATE OF \_\_\_\_\_

COUNTY OF \_\_\_\_\_

The foregoing instrument was acknowledged before me on \_\_\_\_\_ day of  
\_\_\_\_\_, 2010, by \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_.

WITNESS my hand and official seal.

\_\_\_\_\_  
Notary Public

My Commission expires: \_\_\_\_\_

**RATIFICATION OF THE UNIT AGREEMENT  
FOR THE CHAMBERS STRAWN UNIT  
LEA COUNTY, NEW MEXICO**

The undersigned working interest owner (whether one or more) hereby acknowledge receipt of a copy of that certain agreement dated April 1, 2010, as amended, entitled the Unit Agreement, Chambers Strawn Unit, Lea County, New Mexico covering the lands and interests described therein in Township 16 South, Range 36 East, N.M.P.M., Lea County, New Mexico, which agreement is hereinafter referred to as the "Unit Agreement."

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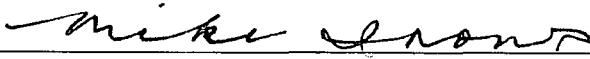
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The undersigned agrees that this consent and ratification shall be binding on the undersigned, their successors and assigns and shall constitute ratification and joinder in compliance with Statutory Unitization Act and the Approval Order.



EXECUTED this 22nd day of September, 2010.

WITNESS:

ICA Energy, Inc.

  
By: MIKE IRONS  
Title: PRESIDENT

FORM  
ONE

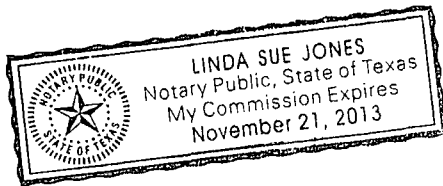
   
Address: ICA Energy, Inc.  
700 N. Grant Ave.  
Odessa, TX 79760-0233

STATE OF TEXAS

COUNTY OF ECTOR

The foregoing instrument was acknowledged before me on 22ND day of  
SEPTEMBER, 2010, by MIKE IRONS, PRESIDENT OF  
ICA ENERGY, INC., A TEXAS CORPORATION, ON BEHALF OF SAID  
CORPORATION.

WITNESS my hand and official seal.



Linda Sue Jones  
Notary Public

My Commission expires: 11-21-2013

**RATIFICATION OF THE UNIT AGREEMENT  
FOR THE CHAMBERS STRAWN UNIT  
LEA COUNTY, NEW MEXICO**

The undersigned working interest owner (whether one or more) hereby acknowledge receipt of a copy of that certain agreement dated April 1, 2010, as amended, entitled the Unit Agreement, Chambers Strawn Unit, Lea County, New Mexico covering the lands and interests described therein in Township 16 South, Range 36 East, N.M.P.M., Lea County, New Mexico, which agreement is hereinafter referred to as the "Unit Agreement."

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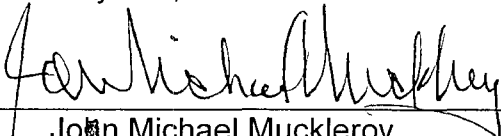
The undersigned also represents that it is the owner of working interest, in the lands or minerals embraced in said agreement and do hereby consent and ratify all of the terms and provisions of the Unit Agreement, exactly the same as if the undersigned had executed the original of the Unit Agreement or a counterpart thereof.

The undersigned agrees that this consent and ratification shall be binding on the undersigned, their successors and assigns and shall constitute ratification and joinder in compliance with Statutory Unitization Act and the Approval Order.

EXECUTED this 19<sup>th</sup> day of September, 2010.

WITNESS:

Playtime, Inc.

  
By: John Michael Muckleroy  
Title: President





Address: Playtime, Inc.  
250 Sterling Ave  
Winter Park, FL 32789-5747

STATE OF FLORIDA

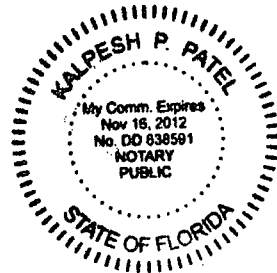
COUNTY OF ORANGE

The foregoing instrument was acknowledged before me on 20<sup>TH</sup> day of SEPTEMBER, 2010, by JOHN M MUCKLEBOY

WITNESS my hand and official seal.

K P Patel  
Notary Public

My Commission expires: \_\_\_\_\_



**RATIFICATION OF THE UNIT AGREEMENT  
FOR THE CHAMBERS STRAWN UNIT  
LEA COUNTY, NEW MEXICO**

The undersigned working interest owner (whether one or more) hereby acknowledge receipt of a copy of that certain agreement dated April 1, 2010, as amended, entitled the Unit Agreement, Chambers Strawn Unit, Lea County, New Mexico covering the lands and interests described therein in Township 16 South, Range 36 East, N.M.P.M., Lea County, New Mexico, which agreement is hereinafter referred to as the "Unit Agreement."

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The undersigned agrees that this consent and ratification shall be binding on the undersigned, their successors and assigns and shall constitute ratification and joinder in compliance with Statutory Unitization Act and the Approval Order.

