

west virginia department of environmental protection

Office of Oil and Gas 601 57th Street, S.E. Charleston, WV 25304 (304) 926-0450 fax: (304) 926-0452

Austin Caperton, Cabinet Secretary www.dep.wv.gov

Thursday, August 30, 2018 WELL WORK PERMIT Horizontal 6A / New Drill

TUG HILL OPERATING, LLC 380 SOUTHPOINTE BOULEVARD, PLAZA II SUITE 200 CANNONSBURG, PA 15317

Re: Permit approval for EVAD 6HM 47-051-02060-00-00

This well work permit is evidence of permission granted to perform the specified well work at the location described on the attached pages and located on the attached plat, subject to the provisions of Chapter 22 of the West Virginia Code of 1931, as amended, and all rules and regulations promulgated thereunder, and to any additional specific conditions and provisions outlined in the pages attached hereto. Notification shall be given by the operator to the Oil and Gas Inspector at least 24 hours prior to the construction of roads, locations, and/or pits for any permitted work. In addition, the well operator shall notify the same inspector 24 hours before any actual well work is commenced and prior to running and cementing casing. Spills or emergency discharges must be promptly reported by the operator to 1-800-642-3074 and to the Oil and Gas Inspector.

Please be advised that form WR-35, Well Operators Report of Well Work is to be submitted to this office within 90 days of completion of permitted well work, as should form WR-34 Discharge Monitoring Report within 30 days of discharge of pits, if applicable. Failure to abide by all statutory and regulatory provisions governing all duties and operations hereunder may result in suspension or revocation of this permit and, in addition, may result in civil and/or criminal penalties being imposed upon the operators.

Per 35 CSR 4-5.2.g this permit will expire in two (2) years from the issue date unless permitted well work is commenced. If there are any questions, please feel free to contact me at (304) 926-0450.

James A. Martin

Chief

Operator's Well Number: EVAD 6HM

Farm Name: LOUIS J. & PATRICIA ACCET

U.S. WELL NUMBER: 47-051-02060-00-00

Horizontal 6A New Drill Date Issued: 8/30/2018

API Number: 47-051-02060

PERMIT CONDITIONS

West Virginia Code § 22-6A-8(d) allows the Office of Oil and Gas to place specific conditions upon this permit. Permit conditions have the same effect as law. Failure to adhere to the specified permit conditions may result in enforcement action.

CONDITIONS

- This proposed activity may require permit coverage from the United States Army Corps of Engineers (USACE). Through this permit, you are hereby being advised to consult with USACE regarding this proposed activity.
- 2. If the operator encounters an unanticipated void, or an anticipated void at an unanticipated depth, the operator shall notify the inspector within 24 hours. Modifications to the casing program may be necessary to comply with W. Va. Code § 22-6A-5a (12), which requires drilling to a minimum depth of thirty feet below the bottom of the void, and installing a minimum of twenty (20) feet of casing. Under no circumstance should the operator drill more than one hundred (100) feet below the bottom of the void or install less than twenty (20) feet of casing below the bottom of the void.
- 3. When compacting fills, each lift before compaction shall not be more than 12 inches in height, and the moisture content of the fill material shall be within limits as determined by the Standard Proctor Density test of the actual soils used in specific engineered fill, ASTM D698, Standard Test Method for Laboratory Compaction Characteristics of Soil Using Standard Effort, to achieve 95 % compaction of the optimum density. Each lift shall be tested for compaction, with a minimum of two tests per lift per acre of fill. All test results shall be maintained on site and available for review.
- 4. Operator shall install signage per § 22-6A-8g (6) (B) at all source water locations included in their approved water management plan within 24 hours of water management plan activation.
- 5. Oil and gas water supply wells will be registered with the Office of Oil and Gas and all such wells will be constructed and plugged in accordance with the standards of the Bureau for Public Health set forth in its Legislative rule entitled Water Well Regulations, 64 C.S.R. 19. Operator is to contact the Bureau of Public Health regarding permit requirements. In lieu of plugging, the operator may transfer the well to the surface owner upon agreement of the parties. All drinking water wells within fifteen hundred feet of the water supply well shall be flow tested by the operator upon request of the drinking well owner prior to operating the water supply well.
- 6. Pursuant to the requirements pertaining to the sampling of domestic water supply wells/springs the operator shall, no later than thirty (30) days after receipt of analytical data provide a written copy to the Chief and any of the users who may have requested such analyses.
- 7. 24 hours prior to the initiation of the completion process the operator shall notify the Chief or his designee.
- 8. During the completion process the operator shall monitor annular pressures and report any anomaly noticed to the chief or his designee immediately.
- 9. If any explosion or other accident causing loss of life or serious personal injury occurs in or about a well or well work on a well, the well operator or its contractor shall give notice, stating the particulars of the explosion or accident, to the oil and gas inspector and the Chief, within 24 hours of said accident.
- 10. During the casing and cementing process, in the event cement does not return to the surface, the oil and gas inspector shall be notified within 24 hours.

| API Number: | 47-051-02060 |
|-------------|--------------|
| | |

PERMIT CONDITIONS

11. The operator shall provide to the Office of Oil and Gas the dates of each of the following within 30 days of their occurrence: completion of construction of the well pad, commencement of drilling, cessation of drilling, cessation of drilling, sending an email to DEPOOGNotify@wv.gov.



west virginia department of environmental protection

Office of Oil and Gas 601 57th Street, S.E. Charleston, WV 25304 (304) 926-0450 Fax: (304) 926-0452

Austin Caperton, Cabinet Secretary dep.wv.gov

ORDER ISSUED UNDER WEST VIRGINIA CODE, CHAPTER 22, ARTICLE 6A

TO: Tug Hill Operating 380 Southpointe Boulevard, Plaza II, Suite 200 Cannonsburg, Pa 15317

DATE: August 21, 2018 ORDER NO.: 2018-W-6

INTRODUCTION

This Order (hereinafter "Order") is issued by the Office of Oil and Gas (hereinafter "OOG"), by and through its Chief, pursuant to the authority of W. Va. Code §§ 22-1-1, 22-6-1 and 22-6A-1 et seq. to Tug Hill Operating (hereinafter "Tug Hill" or "Operator"), collectively the "Parties."

