

STATE OF MICHIGAN  
DEPARTMENT OF ENVIRONMENTAL QUALITY

**ORDER OF THE SUPERVISOR OF WELLS**

IN THE MATTER OF:

THE PETITION OF CORE ENERGY, LLC, FOR AN ORDER )  
FROM THE SUPERVISOR OF WELLS FORMING A )  
100-ACRE GUELPH DOLOMITE/RUFF FORMATION )  
DRILLING UNIT AS AN EXCEPTION TO SPECIAL ) CAUSE NO. 15-2013  
ORDER NO. 1-73 AND COMPULSORY POOLING ALL )  
INTERESTS INTO A DRILLING UNIT IN MAPLE FOREST )  
TOWNSHIP, CRAWFORD COUNTY, MICHIGAN. )

**OPINION AND ORDER**

This case involves the Petition of Core Energy, LLC (Petitioner), for approval to drill and complete the State Maple Forest 2-6 well for oil and gas exploration within a drilling unit in the stratigraphic interval known as the Guelph Dolomite/Ruff Formation. The Petitioner is requesting a 98.6-acre drilling unit for the State Maple Forest 2-6 well as an exception to the drilling unit size of 80 acres established by Special Order No. 1-73. The proposed unit consists of the SE 1/4 of NE 1/4, NE 1/4 of SE 1/4, and E 1/2 of NW 1/4 of SE 1/4 of Section 6, T28N, R3W, Maple Forest Township, Crawford County, Michigan. Not all of the mineral owners within the proposed drilling unit have agreed to lease or voluntarily pool their interests. Therefore, the Petitioner seeks an Order of the Supervisor of Wells (Supervisor) designating the Petitioner as operator of the 98.6-acre drilling unit and requiring compulsory pooling of all unleased tracts within that geographic area for which the owners have not agreed to voluntary pooling.

**Jurisdiction**

The development of oil and gas in this state is regulated under Part 615, Supervisor of Wells, of the Natural Resources and Environmental Protection Act, 1994 PA 451, as amended, MCL 324.61501 *et seq.* The purpose of Part 615 is to ensure the orderly development and production of the oil and gas resources of this state. MCL 324.61502. To that end, the Supervisor may establish drilling units and compulsorily pool mineral interests and lessees' interests within said units.

MCL 324.61513(2) and (4). However, the formation of drilling units by compulsory pooling of interests can only be effectuated after an evidentiary hearing. 1996 MR 9, R 324.302 and R 324.304. The evidentiary hearing is governed by the applicable provisions of the Administrative Procedures Act, 1969 PA 306, as amended, MCL 24.201 *et seq.* See 1996 MR 9, R 324.1203. The evidentiary hearing in this matter was held on December 11, 2013.

### **FINDINGS OF FACT**

The Petitioner specifically requests that the Supervisor issue an Order that:

1. Grants an exception to the drilling unit size established by Special Order No. 1-73 by establishing a 98.6-acre drilling unit for the proposed State Maple Forest 2-6 well consisting of the SE 1/4 of NE 1/4, NE 1/4 of SE 1/4, and E 1/2 of NW 1/4 of SE 1/4 of Section 6, T28N, R3W, Maple Forest Township, Crawford County, Michigan.
2. Requires compulsory pooling of all privately-owned tracts and mineral interests within the proposed drilling unit that have not agreed to voluntary pooling.
3. Names the Petitioner as operator of the State Maple Forest 2-6 well.
4. Authorizes the Petitioner to recover certain costs and other additional compensation from the parties subject to the compulsory pooling order.

The Administrative Law Judge determined that the Notice of Hearing was properly served and published. No Answers to the Petition were filed and no one other than the Petitioner appeared at the hearing. The Supervisor designated the hearing to be an uncontested evidentiary hearing pursuant to R 324.1205(1)(c) and directed evidence be presented in the form of verified statements.

In support of its case, the Petitioner offered the verified statements of Mr. Kim Sanders, Land Manager; Mr. Rick Pardini, Vice President and Engineering Manager; and Mr. Allen Modroo, geophysicist.