EXECUTED this 20<sup>th</sup> day of September, 2010.

WITNESS:

Quimex International, Inc.



By: John Michael Muckleroy  
Title: President



Address: Quimex International, Inc.  
P.O. Box 2662  
Midland, TX 79202



STATE OF \_\_\_\_\_

COUNTY OF \_\_\_\_\_

The foregoing instrument was acknowledged before me on \_\_\_\_\_ day of  
\_\_\_\_\_, 2010, by \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_.

WITNESS my hand and official seal.

\_\_\_\_\_  
Notary Public

My Commission expires: \_\_\_\_\_

**RATIFICATION OF THE UNIT AGREEMENT  
FOR THE CHAMBERS STRAWN UNIT  
LEA COUNTY, NEW MEXICO**

The undersigned working interest owner (whether one or more) hereby acknowledge receipt of a copy of that certain agreement dated April 1, 2010, as amended, entitled the Unit Agreement, Chambers Strawn Unit, Lea County, New Mexico covering the lands and interests described therein in Township 16 South, Range 36 East, N.M.P.M., Lea County, New Mexico, which agreement is hereinafter referred to as the "Unit Agreement."

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The undersigned agrees that this consent and ratification shall be binding on the undersigned, their successors and assigns and shall constitute ratification and joinder in compliance with Statutory Unitization Act and the Approval Order.

EXECUTED this 20 day of September, 2010.

WITNESS:

Rudd Family Trust

Robert F. Rudd - Trustee  
By:  
Title: Trustee

\_\_\_\_\_

Address: Rudd Family Trust  
P.O. Box 1719  
Amarillo, TX 79159

STATE OF Texas

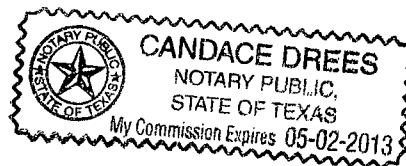
COUNTY OF Potter

The foregoing instrument was acknowledged before me on 20 day of  
September, 2010, by \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_.

WITNESS my hand and official seal.

Candace Drees  
Notary Public

My Commission expires: 05-02-13



**RATIFICATION OF THE UNIT AGREEMENT  
FOR THE CHAMBERS STRAWN UNIT  
LEA COUNTY, NEW MEXICO**

The undersigned working interest owner (whether one or more) hereby acknowledge receipt of a copy of that certain agreement dated April 1, 2010, as amended, entitled the Unit Agreement, Chambers Strawn Unit, Lea County, New Mexico covering the lands and interests described therein in Township 16 South, Range 36 East, N.M.P.M., Lea County, New Mexico, which agreement is hereinafter referred to as the "Unit Agreement."

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The undersigned agrees that this consent and ratification shall be binding on the undersigned, their successors and assigns and shall constitute ratification and joinder in compliance with Statutory Unitization Act and the Approval Order.

EXECUTED this 28<sup>th</sup> day of September, 2010.

WITNESS:

TLW Investments, L.L.C.



By: Mark E. Robinson

Title: Vice President, Land & Legal



Address: TLW Investments, L.L.C.  
Attn: ~~Doug Black~~ Barry McKay  
1001 Fannin, Suite 2020  
Houston, TX 77002

STATE OF TEXAS

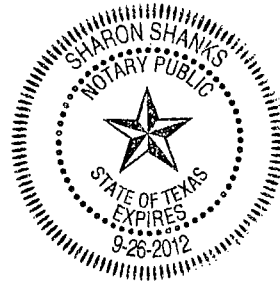
COUNTY OF HARRIS

The foregoing instrument was acknowledged before me on 28<sup>th</sup> day of September, 2010, by Mark E. Robinson,  
Vice President, Land & Legal of TLW Investments, L.L.C.,  
an Oklahoma limited liability company.

WITNESS my hand and official seal.

Sharon Shanks  
Notary Public

My Commission expires: \_\_\_\_\_



**RATIFICATION OF THE UNIT AGREEMENT  
FOR THE CHAMBERS STRAWN UNIT  
LEA COUNTY, NEW MEXICO**

The undersigned royalty interest owner (whether one or more) hereby acknowledge receipt of a copy of that certain agreement dated April 1, 2010, as amended, entitled the Unit Agreement, Chambers Strawn Unit, Lea County, New Mexico covering the lands and interests described therein in Township 16 South, Range 36 East, N.M.P.M., Lea County, New Mexico, which agreement is hereinafter referred to as the "Unit Agreement."

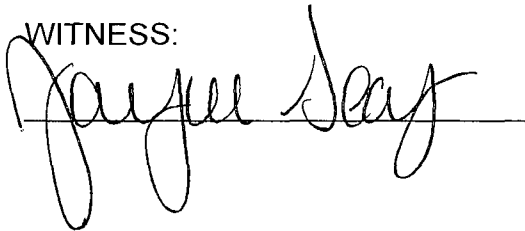
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The undersigned agrees that this consent and ratification shall be binding on the undersigned, their successors and assigns and shall constitute ratification and joinder in compliance with Statutory Unitization Act and the Approval Order.

EXECUTED this 29th day of September, 2010.