FINDINGS OF THE CHIEF

In support of this Order, the Chief hereby finds the following:

- OOG, an office within the West Virginia Department of Environmental Protection, is the agency
 with the duty and authority to execute and enforce W. Va. Code §22-6-1 and §22-6A-1 et seq., and
 the rules and regulations promulgated thereunder.
- Tug Hill is a "person" as defined by W. Va. Code §22-6-1(n), with a corporate address as 380 Southpointe Boulevard, Plaza II, Suite 200, Cannonsburg, Pa 15317
- 3. On June 5, 2018 Tug Hill submitted a well work permit application identified as API# 47-051-02051. Then on June 18, 2018 Tug Hill also submitted well work permits identified as API#s 47-051-02056, 47-051-02057, 47-051-02058, 47-051-02059 and 47-051-02060. The proposed wells are to be located on the Accettolo Pad in the Franklin District of Marshall County, West Virginia.
- On August 16, 2018 Tug Hill requested a waiver for Wetland W1 and Wetland W3 outlined in Attachment 1, from well location restriction requirements in W. Va. Code §22-6A-12(b) for the well work permit applications identified as API# 47-051-02051, 47-051-02056, 47-051-02057, 47-051-02058, 47-051-02059 and 47-051-02060.

CONCLUSIONS OF LAW

- 1. West Virginia Code §22-1-6(d) requires, in part, that "in addition to other powers, duties and responsibilities granted and assigned to the secretary by this chapter, the secretary is authorized and empowered to...(3) Enter private lands to make surveys and inspections for environmental protection purposes; to investigate for violations of statutes or rules which the Office of Oil and Gas is charged with enforcing; to serve and execute warrants and processes; to make arrests; issue orders, which for the purposes of this chapter include consent agreements; and to otherwise enforce the statutes or rules which the Office of Oil and Gas is charged with enforcing."
- 2. West Virginia Code §22-6A-2(a)(6) requires, in part, that "Concomitant with the broad powers to condition the issuance of well work permits, the secretary should also have broad authority to waive certain minimum requirements of this article when, in his or her discretion, such waiver is appropriate: *Provided*, That the secretary shall submit a written report of the number of waivers granted to the Legislature commencing January 1, 2013, and each year thereafter."
- 3. West Virginia Code §22-6A-12(b) requires, in part, that "no well pad may be prepared or well drilled within one hundred feet measured horizontally from any perennial stream, natural or artificial lake, pond or reservoir, or a wetland, or within three hundred feet of a naturally reproducing trout stream. No well pad may be located within one thousand feet of a surface or ground water intake of a public water supply. The distance from the public water supply as identified by the Office of Oil and Gas shall be measured as follows: (1) For a surface water intake on a lake or reservoir, the distance shall be measured from the boundary of the lake or reservoir. (2) For a surface water intake on a flowing stream, the distance shall be measured from a semicircular radius extending upstream of the surface water intake. (3) For a groundwater source, the distance shall be measured from the wellhead or spring. The Office of Oil and Gas may, in its discretion, waive these distance restrictions upon submission of a plan identifying sufficient measures, facilities or practices to be employed during well site construction, drilling and operations to protect the waters of the state. A waiver, if granted, shall impose any permit conditions as the secretary considers necessary."

ORDER

West Virginia Code §22-6A-12(b) requires, in part, that "no well pad may be prepared or well drilled within one hundred feet measured horizontally from any perennial stream, natural or artificial lake, pond or reservoir, or a wetland. The Office of Oil and Gas grants the request for a waiver for Wetland W1 and Wetland W3 from well location restriction requirements in W. Va. Code §22-6A-12(b) for the well work permit application identified as API# 47-051-02051, 47-051-02056, 47-051-02057, 47-051-02058, 47-051-02059 and 47-051-02060. The Office of Oil and Gas hereby **ORDERS** that Tug Hill shall meet the following site construction and operational requirements for the Accettolo Well Pad:

- a. A berm shall be constructed around the perimeter of the pad to contain any potential spills and storm water runoff. Berm is to be at least twenty-four inches (24") in height;
- b. Erosion control blankets shall be installed on all slopes and down gradient locations of the pad as erosion and sediment controlling BMPs;
- c. Wetlands W1 and W3 shall be protected by twenty-four-inch (24") compost filter sock and super silt fence. This along with temporary and permanent vegetative cover will prevent sediment from reaching the wetlands
- d. Disturbed areas not used for operations shall be seeded and mulched per the seeding tables in the WVDEP-OOG Erosion and Sediment Control Manual;
- e. Drill cuttings and associated drilling mud shall be disposed of in a permitted landfill;
- f. Waste generated by the flowback treatment systems shall be sent to offsite disposal at a permitted landfill;
- g. Weekly site inspections shall be conducted to monitor and maintain the integrity of the BMP storm water controls;
- h. Weekly storm water and spill prevention inspections shall be conducted focusing on storm water and spill prevention BMPs and maintenance of these BMPs;
- i. Inspections of the storm water and spill prevention measures shall be conducted after any major storm event defined as a half inch (½") rain within any twenty-four (24) hour period;
- j. Pad inspections shall be conducted no less than once a week to identify and mitigate potential deficiencies;
- k. All records from inspections shall be maintained on site for the life of the project and be available upon request.