#### **I. Drilling Unit**

The spacing of wells in Crawford County targeting the Guelph Dolomite/Ruff

Formation is governed by Special Order No. 1-73. This Special Order establishes drilling units of 80 acres, more or less, formed by combining two governmental surveyed quarter-quarter sections of land with one common boundary of approximately 1,320 feet, with allowances being made for the difference in the size and shape of sections as indicated by official governmental survey plats. Under Special Order No. 1-73, it is presumed that one well will efficiently and economically drain the 80-acre unit of hydrocarbons. The Petitioner's proposed drilling unit is described as the SE 1/4 of NE 1/4, NE 1/4 of SE 1/4, and E 1/2 of NW 1/4 of SE 1/4 of Section 6, T28N, R3W, Maple Forest Township, Crawford County, Michigan.

In his Verified Statement, Mr. Modroo testified that based on his review of seismic data, it is his opinion that the proposed drilling unit is reasonably underlain by the interpreted structure and substantially underlies each of the 40-acre quarter-quarter sections and the 20-acre half quarter-quarter section.

The surface hole location is in the NW 1/4 of the SE 1/4 of Section 6 and the bottom hole location is in the SE 1/4 of the NE 1/4 of Section 6 of the proposed State Maple Forest 2-6 Unit. According to Mr. Sanders' Verified Statement, the well bore will not cross the surface or subsurface of any unleased tracts.

I find that the proposed 98.6-acre drilling unit may be granted as an exception to Special Order No. 1-73, will prevent waste and protect correlative rights and, as such, is a proper drilling unit for the proposed State Maple Forest 2-6 well.

## II. Drilling Unit Operator

Mr. Sanders' Verified Statement indicates that the Petitioner owns the majority of oil and gas leases in the proposed drilling unit. Given this, the Petitioner seeks to be designated as the Operator of the State Maple Forest 2-6 well. I find, as a Matter of Fact, the Petitioner is eligible to be the designated Operator of the State Maple Forest 2-6 well.

## III. Compulsory Pooling

The Petitioner was unable to obtain the agreement of all mineral owners to gain full control of the proposed unit. The Petitioner may not produce a well on the drilling

unit without first obtaining control of all the oil and gas interests. In cases like this, it is necessary for the Petitioner to request compulsory pooling from the Supervisor. As discussed, a mineral owner who does not agree to voluntarily pool his or her interest in a drilling unit may be subject to compulsory pooling. 1996 MR 9, R 324.304. The compulsory pooling of an interest must be effectuated in a manner that ensures "each owner ... is afforded the opportunity to receive his or her just and equitable share of the production of the unit." *Id.* In addition to protecting correlative rights, the compulsory pooling must prevent waste. MCL 324.61502. An operator must first seek voluntary pooling of mineral interests within a proposed drilling unit prior to obtaining compulsory pooling through an Order of the Supervisor.

Mr. Sanders states that as of the date of the hearing, the Petitioner holds effective oil and gas leases with the mineral owners as to 92.1625 of 98.6 net acres.

The unleased owners of oil and gas interests are identified in Exhibit 2 as:

<u>Name</u>	<u>Net Mineral Acre</u>
Roger L. Beach Estate Heir – Todd Beach	.0875
John Joseph Klinken, Jr., ¼ Remainderman	.75
Margarete Ann Klinken Liles, ¼ Remainderman	.75
Marie Klinken-Marx, ¼ Remainderman	.75
Janet P. Epp	2.0
Michigan Department of Transportation	1.0
Doree Worthey, her heirs or successors	1.1
<b>TOTAL</b>	<b>6.4375</b>

As reflected in Exhibit 2, the State of Michigan, Department of Transportation, owns 1 net acre in the proposed Drilling Unit. A direct lease application has been submitted to the State of Michigan by the Petitioner as to this 1 net acre. Mr. Sanders' affidavit (Exhibit 3)

indicates multiple contacts were made in an attempt to lease the above listed parties.