WITNESS:



  
By: Shelley Marsh Rice

Address: Shelley Marsh Rice  
24 Rosebud Lane  
Lovington, NM 8826

STATE OF New Mexico

COUNTY OF Ala

The foregoing instrument was acknowledged before me on 29th day of September, 2010, by Shelley Marsh Rice

WITNESS my hand and official seal.



Julie Ortiz  
Notary Public

My Commission expires: May 19, 2014

**RATIFICATION OF THE UNIT AGREEMENT  
FOR THE CHAMBERS STRAWN UNIT  
LEA COUNTY, NEW MEXICO**

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The undersigned agrees that this consent and ratification shall be binding on the undersigned, their successors and assigns and shall constitute ratification and joinder in compliance with Statutory Unitization Act and the Approval Order.

EXECUTED this 20 day of September, 2010.

WITNESS:

*Cal R. Nenzo*

*Richard C. Campbell*  
By: Richard C. Campbell

Address: Richard C. Campbell  
1201 North Hillcrest Drive  
Payson, AZ 85541

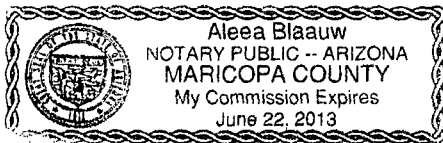


STATE OF Arizona

COUNTY OF Gila

The foregoing instrument was acknowledged before me on 20<sup>th</sup> day of  
September, 2010, by Richard Campbell

WITNESS my hand and official seal.



Alea Blaauw  
Notary Public

My Commission expires: 06/22/2013

**RATIFICATION OF THE UNIT AGREEMENT  
FOR THE CHAMBERS STRAWN UNIT  
LEA COUNTY, NEW MEXICO**

The undersigned royalty interest owner (whether one or more) hereby acknowledge receipt of a copy of that certain agreement dated April 1, 2010, as amended, entitled the Unit Agreement, Chambers Strawn Unit, Lea County, New Mexico covering the lands and interests described therein in Township 16 South, Range 36 East, N.M.P.M., Lea County, New Mexico, which agreement is hereinafter referred to as the "Unit Agreement."

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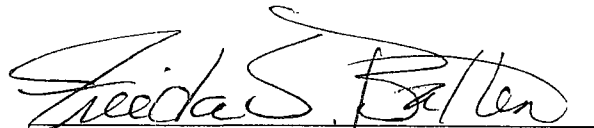
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The undersigned agrees that this consent and ratification shall be binding on the undersigned, their successors and assigns and shall constitute ratification and joinder in compliance with Statutory Unitization Act and the Approval Order.

EXECUTED this 27<sup>th</sup> day of Sept., 2010.

WITNESS:

\_\_\_\_\_



By: Freida S. Batten

Title:

\_\_\_\_\_

\_\_\_\_\_

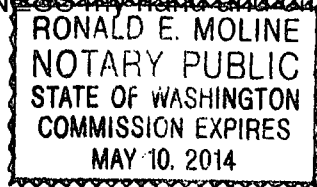
Address: Freida S. Batten  
818 Pipeline Drive  
Goldendale, WA 98620

STATE OF Wash.

COUNTY OF Klickitat

The foregoing instrument was acknowledged before me on 27th day of  
Sept, 2010, by FREIDA S. BATTEN

WITNESS my hand and official seal.



Ronald E. Moline  
Notary Public

My Commission expires: 5-10-2014

**RATIFICATION OF THE UNIT AGREEMENT  
FOR THE CHAMBERS STRAWN UNIT  
LEA COUNTY, NEW MEXICO**

The undersigned royalty interest owner (whether one or more) hereby acknowledge receipt of a copy of that certain agreement dated April 1, 2010, as amended, entitled the Unit Agreement, Chambers Strawn Unit, Lea County, New Mexico covering the lands and interests described therein in Township 16 South, Range 36 East, N.M.P.M., Lea County, New Mexico, which agreement is hereinafter referred to as the "Unit Agreement."

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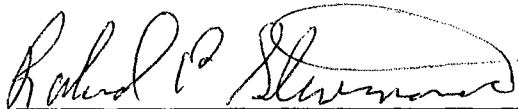
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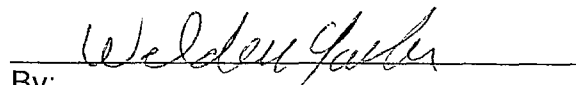
The undersigned agrees that this consent and ratification shall be binding on the undersigned, their successors and assigns and shall constitute ratification and joinder in compliance with Statutory Unitization Act and the Approval Order.

EXECUTED this 17<sup>th</sup> day of September, 2010.

WITNESS:

Weldon R. Yarbro, a/k/a Weldon Yarbro,  
As his separate property





By:  
Title:

Address: Weldon R. Yarbro  
1103 W. Avek  
Lovington, NM 88260

STATE OF New Mexico

COUNTY OF San

The foregoing instrument was acknowledged before me on 17 day of  
September, 2010, by Weldon Jarboe

WITNESS my hand and official seal.

