

Burches Run Lake WMA
54.56 Ac

DANIEL TORRERO
SOUTHWESTERN ENERGY
10000 ENERGY DRIVE
SPRING, TX 77389-0954

08886 PAGE 0601

MEMORANDUM OF OIL AND GAS LEASE

1/15-WV

This Memorandum of Oil and Gas Lease made this 21st day of October, 2015 by and between the **WEST VIRGINIA DIVISION OF NATURAL RESOURCES**, a division of the West Virginia Department of Commerce; whose address is 324 Fourth Avenue, South Charleston, West Virginia 25303, hereinafter collectively called "Lessor," and **SWN Production Company, L.L.C.**, a Texas limited liability company, whose address is 10000 Energy Drive, Spring, Texas 77389, hereinafter called "Lessee."

WITNESSETH

For and in consideration of the sum of Four Thousand Five Dollars (\$4,005.00) per acre paid, and other good and valuable consideration, Lessor did make and execute in favor of Lessee an Oil and Gas Lease dated and effective October 2, 2015, which provides for a four (4) year primary term covering Lessor's interest in the following described lands:

Tract 1:

Property Tax Parcel Identification Number: 15-0001-0004-0001,
containing 39.52 acres, more or less

Bounded formerly or currently as follows:

- On the North by lands of GEETA;
- On the East by lands of GEETA, Phillip Newberry and James F. Brose;
- On the South by lands of State of West Virginia;
- On the West by lands of GEETA;

Including lands described in Book 347 at Page 244, dated July 14, 1960, and recorded November 10, 1960, from Lewis M. Shepherd, single; S. B. Wilson and Lillian G. Wilson, his wife; Helen M. Ryan and Thomas D. Ryan, her husband; Charlotta Witsberger, single; Julian Shepherd, single; and James B. Shepherd and Florence Shepherd, his wife; to the State of West Virginia, for the use of the Conservation Commission of West Virginia.

Tract 2:

Property Tax Parcel Identification Number: 15-0001-0005-0001,
containing 15.04 acres, more or less

Bounded formerly or currently as follows:

- On the North by lands of State of West Virginia;
- On the East by lands of GEETA and Glenn Hickey;
- On the South by lands of GEETA;
- On the West by lands of the Olive Plants Estate;

Including lands described in Book 348 at Page 150, dated December 8, 1960, and recorded January 13, 1961, from Donald F. Samples, a single man, to the Conservation Commission of West Virginia

Jan Post
MARSHALL County 10:16:50 AM
Instrument No 1397397
Date Recorded 01/01/2016
Document Type O&G
Pages Recorded 3
Book-Page 596-401
Recording Fee \$5.00
Additional \$0.00

Containing 54.56 acres and located in the District of Webster, Marshall County, State of West Virginia, for the purpose of drilling, operating for, producing and removing oil and gas and all the constituents thereof. This Lease may be extended beyond the primary term by certain activities including, without limitation, conducting operations, producing oil or gas, or making prescribed payments.

This Memorandum of Oil and Gas Lease is being made and filed for the purpose of giving third parties notice of the existence of the Lease described above. The execution, delivery and recordation of this Memorandum of Oil and Gas Lease shall have no effect upon, and is not intended as an amendment of the terms and conditions of the Lease. It is understood this lease includes all rights owned by the Lessor in the properties described herein.

BOOK 0886 PAGE 0602

IN WITNESS WHEREOF this Memorandum of Oil and Gas Lease is executed as of the date first above written.

WEST VIRGINIA DIVISION OF
NATURAL RESOURCES, ON BEHALF OF
ITSELF AND OF THE STATE OF WEST
VIRGINIA

Nancy A. Greene
ATTEST:

Robert A. Fala
By: Robert A. Fala, Director
West Virginia Division of Natural Resources

SWN Production Company, LLC

ATTEST:

Stephen M. Guidry
By: Stephen M. Guidry
Title: Vice President-Land
MS
P.M.S.

ACKNOWLEDGEMENT FOR WEST VIRGINIA DIVISION OF
NATURAL RESOURCES

State of West Virginia,

County of Kanawha,

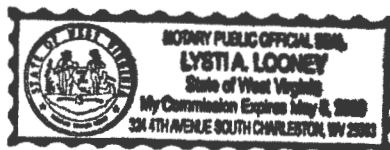
Personally appeared before me, the undersigned Notary Public, within and for said County and State, ROBERT A. FALA, to me known to be the person who subscribed the name of the **West Virginia Division of Natural Resources, a division of the West Virginia Department of Commerce**, to the foregoing instrument, as its Director, and acknowledged to me that he executed the same as his free and voluntary act and deed and as the free and voluntary act and deed of such West Virginia Division of Natural Resources, a division of the West Virginia Department of Commerce, for the uses and purposes herein set forth.

IN WITNESS WHEREOF, I have hereunto set my hand and Notary Seal on this 8 day of December 2015.

My Commission Expires: May 8, 2020
Lystia A. Looney

Notary Public

(SEAL)



CORPORATE ACKNOWLEDGMENT

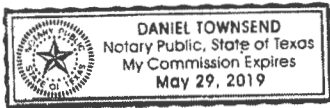
STATE OF TEXAS)
) SS:
COUNTY OF HARRIS)

On this the 26 day of October, 2015, before me the undersigned Notary Public, personally appeared Stephen M. Guidry, who acknowledged himself to be the Vice-President - Land of SWN Production Company, L.L.C., a Texas limited liability company, and that he as such officer, being authorized to do so, executed foregoing instrument for the purpose therein contained by signing the name of the corporation by himself as Vice-President - Land.