IN THE NAME OF THE STATE OF WEST VIRGINIA:

OFFICE OF OIL AND GAS DEPARTMENT OF ENVIRONMENTAL PROTECTION STATE OF WEST VIRGINIA

By:

AMES A, MARTIN, CHIEF

| API Number: | |
|-------------------------|-----|
| Operator's Well Number: | 1HM |

Wetland and Perennial Stream Waiver Request

Well Operator: Tug Hill Operating, LLC

Well Number: 1HM Well Pad Name: Accettolo Well Pad

County, District, Quadrangle of Well Location: Marshall, Franklin, New Martinsville

1. Describe the proposed project location, including unique identifying names of all wetlands, and the names of perennial streams for which the waiver is sought.

The Accettolo Well Pad is an existing pad located along County Route 29 (Burch Ridge) in Franklin District, Marshall County, WV. The proposed project location is along a ridge top. The proposed project location will be within 100' of two delineated wetlands. Exhibit A, current site conditions, will be attached and made part of this waiver request. Exhibit A shows the locations of Wetland W1 and Wetland W3.

Wetland W1: Wetland W1 is located within the existing site LOD. Wetland W1 is situated downslope of the existing well pad on the north side of the well pad. The proposed sump locations on the well pad are positioned to direct collected water flow around Wetland W1. Super silt fence and 24" compost filter sock shall be installed upslope of Wetland W1 to control perimeter run-off and also provide a physical barrier between the work area and protected area. Minimal upslope earthwork will take place above Wetland W1, with the primary activity being berm construction and sump/outlet construction. There is a proposed repair area to the southwest and upslope of the protected area. The proposed reworked material will be graded so that water is directed towards the west side of the repair area, away from the protected area.

Wetland W3: Wetland W3 is located within the existing site LOD. Wetland W3 is situated downslope of the existing well pad on the south side of the well pad. Super silt fence and 24" compost filter sock shall be installed upslope of Wetland W3 to control perimeter run-off and also provide a physical barrier between the work area and protected area. Minimal upslope earthwork will take place above Wetland W3, with the primary activity being berm construction and sump/outlet construction.

- 2. Justify the proposed activity by describing alternatives to the project that were considered.
- a. Include a No-Action Alternative to show "the future without the project"
- b. Location Alternatives must be shown
- c. Must demonstrate why a one hundred buffer cannot be maintained
- d. Describe how the proposed project is the least environmentally damaging practicable alternative.

| API Number: | |
|-------------------------|------------|
| Operator's Well Number: | <u>1HM</u> |

2a. No-Action Alternative: In a no-action alternative to the proposed project, the existing location would not be modified to provide containment for additional drilling activity. Currently the proposed project location is an active well site. In a no-action alternative, Wetland W1 and W3 would still be within the existing LOD of the well pad.

2b.1. Location Alternative #1: Prior to the environmental assessment, it was proposed that an earthen berm be reconstructed on the well pad to provide pad containment and meet WVDEP requirements. With the close proximity of Wetland W1 and W3 to the well site, a second alternative was examined to help further protect Wetland W1 and W3 while providing an avenue for constructing a compliant well pad during late fall/winter.

2b.2 Location Alternative #2: After receiving the environmental assessment, the proposed earth berm was reevaluated to address the potential impacts to the delineated wetlands. The proximity of Wetland W1 and W3 to the proposed earthen berm along with the proposed construction may affect the proposed design of the well pad containment. Rather than importing soil to construct the earthen berm, an alternative containment structure may be constructed around the perimeter of the pad to provide containment while providing containment while minimizing soil disturbance during construction activities outside of optimal growing seasons. It is proposed that concrete traffic barriers ("Jersey Barriers") be used for the structure of the well pad berm and that 60 mil HDPE liner material be utilized for containment. The liner material will be anchored to the side/bottom of the barriers, ran over the top of the barriers and into the well pad area where it will be trenched into the pad approximately 20-30' inside the well pad at a minimum depth of 2 feet. In addition to the concrete barriers and liner material, pre-cast sumps will be installed to aid in pad dewatering (all pad dewatering releases will be compliant with current WVDEP OOG rules and regulations). The liner material will be overlapped at the sumps and adhered to the inside of the sumps with polyurea spray to prevent seepage around the sump. If construction of the sumps and sump outlet is to take place during the late fall/winter, a temporary PVC outlet pipe and level spreader system may be implemented to minimize soil disturbance during the non-growing season. The PVC outlet pipe and level spreader will be replaced with a rocklined outlet channel and scour hole at the time of pad reclamation.

2c. Must Demonstrate why a one hundred foot buffer cannot be maintained: See Exhibit A, Existing Site Conditions. A 100' buffer cannot be maintained due to the existing site conditions. Wetland W1 and W3 are within the existing site LOD.

2d. Describe how the proposed project is the least environmentally damaging practicable alternative: The proposed alternative, as shown on Exhibit C, Option 1: Existing Well Pad Berm, is the least environmentally damaging practicable alternative because it allows for the utilization of the exiting well pad while protecting the existing delineated wetlands. Constructing an additional well pad in close proximity to the existing well pad for the purpose of drilling the proposed wells would require additional clearing of existing vegetation and potentially impacting other aquatic features. By utilizing the existing modified pad and providing protective structures around the existing wetlands, the proposed wells can be installed without the large amount of additional clearing and earthwork that a separate pad would require. By modifying the existing well pad and upgrading it to current industry standards, the water that may be discharged from the site under regulatory conditions can be better controlled with BMPs to prevent slope erosion that may occur on the well pad in its current condition.

| API Number: | |
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| Operator's Well Number: | 1HM |

3. Identify sufficient measures, facilities or practices to be employed during well site construction, drilling and operations to protect the waters of the state. This description should include all additional erosion and sediment control measures and devices that will be used.