Cecily W. Jarboe  
Notary Public

My Commission expires: March 23, 2011

**RATIFICATION OF THE UNIT AGREEMENT  
FOR THE CHAMBERS STRAWN UNIT  
LEA COUNTY, NEW MEXICO**

The undersigned royalty interest owner (whether one or more) hereby acknowledge receipt of a copy of that certain agreement dated April 1, 2010, as amended, entitled the Unit Agreement, Chambers Strawn Unit, Lea County, New Mexico covering the lands and interests described therein in Township 16 South, Range 36 East, N.M.P.M., Lea County, New Mexico, which agreement is hereinafter referred to as the "Unit Agreement."

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The undersigned agrees that this consent and ratification shall be binding on the undersigned, their successors and assigns and shall constitute ratification and joinder in compliance with Statutory Unitization Act and the Approval Order.

EXECUTED this 11<sup>th</sup> day of September, 2010.

WITNESS:

Robert E. Stevenson

Don E. Yarbro, a/k/a Don Yarbro, as his  
Separate property

Don Yarbro

By:

Title:

Address: Don E. Yarbro  
1007 W. Ave. K  
Lovington, NM 88260

STATE OF New Mexico

COUNTY OF San

The foregoing instrument was acknowledged before me on 17<sup>th</sup> day of  
September, 2010, by Don Yarbrow

WITNESS my hand and official seal.

Candace Janney  
Notary Public

My Commission expires: March 13, 2011

**RATIFICATION OF THE UNIT AGREEMENT  
FOR THE CHAMBERS STRAWN UNIT  
LEA COUNTY, NEW MEXICO**

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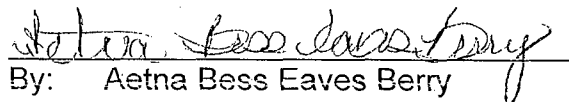
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The undersigned agrees that this consent and ratification shall be binding on the undersigned, their successors and assigns and shall constitute ratification and joinder in compliance with Statutory Unitization Act and the Approval Order.

EXECUTED this 28 day of September, 2010.

WITNESS:



  
By: Aetna Bess Eaves Berry

Address: Aetna Bess Eaves Berry  
P.O. Box 1551  
Lovington, NM 88260



STATE OF NM

COUNTY OF Lea

The foregoing instrument was acknowledged before me on 28 day of  
September, 2010, by Detena Bess Berry

WITNESS my hand and official seal.

Barbara Noack  
Notary Public

My Commission expires: 2-20-2012

**RATIFICATION OF THE UNIT AGREEMENT  
FOR THE CHAMBERS STRAWN UNIT  
LEA COUNTY, NEW MEXICO**

The undersigned royalty interest owner (whether one or more) hereby acknowledge receipt of a copy of that certain agreement dated April 1, 2010, as amended, entitled the Unit Agreement, Chambers Strawn Unit, Lea County, New Mexico covering the lands and interests described therein in Township 16 South, Range 36 East, N.M.P.M., Lea County, New Mexico, which agreement is hereinafter referred to as the "Unit Agreement."

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The undersigned agrees that this consent and ratification shall be binding on the undersigned, their successors and assigns and shall constitute ratification and joinder in compliance with Statutory Unitization Act and the Approval Order.

EXECUTED this 20<sup>th</sup> day of September, 2010.

WITNESS:

Nancy Lujan

Edward Armstrong Elkan, Jr.

Charles N. Wallace, Jr.

By: Charles N. Wallace, Jr.  
Title: Trust Asset Manager and Officer  
Wells Fargo Bank, N.A., Agent for  
Edward Armstrong Elkan, Jr.

Address: Edward Armstrong Elkan, Jr.  
% Wells Fargo OGM Operations  
AU 10291 Agent Acct #73091600  
P.O. Box 1959  
Midland, TX 79702

STATE OF Texas

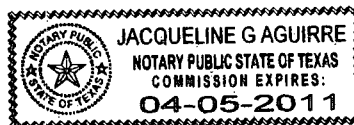
COUNTY OF Midland

The foregoing instrument was acknowledged before me on 20<sup>th</sup> day of September, 2010, by Charles N. Wallace, Jr.  
Trust Asset Manager and Officer

WITNESS my hand and official seal.

Jacqueline G. Aguirre  
Notary Public

My Commission expires: 4-5-2011



**RATIFICATION OF THE UNIT AGREEMENT  
FOR THE CHAMBERS STRAWN UNIT  
LEA COUNTY, NEW MEXICO**

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The undersigned agrees that this consent and ratification shall be binding on the undersigned, their successors and assigns and shall constitute ratification and joinder in compliance with Statutory Unitization Act and the Approval Order.

EXECUTED this 17 day of September, 2010.

WITNESS:

Gecenia DeSantiago

Christine Chambers Pruitt  
By: Christine Chambers Pruitt *ccp*

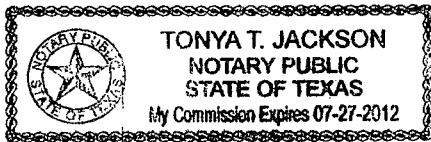
Address: Christine Chambers Pruitt  
1780 Hwy 4  
Jacksboro, TX 76458

STATE OF Dallas

COUNTY OF Jacks

The foregoing instrument was acknowledged before me on 17 day of  
September, 2010, by Christine Chambers Freed

WITNESS my hand and official seal.