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

My Commission Expires: May 29, 2019
Signature/Notary Public: [Signature]
Name/Notary Public (print): Daniel Townsend

(SEAL)



Document prepared by: SWN Production Company, LLC, 10000 Energy Drive, Spring, TX 77389.

Recorder: Return to SWN Production Company, LLC, Lease Records, 10000 Energy Drive, Spring, Texas 77389.

STATE OF WEST VIRGINIA, MARSHALL COUNTY, SCT.:

I, JAN PEST, Clerk of the County Commission of said County, do hereby certify that the annexed writing, bearing date on the 22nd day of October, 2015, was presented for and by me, admitted to record in my office upon the above certificate as to the parties therein named this 21st day of January, 2016 at 10:18 o'clock A. M.

TESTE: [Signature] Clerk.

Tract No. Burches Run WMA
Sale _____
Lease No. 39.52 / 15.04 Ac

OG-17-F/25-358

THE STATE OF WEST VIRGINIA OIL AND GAS LEASE
NO SURFACE USE
(4 YEAR PAID-UP LEASE)

This Oil and Gas Lease (this "Lease") is dated and effective as of October 2, 2015 (the "Effective Date"), by and between the **WEST VIRGINIA DIVISION OF NATURAL RESOURCES**, a division of the West Virginia Department of Commerce, whose address is **324 Fourth Avenue, South Charleston, West Virginia 25303**, party of the first part, hereinafter designated as **LESSOR**, and **SWN Production Company, LLC**, a Texas corporation, whose address is **10000 Energy Drive Spring, Texas 77389**, party of the second part, hereinafter designated as **LESSEE**.

UNDER AND PURSUANT TO THE PROVISIONS OF THE CONSTITUTION AND LAWS OF THE STATE OF WEST VIRGINIA RELATING TO LEASING PUBLIC LANDS BELONGING TO THE STATE OF WEST VIRGINIA, WITNESSETH:

1. Grant of Lease. In consideration of the bonus of Four Thousand Five Dollars (\$4,005.00) per acre paid at closing to Lessor, the royalties to be paid, and the covenants, obligations, stipulations and conditions to be observed and performed as herein set forth, Lessor does hereby demise, lease and let unto the Lessee the following described tracts of land for the sole purpose and with the exclusive right of exploring, drilling, completing, operating for, and producing oil, gas, and other liquid or gaseous hydrocarbons (including, by way of example and not limitation, any and all natural gas liquids such as butane, ethane, isobutane, natural gasolines, pentanes, propane, and similar liquids or byproducts) produced in association with the oil or gas in or underlying the Leased Premises (the "Granted Minerals"), situated in Webster District, Marshall County, West Virginia, and being more particularly described as follows:

Tract 1:

Property Tax Parcel Identification Number: 15-0001-0004-0001, containing 39.52 acres, more or less

Bounded formerly or currently as follows:

- On the North by lands of GEETA;
- On the East by lands of GEETA, Phillip Newberry and James F. Brose;
- On the South by lands of State of West Virginia;
- On the West by lands of GEETA;

Including lands described in Book 347 at Page 244, dated July 14, 1960, and recorded November 10, 1960, from Lewis M. Shepherd, single; S. B. Wilson and Lillian G. Wilson, his wife; Helen M. Ryan and Thomas D. Ryan, her husband; Charlotta Witsberger, single; Julian Shepherd, single; and James B. Shepherd and Florence Shepherd, his wife; to the State of West Virginia, for the use of the Conservation Commission of West Virginia.

Tract 2:

Property Tax Parcel Identification Number: 15-0001-0005-0001, containing 15.04 acres, more or less

Bounded formerly or currently as follows:

- On the North by lands of State of West Virginia;
- On the East by lands of GEETA and Glenn Hickey;
- On the South by lands of GEETA;
- On the West by lands of the Olive Plants Estate;

Including lands described in Book 348 at Page 150, dated December 8, 1960, and recorded January 13, 1961, from Donald F. Samples, a single man, to the Conservation Commission of West Virginia

Containing **54.56 acres**, more or less (the "Leased Premises"). Lessor represents and warrants to Lessee that the West Virginia Division of Natural Resources is the proper agency or instrumentality of the State of West Virginia to enter into this Lease for the purpose of leasing the Granted Minerals and Leased Premises to Lessee on the terms set forth herein, and that the Director of the West Virginia Division of Natural Resources is vested with the full legal authority and is duly authorized to execute this Lease on behalf of the Lessor and the State of West Virginia.

2. Limitations on the Grant of Lease.

a. **Surface Activities Prohibited.** This lease does not include, and specifically prohibits and excludes the right to enter upon or conduct exploration for, drilling, and production and marketing activities of any kind associated with the Granted Minerals, or any other activities by Lessee, its representatives, employees, contractors, agents, and affiliates, on the surface of the lands covered herein, if any, including, but not limited to the construction of any pits and/or pipelines or gathering lines on the Leased Premises.

b. **No Storage.** Lessee may not use the Leased Premises, or any part thereof, for gas, oil, hydrocarbons, or brine storage purposes.

c. **Use of Surface or Subsurface Water.** Lessee shall not use the surface waters or the groundwaters located within the Leased Premises and shall not diminish or impair the riparian rights, consumptive or non-consumptive water rights or groundwater of the State of West Virginia within or adjoining the Leased Premises or any private riparian landowner adjoining the Leased Premises within said State and shall not diminish or impair the riparian rights, consumptive or non-consumptive water rights or groundwater of the State of West Virginia within or adjoining the Leased Premises or any private riparian landowner adjoining the Leased Premises within said State.

d. **Navigational Servitude.** Lessee may not perform any work, construction, production or any related activities on the bed, banks or shores of any waterway below the high water mark thereof within the waterway. Lessee shall not in any way hinder or impair the navigational servitude of the United States of America or the public rights of navigation or floatage in the Ohio River, if applicable, or any other navigable or floatable waterway.

e. **Reserved Rights of Lessor.** Lessor reserves all rights not granted in this Lease, and specifically excepts herefrom all minerals other than the Granted Minerals including, by way of example and

not limitation, geothermal energy, salt, brine, coal and coalbed methane.