Wetland W1 and W3 will be protected with super silt fence and 24" compost filter sock. The controls shall be installed upslope of the wetlands. In addition to the E&S controls, an orange construction fence shall be installed to provide a minimum 10' buffer around the existing wetlands. As an additional measure to the reduced amount of exposed soil upslope of the wetlands, a revised berm may be used instead of a traditional earthen berm if construction is to take place outside of optimal growing season. The revised berm will consist of 32" high concrete barriers ("Jersey Barriers") wrapped with 60 mil HDPE liner material to provide well pad containment without the need to disturb additional soil for berm installation. The existing slope vegetation will be maintained and any areas disturbed due to the installation of the upslope erosion and sedimentation controls shall be repaired and seeded. During drilling and completion operations, the well pad berm shall provide containment of the well pad which will further protect Wetland W1 and W3.

- 4. Provide mapping, plans, specifications and design analysis for the preferred alternative to the project.
- 4.a Specify in writing what additional controls, measures, devices, monitoring, etc. will be used to protect these wetlands and/or perennial streams for which the waiver is sought.

 See Exhibit B, Proposed Design for the proposed site layout and protective control installation locations.

Vegetative Buffer: A minimum 10' vegetative buffer shall be maintained around both wetlands at all times during construction and operation. The minimum 10' buffer shall be designated with an orange construction fence.

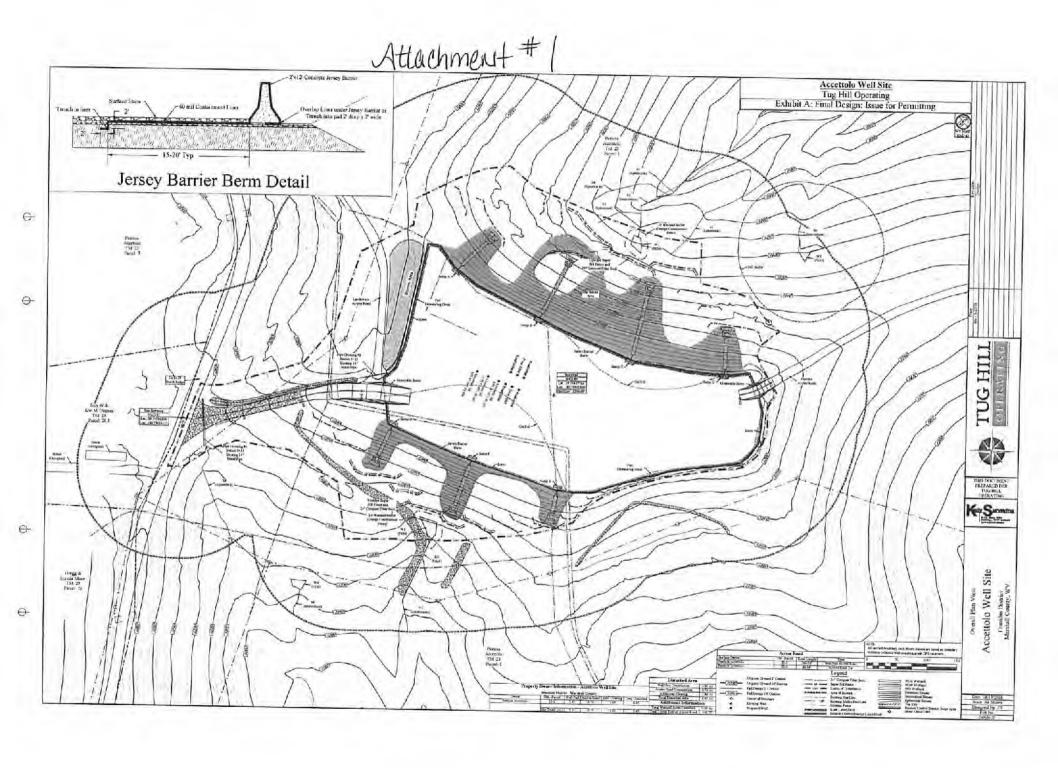
Super Silt Fence: Super silt fence shall be installed at the upslope edge of the vegetative buffer for both wetlands. The super silt fence shall provide sedimentation control above the wetland to prevent sediments and other materials from being carried downslope into the wetlands. Should any large material, typically rock or stone, manage to roll down a slope, the chainlink fence of the super silt fence structure shall act as a net to capture the material before it can proceed further downslope towards the wetlands.

