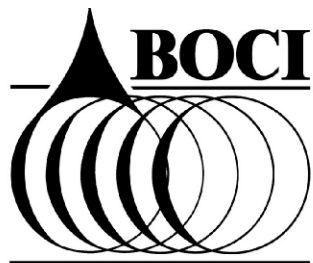


Before the Oil Conservation Division  
Examiner Hearing October 20, 2022

Case No. 23036

Mescalero East Unit

Lea County, New Mexico



**Browning**  
Oil Company, Inc.

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

APPLICATION OF BROWNING OIL  
COMPANY, INC. FOR AN ORDER  
ACKNOWLEDGING THE MESCALERO  
EAST UNIT, LEA COUNTY, NEW MEXICO.

Case NO. 23036

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**Browning Exhibit A:** Application

**Browning Exhibit B:** Land Affidavit, Terence G. O'Hare

- Exhibit B: SLO Preliminary Approval Letter

**Browning Exhibit C:** Geology Affidavit, Calvin Nix

- Exhibit C-1: Locator Map
- Exhibit C-2: Type Log
- Exhibit C-3: Structural Contour Map
- Exhibit C-4: Structural Cross Section



12377 Merit Drive  
Suite 450  
Dallas, Texas 75251

**Browning Oil Company, Inc.**

Phone: (214) 739-3481  
Fax: (214) 739-4458

September 21, 2022

SUBMITTED VIA OCD PERMITTING PORTAL 9/21/22

State of New Mexico  
Oil Conservation Division  
Attn: Marlene Salvidrez  
1220 South St. Francis Drive  
Santa Fe, NM 87505

Re: Letter of Agency  
Mescalero East Exploratory Unit

Ms. Salvidrez

Please let this letter serve as authorization for Emerald Energy, LLC to act on behalf of Browning Oil Company, Inc. (Browning) in dealings with The State of New Mexico Oil Conservation Division on any matters relating to the proposed Mescalero East Exploratory Unit in Lea County, specifically the following parties:

Terence (Terry) O'Hare	President	Emerald Energy, LLC
Calvin Nix	Geologist	Emerald Energy, LLC
Ta Li	Geophysicist	Emerald Energy, LLC

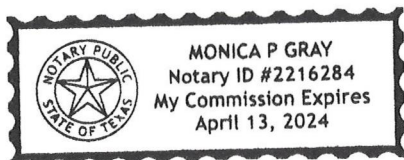
As Chief Executive Officer of Browning, I am authorized to grant the above referenced parties to represent Browning in any hearing related to the above referenced Exploratory Unit.

Sincerely,

Michael R McWilliams  
**Browning Oil Company**  
President / Chief Executive Officer

STATE OF TEXAS           §  
  §  
COUNTY OF DALLAS     §

This instrument is acknowledged before me this 21<sup>st</sup> day of September, 2022, by **Michael R. McWilliams**, President and Chief Executive Officer of Browning Oil Company, Inc. for and on behalf of said company.



\_\_\_\_\_  
Notary Public, State of Texas

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

APPLICATION OF BROWNING OIL  
COMPANY, INC. FOR AN ORDER  
ACKNOWLEDGING THE MESCALERO  
EAST UNIT, LEA COUNTY, NEW MEXICO.

CASE NO. 23036

APPLICATION

Browning Oil Company, Inc. ("Browning") files this application for an order acknowledging the Mescalero East Unit. In support of its application, Browning states:

1. The Unit Area consists of approximately 6963.15 acres of the following state lands situated in Lea County, New Mexico:

**Township 10 South, Range 33 East, Lea County, New Mexico**

E/2 Section 7  
W/2 Section 9  
W/2 Section 16  
W/2 Section 17  
E/2 Section 17  
W/2 Section 7  
N2 Section 8  
N2 Section 10  
S2 Section 8  
S2 Section 10  
E/2 Section 20  
W/2 Section 20  
E/2NW/4 and SW/4, Section 21  
E/2 Section 9  
E/2 Section 16  
Lots 3 and 4, Section 19  
E/2SW/4 and SE/4, Section 19  
E/2 Section 21  
W/2 Section 15  
E/2 Section 15  
E/2 of Section 22  
W/2 of Section 11  
W/2 of Section 14

2. Browning is the designated operator under the Unit Agreement, which contains 100% state lands. A copy of the Unit Agreement is attached hereto as Exhibit A.
3. The unitized interval is all formations below the top of the San Andres Pi Marker, which is found at 4,258 feet measured depth and the top of the Mississippian, which is found at 11,193 feet



measured depth in the Van Dyke BGU State 001 (30-025-37438) well located in Section 17,  
Township 8 South, Range 33 East, Lea County, New Mexico.

4. Browning has submitted the Unit Agreement to the State of New Mexico Commissioner of Public Lands and received a letter of preliminary approval.
5. The Unit Agreement, and the unitized operation and management of the Unit Area, are in the best interests of conservation, the prevention of waste and the protection of correlative rights.

WHEREFORE, Browning requests that this Application be set for hearing before and Examiner of the Oil Conservation Division and that after notice and hearing as required by law, the Division enter its order granting this Application.

Respectfully Submitted,

Emerald Energy, LLC

By: 

Terence G. O'Hare  
8140 Walnut Hill Lane Suite 230  
Dallas, Texas 75231  
214-691-2399  
[tgo@emeraldenergyllc.com](mailto:tgo@emeraldenergyllc.com)

**Agent for Browning Oil Company, Inc.**

**Application of Browning Oil Company, Inc. For an Order Acknowledging the Mescalero East Unit, Lea County, New Mexico.**

Applicant seeks an order acknowledging the Mescalero East Unit consisting of approximately 6963.15 acres of the following state land situated in Lea County, New Mexico:

Township 10 South, Range 33 East, Lea County, New Mexico

E/2 Section 7  
W/2 Section 9  
W/2 Section 16  
W/2 Section 17  
E/2 Section 17  
W/2 Section 7  
N2 Section 8  
N2 Section 10  
S2 Section 8  
S2 Section 10  
E/2 Section 20  
W/2 Section 20  
E/2NW/4 and SW/4, Section 21  
E/2 Section 9  
E/2 Section 16  
Lots 3 and 4, Section 19  
E/2SW/4 and SE/4, Section 19  
E/2 Section 21  
W/2 Section 15  
E/2 Section 15  
E/2 of Section 22  
W/2 of Section 11  
W/2 of Section 14

The unitized interval is all formations below the top of the San Andres Pi Marker, which is found at 4,258 feet measured depth and the top of the Mississippian, which is found at 11,193 feet measured depth in the Van Dyke BGU State 001 (30-025-37438) well located in Section 17, Township 8 South, Range 33 East, Lea County, New Mexico. The subject acreage is located 53 miles east of Roswell, New Mexico.

**ONLINE VERSION**

STATE/FEE  
EXPLORATORY UNIT

UNIT AGREEMENT  
FOR THE DEVELOPMENT AND OPERATION  
OF THE

\_\_\_\_\_ UNIT AREA

\_\_\_\_\_ County(ies),

NEW MEXICO

UNIT AGREEMENT  
FOR THE DEVELOPMENT AND OPERATION  
OF THE

\_\_\_\_\_ UNIT AREA  
\_\_\_\_\_ COUNTY(IES), NEW MEXICO

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- EXHIBIT \_\_\_\_\_

UNIT AGREEMENT  
FOR THE DEVELOPMENT AND OPERATION OF THE

\_\_\_\_\_ UNIT AREA  
\_\_\_\_\_ COUNTY(IES), NEW MEXICO

THIS AGREEMENT, entered into as of the \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_, by and between the parties subscribing, ratifying or consenting hereto, and herein referred to as the "parties hereto";

WITNESSETH:

WHEREAS, the parties hereto are the owners of working, royalty, or other oil or gas interests in the unit area subject to this agreement; and

WHEREAS, the Commissioner of Public Lands of the State of New Mexico is authorized by an Act of the Legislature (Sec. 3, Chap. 88, Laws 1943) as amended by Sec. 1 of Chapter 162, Laws of 1951, (Chap. 19, Art. 10, Sec. 45, N.M. Statutes 1978 Annotated), to consent to and approve the development or operation of State Lands under agreements made by lessees of State Land jointly or severally with other lessees where such agreements provide for the unit operation or development of part of or all of any oil or gas pool, field, or area; and

WHEREAS, the Commissioner of Public Lands of the State of New Mexico is authorized by an Act of the Legislature (Sec. 1, Chap. 162), (Laws of 1951, Chap. 19, Art. 10, Sec. 47, N.M. Statutes 1978 Annotated) to amend with the approval of lessee, evidenced by the lessee's execution of such agreement or otherwise, any oil and gas lease embracing State Lands so that the length of the term of said lease may coincide with the term of such agreements for the unit operation and development of part or all of any oil or gas pool, field, or area; and

WHEREAS, the Oil Conservation Division of the Energy and Minerals Department of the State of New Mexico (hereinafter referred to as the "Division"), is authorized by an Act of the Legislature (Chap. 72, Laws 1935, as amended, being Section 70-2-1 et seq. N. M. Statutes Annotated, 1978 Compilation) to approve this agreement and the conservation provisions hereof; and

WHEREAS, the parties hereto hold sufficient interests in the \_\_\_\_\_ Unit Area covering the land hereinafter described to give reasonably effective control of operations therein; and

WHEREAS, it is the purpose of the parties hereto to conserve natural resources, prevent waste and secure other benefits obtainable through development and operation of the area subject to this agreement under the terms, conditions and limitations herein set forth;

NOW, THEREFORE, in consideration of the premises and the promises herein contained, the parties hereto commit to this agreement their respective interests in the below defined unit area, and agree severally among themselves as follows:

1. UNIT AREA: The following described land is hereby designated and recognized as constituting the unit area: **[Attach another page if you need more space.]**

Township \_\_\_\_\_, Range \_\_\_\_\_, N.M.P.M.