3. Facilities Development. All development and production activities and facilities shall be constructed on adjoining and/or other lands, but not the Leased Premises, and above and outside the high water mark of the Ohio River, other waterways or islands therein, except to the extent that horizontal well laterals are located underneath the bed, banks and shores of the same.

4. Term. This Lease shall remain in force for a term of Four (4) years from the date hereof ("Primary Term"), and as long thereafter as Granted Minerals are produced from the Leased Premises or on acreage pooled therewith, or drilling operations are continued as hereinafter provided. If, at the expiration of the Primary Term of this Lease, Granted Minerals are not being produced on the Leased Premises or on acreage pooled therewith, but Lessee is then engaged in drilling or re-working operations thereon, then this Lease shall continue in force for so long as operations are being continuously prosecuted on the Leased Premises or on acreage pooled therewith ("Operations"). Operations shall be considered to be continuously prosecuted if not more than one hundred twenty (120) consecutive days shall elapse between the completion or abandonment of one well and the beginning of operations for the drilling of a subsequent well. If after discovery of Granted Minerals on the Leased Premises or on acreage pooled therewith, the production thereof should cease from any cause after the Primary Term, this Lease shall not terminate if Lessee commences additional drilling or re-working operations within one hundred twenty (120) days from date of cessation of production or from date of completion of a dry hole. If Granted Minerals shall be discovered and produced as a result of such operations at or after the expiration of the Primary Term of this Lease, this Lease shall continue in force so long as Granted Minerals are produced from the Leased Premises or on acreage pooled therewith.

5. Unitization. Lessee may voluntarily pool, consolidate, or unitize portions of the Leased Premises as to hydrocarbon bearing geologic formations in order to constitute a unit for the purpose of exploring for and producing Granted Minerals. Said unit may not exceed Six Hundred Forty (640) acres and shall be comprised of lands contiguous to the Leased Premises and/or in the immediate vicinity of the Leased Premises; provided, that the unit may, with the written consent of Lessor, be larger, but no greater than One Thousand, Two Hundred and Eighty (1,280) acres, which consent shall not be unreasonably withheld, if that unit, in comparison to a unit of Six Hundred Forty (640) acres, shall provide for the greater development of the Granted Minerals in compliance with the diligent development and protection from drainage requirements of Paragraph Fourteen of this Lease. Once formed, the unit(s) may not be reformed, re-pooled, altered, amended, or changed in any manner without the prior written consent of Lessor, which consent shall not be unreasonably withheld. If Lessor does not grant or deny consent within Thirty (30) days of its receipt of the subject Lessee's request, said request will be deemed approved and consent granted.

6. Pugh Clause – Horizontal and Vertical. As to any acreage of the Leased Premises which is not included within any properly constituted and publicly recorded production unit at the expiration of the Primary Term, as extended hereunder, this Lease shall automatically terminate, and be of no further force or effect. Further, and to the extent Lessee has established production in paying quantities beyond the expiration of the Primary Term on the Leased Premises, or lands pooled or unitized therewith, the Lease shall terminate, on a production unit-by-production unit basis, as to all depths, horizons and zones lying at least One Hundred feet (100') below the deepest producing horizon on the Leased Premises or any lands pooled therewith determined by reference to the deepest producing horizon in each respective production unit. Thereafter, this Lease shall continue in full force and effect for all depths, horizons and zones lying above the depth of One Hundred feet (100') below the deepest producing formation of a particular production unit as to all acreage located within that particular production unit. Upon the drilling and completion of a well within a production unit containing at least a portion of the Leased Premises, Lessee shall file a declaration of pooling and unitization within a reasonable time in the records of the Office of the Clerk of the County Commission of the

county in which the applicable Granted Minerals are situated.

7. Royalty.

a. **Delivery and Payment.** Lessee shall deliver or cause to be delivered to the Lessor, or its successors, nominees, agents, or assigns, at no cost to Lessor, a royalty equal to **Twenty Percent (20%) or One-Fifth of Eight Eighths (1/5 of 8/8ths)** of the Gross Proceeds realized by Lessee, or any Affiliate of Lessee, from the sale of the Granted Minerals, produced and sold from the Leased Premises.

i. **Gross Proceeds.** Gross Proceeds means the total monies and other consideration accruing to Lessee for the disposition of the Granted Minerals and/or any other marketable by-products, including condensate, produced from the Leased Premises. Gross Proceeds shall be calculated based on the total gross volume of Granted Minerals produced and sold, exclusive of production and post-production costs and severance taxes or other taxes of any nature.