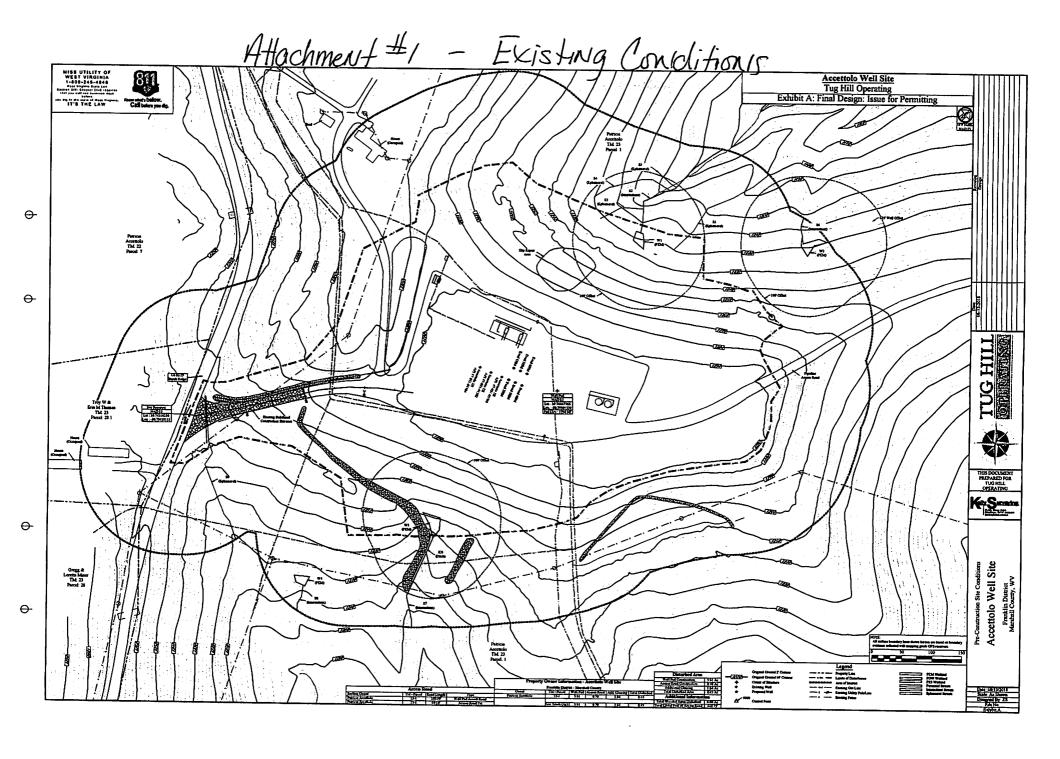
24" Compost Filter Sock: A 24" compost filter sock shall be installed 2' upslope of the super silt fence to provide additional sedimentation protection for the wetlands. The 24" compost filter sock will be the primary sediment filter protection for the wetland with the super silt fence being the secondary filter.

Permanent Seeding / Rolled Erosion Control Blankets: Permanent seeding of all disturbed areas upslope of the wetlands shall be performed as soon as practical. Earthwork above the wetlands shall be kept to a minimum to reduce the amount of disturbed area upslope of the wetlands and shall be vegetated as soon as construction permits. If construction activities upslope of the wetlands are completed at the end of the growing season, rolled erosion control blankets shall be installed to provide additional erosion control until permanent vegetation can be established.

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| Operator's Well Number: | 1HM |

Well Pad Berm: Once installed, the well pad berm will provide well pad containment and prevent water from leaving the well pad except at the designated sump outlet locations (water from the sumps shall only be released in accordance with WVDEP requirements). The sump outlets shall have erosion controls to prevent erosion of the well pad slopes that may lead to sedimentation within the wetlands. The proposed well pad sump outlets shall be placed so that they do not discharge at or near the wetlands, providing additional protection to the wetlands.





| API NO. 47-051 | |
|-------------------|----------|
| OPERATOR WELL NO. | Evad 6HM |

STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS WELL WORK PERMIT APPLICATION

| 1) Well Opera | tor: Tug H | ill Operating | LLC | 4945 | 10851 | Marshall | Franklin | Glen Easton 7.5' |
|----------------------------------|---------------|----------------|------------|------------------|-----------------------|------------------------------------|------------------------------------|---|
| | | | | Ope | rator ID | County | District | Quadrangle |
| 2) Operator's | Well Numbe | er: Evad 6HM | 1 | | _ Well I | ad Name: Acc | ettolo | |
| 3) Farm Name | /Surface Ow | ner: Accettolo | , Patricia | & Louis | Public R | oad Access: Bu | urch Ridge Ro | oad - County Route 29 |
| 4) Elevation, c | current groun | nd: 1290' | 1 | Elevation | ı, propose | ed post-construc | ction: 1290' | |
| 5) Well Type | (a) Gas | X | _ Oil _ | | Ur | nderground Stor | rage | |
| | Other | | | | | | | |
| | (b)If Gas | Shallow | X | | _ Deep | | | |
| | | Horizontal | X | | _ | | gh 6/6, | 118 |
| 6) Existing Pa | d: Yes or No | Yes | | | | | 6/6/ | |
| | | | | | | s and Expected of 51' and anticip | | of approx. 3800 psi |
| 8) Proposed T | otal Vertical | Depth: 6,66 | 62' | | | | | |
| 9) Formation a | | | Ononda | aga , | | | | |
| 10) Proposed | Total Measu | red Depth: | 16,593' | \checkmark | | | | |
| 11) Proposed | Horizontal L | eg Length: | 8,949' | 1 | , | | | |
| 12) Approxim | ate Fresh W | ater Strata De | pths: | 70', 8 | 377'√ | | | |
| 13) Method to | Determine : | Fresh Water I | Depths: | Use shallow offs | et wells to determine | decpest freshwater. Or determine u | sing predrill tests, testing while | le drilling or petrophysical evaluation of resistivity. |
| 14) Approxim | ate Saltwate | r Depths: 2, | 167' √ | | | | | |
| | | | | Coal - | 771' and | Pittsburgh Co | al - 871' 🗸 | |
| | | | | | | None anticip | | |
| 17) Does Prop directly overly | | | | | Yes | 1 | No X | |
| (a) If Yes, pr | rovide Mine | Info: Name | : | | | | | |
| | - | Depth | 1: | | | | | |
| | | Seam | : <u></u> | | | | | |
| | | Owne | r: | | | | | |
| | | | | | | RECEIVED of Oil and Gas | | |
| | | | | | JUN | 1 8 2018 | | |