Section \_\_\_\_\_ Subdivisions: \_\_\_\_\_

Section \_\_\_\_\_ Subdivisions: \_\_\_\_\_

Section \_\_\_\_\_ Subdivisions: \_\_\_\_\_

Section \_\_\_\_\_ Subdivisions: \_\_\_\_\_

Containing \_\_\_\_\_ total acres, more or less, in County(ies) \_\_\_\_\_ New Mexico

Exhibit "A" attached hereto is a map showing the unit area and the boundaries and identity of tracts and leases in said area to the extent known to the unit operator. Exhibit "B" attached hereto is a schedule showing to the extent known to the unit operator the acreage, percentage and kind of ownership of oil and gas interests in all lands in the unit area. However, nothing herein or in said schedule or map shall be construed as a representation by any party hereto as to the ownership of any interest other than such interest or interests as are shown on said map or schedule as owned by such party. Exhibit "A" and "B" shall be revised by the unit operator whenever changes in ownership in the unit area render such revisions necessary or when requested by the Commissioner of Public Lands, hereinafter referred to as "Commissioner" or the Oil Conservation Division, hereinafter referred to as the "Division".

All land committed to this agreement shall constitute land referred to herein as "unitized land" or "land subject to this agreement".

2. UNITIZED SUBSTANCES: All oil, gas, natural gasoline, and associated fluid hydrocarbons in any and all formations of the unitized land are unitized under the terms of this agreement and herein are called "unitized substances".

3. UNIT OPERATOR: \_\_\_\_\_,

whose address is \_\_\_\_\_ is hereby designated as

unit operator and by signature hereto commits to this agreement all interest in unitized substances vested in it as set forth in Exhibit "B", and agrees and consents to

accept the duties and obligations of unit operator for the discovery, development and production of unitized substances as herein provided. Whenever reference is made herein to the unit operator, such reference means the unit operator acting in that capacity and not as an owner of interests in unitized substances, and the term "working interest owner" when used herein shall include or refer to unit operator as the owner of a working interest when such an interest is owned by it.

4. **RESIGNATION OR REMOVAL OF UNIT OPERATOR:** Unit operator shall have the right to resign at any time but such resignation shall not become effective until a successor unit operator has been selected and approved in the manner provided for in Section 5 of this agreement. The resignation of the unit operator shall not release the unit operator from any liability or any default by it hereunder occurring prior to the effective date of its resignation.

Unit operator may, upon default or failure in the performance of its duties or obligations hereunder, be subject to removal by the same percentage vote of the owners of working interests determined in like manner as herein provided for the selection of a new unit operator. Such removal shall be effective upon notice thereof to the Commissioner and the Division.

The resignation or removal of the unit operator under this agreement shall not terminate his right, title or interest as the owner of a working interest or other interest in unitized substances, but upon the resignation or removal of unit operator becoming effective, such unit operator shall deliver possession of all equipment, materials, and appurtenances used in conducting the unit operations and owned by the working interest owners to the new duly qualified successor unit operator, or to the owners thereof if no such new unit operator is elected, to be used for the purpose of conducting unit operations hereunder. Nothing herein shall be construed as authorizing removal of any material, equipment and appurtenances needed for the preservation of wells.

5. **SUCCESSOR UNIT OPERATOR:** Whenever the unit operator shall resign as unit operator or shall be removed as hereinabove provided, the owners of the working interests according to their respective acreage interests in all unitized land shall by a majority vote select a successor unit operator; provided that, if a majority but less than seventy-five percent (75%) of the working interests qualified to vote is owned by one party to this agreement, a concurring vote of sufficient additional parties, so as to constitute in the aggregate not less than seventy-five percent (75%) of the total working interests, shall be required to select a new operator. Such selection shall not become effective until (a) a unit operator so selected shall accept in writing the duties and responsibilities of unit operator, and (b) the selection shall have been approved by the Commissioner. If no successor unit operator is selected and qualified as herein provided, the Commissioner at his election, with notice to the Division, may declare this unit agreement terminated.

6. **ACCOUNTING PROVISIONS:** The unit operator shall pay in the first instance all costs and expenses incurred in conducting unit operations hereunder, and such costs and expenses and the working interest benefits accruing hereunder shall be apportioned among the owners of the unitized working interests in accordance with an operating agreement entered into by and between the unit operator and the owners of such interests, whether one or more, separately or collectively. Any agreement or agreements entered into between the working interest owners and the unit operator as provided in this section, whether one or more, are herein referred to as the "Operating Agreement". No such agreement shall be deemed either to modify any of the terms and conditions of this unit agreement or to relieve the unit operator of any right or obligation established under this unit agreement and in case of any inconsistencies or conflict between this unit agreement and the operating agreement, this unit agreement shall prevail.

7. **RIGHTS AND OBLIGATIONS OF UNIT OPERATOR:** Except as otherwise specifically provided herein, the exclusive right, privilege and duty of exercising any and all rights of the parties hereto which are necessary or convenient for prospecting for, producing, storing, allocating and distributing the unitized substances are hereby delegated to and shall be exercised by the unit operator as herein provided. Acceptable evidence of title to said rights shall be deposited with said unit operator and, together with this agreement, shall constitute and define the rights, privileges and obligations of unit operator. Nothing herein, however, shall be construed to transfer title to any land or to any lease or operating agreement, it being understood that under this agreement the unit operator, in its capacity as unit operator, shall exercise the rights of possession and use vested in the parties hereto only for the purposes herein specified.

8. **DRILLING TO DISCOVERY:** The unit operator shall, within sixty (60) days after the effective date of this agreement, commence operations upon an adequate test well for oil and gas upon some part of the lands embraced within the unit area and shall drill said well with due diligence to a depth sufficient to attain the top of the \_\_\_\_\_ formation or to such a depth as unitized substances shall be discovered in paying quantities at a lesser depth or until it shall, in the opinion of unit operator, be determined that the further drilling of said well shall be unwarranted or impracticable; provided, however, that unit operator shall not, in any event, be required to drill said well to a depth in excess of \_\_\_\_\_ feet. Until a discovery of a deposit of unitized substances capable of being produced in paying quantities (to wit: quantities sufficient to repay the costs of drilling and producing operations with a reasonable profit) unit operator shall continue drilling diligently, one well at a time, allowing not more than six months between the completion of one well and the beginning of the next well, until a well capable of producing unitized substances in paying quantities is completed to the satisfaction of the Commissioner or until it is reasonably proven to the satisfaction of the unit operator that the unitized land is incapable of producing unitized substances in paying quantities in the formation drilled hereunder.

Any well commenced prior to the effective date of this agreement upon the unit area and drilled to the depth provided herein for the drilling of an initial test well shall be considered as complying with the drilling requirements hereof with respect to the initial well. The Commissioner may modify the drilling requirements of this section by granting reasonable extensions of time when in his opinion such action is warranted. Upon failure to comply with the drilling provisions of this article the Commissioner may, after reasonable notice to the unit operator and each working interest owner, lessee and lessor at their last known addresses, declare this unit agreement terminated, and all rights privileges and obligations granted and assumed by this unit agreement shall cease and terminate as of such date.

9. **OBLIGATIONS OF UNIT OPERATOR AFTER DISCOVERY OF UNITIZED SUBSTANCES:** Should unitized substances in paying quantities be discovered upon the unit area, the unit operator shall on or before six months from the time of the completion of the initial discovery well and within thirty days after the expiration of each twelve months period thereafter, file a report with the Commissioner and Division of the status of the development of the unit area and the development contemplated for the following twelve months period.