ii. **Affiliate of Lessee.** Affiliate of Lessee means any person, corporation, firm, or other entity in which Lessee, or any parent company, subsidiary or affiliate of Lessee, owns an interest of Five Percent (5%) or more, whether by stock ownership or otherwise, or over which Lessee, or any parent company or affiliate of Lessee exercises any degree of control, directly or indirectly, by ownership, interlocking directorate, or in any other manner; and any corporation, firm or other entity which owns any interest in Lessee, whether by stock ownership or otherwise, or which exercises any degree of control, directly or indirectly, over Lessee, by stock ownership, interlocking directorate, or in any other manner.

b. **Due Dates of Royalty.** Lessee shall pay Lessor all royalties that may become due under this Lease within one hundred twenty (120) days after the first day of the month following the month during which any well commences production into a pipeline for sale of such production. Thereafter, all royalties shall be paid to Lessor on or before the last day of the third month following the month of production or within Ninety (90) days after the first day of the month following, whichever is longer.

c. **Automatic Termination for Non-Payment of Royalty.** If royalty is not paid within the time prescribed in the preceding sub-section entitled Due Dates of Royalty, Lessor will provide Lessee written notice of nonpayment of royalty in accordance with paragraph 32 of this Lease. If Lessee fails to pay Lessor royalty actually due and owing to Lessor within Thirty (30) days from Lessee's receipt of such notice, this Lease will automatically terminate. Inaccurate royalty payments shall not be governed by the provisions of this paragraph 7(a)(c), but shall be resolved in good faith between Lessor and Lessee in a timely manner.

d. **Production & Post-Production Costs.** Neither Lessee, nor any Affiliate of Lessee, may reduce Lessor's royalty for any post-production expense, including, by way of example and not limitation, pipelines, surface facilities, telemetry, gathering, dehydration, transportation, fractionation, compression, manufacturing, processing, treating, or marketing of the Granted Minerals or any severance or other taxes of any nature paid on the production thereof. Royalties under this Lease shall be based on the total proceeds of sale of the Granted Minerals, exclusive of any and all production and/or post-production costs.

8. Method of Payment. All rents, royalties, bonuses, or other payments accruing and/or owing from Lessee to Lessor under this Lease shall be made or tendered in the following manner:

- a. By certified or cashier check delivered in accordance with paragraph 32 of this Lease, or
- b. By direct deposit or wire transfer to the credit of Lessor as provided in writing by Lessor

to Lessee in writing by a separate instrument delivered contemporaneously with this Lease.

9. Information, Metering, Lessor's Right to Audit. Upon request, Lessee shall furnish to Lessor copies of title opinions covering the Leased Premises; copies of filings made by Lessee with the Department of Environmental Protection related to the Leased Premises; copies of daily drilling reports, gauge tickets, sales receipts, division orders, or amounts of gross production; copies of gas contracts or any other agreements pursuant to which Lessee will sell, use, transfer, process, or dispose of the Granted Minerals produced from the Leased Premises; and/or any other information related to the production and sales of the Granted Minerals, excepting any documentation that is subject to a confidentiality clause or similar provision which limits distribution of the subject documentation to third-parties. Lessee shall meter gas deriving from the Leased Premises at the wellhead in accordance with West Virginia law. Lessor shall, on an annual basis, have the right to audit the books, accounts, contracts, records, and data of Lessee pertaining to the development and sale of the Granted Minerals. Lessee shall also supply Lessor with a copy of Lessor's completion report of such well or wells within thirty calendar (30) days of completion.

10. Quarterly Royalty Statement, Annual Report. Lessee shall furnish an annual report, including production volumes and sales prices, to the Lessor not less than annually on the anniversary date of this Lease, unless otherwise requested by Lessor. The Lessee shall include the following information no less frequently than once per calendar quarter, either on the check stub of a royalty payment or on an attachment to or enclosure with a royalty payment:

- a. The lease, property, or well names and the well identification numbers on which royalties are being paid;
- b. The month and year during which the sales occurred for which payment is being made;
- c. The total production from the well or wells expressed as the number of barrels of oil or the total amount of gas in million cubic feet (MCF) and the volume of any other Granted Minerals, condensate, or other constituents therein which were sold
- d. The price per barrel of oil and per MCF of gas sold; and
- e. The name, address, and telephone number of a contact person where the Lessor may obtain information about royalty payments made by the Lessee hereunder

11. Shut-In Royalty. If a well has been completed capable of production in paying quantities, and has been temporarily shut-in for lack of a market, Lessee shall pay Lessor annually, on or before Ninety (90) days of such shut-in event, the sum of One Hundred (\$100.00) Dollars per acre for the first year, and Two Hundred Fifty Dollars (\$250.00) per acre for the year thereafter on the ensuing anniversary. In no event may Lessee maintain this Lease by payment of shut-in royalty beyond a continuous two-year period, and this Lease shall terminate automatically on the first day following the second anniversary date of initial shut-in. Additionally, in no event may Lessee maintain this Lease by payment of shut-in royalty beyond a cumulative three-year period during which all production of Granted Minerals was shut-in, and this Lease shall terminate automatically on the first day following the date that all production of Granted Minerals has been shut-in for a cumulative period of Three (3) years.

12. Notice of Intent to Drill and Complete. Lessee shall supply Lessor prior written notice of Lessee's intention to drill at least fourteen (14) calendar days prior to the spudding in of a well associated

with producing the Granted Minerals..