API NO. 47- 051

OPERATOR WELL NO. Evad 6HM

Well-Pad Name: Accettolo 5 0 2 0 6 0

18)

CASING AND TUBING PROGRAM

| TYPE | Size (in) | New or Used | Grade | Weight per ft. (lb/ft) | FOOTAGE: For Drilling (ft) | INTERVALS: Left in Well (ft) | CEMENT: Fill-up (Cu. Ft.)/CTS |
|--------------|--------------|-------------------|-------|------------------------|-------------------------------|------------------------------|-------------------------------------|
| Conductor | 30" | NEW | BW | BW | 120' | 120' | 259FT^3(CTS) |
| Fresh Water | 13 3/8" | NEW | H40 | 48# | 980' | 980' V | 1031ft^3(CTS) |
| Coal | 13 3/8" | NEW | H40 | 48# | 980' | 980' | 1031ft^3(CTS) |
| Intermediate | 9 5/8" | NEW | J55 | 36# | 2,800' | 2,800' | 961ft^3(CTS) |
| Production | 5 1/2" | NEW | P110 | 20# | 16,593' | 16,593' 🗸 | 4239ft^3(CTS) |
| Tubing | 2 3/8" | NEW | N80 | 4.7# | | 7,555' | |
| Liners | | | | | | | |

Ju/16/18

| TYPE | Size (in) | Wellbore Diameter (in) | Wall Thickness (in) | Burst Pressure (psi) | Anticipated Max. Internal Pressure (psi) | Cement Type | Cement Yield (cu. ft./k) |
|--------------|-----------|---------------------------|---------------------------|-------------------------|--|----------------|--------------------------|
| Conductor | 30" | 36" | 1.0 | 2,333 | 1,866 | CLASS A | 1.2 |
| Fresh Water | 13 3/8" | 17 1/2" | .33 | 1,730 | 1,384 | SEE #24 | 1.2 |
| Coal | 13 3/8" | 17 1/2" | .33 | 1,730 | 1,384 | SEE#24 | 1.2 |
| Intermediate | 9 5/8" | 12 1/4" | .352 | 3,520 | 2,816 | SEE#24 | 1.19 |
| Production | 5 1/2" | 8 7/8_8 3/4 | .361 | 12,640 🗸 | 9,000 | SEE#24 | 1.17/1.19 |
| Tubing | 2 3/8" | | .19 | 11,200 | 8,960 | | |
| Liners | | | | | | | |

PACKERS

| Kind: | N/A | |
|-------------|-----|--|
| Sizes: | N/A | |
| Depths Set: | N/A | |

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JUN 1 8 2018

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OPERATOR WELL NO. Evad 6HM

Well Pad Name: Accettolo

4705 102060

Jul 18

19) Describe proposed well work, including the drilling and plugging back of any pilot hole:

Drill through the Marcellus and TD Pilot Hole 100' into the Onondaga. Log vertical section and run a solid cement plug back to proposed KOP. Drill curve and lateral per proposed well plan, run and cement production casing. Perform CBL from 60 deg to surface, make cleanout run, and stimulate.

20) Describe fracturing/stimulating methods in detail, including anticipated max pressure and max rate:

Well to be completed with approximately 22,372,500 lb proppant and 345,895 bbl of water. Max rate = 80 bpm; max psi = 9,000#.

- 21) Total Area to be disturbed, including roads, stockpile area, pits, etc., (acres): 8.45 acres
- 22) Area to be disturbed for well pad only, less access road (acres): 5.91 acres
- 23) Describe centralizer placement for each casing string:

Will run 3 centralizers on surface casing at equal distance. Intermediate will have 1 centralizer every other joint. Production casing will have one centralizer every other joint in lateral, one centralizer every joint through curve, one centralizer every other joint to surface.

24) Describe all cement additives associated with each cement type:

*See Attachment

25) Proposed borehole conditioning procedures:

Will circulate a minimum of 3 hours at TD, short trip to curve, circulate bottoms up, check for flow, POOH

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Office of Oil and Gas

*Note: Attach additional sheets as needed.

JUN 1 8 2013

Area of Review

4705102060

Sources of information to Support 35CSR8 - 5.11: 9.3 et seq.

Description of process to identify potential pathways for well communication during hydraulic fracturing activities.

Data Sources Reviewed:

- 1. IHS Well Data service: Public nationwide data service that pulls directly from State agency Oil and Gas databases
- 2. Farm Maps
- 3. Topo Maps: Recent and older (contact WVGES)
- 4. Check with DPS

Contacted Devin Ducoeur 724-705-0444, <u>dducoeur@dpslandservices.com</u> DPS GIS (05/24/2018) to have him make maps of the wellbores with his information. DPS utilizes WVGES maps for their mapping seems it as the best publicly available. See attached map he provided.