It is understood that one of the main considerations for the approval of this agreement by the Commissioner of Public Lands is to secure the orderly development of the unitized lands in accordance with good conservation practices so as to obtain the greatest ultimate recovery of unitized substances.

After discovery of unitized substances in paying quantities, unit operator shall proceed with diligence to reasonably develop the unitized area as a reasonably prudent operator would develop such area under the same or similar circumstances.

If the unit operator should fail to comply with the above covenant for reasonable development this agreement may be terminated by the Commissioner as to all lands of the State of New Mexico embracing undeveloped regular well spacing or proration units, but in such event, the basis of participation by the working interest owners shall remain the same as if this agreement had not been terminated as to such lands; provided, however, the Commissioner shall give notice to the unit operator

and the lessees or record in the manner prescribed by (Sec. 19-10-20 N.M. Statutes 1978 Annotated), of intention to cancel on account of any alleged breach of said covenant for reasonable development and any decision entered thereunder shall be subject to appeal in the manner prescribed by (Sec. 19-10-23 N.M. Statutes 1978 Annotated), and, provided further, in any event the unit operator shall be given a reasonable opportunity after a final determination within which to remedy any default, failing in which this agreement shall be terminated as to all lands of the State of New Mexico embracing undeveloped regular well spacing or proration units.

Notwithstanding any of the provisions of this Agreement to the contrary, all undeveloped regular well spacing or proration unit tracts within the unit boundaries shall be automatically eliminated from this Agreement and shall no longer be a part of the unit or be further subject to the terms of this agreement unless at the expiration of five (5) years after the first day of the month following the effective date of this agreement diligent drilling operations are in progress on said tracts.

10. **PARTICIPATION AFTER DISCOVERY:** Upon completion of a well capable of producing unitized substances in paying quantities the owners of working interests shall participate in the production therefrom and in all other producing wells which may be drilled pursuant hereto in the proportions that their respective leasehold interests covered hereby on an acreage basis bears to the total number of acres committed to this unit agreement, and such unitized substances shall be deemed to have been produced from the respective leasehold interests participating therein. For the purpose of determining any benefits accruing under this agreement and the distribution of the royalties payable to the State of New Mexico and other lessors, each separate lease shall have allocated to it such percentage of said production as the number of acres in each lease respectively committed to this agreement bears to the total number of acres committed hereto.

Notwithstanding any provisions contained herein to the contrary, each working interest owner shall have the right to take such owner's proportionate share of the unitized substances in kind or to personally sell or dispose of the same, and nothing herein contained shall be construed as giving or granting to the unit operator the right to sell or otherwise dispose of the proportionate share of any working interest owner without specific authorization from time to time so to do.

11. **ALLOCATION OF PRODUCTION:** All unitized substances produced from each tract in the unitized area established under this agreement, except any part thereof used for production or development purposes hereunder, or unavoidably lost, shall be deemed to be produced equally on an acreage basis from the several tracts of the unitized land, and for the purpose of determining any benefits that accrue on an acreage basis, each such tract shall have allocated to it such percentage of said production as its area bears to the entire unitized area. It is hereby agreed that production of unitized substances from the unitized area shall be allocated as provided herein, regardless of whether any wells are drilled on any particular tracts of said unitized area.

12. **PAYMENT OF RENTALS, ROYALTIES AND OVERRIDING ROYALTIES:** The respective lease owners in accordance with the terms of their leases shall pay all rentals due to the State of New Mexico.

All royalties due to the State of New Mexico under the terms of the leases committed to this agreement shall be computed and paid on the basis of all unitized substances allocated to the respective leases committed hereto; provided, however, the State shall be entitled to take in kind its share of the unitized substances allocated to the respective leases, and in such case the unit operator shall make deliveries of such royalty share in accordance with the terms of the respective leases.

All rentals, if any, due under any leases embracing lands other than the State of New Mexico, shall be paid by the respective lease owners in accordance with the terms of their leases and all royalties due under the terms of any such leases shall be paid on the basis of all unitized substances allocated to the respective leases committed hereto.

If the unit operator introduces gas obtained from sources other than the unitized substances into any producing formation for the purpose of repressuring, stimulating or increasing the ultimate recovery of unitized substances therefrom, a like amount of gas, if available, with due allowance for loss or depletion from any cause may be withdrawn from the formation into which the gas was introduced royalty free as to dry gas but not as to the products extracted therefrom; provided, that such withdrawal shall be at such time as may be provided in a plan of operation consented to by the Commissioner and approved by the Division as conforming to good petroleum engineering practices; and provided further, that such right of withdrawal shall terminate on the termination of this unit agreement.

If any lease committed hereto is burdened with an overriding royalty, payment out of production or other charge in addition to the usual royalty, the owner of each such lease shall bear and assume the same out of the unitized substances allocated to the lands embraced in each such lease as provided herein.

13. **LEASES AND CONTRACTS CONFORMED AND EXTENDED INSOFAR AS THEY APPLY TO LANDS WITHIN THE UNITIZED AREA:** The terms, conditions and provisions of all leases, subleases, operating agreements and other contracts relating to the exploration, drilling development or operation for oil or gas of the lands committed to this agreement, shall as of the effective date hereof, be and the same are hereby expressly modified and amended insofar as they apply to lands within the unitized area to the extent necessary to make the same conform to the provisions hereof and so that the respective terms of said leases and agreements will be extended insofar as necessary to coincide with the terms of this agreement and the approval of this agreement by the Commissioner and the respective lessors and lessees shall be effective to conform the provisions and extend the terms of each such lease as to lands within the unitized area to the provisions and terms of this agreement; but otherwise to remain in full force and effect. Each lease committed to this agreement, insofar as it applies to lands within the unitized area, shall continue in force beyond the term provided therein as long as this agreement remains in effect, provided, drilling operations upon the initial test well provided for herein shall have been commenced or said well is in the process of being drilled by the unit operator prior to the expiration of the shortest term lease committed to this agreement. Termination of this agreement shall not affect any lease which pursuant to the terms thereof or any applicable laws would continue in full force and effect thereafter. The commencement, completion, continued operation or production on each of the leasehold interests committed to this agreement and operations or production pursuant to this agreement shall be deemed to be operations upon and production from each leasehold interest committed hereto and there shall be no obligation on the part of the unit operator or any of the owners of the respective leasehold interests committed hereto to drill offset to wells as between the leasehold interests committed to this agreement, except as provided in Section 9 hereof.

Any lease embracing lands of the State of New Mexico of which only a portion is committed hereto shall be segregated as to the portion committed and as to the portion not committed and the terms of such leases shall apply separately as two separate leases as to such segregated portions, commencing as of the effective date hereof. Notwithstanding any of the provisions of this agreement to the contrary, any lease embracing lands of the State of New Mexico having only a portion of its lands committed hereto shall continue in full force and effect beyond the term provided therein as to all lands embraced within the unitized area and committed to this agreement, in accordance with the terms of this agreement. If oil and gas, or either of them, are discovered and are being produced in paying quantities from some part of the lands embraced in such lease which part is committed to this agreement at the expiration of the fixed term of such lease, such production shall not be considered as production from lands embraced in such lease which are not within the unitized area, and which are not committed thereto, and drilling or reworking operations upon some part of the lands embraced within the unitized area and committed to this agreement shall be considered as drilling and reworking operations only as to lands embraced within the unit agreement and not as to lands embraced within the lease and not committed to this unit agreement; provided, however, as to any lease embracing lands of the State of New Mexico having only a portion of its lands committed hereto upon which oil and gas, or either of them, has been discovered is discovered upon that portion of such lands not committed to this agreement, and are being produced in paying quantities prior to the expiration of the fixed term of such



lease, such production in paying quantities shall serve to continue such lease in full force and effect in accordance with its terms as to all of the lands embraced in said lease.

14. **CONSERVATION:** Operations hereunder and production of unitized substances shall be conducted to provide for the most economical and efficient recovery of said substances without waste, as defined by or pursuant to State laws or regulations.

15. **DRAINAGE:** In the event a well or wells producing oil or gas in paying quantities should be brought in on land adjacent to the unit area draining unitized substances from the lands embraced therein, unit operator shall drill such offset well or wells as a reasonably prudent operator would drill under the same or similar circumstances.