13. Diligence, Duty to Drill Offset Wells. Lessee shall conduct its drilling operations hereunder utilizing best industry practices in existence at the time of such drilling, and shall otherwise conduct its operations in a good and workmanlike manner as a reasonably prudent operator would under the same or similar circumstances until all drilling and producing operations are completed, or until such time as the final well is plugged and abandoned. Additionally, if Granted Minerals are discovered on or in the Leased Premises, Lessee shall further develop and produce the Leased Premises as a reasonable and prudent operator would, and exercise all due diligence in drilling additional well(s) as may be necessary to fully develop the Leased Premises. Lessee shall protect the Granted Minerals in and under the Leased Premises from drainage by wells on adjoining or nearby tracts or leases, including those held by Lessee or any Affiliate of Lessee. Neither the rentals, royalties, nor any other consideration set forth under this Lease shall relieve Lessee of its obligation to reasonably develop and produce the Leased Premises and to reasonably protect the Granted Minerals in and under the Leased Premises from drainage or other damage.

14. Waste Prohibited, Damage. Lessee shall not commit, or cause to be committed, waste, damage, or pollution to the Leased Premises. Lessee shall take all reasonable steps to prevent its operations from causing or contributing to soil erosion, or to the injury of terraces, grades, embankments, other soil, or structures on the Leased Premises. Lessee shall not pollute the surface or subterranean waters of the Leased Premises, any reservoirs, springs, streams, irrigation ditches, stock ponds, or other wells on the Leased Premises. Lessee shall not decrease the fertility of the soil, damaging any crops, grasses, timber, or pastures on the Leased Premises, and shall not harm or injure any animals, fish, or livestock on or in the Leased Premises, or damage any buildings, roads, structures, or other improvements on the Leased Premises. Lessee shall preserve the Leased Premises, and upon the termination of this Lease, promptly surrender and return the Leased Premises to the Lessor in the same condition, or substantially similar condition, as the Leased Premises were in prior to Lessee taking possession of the Leased Premises. Lessee shall compensate Lessor, its successors or assigns, for damages caused by Lessee to any being or thing which is the subject of this provision.

15. Well Plugging. Before abandoning any well associated with this Lease, Lessee shall securely plug and abandon such well or wells in accordance with the rules and regulations of the West Virginia Department of Environmental Protection and the laws of the State of West Virginia, and any other governmental agency having jurisdiction.

16. Record Management. The Lessee shall keep an accurate account of all drilling operations, including but not limited to the following: a log of each well drilled, duly sworn to by the contractor or driller; original gas sales contracts with amendments; gas balancing agreements and schedules; information concerning litigation, settlement agreements, or other agreements relating to sales and pricing of the Granted Minerals.

17. Ratification. No instrument executed by Lessor shall be effective to constitute a ratification, renewal, extension or amendment of this Lease unless such instrument is clearly titled to indicate its purpose and intent.

18. Compliance with Applicable Law. This Lease shall be subject to the Constitution and laws of the State of West Virginia and the rules and regulations of the West Virginia Division of Natural Resources and the West Virginia Department of Environmental Protection now or hereafter in force, all of which are made a part and condition of this Lease; provided, that no regulation made after the execution of this Lease affecting either the length of the term hereof, the rate of royalty, or payment hereunder, or the assignment hereof, shall operate to alter the terms and conditions of this Lease. Lessee agrees to comply in

all material respects with the laws, rules and regulations of the State of West Virginia and the United States of America.

19. Insurance. A company licensed by the West Virginia Insurance Commission to do business in the state of West Virginia shall underwrite all policies required by this Lease. Lessee, and/or any person or entity acting on Lessee's behalf under this Lease, shall maintain with one or more such licensed insurance carriers at all times during which this Lease remains in force and effect sufficient workers compensation and employer's liability insurance, commercial general liability and umbrella liability insurance, business auto and umbrella liability insurance, and environmental liability insurance in the amount of at least Twenty-Five Million Dollars (\$25,000,000.00), combined single limit, identifying Lessor as an additional insured (except for workers compensation and employer's liability), and shall be primary coverage for Lessor. Said policy or policies, declaration pages and certificates of insurance thereof shall be delivered to Lessor upon commencement of the Lease, and upon each renewal of said insurance policy. The insurance policies required under this paragraph 19 shall name Lessor as an additional insured, except for workers compensation and employer's liability with regard to the Leased Premises, and shall reflect that the insurer has waived any right of subrogation against the Lessor.

20. Bonding. Within Thirty (30) days from the Effective Date of this Lease, Lessee shall post a surety bond in favor of the Lessor in an amount of Two Hundred Thousand Dollars (\$200,000.00) to secure payment of all sums due and performance of all obligations arising under this Lease.

21. Assignment. The rights and estate of Lessee (or any permitted assignee or transferee of Lessee) hereunder may not be assigned or otherwise transferred, in whole or in part, without the prior written consent of Lessor, which consent shall not be unreasonably withheld. In the event Lessee proposes to assign or transfer this Lease, the Lessee shall give Lessor written notice of its intent to assign or transfer its interest in the Lease, which notice shall specify the type of assignment or transfer contemplated, the identity and contact information of the proposed assignee or transferee, and the timeframe of the proposed assignment or transfer ("Transfer Notice"). Upon delivery of a Transfer Notice to the Lessor, Lessor shall have Fifteen (15) days to either: (a) consent to the proposed assignment or transfer by delivering written its consent to Lessee; or (b) in its reasonable discretion, withhold its consent to the proposed assignment or transfer by delivering written notice to Lessee that it is withholding its consent and specifying the reasons therefor. In the event that Lessor fails to respond to a Transfer Notice within the fifteen-day period specified in the immediately preceding sentence, Lessor shall be deemed for all purposes under the law to have approved the assignment or transfer outlined in the Transfer Notice, and to have consented to such assignment or transfer in the same manner as if it would have delivered its written consent to Lessee.