Based on the foregoing, I find, as a Matter of Fact:

1. The Petitioner was able to voluntarily pool all of the mineral interest in the proposed 98.6-acre Guelph Dolomite/Ruff Formation drilling unit except for the acreage described above.
2. Compulsory pooling of the privately-owned acreage is necessary to form a full drilling unit to protect correlative rights of unpooled lease owners and to prevent waste by preventing the drilling of unnecessary wells.

Now that it has been determined compulsory pooling is necessary and proper in this case, the terms of such pooling must be addressed. When pooling is ordered, the owner of the compulsorily pooled lands (Pooled Owner) is provided an election on how he or she wishes to share in the costs of the project. 1996 MR 9, R 324.1206(4). A Pooled Owner may participate in the project, or in the alternative be "carried" by the operator. If the Pooled Owner elects to participate, he or she assumes the economic risks of the project, specifically, by paying his or her proportionate share of the costs or giving bond for the payment. Whether the well drilled is ultimately a producer or dry hole is immaterial to this obligation. Conversely, if a Pooled Owner elects not to participate, the Pooled Owner is, from an economic perspective, "carried" by the operator. Under this option, if the well is a dry hole, the Pooled Owner has no financial obligation because they did not assume any risk. If the well is a producer, the Supervisor considers the risks associated with the proposal and awards the operator compensation, out of production, for assuming all of the economic risks.

In order for a Pooled Owner to decide whether he or she will "participate" in the well or be "carried" by the operator, it is necessary to provide reliable cost estimates. In this regard, the Petitioner must present proofs on the estimated costs involved in drilling, completing, and equipping the proposed well. The Petitioner's Authorization for Expenditure (AFE) form for the State Maple Forest 2-6 well (Exhibit 4) itemizes the estimated costs to be incurred in the drilling, completing, equipping, and plugging of the well. The estimated costs are \$1,050,853.00 for drilling (which includes \$110,000.00 for 3D seismic); \$620,680.00 for completion; and \$1,570,000.00 for equipping. The

Petitioner's total estimated producing well cost for the State Maple Forest 2-6 well is \$3,241,533.00. There is no evidence on this record refuting these estimated costs.

I find, as a Matter of Fact, the estimated costs in Exhibit 4 are reasonable for the purpose of providing the pooled owners a basis on which to elect to participate or be carried, except that costs of 3D seismic shall not be included as drilling costs. Further, I find actual costs shall be used in determining the final share of costs and additional compensation assessed against a Pooled Owner.

The next issue is the allocation of these costs. Part 615 requires the allocation be just and equitable. MCL 324.61513(4). The Petitioner requests the actual well costs and production from the well be allocated based upon the ratio of the number of surface acres in the tracts of various owners to the total number of surface acres in the drilling unit. Established practices and industry standards suggest this to be a fair and equitable method of allocation of production and costs. Therefore, I find, as a Matter of Fact, utilizing acreage is a fair and equitable method to allocate to the various tracts in the proposed drilling unit each tract's just and equitable share of unit production and costs. However, I find that an owner's share in production and costs should be in proportion to their net mineral acreage.

The final issue is the additional compensation for risk to be assessed against a Pooled Owner who elects to be carried. The administrative rules under Part 615 provide for the Supervisor to assess appropriate compensation for the risks associated with drilling a dry hole and the mechanical and engineering risks associated with the completion and equipping of wells. 1996 MR 9, R 324.1206(4)(b). The Petitioner requests additional compensation of 300 percent for the costs of drilling, 200 percent of the cost of completing, and 100 percent of the cost of equipping the State Maple Forest 2-6 well.

Mr. Pardini's and Mr. Modroo's Verified Statements indicate that the State Maple Forest 2-6 well is a new field wildcat. The structure has not been confirmed by prior drilling and is, therefore, very risky.

The Petitioner did present evidence to show that the risks associated with drilling the well justify a 300 percent penalty. Moreover, past experience shows that drilling

results are not always a reliable indicator of whether completing and equipping costs can be fully recovered from eventual production revenues.