16. **COVENANTS RUN WITH LAND:** The covenants herein shall be construed to be covenants running with the land with respect to the interests of the parties hereto and their successors in interest until this agreement terminates, and any grant, transfer or conveyance of interest in land or leases subject hereto shall be and hereby is conditioned upon the assumption of all privileges and obligations hereunder to the grantee, transferee or other successor in interest. No assignment or transfer or any working, royalty, or other interest subject hereto shall be binding upon unit operator until the first day of the calendar month after the unit operator is furnished with the original, photo static, or certified copy of the instrument of transfer.

17. **EFFECTIVE DATE AND TERM:** This agreement shall become effective upon approval by the Commissioner and the Division and shall terminate in five (5) years after such date unless (a) such date of expiration is extended by the Commissioner, or (b) a valuable discovery of unitized substances has been made on unitized land during said initial term or any extension thereof in which case this agreement shall remain in effect so long as unitized substances are being produced in paying quantities from the unitized land and, should production cease, so long thereafter as diligent operations are in progress for the restoration of production or discovery of new production and so long thereafter as the unitized substances so discovered are being produced as aforesaid. This agreement may be terminated at any time by not less than seventy-five percent (75%) on an acreage basis of the owners of the working interests, signatory hereto, with the approval of the Commissioner and with notice to the Division. Likewise, the failure to comply with the drilling requirements of Section 8 hereof, may subject this agreement to termination as provided in said section.

18. **RATE OF PRODUCTION:** All production and the disposal thereof shall be in conformity with allocations, allotments, and quotas made or fixed by the Division, and in conformity with all applicable laws and lawful regulations.

19. **APPEARANCES:** Unit operator shall, after notice to other parties affected, have the right to appear for and on behalf of any and all interests affected hereby, before the Commissioner of Public Lands and the Division, and to appeal from orders issued under the regulations of the Commissioner or Division, or to apply for relief from any of said regulations or in any proceedings on its own behalf relative to operations pending before the Commissioner or Division; provided, however, that any other interest party shall also have the right at his own expense to appear and to participate in any such proceedings.

20. **NOTICES:** All notices, demands, or statements required hereunder to be given or rendered to the parties hereto, shall be deemed fully given, if given in writing and sent by postpaid registered mail, addressed to such party or parties at their respective addresses, set forth in connection with the signatures hereto or to the ratification or consent hereof, or to such other address as any such party may have furnished in writing to party sending the notice, demand, or statement.

21. **LOSS OF TITLE:** In the event title to any tract of unitized land or substantial interest therein shall fail, and the true owner cannot be induced to join the unit agreement so that such tract is not committed to this agreement, or the operation thereof hereunder becomes impracticable as a result thereof, such tract may be eliminated from the unitized area, and the interest of the parties readjusted as a result of such tract being eliminated from the unitized area. In the event of a dispute as to the title to any royalty, working, or other interest subject hereto, the unit operator may withhold payment or delivery of the allocated portion of the unitized substances involved on account thereof, without liability for interest until the dispute is finally settled, provided that no payments of funds due the State of New Mexico shall be withheld. Unit Operator, as such, is relieved from any responsibility for any defect or failure of any title hereunder.

22. **SUBSEQUENT JOINDER:** Any oil or gas interest in lands within the unit area not committed hereto, prior to the submission of the agreement for final approval by the Commissioner and the Division, may be committed hereto by the owner or owners of such rights, subscribing or consenting to this agreement, or executing a ratification thereof, and if such owner is also a working interest owner, by subscribing to the operating agreement providing for the allocation of costs of exploration, development, and operation. A subsequent joinder shall be effective as of the first day of the month following the approval by the Commissioner and the filing with the Division of duly executed counterparts of the instrument or instruments committing the interest of such owner to this agreement, but such joining party or parties, before participating in any benefits hereunder, shall be required to assume and pay to unit operator, their proportionate share of the unit expenses incurred prior to such party's or parties joinder in the unit agreement, and the unit operator shall make appropriate adjustments caused by such joinder, without any retroactive adjustment of revenue.

23. **COUNTERPARTS:** This agreement may be executed in any number of counterparts, no one of which needs to be executed by all parties, or may be ratified or consented to by separate instrument in writing specifically referring hereto, and shall be binding upon all those parties who have executed such a counterpart, ratification, or consent hereto with the same force and effect as if all such parties had signed the same document, and regardless of whether or not it is executed by all other parties owning or claiming an interest in the lands within the above described unit area.

IN WITNESS WHEREOF, the undersigned parties hereto have caused this agreement to be executed as of the respective dates set forth opposite their signatures.

[Note – Signature pages follow.]





**EXHIBIT "B". SCHEDULE OF OWNERSHIP**

Schedule Showing All Lands and Leases

Within the \_\_\_\_\_ UNIT  
 \_\_\_\_\_ County(ies) NEW MEXICO

PLEASE ATTACH SHEETS WITH THE FOLLOWING INFORMATION FOR EXHIBIT "B"

TRACT NUMBER	DESCRIPTION OF LANDS	ACRES	SERIAL NUMBER AND EXPIRATION DATE	BASIC ROYALTY AND PERCENTAGE	LESSEE OF RECORD	OVERRIDING ROYALTY AND PERCENTAGE	WORKING INTEREST AND PERCENTAGE
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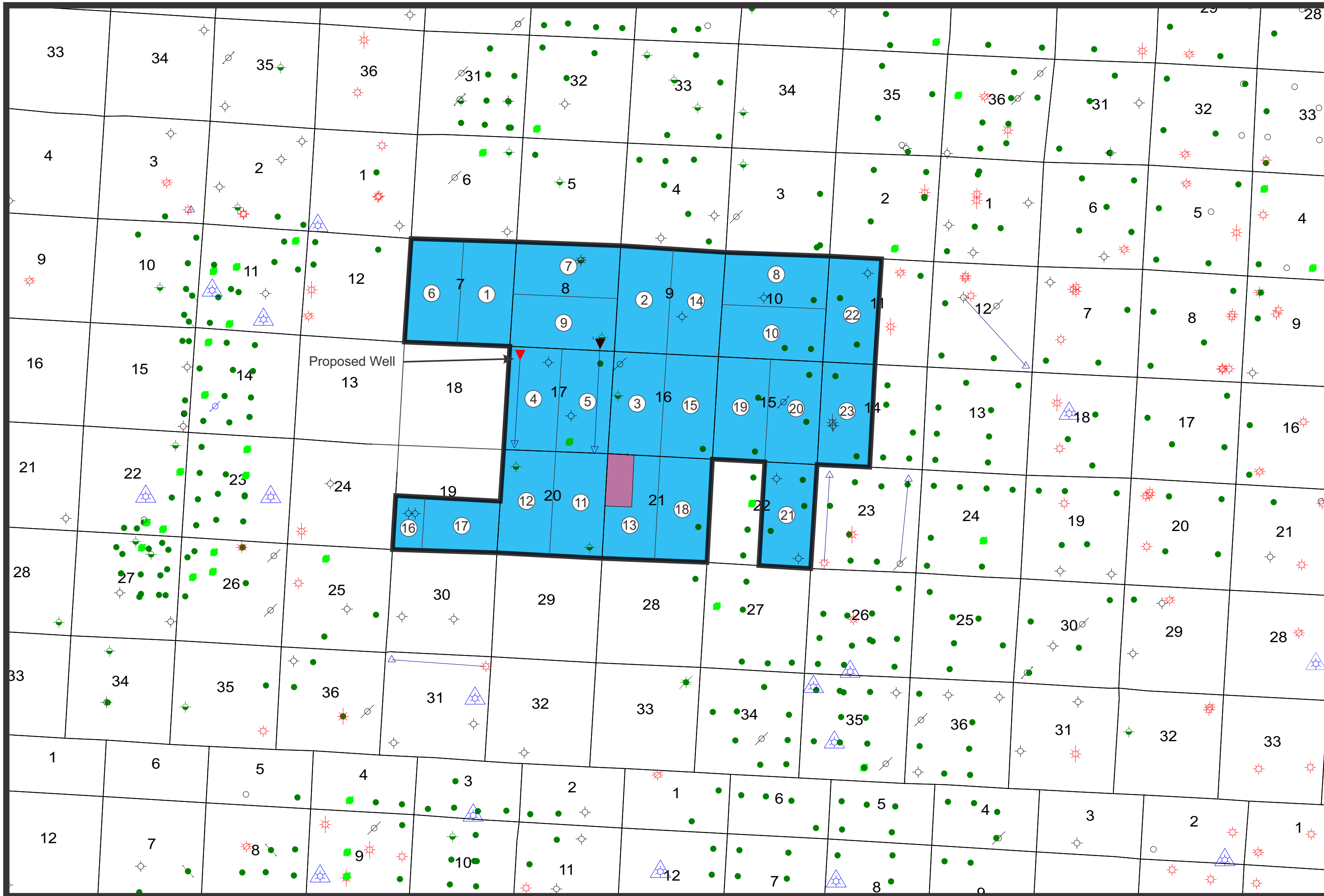
**RECAPITULATION**

\_\_\_\_\_ Acres of State of New Mexico Lands = \_\_\_\_\_ %  
 \_\_\_\_\_ Acres of Fee Lands = \_\_\_\_\_ %  
**TOTAL** \_\_\_\_\_ Acres **100 %**

**EXHIBIT "C". SCHEDULE OF TRACT PARTICIPATION**

PLEASE ATTACH ADDITIONAL SHEETS CONTAINING THE INFORMATION REQUESTED BELOW FOR EXHIBIT "C".