Tonya T. Jackson  
Notary Public

My Commission expires: 7-27-12

**RATIFICATION OF THE UNIT AGREEMENT  
FOR THE CHAMBERS STRAWN UNIT  
LEA COUNTY, NEW MEXICO**

The undersigned royalty interest owner (whether one or more) hereby acknowledge receipt of a copy of that certain agreement dated April 1, 2010, as amended, entitled the Unit Agreement, Chambers Strawn Unit, Lea County, New Mexico covering the lands and interests described therein in Township 16 South, Range 36 East, N.M.P.M., Lea County, New Mexico, which agreement is hereinafter referred to as the "Unit Agreement."

The undersigned (whether one or more) hereby acknowledge receipt of a copy of New Mexico Oil Conservation Division Order No. R-13303, dated September 9, 2010 which approved the Chambers Strawn Unit pursuant to the New Mexico Statutory Unitization Act, as set forth in Sections 70-7-1 through 70-7-21 NMSA (1978), which order is hereinafter referred to as the "Approval Order."

The undersigned also represents that it is the owner of royalty interest, in the lands or minerals embraced in said agreement and do hereby consent and ratify all of the terms and provisions of the Unit Agreement, exactly the same as if the undersigned had executed the original of the Unit Agreement or a counterpart thereof.

The undersigned agrees that this consent and ratification shall be binding on the undersigned, their successors and assigns and shall constitute ratification and joinder in compliance with Statutory Unitization Act and the Approval Order.

EXECUTED this 21 day of September, 2010.

WITNESS:

Erna Ween

Colleen Chambers Schultz  
By: Colleen Chambers Schultz

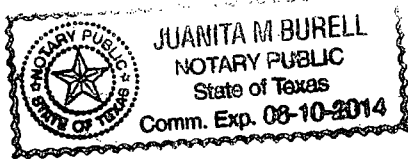
Address: Colleen Chambers Schultz  
P.O. Box 776  
Persall, TX 78061-0776

STATE OF Texas

COUNTY OF Frio

The foregoing instrument was acknowledged before me on 21<sup>st</sup> day of September, 2010, by Colleen Chambers  
Schultz

WITNESS my hand and official seal.



Juanita M. Burell  
Notary Public

My Commission expires: 06/10/2014

**RATIFICATION OF THE UNIT AGREEMENT  
FOR THE CHAMBERS STRAWN UNIT  
LEA COUNTY, NEW MEXICO**

The undersigned royalty interest owner (whether one or more) hereby acknowledge receipt of a copy of that certain agreement dated April 1, 2010, as amended, entitled the Unit Agreement, Chambers Strawn Unit, Lea County, New Mexico covering the lands and interests described therein in Township 16 South, Range 36 East, N.M.P.M., Lea County, New Mexico, which agreement is hereinafter referred to as the "Unit Agreement."

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The undersigned also represents that it is the owner of royalty interest, in the lands or minerals embraced in said agreement and do hereby consent and ratify all of the terms and provisions of the Unit Agreement, exactly the same as if the undersigned had executed the original of the Unit Agreement or a counterpart thereof.

The undersigned agrees that this consent and ratification shall be binding on the undersigned, their successors and assigns and shall constitute ratification and joinder in compliance with Statutory Unitization Act and the Approval Order.

EXECUTED this 30<sup>th</sup> day of September, 2010.

WITNESS:

Bonny Arriaga

Charlene E. Dye

Charlene E. Dye

By:

Title:

Address: Charlene E. Dye  
3209 ~~3204~~ W. Avenue D  
Lovington, NM 88260



STATE OF New Mexico

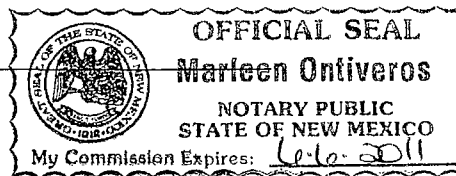
COUNTY OF Lea

The foregoing instrument was acknowledged before me on 30<sup>th</sup> day of  
September, 2010, by Charline E. Dye

WITNESS my hand and official seal.

Marleen Ontiveros  
Notary Public

My Commission expires: \_\_\_\_\_



**RATIFICATION OF THE UNIT AGREEMENT  
FOR THE CHAMBERS STRAWN UNIT  
LEA COUNTY, NEW MEXICO**

The undersigned royalty interest owner (whether one or more) hereby acknowledge receipt of a copy of that certain agreement dated April 1, 2010, as amended, entitled the Unit Agreement, Chambers Strawn Unit, Lea County, New Mexico covering the lands and interests described therein in Township 16 South, Range 36 East, N.M.P.M., Lea County, New Mexico, which agreement is hereinafter referred to as the "Unit Agreement."

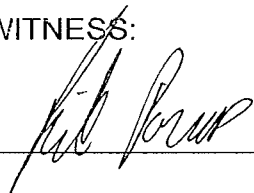
The undersigned (whether one or more) hereby acknowledge receipt of a copy of New Mexico Oil Conservation Division Order No. R-13303, dated September 9, 2010 which approved the Chambers Strawn Unit pursuant to the New Mexico Statutory Unitization Act, as set forth in Sections 70-7-1 through 70-7-21 NMSA (1978), which order is hereinafter referred to as the "Approval Order."