I find, as a Matter of Fact, the risk of the proposed State Maple Forest 2-6 well being a dry hole supports additional compensation from the Pooled Owners of 300 percent of the actual drilling costs incurred. I find the mechanical and engineering risks associated with the well support additional compensation of 200 percent of the actual completing and 100 percent of the actual equipping costs incurred. Operating costs are not subject to additional compensation for risk.

### **CONCLUSIONS OF LAW**

Based on the Findings of Fact, I conclude, as a matter of law:

1. The Petitioner was unable to voluntarily pool all mineral interests and lessees' interests within the proposed drilling unit. The Supervisor may compulsorily pool properties when pooling cannot be agreed upon. Compulsory pooling is necessary to prevent waste and protect the correlative rights of the Pooled Owners in the proposed drilling unit. MCL 324.61513(4).
2. This order is necessary to provide for conditions under which each mineral owner who has not voluntarily agreed to pool all of their interest in the pooled unit may share in the working interest share of production. 1996 MR 9, R 324.1206(4).
3. The Petitioner is an owner within the drilling unit and, therefore, is eligible to drill and operate the State Maple Forest 2-6 well. 1996 MR 9, R 324.1206(4).
4. The Petitioner is authorized to take from each nonparticipating interest's share of production the cost of drilling, completing, equipping, and operating the well, plus an additional percentage of the costs as identified in the Determination and Order section of this Order for the risks associated with drilling a dry hole, and the mechanical and engineering risks associated with the completion and equipping of the well. 1996 MR 9, R 324.1206(4).
5. Spacing for wells drilled in Crawford County to the Guelph Dolomite/Ruff Formation is 80 acres as set by Special Order No. 1-73. Exceptions to Special Order No. 1-73 may be granted by the Supervisor after a hearing.

6. The Supervisor has jurisdiction over the subject matter and the persons interested therein.
7. Due notice of the time, place, and purpose of the hearing was given as required by law and all interested persons were afforded an opportunity to be heard. 1996 MR 9, R 324.1204.

### **DETERMINATION AND ORDER**

Based on the Findings of Fact and Conclusions of Law, the Supervisor determines that compulsory pooling to form a 98.6-acre Guelph Dolomite/Ruff Formation drilling unit is necessary to protect correlative rights and prevent waste by the drilling of unnecessary wells.

#### **NOW, THEREFORE, IT IS ORDERED:**

1. A 98.6-acre Guelph Dolomite/Ruff Formation drilling unit is established, as an exception to Special Order No. 1-73, for the State Maple Forest 2-6 well comprising the following area: SE 1/4 of the NE 1/4, NE 1/4 of the SE 1/4 and the E 1/2 of the NW 1/4 of the SE 1/4 of Section 6, T28N, R3W, Maple Forest Township, Crawford County, Michigan. All properties, parts of properties, and interests in this area are pooled into the drilling unit. This pooling is for the purpose of forming a drilling unit only.
2. Each Pooled Owner shall share in production and costs in the proportion that their net mineral acreage in the drilling unit bears to the total acreage in the drilling unit.
3. The Petitioner is named the Operator of the State Maple Forest 2-6 well. The Operator shall commence the drilling of the State Maple Forest 2-6 well within 180 days of the effective date of this Order, or the compulsory pooling authorized in this Order shall be null and void as to all parties and interests. This pooling Order applies to the drilling of the State Maple Forest 2-6 well only.