22. Default. The occurrence of any of the following shall be deemed a default of this Lease:

a. Failure of Lessee to timely pay Lessor any amounts required under this Lease in accordance with paragraph 7.

b. If any creditor of Lessee, its agents, and/or assigns, takes any action to execute on, garnish, or attach the Lessee's assets located on or accessing the Leased Premises. This provision shall not impair Lessee's ability to mortgage its interests in the Granted Minerals or the Leased Premises.

c. Failure of Lessee to obtain any requisite "prior written consent" as set forth within this Lease.

d. Failure of Lessee to maintain insurance in the type and amount as set forth within this Lease.

- e. Shut-in of Lease exceeding the periods set forth in paragraph 11 of this Lease.

23. Notice of Default or Breach. If Lessor considers that Lessee has failed to comply with its obligations under this Lease, whether express and implied, Lessor shall notify Lessee in writing, setting out in what respects Lessee has breached this Lease. Lessee shall then have Thirty (30) days after receipt of said notice to cure all alleged breaches asserted by Lessor or, if it is not practical to cure such alleged breaches within thirty (30) days, then Lessee shall have Thirty (30) days to commence curing the alleged breach and diligently and continuously pursue to completion such cure. If Lessee, having received such written notice of breach of Lease, shall thereafter fail or refuse to satisfy in the timeframes set forth in the immediately preceding sentence, or respond in a meaningful fashion to Lessor's notice within such Thirty (30) day period, or such longer period of time if Lessee is in good faith continuously effectuating a cure of such alleged breach(es), this Lease shall automatically cease and terminate. Upon such termination, Lessee agrees to (a) immediately and unconditionally surrender possession of the Leased Premises, or of the portion of the Leased Premises included in such notice of breach, and (b) plug and abandon any producing or non-producing well(s).

24. Remedies for Default or Breach. The Lessor shall be entitled to recover from the Lessee any and all royalties, charges, or claims of every kind and nature due and owing and/or arising out of this Lease, upon Lessee's failure to remedy any alleged breach within the applicable cure period and to take immediate possession of the Leased Premises. If Lessor institutes proceedings to clear title or take possession of the Leased Premises, Lessor shall be entitled to recover from Lessee its reasonable attorney fees and costs, investigation costs, any expert fees, and any other reasonable costs or expenses related to such proceedings.

25. Surrender of Lease. The Lessee may surrender this Lease or any part of this Lease if, and only if, Lessee is not then in default of any obligations under this Lease and upon payment of all liabilities then accrued and due. Such surrender must be evidenced by written notice delivered to Lessor Thirty (30) days prior to the effective date of surrender. Lessee shall deliver to Lessor a release or releases in recordable form approved by Lessor, and Lessee shall release the applicable portion of this Lease upon expiration. Lessee may not release any portion of this Lease included in a pool or unit as long as Operations are being conducted on such pool or unit. Any partial release must describe all depths and horizons in and under the Leased Premises so released.

26. No Warranty of Title.

a. Lessor makes no representation of title or ownership, either express or implied, and further makes no warranty as to the actual or potential presence of Granted Minerals. Lessee represents it has performed all necessary due diligence regarding the title or ownership of the Granted Minerals, and agrees to be bound by the quantum of acreage as set forth in the Legal Description above.

b. Lessee shall notify Lessor of any adverse claim to the Leased Premises affecting title to all or a portion of the rights to develop the Granted Minerals, and Lessor may, with the approval of the Attorney General, enter into an escrow arrangement for future rents and royalties accruing to such disputed portion of the Leased Premises under terms and conditions that the Attorney General feels proper to safeguard the rights and interest of the State of West Virginia.

c. If an adverse claimant files suit against the State of West Virginia or against Lessee claiming title to all or a portion of the Granted Minerals, or if the Lessee, after receiving notice of an adverse claim, institutes litigation in a court of competent jurisdiction to adjudicate the validity of the claim, the rents and royalties accruing to the litigated portion shall be placed in an escrow account until such time as the ownership

of the disputed interest is determined by a court of competent jurisdiction.

d. If a court of competent jurisdiction determines that Lessor does not have title to all or part of the Granted Minerals in the Leased Premises, the rentals, royalties, and bonus thereafter accruing from any part as to which this Lease covers less than the full interest in such Granted Minerals, shall thereafter be paid only in the proportion which the interest therein, if any, covered by this Lease bears to the whole and undivided fee simple estate therein. Any sums of money paid pursuant to this Lease are not reimbursable to Lessee.

27. Indemnity. Unless caused by the negligence of Lessor, or any agent, servant, or employee of Lessor, Lessee shall defend, indemnify, protect and hold harmless Lessor and Lessor's heirs, successors, representatives, agents and/or assigns from and against any and all claims, demands, causes of action, liability, loss, damage or expense of any and every kind and nature, including without limitation costs, expenses, and attorneys' fees, for injury (including death), or damage to persons or property (including environmental damage to the surface, waterways, or subsurface estates of any person, firm, corporation, or other entity) arising out of, incidental to, or resulting from (i) the operations or activities of Lessee or Lessee's servants, agents, employees, guests, licensees, invitees or independent contractors on or in the Leased Premises; (ii) the exercise of any right granted under this Lease, and/or; (iii) any obligation imposed under this Lease. Any successor in interest of any rights of Lessee in this Lease shall likewise be obligated to defend and indemnify Lessor and Lessor's heirs, successors, representatives, agents and assigns in the same manner as the original Lessee.