The undersigned also represents that it is the owner of royalty interest, in the lands or minerals embraced in said agreement and do hereby consent and ratify all of the terms and provisions of the Unit Agreement, exactly the same as if the undersigned had executed the original of the Unit Agreement or a counterpart thereof.

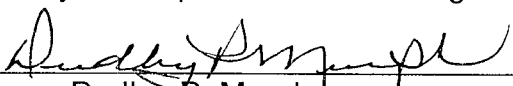
The undersigned agrees that this consent and ratification shall be binding on the undersigned, their successors and assigns and shall constitute ratification and joinder in compliance with Statutory Unitization Act and the Approval Order.

EXECUTED this 27<sup>th</sup> day of September, 2010.

WITNESS:

  
\_\_\_\_\_

Dudley P. Murph, Trustee  
Dudley P. Murph Revocable Living Trust

  
By: Dudley P. Murph  
Title: \_\_\_\_\_

Address: Dudley P. Murph  
3019 W. Avenue D  
Lovington, NM 88260

STATE OF New Mexico

COUNTY OF Lea

The foregoing instrument was acknowledged before me on 27<sup>th</sup> day of  
September, 2010, by Dudley P. Murph

WITNESS my hand and official seal.

Mari Valencia  
Notary Public

My Commission expires: June 9, 2013

**RATIFICATION OF THE UNIT AGREEMENT  
FOR THE CHAMBERS STRAWN UNIT  
LEA COUNTY, NEW MEXICO**

The undersigned royalty interest owner (whether one or more) hereby acknowledge receipt of a copy of that certain agreement dated April 1, 2010, as amended, entitled the Unit Agreement, Chambers Strawn Unit, Lea County, New Mexico covering the lands and interests described therein in Township 16 South, Range 36 East, N.M.P.M., Lea County, New Mexico, which agreement is hereinafter referred to as the "Unit Agreement."

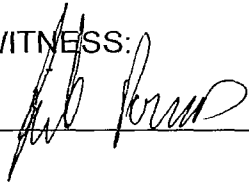
The undersigned (whether one or more) hereby acknowledge receipt of a copy of New Mexico Oil Conservation Division Order No. R-13303, dated September 9, 2010 which approved the Chambers Strawn Unit pursuant to the New Mexico Statutory Unitization Act, as set forth in Sections 70-7-1 through 70-7-21 NMSA (1978), which order is hereinafter referred to as the "Approval Order."

The undersigned also represents that it is the owner of royalty interest, in the lands or minerals embraced in said agreement and do hereby consent and ratify all of the terms and provisions of the Unit Agreement, exactly the same as if the undersigned had executed the original of the Unit Agreement or a counterpart thereof.

The undersigned agrees that this consent and ratification shall be binding on the undersigned, their successors and assigns and shall constitute ratification and joinder in compliance with Statutory Unitization Act and the Approval Order.

EXECUTED this 27 day of September, 2010.

WITNESS:

  
\_\_\_\_\_

K. E. Chambers a/k/a Kenneth E. Chambers

  
\_\_\_\_\_

By:

Title:

\_\_\_\_\_  
\_\_\_\_\_

Address: K. E. Chambers a/k/a Kenneth  
E. Chambers  
2811 W. Ave. D  
Lovington, NM 88260-5351

STATE OF New Mexico

COUNTY OF Lea

The foregoing instrument was acknowledged before me on 27<sup>th</sup> day of  
September, 2010, by Kenneth Chambers

WITNESS my hand and official seal.

Mrs. Valencia  
Notary Public

My Commission expires: June 9, 2013

**RATIFICATION OF THE UNIT AGREEMENT  
FOR THE CHAMBERS STRAWN UNIT  
LEA COUNTY, NEW MEXICO**

The undersigned royalty interest owner (whether one or more) hereby acknowledge receipt of a copy of that certain agreement dated April 1, 2010, as amended, entitled the Unit Agreement, Chambers Strawn Unit, Lea County, New Mexico covering the lands and interests described therein in Township 16 South, Range 36 East, N.M.P.M., Lea County, New Mexico, which agreement is hereinafter referred to as the "Unit Agreement."

The undersigned (whether one or more) hereby acknowledge receipt of a copy of New Mexico Oil Conservation Division Order No. R-13303, dated September 9, 2010 which approved the Chambers Strawn Unit pursuant to the New Mexico Statutory Unitization Act, as set forth in Sections 70-7-1 through 70-7-21 NMSA (1978), which order is hereinafter referred to as the "Approval Order."

The undersigned also represents that it is the owner of royalty interest, in the lands or minerals embraced in said agreement and do hereby consent and ratify all of the terms and provisions of the Unit Agreement, exactly the same as if the undersigned had executed the original of the Unit Agreement or a counterpart thereof.

The undersigned agrees that this consent and ratification shall be binding on the undersigned, their successors and assigns and shall constitute ratification and joinder in compliance with Statutory Unitization Act and the Approval Order.