4. If the Operator proposes to drill the State Maple Forest 2-6 well to a different bottom hole location or as a horizontal drainhole, the Operator shall first notify all compulsory pooled parties. The notification shall be provided by a letter approved by the Supervisor and shall provide the compulsory pooled parties an opportunity to respond within twenty-one (21) days. If no compulsory pooled party objects within twenty-one (21) days of the date of mailing of the Notice of Hearing, the Supervisor may approve a request for an alternate bottom hole location or horizontal drainhole without a hearing.
5. A Pooled Owner shall be treated as a working interest owner to the extent of 100 percent of the interest owned in the drilling unit. The Pooled Owner is considered to hold a  $\frac{1}{8}$  royalty interest, which shall be free of any charge for costs of drilling, completing, or equipping the well, or for compensation for the risks of the well or operating the proposed well including post-production costs.
6. A Pooled Owner shall have ten (10) days from receipt by the Pooled Owner of this Order to select one of the following alternatives and advise the Supervisor and the Petitioner, in writing, accordingly:
  - a. To participate, then within ten (10) days of making the election (or within a later date as approved by the Supervisor), pay to the Operator the Pooled Owner's share of the estimated costs for drilling, completing, and equipping the well, or give bond to the Operator for the payment of the Pooled Owner's share of such cost promptly upon completion; and authorize the Operator to take from the Pooled Owner's remaining  $\frac{7}{8}$  share of production, the Pooled Owner's share of the actual costs of operating the well; or
  - b. To be carried, then if the well is put on production, authorize the Operator to take from the Pooled Owner's remaining  $\frac{7}{8}$  share of production:
    - (i) The Pooled Owner's share of the actual cost of drilling, completing, and equipping the well.

(ii) An additional 300 percent of the actual drilling costs, 200 percent of the actual completion costs, and 100 percent of the actual equipping costs attributable to the Pooled Owner's share of production, as compensation to the Operator for the risk of a dry hole. If either drilling, completing, and/or equipping are commenced before the 10-day election period has elapsed, the Operator may recover only costs pertaining to such activities commenced before or during the 10-day election period.

(iii) The Pooled Owner's share of the actual cost of operating the well.

7. In the event the Pooled Owner does not notify the Supervisor, in writing, of the decision within ten (10) days from the effective date of this Order, the Pooled Owner will be deemed to have elected the alternative described in Paragraph 6(b). If a Pooled Owner who elects the alternative in Paragraph 6(a) does not, within ten (10) days of making their election (or within any alternate date approved by the Supervisor), pay their proportionate share of costs or give bond for the payment of such share of such costs, the Pooled Owner shall be deemed to have elected the alternative described in Paragraph 6(b), and the Operator may proceed to withhold and allocate proceeds for costs from the Pooled Owner's 7/8 share of production as described in Paragraph 6(b)(i)(ii) and (iii).
8. For purposes of the Pooled Owners electing alternatives, the amounts of \$940,853.00 for estimated drilling costs (excluding 3D seismic); \$620,680.00 for estimated completion costs; and \$1,570,000.00 for estimated equipping costs are fixed as well costs. Actual costs shall be used in determining the Pooled Owner's final share of well costs and in determining additional compensation for the risk of a dry hole. If a Pooled Owner has elected the alternative in Paragraph 6(a) and the actual cost exceeds the estimated cost, the Operator may recover the additional cost from the Pooled Owner's 7/8 share of production. Within sixty (60) days after commencing drilling of the well, and every thirty (30) days thereafter until all costs of drilling,

- completing, and equipping the well are accounted for, the Operator shall provide to the Pooled Owner a detailed statement of actual costs incurred as of the date of the statement and all costs and production proceeds allocated to that Pooled Owner.
9. The Operator shall certify to the Supervisor that the following information was supplied to each pooled owner no later than the effective date of the Order:
    - a. The Order
    - b. The Authorization for Expenditure (AFE)
    - c. Each Pooled Owner's percent of charges from the AFE if the Pooled Owner were to choose option "a" in Paragraph 6, above. Each Pooled Owner's percentage of charges shall be based on the Pooled Owner's actual net mineral acreage in the drilling unit, and the actual acreage in the drilling unit as a whole, as determined by survey or title opinion.
  10. A Pooled Owner shall remain a Pooled Owner only until such time as a lease or operating agreement is entered into with the Operator. At that time, terms of the lease or operating agreement shall prevail over terms of this Order.
  11. All other applicable provisions of Special Order No. 1-73 shall remain in effect.
  12. The Supervisor retains jurisdiction in this matter.
  13. The effective date of this Order is Dec. 20, 2013.

DATED: Dec. 13, 2013

  
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