Tract Number                      Unit Participation Percentage  
 \_\_\_\_\_



# Legend

- Mescalero East Unit - 6,963.15 AC
- State - 6963.15 AC
- HBP - 80 AC



**EMERALD**  
ENERGY. LLC

Exhibit "A"  
Mescalero East Exploratory Unit  
Lea County, NM

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Township 10S  
Range 33E

Exhibit "B"									
SCHEDULE OF OWNERSHIP									
Mescalero East Unit Area									
Lea County, New Mexico									
Tract #	State of NM #	Lessor	Lessee	Lessee Percentage	Date	Expiration	Acres	Royalty	Legal Descriptoin
1	VB-2880-0003	The State of New Mexico	Browning Oil Company, Inc.	100.00%	1/1/2017	1/1/2023	320	18.75%	E/2 Section 7, TWP 10S, Range 33E, Lea County, NM
2	VB-2902-0001	The State of New Mexico	Browning Oil Company, Inc.	100.00%	2/1/2017	2/1/2023	320	18.75%	W2 Section 9, Twp 10S, Rge 33E, Institution TWR, Lea County, NM
3	VB-2915-0001	The State of New Mexico	Browning Oil Company, Inc.	100.00%	2/1/2017	2/1/2023	320	18.75%	W2 Section 16, Twp 10S, Rge 33E, Institution CS, Lea County, NM
4	VB-2916-0001	The State of New Mexico	Browning Oil Company, Inc.	100.00%	2/1/2017	2/1/2023	320	18.75%	W2 Section 17, Twp 10S, Rge 33E, Institution TWR, Lea County, NM
5	VB-2903-0001	The State of New Mexico	Browning Oil Company, Inc.	100.00%	2/1/2017	2/1/2023	320	18.75%	E/2 Section 17, Twp 10S, Rge 33E, Institution TWR, Lea County, NM
6	VB-2889-0001	The State of New Mexico	Cobra Oil & Gas Corporation	100.00%	2/1/2017	2/1/2023	322.62	18.75%	E/2 W/2 Section 7, Twp 10S, Range 33E, and Lot No's 1, 2, 3, 4, all in Lea County, NM
7	VC-0034-0001	The State of New Mexico	Browning Oil Company, Inc.	100.00%	4/1/2017	4/1/2023	320	20.00%	N2 Section 8, Twp 10S, Rge 33E, Institution TWR, Lea County, NM
8	VC-0035-0001	The State of New Mexico	Browning Oil Company, Inc.	100.00%	4/1/2017	4/1/2023	320	20.00%	N2 Section 10, Twp 10S, Rge 33E, Institution TWR, Lea County, NM
9	VC-0063-0001	The State of New Mexico	Browning Oil Company, Inc.	100.00%	4/1/2017	4/1/2023	320	20.00%	S2 Section 8, Twp 10S, Rge 33E, Institution TWR, Lea County, NM
10	VC-0064-0001	The State of New Mexico	Browning Oil Company, Inc.	100.00%	4/1/2017	4/1/2023	320	20.00%	S2 Section 10, Twp 10S, Rge 33E, Institution TWR, Lea County, NM
11	VC-0065-0001	The State of New Mexico	Cobra Oil & Gas Corporation	100.00%	4/1/2017	4/1/2023	320	20.00%	E/2 Section 20, Twp 10S, Range 33E, Lea County, NM
12	VC-0036-0001	The State of New Mexico	Cobra Oil & Gas Corporation	100.00%	4/1/2017	4/1/2023	320	20.00%	W/2 Section 20, Twp 10S, Range 33E, Lea County, NM
13	VC-0037-0001	The State of New Mexico	Cobra Oil & Gas Corporation	100.00%	4/1/2017	4/1/2023	240	20.00%	E/2NW/4 and SW/4, Section 21, TWP 10S, Range 33E, Lea County, NM
14	VC-0087-0001	The State of New Mexico	Cobra Oil & Gas Corporation	100.00%	5/1/2017	5/1/2023	320	20.00%	E/2 Section 9, Twp 10S, Range 33E, Lea County, NM
15	VC-0105-0001	The State of New Mexico	Cobra Oil & Gas Corporation	100.00%	5/1/2017	5/1/2023	320	20.00%	E/2 Section 16, Twp 10S, Range 33E, Lea County, NM
16	VC-0106-0001	The State of New Mexico	Cobra Oil & Gas Corporation	100.00%	5/1/2017	5/1/2023	80.53	20.00%	Lots 3 and 4, Section 19, TWP 10S, Range 33E, Lea County, NM
17	VC-0088-0001	The State of New Mexico	Cobra Oil & Gas Corporation	100.00%	5/1/2017	5/1/2023	240	20.00%	E/2SW/4 and SE/4, Section 19, TWP 10S, Range 33E, Lea County, NM
18	VC-0089-0001	The State of New Mexico	Cobra Oil & Gas Corporation	100.00%	5/1/2017	5/1/2023	320	20.00%	E/2 Section 21, Twp 10S, Range 33E, Lea County, NM
19	VC-0275-0001	The State of New Mexico	Browning Oil Company, Inc.	100.00%	11/1/2017	11/1/2022	320	20.00%	W/2 Section 15, TWP 10S, Range 33E, Institution TWR, Lea County, NM
20	VC-0260-0001	The State of New Mexico	Browning Oil Company, Inc.	100.00%	11/1/2017	11/1/2022	320	20.00%	E/2 Section 15, TWP 10S, Range 33E, Institution TWR, Lea County, NM
21	VC-0377-0000	The State of New Mexico	Browning Oil Company, Inc.	100.00%	5/15/2018	5/15/2023	320	20.00%	E/2 of Section 22, Twp 10S, Range 33E
22	VC-0403-0000	The State of New Mexico	Browning Oil Company, Inc.	100.00%	6/19/2018	6/19/2023	320	20.00%	W/2 of Section 11, Twp 10S, Range 33E
23	VC-0404-0000	The State of New Mexico	Browning Oil Company, Inc.	100.00%	6/19/2018	6/19/2023	320	20.00%	W/2 of Section 14, Twp 10S, Range 33E

# Exhibit "C"

## SCHEDULE OF OWNERSHIP

Mescalero East Unit Area

Lea County, New Mexico

## Recapitulation

Tract Number		Net Acres		Unit Participation Percentage
1		320		4.649
2		320		4.649
3		320		4.649
4		320		4.649
5		320		4.649
6		322.62		4.687
7		320		4.649
8		320		4.649
9		320		4.649
10		320		4.649
11		320		4.649
12		320		4.649
13		240		3.487
14		320		4.649
15		320		4.649
16		80.53		1.170
17		240		3.487
18		320		4.649
19		320		4.649
20		320		4.649
21		320		4.649
22		320		4.649
23		240		3.487
<b>Total</b>	<b>State</b>	<b>6963.15</b>		<b>100.000</b>
	6963.15	Acres of State of New Mexico Lands		100.00%
	0	Acres of BLM Lands		0.00%
	0	Acres of Fee Lands		0.00%
<b>Total</b>	<b>6963.15</b>			<b>100.00%</b>



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

**APPLICATION OF BROWNING OIL  
COMPANY, INC. FOR AN ORDER  
ACKNOWLEDGING THE MESCALERO  
EAST UNIT, LEA COUNTY, NEW MEXICO.**

**Case NO. 23036**

**AFFIDAVIT OF TERENCE G. O'HARE**

Terence G. O'Hare, being of lawful age and duly sworn, states the following:

1. My name is Terence G. O'Hare and I am authorized to act as an agent of Browning Oil Company, Inc. in all matters pertaining to the proposed Mescalero East Unit in Lea County, New Mexico.
2. I am responsible for the formation of the proposed unit, familiar with the application filed by Browning in this matter and the status of the lands in the subject area.
3. Browning seeks an order approving the Mescalero East Unit, a voluntary exploration unit consisting of approximately 6963.15 acres of the following state land situated in Lea County, New Mexico:

**Township 10 South, Range 33 East, Lea County, New Mexico**

E/2 Section 7  
W2 Section 9  
W2 Section 16  
W2 Section 17  
E/2 Section 17  
W/2 Section 7  
N2 Section 8  
N2 Section 10  
S2 Section 8  
S2 Section 10  
E/2 Section 20  
W/2 Section 20  
E/2NW/4 and SW/4, Section 21  
E/2 Section 9  
E/2 Section 16  
Lots 3 and 4, Section 19  
E/2SW/4 and SE/4, Section 19  
E/2 Section 21  
W/2 Section 15  
E/2 Section 15  
E/2 of Section 22  
W/2 of Section 11  
W/2 of Section 14

4. Browning is the designated operator under the Unit Agreement, which contains 100% state lands. A copy of the Unit Agreement is attached as Exhibit A to the Application.
5. The unitized interval is all formations below the top of the San Andres Pi Marker, which is found at 4,258 feet measured depth and the top of the Mississippian, which is found at 11,193 feet measured depth in the Van Dyke BGU State 001 (30-025-37438) well located in Section 17, Township 8 South, Range 33 East, Lea County, New Mexico. The subject acreage is located 53 miles east of Roswell, New Mexico.
6. Browning has met with the State Land Office regarding the proposed unitized area and the Unit Agreement. Browning Exhibit B is a copy of the SLO's preliminary approval letter.
7. Browning exhibits A and B were prepared by me or compiled under my direction.



**Stephanie Garcia Richard**  
COMMISSIONER

*State of New Mexico*  
*Commissioner of Public Lands*

310 OLD SANTA FE TRAIL  
P.O. BOX 1148  
SANTA FE, NEW MEXICO 87504-1148

**COMMISSIONER'S OFFICE**

Phone (505) 827-5760

Fax (505) 827-5766

[www.nmstatelands.org](http://www.nmstatelands.org)

August 15, 2022

Browning Oil Company  
12377 Merit Drive  
Dallas, TX 75231

Attention: Mr. Terence G. O'Hare

Re: Preliminary Approval  
Mescalero East Unit  
Lea County, New Mexico

Dear Mr. O'Hare,

This office has received the unexecuted copy of the unit agreement, which you have submitted for the proposed Mescalero East Unit area, Lea County, New Mexico. This agreement meets the general requirements of the Commissioner of Public Lands, who has this date granted you preliminary approval as to form and content.

Preliminary approval shall not be construed to mean final approval of this agreement in any way and will not extend any short-term leases, until final approval and an effective date have been given.

When submitting your agreement for final approval, please submit the following:

1. Application for final approval by the Commissioner setting forth the tracts that have been committed and the tracts that have not been committed.
2. Pursuant to Rule 19.2.100.51, applications for approval shall contain a statement of facts showing:
  - a. That such agreement will tend to promote the conservation of oil and gas and the better utilization of reservoir energy.
  - b. That under the proposed unit operation, the State of New Mexico will receive its fair share of the recoverable oil and gas in place under its lands in the proposed unit area.
  - c. That each beneficiary institution of the State of New Mexico will receive its fair and equitable share of the recoverable oil and gas under its lands within the unit area.
  - d. That such unit agreement is in other respects for the best interest of the trust.
3. All ratifications from the Lessees of Record and Working Interest Owners. All signatures should be acknowledged by a notary and one set must contain original signatures.

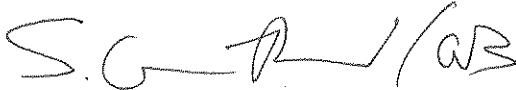
Browning Oil Company  
August 15, 2022  
Page 2

4. Order of the New Mexico Oil Conservation Division. Our approval will be conditioned upon subsequent favorable approval by the New Mexico Oil Conservation Division.
5. Please submit one copy of the Unit Operating Agreement. (if applicable).

Please submit a \$1,100.00 filing fee. (\$100.00/section or partial section of land contained within the unit boundary)

If you have any questions, or if we may be of further help, please contact Scott Dawson at (505) 827-5791.

Respectfully,

Handwritten signature of Stephanie Garcia Richard, consisting of the initials 'S.G.R.' followed by a stylized signature and the initials 'WR' in parentheses.

Stephanie Garcia Richard  
Commissioner of Public Lands

SGR/sd

cc: Reader File  
NMOCD Attention: Mr. Leonard Lowe  
RMD-Attention: Ms. Jeri Birge  
BLM- Attention: Mr. Kyle Paradis, Mr. Ed Fernandez, Mr. Chris Walls

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

**APPLICATION OF BROWNING OIL  
COMPANY, INC. FOR AN ORDER  
ACKNOWLEDGING THE MESCALERO  
EAST UNIT, LEA COUNTY, NEW MEXICO.**

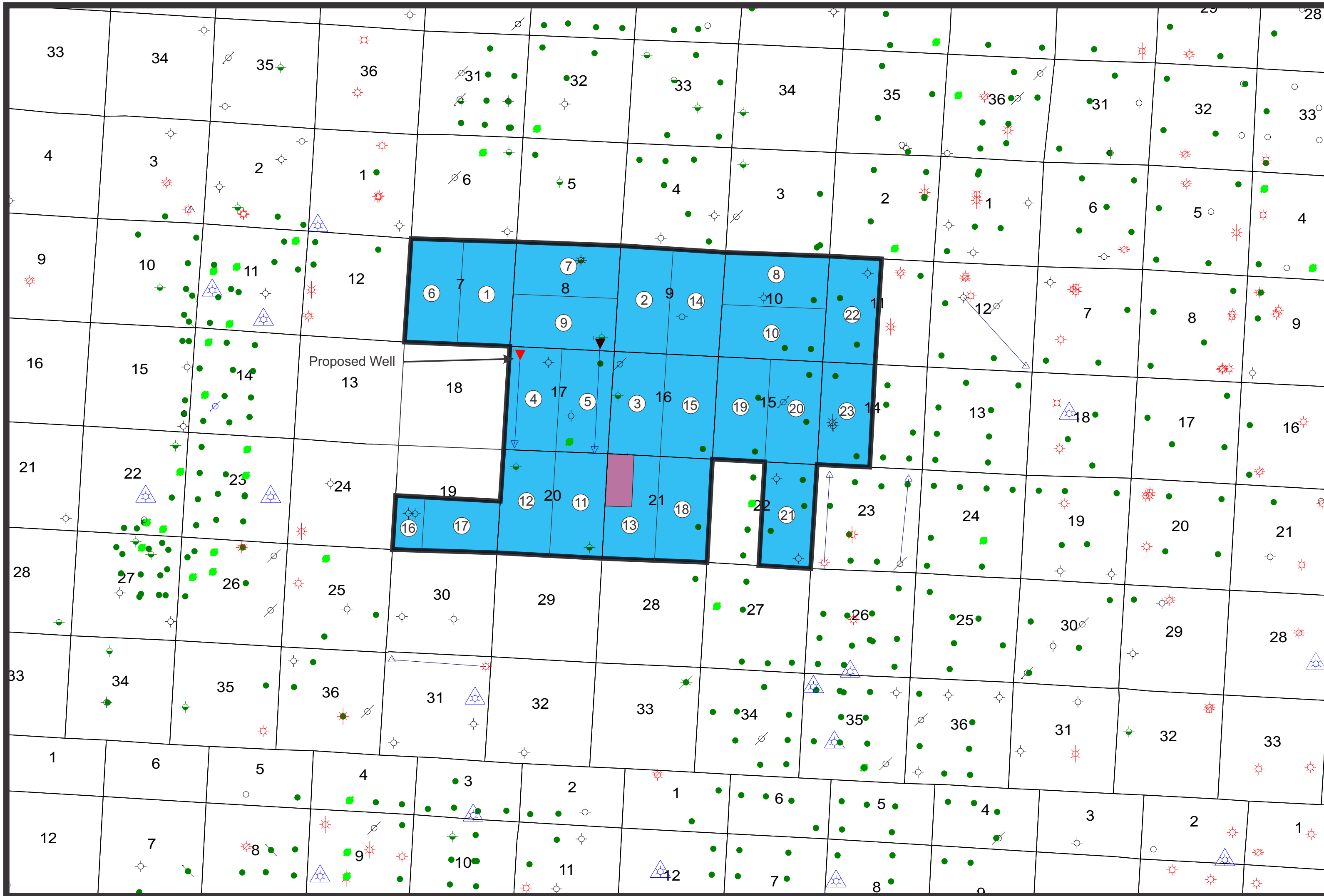
**Case NO. 23036**

**AFFIDAVIT OF CALVIN NIX**


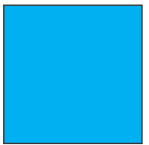
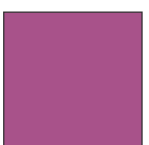
Calvin Nix, of lawful age and being first duly sworn declares as follows:

1. My name is Calvin Nix and I am the geologist authorized to represent Browning Oil Company, Inc. in all matters pertaining to the Mescalero East Unit in Lea County, New Mexico.
2. The unitized interval is all formations below the top of the San Andres Pi Marker, which is found at 4,258 feet measured depth and the top of the Mississippian, which is found at 11,193 feet measured depth in the Van Dyke BGU State 001 (30-025-37438) well located in Section 17, Township 8 South, Range 33 East, Lea County, New Mexico. The subject acreage is located 53 miles east of Roswell, New Mexico.
3. Browning Exhibit C-1 is a locator map that identifies the approximate location of the Mescalero East Unit in the Northwestern area of Lea County.
4. Browning Exhibit C-2 is a type log of the Van Dyke BGU State 001 (30-025-37438) well located in Section 17, Township 8 South, Range 33 East, Lea County, New Mexico.
5. Browning Exhibit C-3 is a subsea structure map on the top of the Bough C interval with the contour intervals at 100 feet. The proposed unit is outlined in yellow. This exhibit demonstrates that the structure dips gently to the southeast in this area. I do not observe any geological impediments to efficiently and effectively developing this formation under the proposed unit area with a unitized plan of operation.
6. Browning Exhibit C-3 also includes a line of cross section from B to B' across the proposed unit area. In my opinion these well logs are representative of the geology underlying the unit area.
7. Browning Exhibit C-4 is the cross section using the wells depicted in Exhibit C-3. I have identified our primary targeted interval, the Bough C.

8. In my opinion, the operation of the acreage as a unit is in the best interests of conservation, the prevention of waste, and the protection of correlative rights.
9. Browning Exhibits C-1 through C-4 were either prepared by me or compiled under my direct supervision.