Request maps for:

- 1. Wellbore with IHS All Wells Layer
- 2. Map with Farm lines overlain and any well spots identified on Farm Maps
- 3. More recent (1970s vintage) topos and older topos

Discussion with Phil Dinterman WVGES GIS Department (7/15/2016)

- WVGES has plotted every well spot they have access to and are aware of with that contains a
 coordinate. 30000, 70000, and 90000 series wells are available via the WVGES online map. Some
 locations aren't great due to vintage and manipulation of maps through time
- 30000 series any well drilled prior to 1929 APIs were not assigned to original wells
- 70000 series Well spots pulled from old Farm line maps that the WVGES has access to
- 90000 series Any sources that the WVGES has access that shows a well spot but has no additional supporting information. DEP does not have 90000 series on their maps.
- There can be duplication between wells in the 3 series
- Phil indicated that other Operators are providing a screenshot of the WVGES map with the planned well and using that for permits

ge 1 of 7

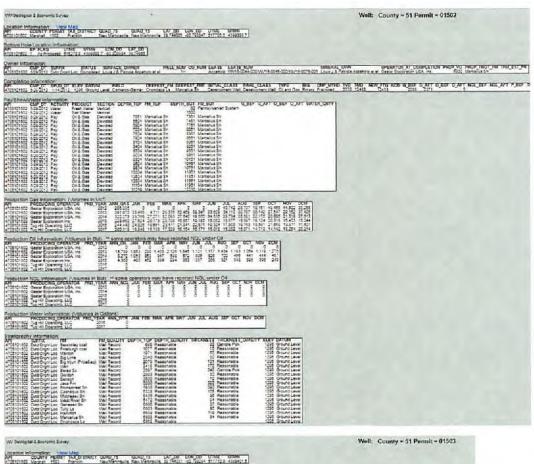
Permit well - Evad 6HM 47 0 5 1 0 2 0 6 0

Note: Well spots depicted on Area of Review map (page 3) are derived from State held coordinates. The spots may differ from those depicted on the Well Plat because the Plat locations represent actual field surveyed locations. Places offer to the Plat form the Plat form of the Plat form

| because the Plat locations re | epresent actual field surv | eyed locations. Please refe | er to the Plat for surveyed well spots |
|-------------------------------|----------------------------|-----------------------------|--|
|-------------------------------|----------------------------|-----------------------------|--|

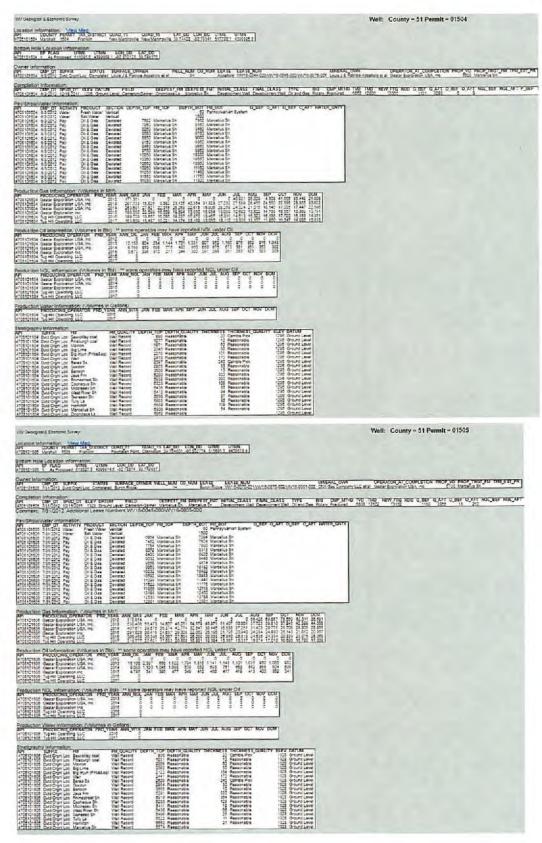
| 6570' TVD 12433' MD 6557' TVD 11319' MD 6553' TVD 12000' MD 6608' TVD 13102' MD | Marcellus Marcellus Marcellus | Unknown Unknown Unknown Unknown | producer. Proper casing and cement should prevent migration of fluids from new wellbore to existing wellbore Yes, existing Marcellus producer. Proper casing and cement should prevent migration of fluids from new wellbore to existing wellbore Yes, existing Marcellus producer. Proper casing and cement should prevent migration of fluids from new wellbore to existing wellbore Yes, existing Marcellus producer. Proper casing and cement should prevent migration of fluids from new wellbore to existing wellbore Yes, existing Marcellus producer. Proper casing and cement should prevent migration of fluids from new wellbore to existing wellbore Yes, existing Marcellus producer. Proper casing and | Producing Marcellus horizontal well. A field survey was conducted to locate this well and it was found producing at the location shown of the well plat. Producing Marcellus horizontal well. A field survey was conducted to locate this well and it was found producing at the location shown of the well plat. Producing Marcellus horizontal well. A field survey was conducted to locate this well and it was found producing at the location shown of the well plat. Producing Marcellus horizontal well. A field survey was conducted to locate this well and it was found producing at the location shown of the well plat. Producing Marcellus horizontal well. A field survey was conducted to locate this well and it was found producing at the location shown of the well plat. Producing Marcellus horizontal well. A field survey was conducted well. A field survey was conducted well. |
|--|---------------------------------|---------------------------------|--|--|
| 6553' TVD 12000' MD 6608' TVD 13102' MD | Marcellus Marcellus | Unknown | producer. Proper casing and cement should prevent migration of fluids from new wellbore to existing wellbore. Yes, existing Marcellus producer. Proper casing and cement should prevent migration of fluids from new wellbore to existing wellbore. Yes, existing Marcellus producer. Proper casing and cement should prevent migration of fluids from new wellbore to existing wellbore. Yes, existing Marcellus producer. Proper casing and producer. Proper casing and producer. Proper casing and producer. Proper casing and | well. A field survey was conducted to locate this well and it was found producing at the location shown of the well plat. Producing Marcellus horizontal well. A field survey was conducted to locate this well and it was found producing at the location shown of the well plat. Producing Marcellus horizontal well. A field survey was conducted to locate this well and it was found producing at the location shown of the well plat. Producing Marcellus horizontal well. A field survey was conducted the well plat. |
| 6553' TVD 12000' MD 6608' TVD 13102' MD | Marcellus Marcellus | Unknown | Yes, existing Marcellus producer. Proper casing and cement should prevent migration of fluids from new wellbore to existing wellbore. Yes, existing Marcellus producer. Proper casing and cement should prevent migration of fluids from new wellbore to existing wellbore. Yes, existing Marcellus producer. Proper casing and | Producing Marcellus horizontal well. A field survey was conducted to locate this well and it was foun producing at the location shown of the well plat. Producing Marcellus horizontal well. A field survey was conducted to locate this well and it was foun producing at the location shown of the well plat. Producing Marcellus horizontal well. A field survey was conducted well. |
| 6608' TVD 13102' MD | | Unknown | producer. Proper casing and cement should prevent migration of fluids from new wellbore to existing wellbore Yes, existing Marcellus producer. Proper casing and | well. A field survey was conducted to locate this well and it was foun producing at the location shown of the well plat. Producing Marcellus horizontal well. A field survey was conducted |
| - F - 1 | Marcallus | | producer. Proper casing and | well. A field survey was conducted |
| | ivial cellus | Unknown | cement should prevent migration of fluids from new wellbore to existing wellbore | to locate this well and it was foun producing at the location shown the well plat. |
| 6596' TVD ting 12543' MD | Marcellus | Unknown | Yes, existing Marcellus producer. Proper casing and cement should prevent migration of fluids from new wellbore to existing wellbore | Producing Marcellus horizontal well. A field survey was conducte to locate this well and it was foun producing at the location shown the well plat. |
| ow 1289' TVD | 1st Cow Run | ı/ Unknown | No, the well is not deep enough to be within the expected fracture propagation from a Marcellus stimulation. The well is plugged | Well was plugged 6/18/1952 |
| y 1165' TVD | 1st Cow Run | ı/ Unknown | No, the well is not deep enough to be within the expected fracture propagation from a Marcellus stimulation. The well is plugged | Well was plugged 8/6/1945 |
| | | | | enough to be within the expected fracture propagation from a Marcellus stimulation. The well is plugged No, the well is not deep enough to be within the expected fracture propagation from a Marcellus stimulation. |