EXECUTED this 28th day of Sept., 2010.

WITNESS:

\_\_\_\_\_  
By: Dennis E. Chambers  
Dennis Edward Chambers

\_\_\_\_\_  
\_\_\_\_\_

Address: Dennis Edward Chambers  
1011 Sandy Bend Road  
Castle Rock, WA 98611

STATE OF WASHINGTON

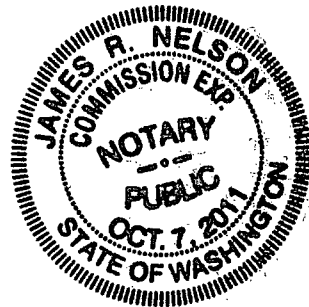
COUNTY OF KLICKITAT

The foregoing instrument was acknowledged before me on 16<sup>th</sup> day of  
September, 2010, by Jasper N. Chambers

WITNESS my hand and official seal.

James R. Nelson  
Notary Public

My Commission expires: 10-7-2011



**RATIFICATION OF THE UNIT AGREEMENT  
FOR THE CHAMBERS STRAWN UNIT  
LEA COUNTY, NEW MEXICO**

The undersigned royalty interest owner (whether one or more) hereby acknowledge receipt of a copy of that certain agreement dated April 1, 2010, as amended, entitled the Unit Agreement, Chambers Strawn Unit, Lea County, New Mexico covering the lands and interests described therein in Township 16 South, Range 36 East, N.M.P.M., Lea County, New Mexico, which agreement is hereinafter referred to as the "Unit Agreement."

The undersigned (whether one or more) hereby acknowledge receipt of a copy of New Mexico Oil Conservation Division Order No. R-13303, dated September 9, 2010 which approved the Chambers Strawn Unit pursuant to the New Mexico Statutory Unitization Act, as set forth in Sections 70-7-1 through 70-7-21 NMSA (1978), which order is hereinafter referred to as the "Approval Order."

The undersigned also represents that it is the owner of royalty interest, in the lands or minerals embraced in said agreement and do hereby consent and ratify all of the terms and provisions of the Unit Agreement, exactly the same as if the undersigned had executed the original of the Unit Agreement or a counterpart thereof.

The undersigned agrees that this consent and ratification shall be binding on the undersigned, their successors and assigns and shall constitute ratification and joinder in compliance with Statutory Unitization Act and the Approval Order.

EXECUTED this 20<sup>th</sup> day of September, 2010.

WITNESS:

*Lynne Leight*

*Melodee Nelson*  
By: Melodee Nelson  
Title:

Address: Melodee Nelson  
22307 SE 255<sup>th</sup> Street  
Maple Valley, WA 98038

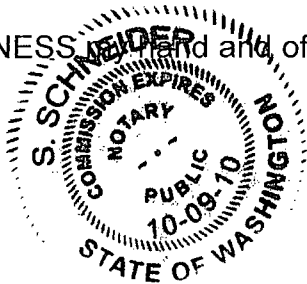


STATE OF Wa.

COUNTY OF King

The foregoing instrument was acknowledged before me on 20th day of September, 2010, by Meladee Nelson

WITNESS my hand and official seal.



S. Schneider  
Notary Public

My Commission expires: 10-9-10

RATIFICATION OF THE UNIT AGREEMENT  
FOR THE CHAMBERS STRAWN UNIT  
LEA COUNTY, NEW MEXICO

The undersigned working interest owner (whether one or more) hereby acknowledge receipt of a copy of that certain agreement dated April 1, 2010, as amended, entitled the Unit Agreement, Chambers Strawn Unit, Lea County, New Mexico covering the lands and interests described therein in Township 16 South, Range 36 East, N.M.P.M., Lea County, New Mexico, which agreement is hereinafter referred to as the "Unit Agreement."

The undersigned (whether one or more) hereby acknowledge receipt of a copy of New Mexico Oil Conservation Division Order No. R-13303, dated September 9, 2010 which approved the Chambers Strawn Unit pursuant to the New Mexico Statutory Unitization Act, as set forth in Sections 70-7-1 through 70-7-21 NMSA (1978), which order is hereinafter referred to as the "Approval Order."

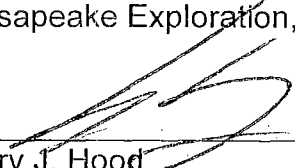
The undersigned also represents that it is the owner of working interest, in the lands or minerals embraced in said agreement and do hereby consent and ratify all of the terms and provisions of the Unit Agreement, exactly the same as if the undersigned had executed the original of the Unit Agreement or a counterpart thereof.



The undersigned agrees that this consent and ratification shall be binding on the undersigned, their successors and assigns and shall constitute ratification and joinder in compliance with Statutory Unitization Act and the Approval Order.


EXECUTED this 17<sup>th</sup> day of September, 2010.

WITNESS:

Chesapeake Exploration, L.L.C.