28. Limitations on Drilling. From and after the Effective Date of this Lease, Lessee shall not commence construction of any new wellpad that is intended to produce the Granted Minerals from the Leased Premises if such wellpad would be located within Five Hundred Fifty feet (550') of any outside boundary of the tracts comprising the Leased Premises measured linearly from any point along said tract boundary to the midpoint of the secondary containment berm of a particular wellpad. Lessor and Lessee agree that the limitation on pad construction and/or location set forth in this paragraph 28 is intended to reduce any long-term, substantial interference with the public's use of the surface of the Leased Premises as it exists on the date of the Lease. Further, if Lessor determines in its reasonable discretion after conducting a proper investigation that the drilling activities of Lessee related to the production of Granted Minerals from the Leased Premises have created a long-term, substantial interference with the public's use of the surface of Leased Premises as aforesaid, then Lessor shall have the right to seek from Lessee additional measures or controls to mitigate such long-term, substantial impairment caused by Lessee's said drilling activities.

29. Force Majeure. If Lessee is prevented from complying with its obligations under this Lease, express or implied (except payment of money), due to scarcity of or inability to obtain or use equipment or material or by operations of Force Majeure, or any federal or state law, or any order, rule or regulation, then, while so prevented, Lessee's obligation to comply with such this Lease shall be temporarily suspended, and Lessee shall not be liable in damages; and this Lease shall be extended only so long as Lessee is prevented by any such cause from conducting Operations on or in the Leased Premises; *provided*, in no event shall Lessee's performance be suspended as a result of Force Majeure, federal or state law, or any rule or regulation for a period in excess of two (2) consecutive years. As used herein, the term "Force Majeure" shall mean acts of god such as flood, fire, adverse weather conditions, war, sabotage, rebellion, insurrection, riot, strike or labor disputes, or by other cause(s) not within Lessee's control, but shall specifically exclude scarcity, cost, or inability to obtain or use equipment, contracts, personnel, water, or other material(s).

30. Further Assurances. Each of the parties hereto shall, and shall cause its respective affiliates to, from time to time at the request of the other party, without any additional consideration, furnish the other

party such further information or assurances, execute and deliver such additional documents, instruments and conveyances, and take such other actions and do such other things, as may be reasonably necessary in the opinion of counsel to the requesting party to carry out the provisions of this Lease. In the event that Lessor is not the proper agency or instrumentality of the State of West Virginia to enter into this Lease, as stated in paragraph 1 herein, Lessor shall cause all of the proper agencies or instrumentalities of the State of West Virginia, without any additional consideration, to join in this Lease, as Lessor, upon the same terms provided herein.

31. Governing Law. This Lease shall be governed by the laws of the State of West Virginia and any dispute arising out of this Lease shall be resolved in a West Virginia court of law having jurisdiction thereof.

32. Notices and Payments. All notices and payments which are permitted or required under this Lease shall be in writing and shall be deemed valid and received if delivered personally; by registered or certified mail, return receipt requested; or by special carrier (such as Federal Express or UPS), with signature required, to the Lessor and/or the Lessee to the following addresses, unless otherwise agreed by the parties in a signed writing:

a. To Lessor:

West Virginia Division of Natural Resources
Attn: Office of Land and Streams
324 Fourth Ave
South Charleston, WV 25303

b. To Lessee:

SWN Production Company, LLC
Attn: Steve Guidry, Vice President-Land
10000 Energy Drive
Spring, Texas 77389

33. Successors in Interest. The terms, conditions, covenants, obligations, considerations or requirements of this Lease shall extend to and be binding upon the parties hereto, their heirs, successors, executors, administrators, and assigns, all of whom shall be jointly and severally liable.

34. Severability. Should any one or more of the provisions in this Lease become or be determined to be void or invalid, in whole or in part, the remainder of this Lease shall remain in full force and effect.

35. Counterparts. This Lease may be executed in any number of counterparts, and by different parties in separate counterparts, all of which shall be identical. Each such counterpart shall be deemed to be an original instrument, but all such counterparts together shall constitute but one instrument.

IN WITNESS WHEREOF, the parties hereunto subscribed their signatures on the day and year first above written.

WEST VIRGINIA DIVISION OF NATURAL RESOURCES,
ON BEHALF OF ITSELF AND OF THE STATE OF WEST VIRGINIA

Robert A. Fala

ATTEST:

By: Robert A. Fala, Director
West Virginia Division of Natural Resources

SWN Production Company, LLC

Stephen M. Guidry

ATTEST:

By: Stephen M. Guidry
Title: Vice President-Land

MP
pm.B.

ACKNOWLEDGEMENT FOR WEST VIRGINIA DIVISION OF NATURAL RESOURCES

State of West Virginia,

County of Kanawha,

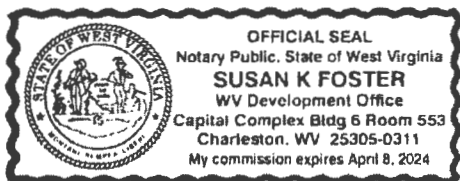
Personally appeared before me, the undersigned Notary Public, within and for said County and State, ROBERT A. FALA, to me known to be the person who subscribed the name of the **West Virginia Division of Natural Resources, a division of the West Virginia Department of Commerce**, to the foregoing instrument, as its Director, and acknowledged to me that he executed the same as his free and voluntary act and deed and as the free and voluntary act and deed of such West Virginia Division of Natural Resources, a division of the West Virginia Department of Commerce, for the uses and purposes herein set forth.