# Legend

-  Mescalero East Unit - 6,963.15 AC
-  State - 6963.15 AC
-  HBP - 80 AC



**EMERALD**  
ENERGY, LLC

Exhibit "A"  
Mescalero East Exploratory Unit  
Lea County, NM



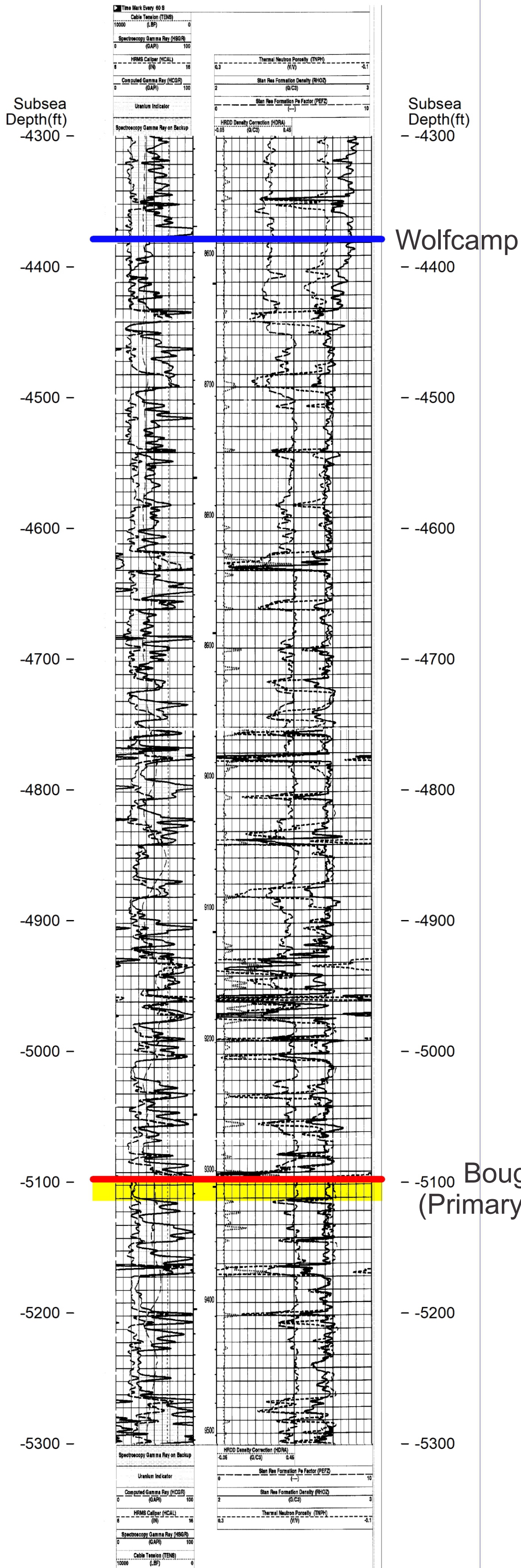
**EMERALD**  
ENERGY, LLC

Township 10S  
Range 33E



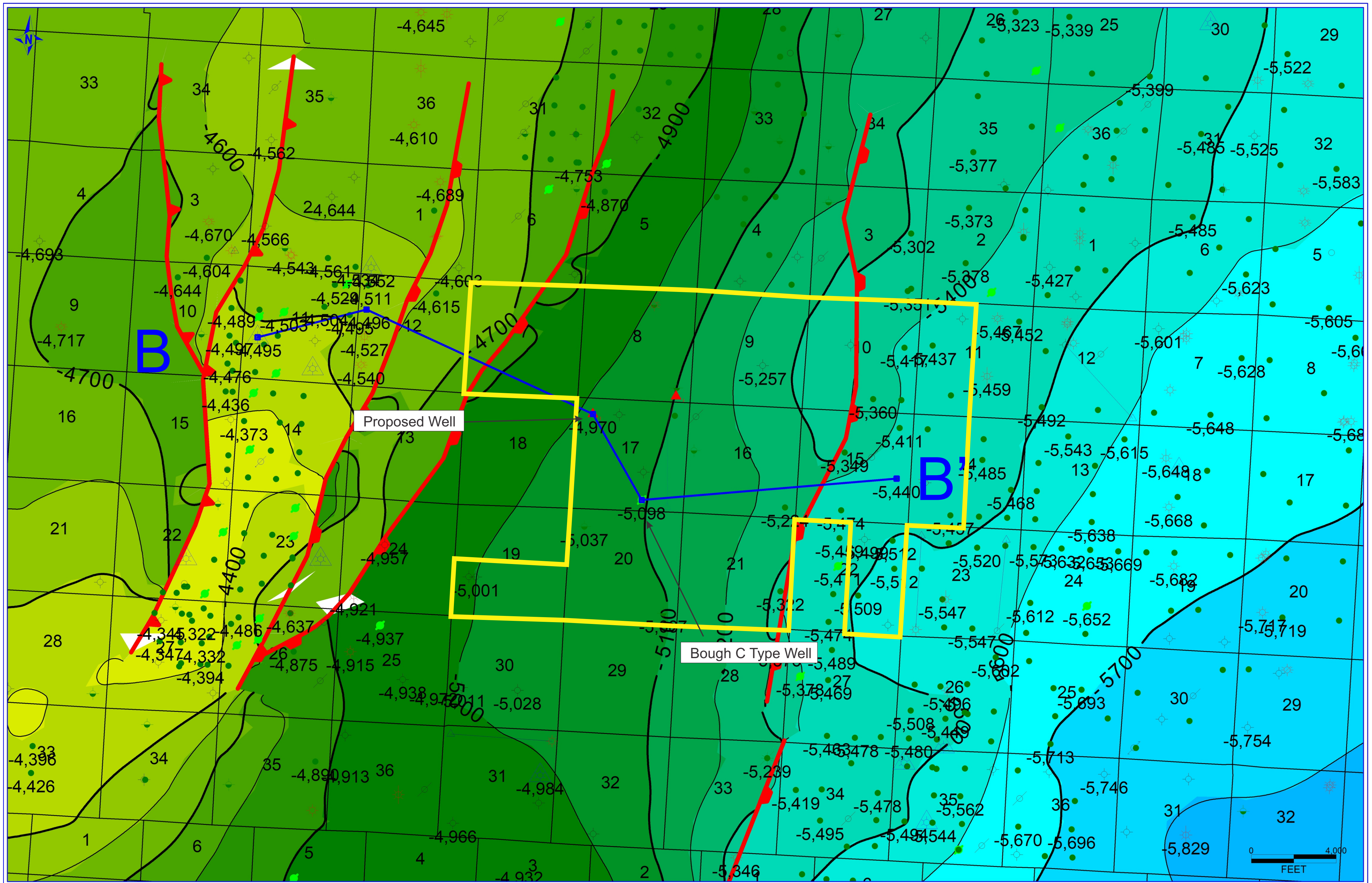



# 30-025-37438 VAN DYKE BGU STATE 001



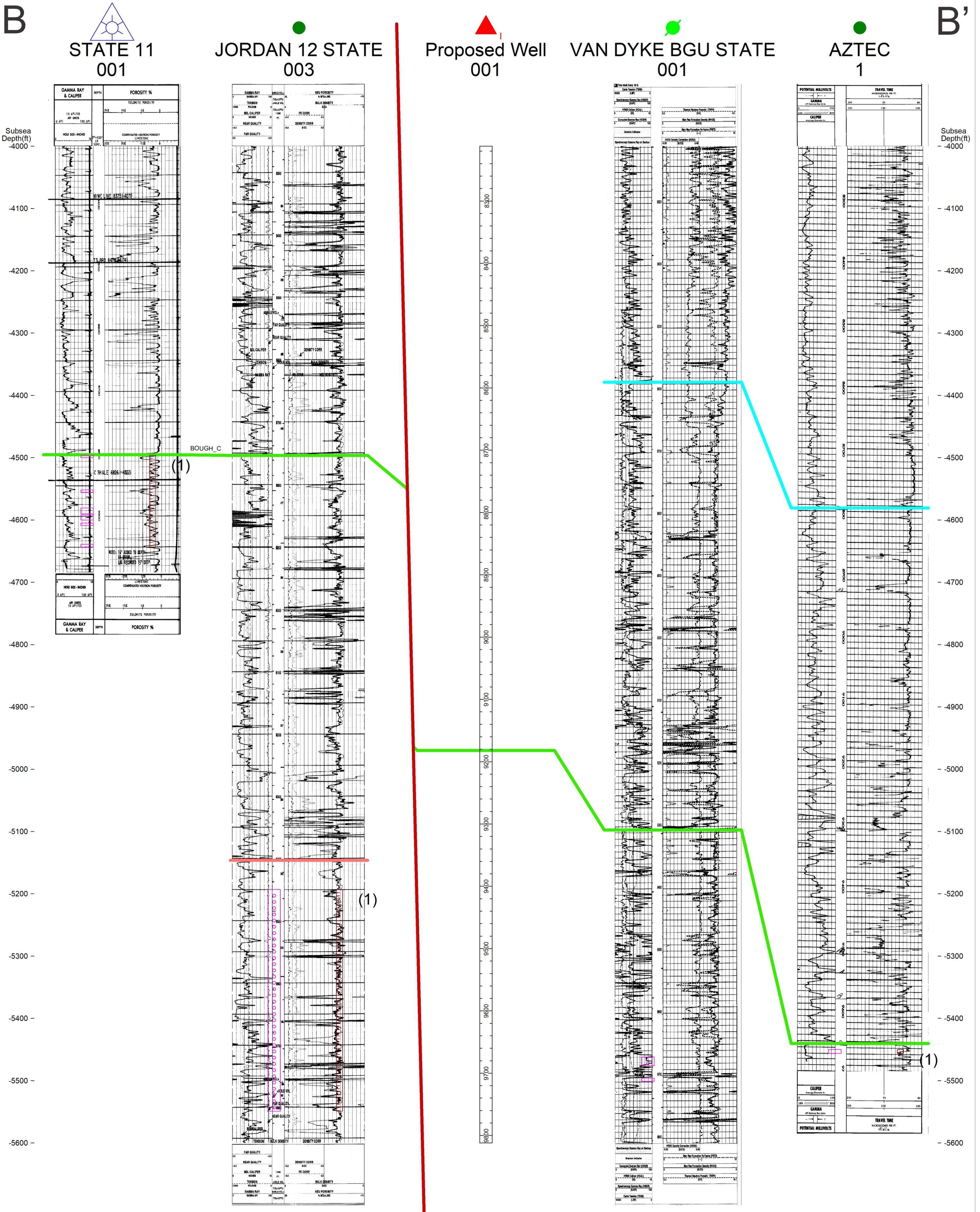
	Mescalero East Prospect Lea County, NM
	Type Log Van Dyke BGU State 001 Bough C Interval





 <p><b>EMERALD</b> ENERGY, LLC</p>	<p>Mescalero East Prospect Lea County, NM</p>
	<p>Structural Contour Map Bough C Contour Interval = 100'</p>

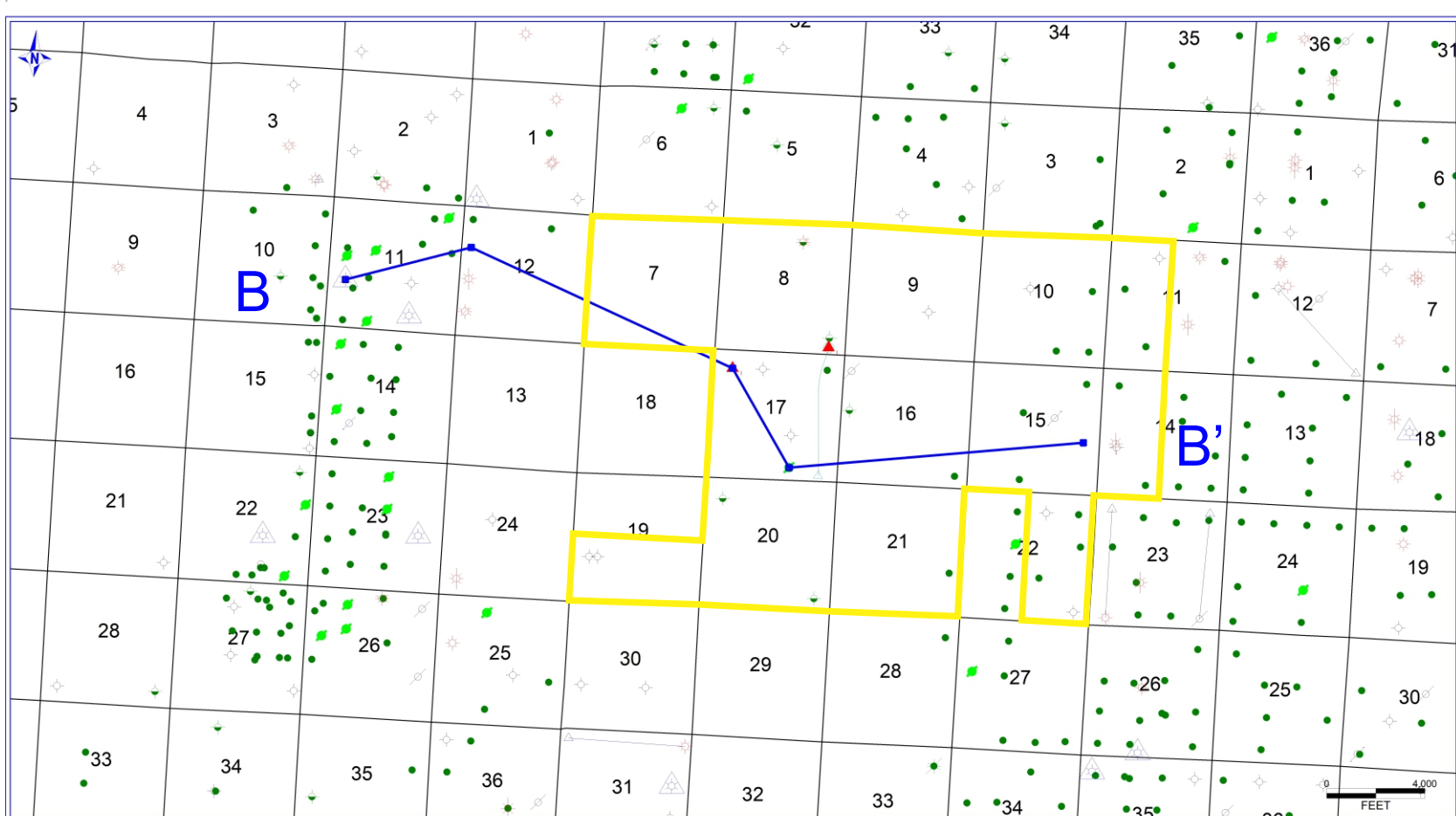




(1) IPP: TestType: IPP  
 258 BOPD OIL  
 152 MCFD GAS  
 138 BWPD WATER

(1) IPF: TestType: IPF  
 409 BOPD OIL  
 365 MCFD GAS  
 128 BWPD WATER

(1) IPF: TestType: IPF  
 462 BOPD OIL  
 105 BOPD WATER  
 TRT: 500 GAL SPEA





Mescalero East Prospect  
 Lea County, NM

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Structural Cross Section  
 B - B'