By:   
Title: Senior Vice-President Land  
and Legal & General Counsel

TF CBB  
  


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

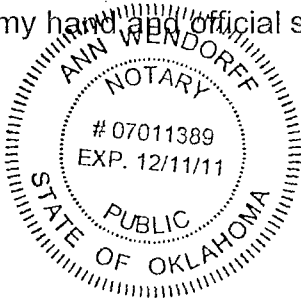
STATE OF OKLAHOMA

ss.

COUNTY OF OKLAHOMA

The foregoing instrument was acknowledged before me on the 15th day of September , 2010, by Henry J. Hood, Sr. Vice President – Land & Legal and General Counsel, Chesapeake Exploration, L.L.C., an Oklahoma limited liability company.

WITNESS my hand and official seal.



Ann Wendorf  
Notary Public

My Commission expires:

12/11/11

**RATIFICATION OF THE UNIT AGREEMENT  
FOR THE CHAMBERS STRAWN UNIT  
LEA COUNTY, NEW MEXICO**

The undersigned overriding royalty interest owner (whether one or more) hereby acknowledge receipt of a copy of that certain agreement dated April 1, 2010, as amended, entitled the Unit Agreement, Chambers Strawn Unit, Lea County, New Mexico covering the lands and interests described therein in Township 16 South, Range 36 East, N.M.P.M., Lea County, New Mexico, which agreement is hereinafter referred to as the "Unit Agreement."

The undersigned (whether one or more) hereby acknowledge receipt of a copy of New Mexico Oil Conservation Division Order No. R-13303, dated September 9, 2010 which approved the Chambers Strawn Unit pursuant to the New Mexico Statutory Unitization Act, as set forth in Sections 70-7-1 through 70-7-21 NMSA (1978), which order is hereinafter referred to as the "Approval Order."

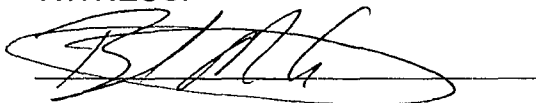
The undersigned also represents that it is the owner of overriding royalty interest, in the lands or minerals embraced in said agreement and do hereby consent and ratify all of the terms and provisions of the Unit Agreement, exactly the same as if the undersigned had executed the original of the Unit Agreement or a counterpart thereof.

The undersigned agrees that this consent and ratification shall be binding on the undersigned, their successors and assigns and shall constitute ratification and joinder in compliance with Statutory Unitization Act and the Approval Order.

EXECUTED this 29 day of September, 2010.

WITNESS:

Hal W. Hawthorne



Hal W Hawthorne  
By: HAL W Hawthorne  
Title: Individual

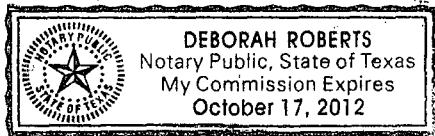
Address: Hal W. Hawthorne  
% Jones Energy Ltd.  
807 Las Cimas Parkway, Ste 350  
Austin, TX 78746

STATE OF TEXAS

COUNTY OF TRAVIS

The foregoing instrument was acknowledged before me on 29<sup>th</sup> day of  
September, 2010, by HAL W. Hawthorne, an  
individual, personally known to me.

WITNESS my hand and official seal.



Deborah Roberts  
Notary Public

My Commission expires: Oct. 17, 2012

**RATIFICATION OF THE UNIT AGREEMENT  
FOR THE CHAMBERS STRAWN UNIT  
LEA COUNTY, NEW MEXICO**

The undersigned overriding royalty interest owner (whether one or more) hereby acknowledge receipt of a copy of that certain agreement dated April 1, 2010, as amended, entitled the Unit Agreement, Chambers Strawn Unit, Lea County, New Mexico covering the lands and interests described therein in Township 16 South, Range 36 East, N.M.P.M., Lea County, New Mexico, which agreement is hereinafter referred to as the "Unit Agreement."

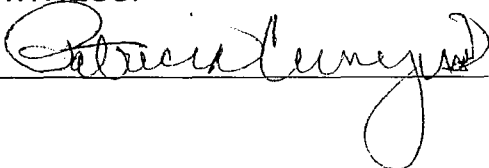
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The undersigned also represents that it is the owner of overriding royalty interest, in the lands or minerals embraced in said agreement and do hereby consent and ratify all of the terms and provisions of the Unit Agreement, exactly the same as if the undersigned had executed the original of the Unit Agreement or a counterpart thereof.

The undersigned agrees that this consent and ratification shall be binding on the undersigned, their successors and assigns and shall constitute ratification and joinder in compliance with Statutory Unitization Act and the Approval Order.

EXECUTED this 20<sup>th</sup> day of September, 2010.

WITNESS:



  
MML Ventures, Ltd.

By: Carlos B. Griffin, Jr.  
Title: Authorized Agent

Address: MML Ventures, Ltd.  
P.O. Box 1157  
Kilgore, TX 75663-1157

STATE OF TEXAS

COUNTY OF GREGG

The foregoing instrument was acknowledged before me on 20<sup>th</sup> day of September, 2010, by Carlos B. Griffin, Jr. in his Capacity as the Authorized Agent of Sym-JAC, LLC, the General Partner of MML Ventures, Ltd.

WITNESS my hand and official seal.

George Bruce Cunyus  
Notary Public

My Commission expires: 10/12/12