IN WITNESS WHEREOF, I have hereunto set my hand and Notary Seal on this 8th day of October 2015.

My Commission Expires: 4/8/2014

Susan K. Foster
Notary Public

(SEAL)



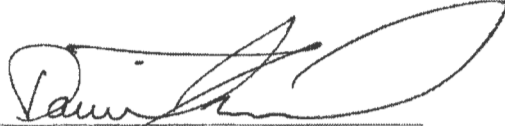
ACKNOWLEDGEMENT FOR SWN Production Company, LLC

State of Texas

County of Harris

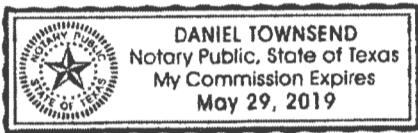
This instrument was acknowledged before me on October 10, 2015 by Stephen M. Guidry the authorized representative of SWN Production Company, LLC a Texas Corporation, on behalf of the corporation.

My Commission Expires:

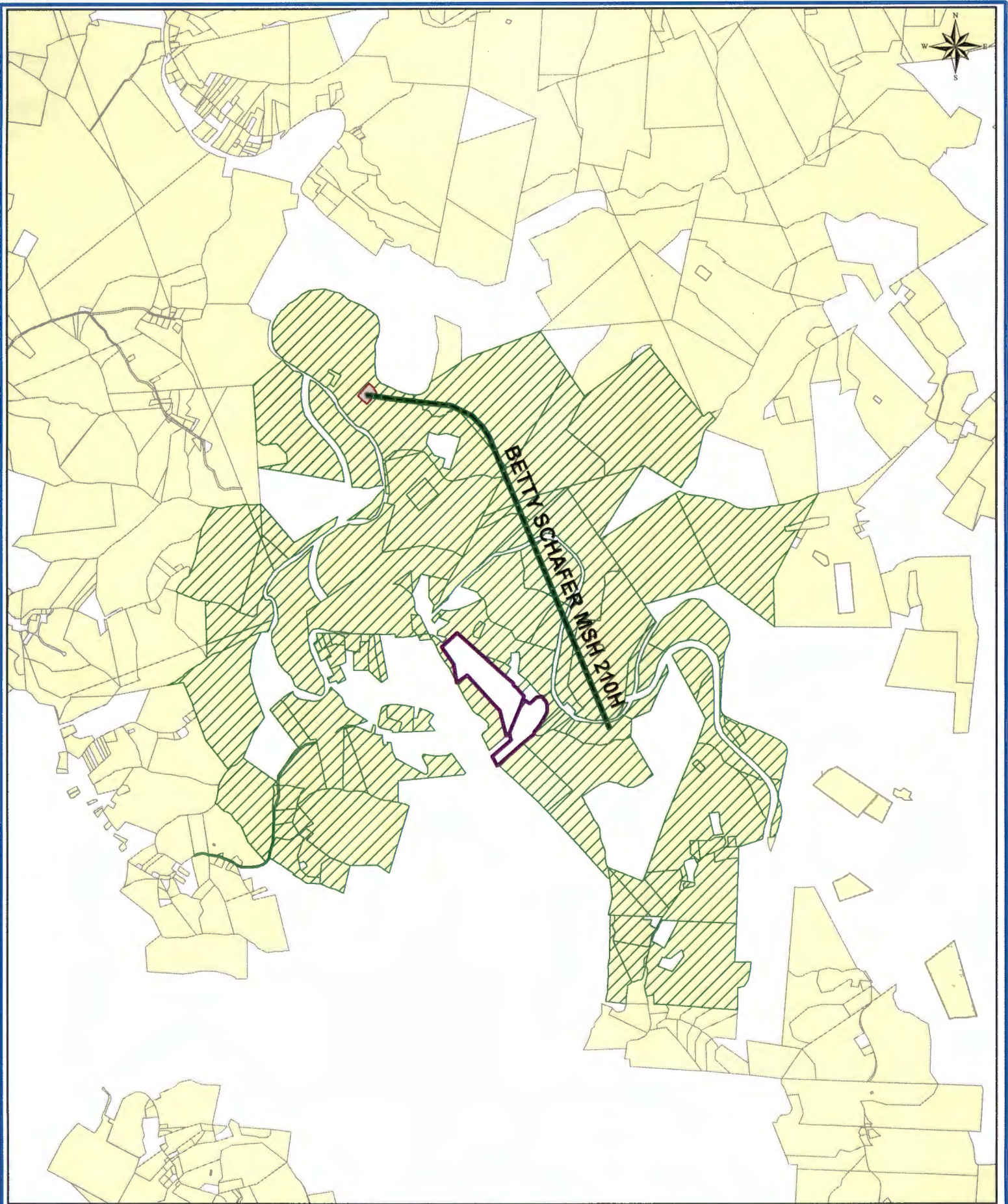


Notary Public

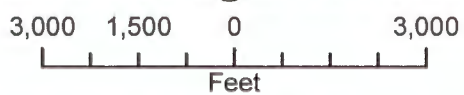
(SEAL)



This Instrument prepared by:
Larry W. George, Esq.
Special Assistant Attorney General
West Virginia Department of Commerce
One Bridge Place, Suite 205
10 Hale Street
Charleston, West Virginia



Burches Run Wildlife Management Tracts



Legend

- Drilled Well
- Well Pad
- Leases Within 1Mile
- Leasehold
- State of WV Conservation Commission

Area of Map