Environment of Prolection

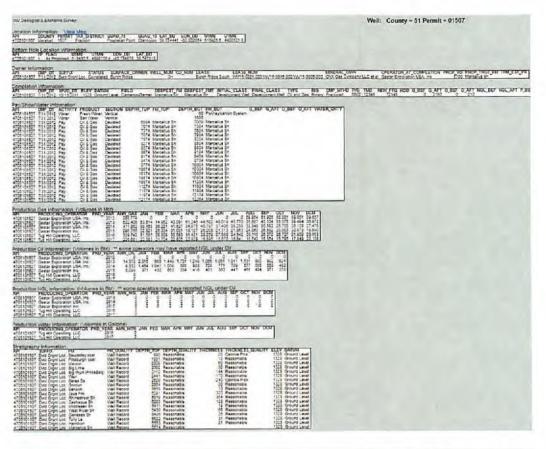


| yttr Deological E. Bisnomis Survey. | Well: County = 51 Permit = 01503 |
|--|--|
| Occasion information Librar Map DON'T PRESENT NAT DISNOCT CURD IS CURD IS CAT DO CONCOD UTBE UTBER DOS Mapper 1500 Provinc New Managements No. Managements 20 (2401) - 92 (2024 \$177) 22 (2024) 12 | |
| Bottom Hole Location Information API DE FLAS UTILE UTILE LOS DO LATOS API LOS PROCESSES ESPETIA 4450076 AS STITLE 10 TESTEL API LOS | |
| Denner Information: APP CASE OF EXPERT STATUS EXPERIENCE CHARGE WELL DESK COT DUCH CEASE EXAMINED TENER ADMINISTRATION DATE OF CONTROL CONTROL CASA J. SPRING ASSESSION OF THE ADMINISTRATION CASA J. LEGISLATION CONTROL CONTROL CASA J. S. SPRING ASSESSION OF THE CASA ASSESSION OF THE CASA J. LEGISLATION CONTROL CASA J. S. | AL COM DEPARTOR AT COMMERCE PROPERTY PROPERTY OF TRANSPORT OF TRANSPOR |
| Completion Internation. All CARP OF PAUL OF ERRY DATUM FIELD DELPHET FM LEEPERT FM DETRA_CLASS FARM_CLASS AND CARP OF PAUL OF ERRY DATUM FIELD DELPHET FM LEEPERT FM LEEPERT FM DETRACTOR (See CARS). AND CARP OF PAUL OF ERRY DATUM FIELD DELPHET FM LEEPERT FM LEEPERT FM DETRACTOR (See CARS). | THE RIG CHE STITE TWO THE NEW FIG ROD GIBE GAPT O HEF CAPT M O and Gas Roam Freduct COST 113-9 113-15 1440 1311 2 3 |
| Bey/Shoe/Water information | EST O AT WHILE OUT |
| Production Task information (children in Mart) The Control of C | 1 13 600 11 609 1 14 017 15 483 |
| Tennis Colombination Col | |
| Production NGL in formation: Columns as TRUIT — exten operators may have reported NGL under COL AND YEAR OF THE PRODUCT OF TH | |
| Production Water Information (Volumes in Centura) Production Water Information (Volumes in Centura) Production Water Information (Volumes in Centural Control Contro | |
| # Section 2015 - Control Contr | With Mind and Mind Mind Mind Mind Mind Mind Mind Mi |

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S 2018
Page 3 of 7







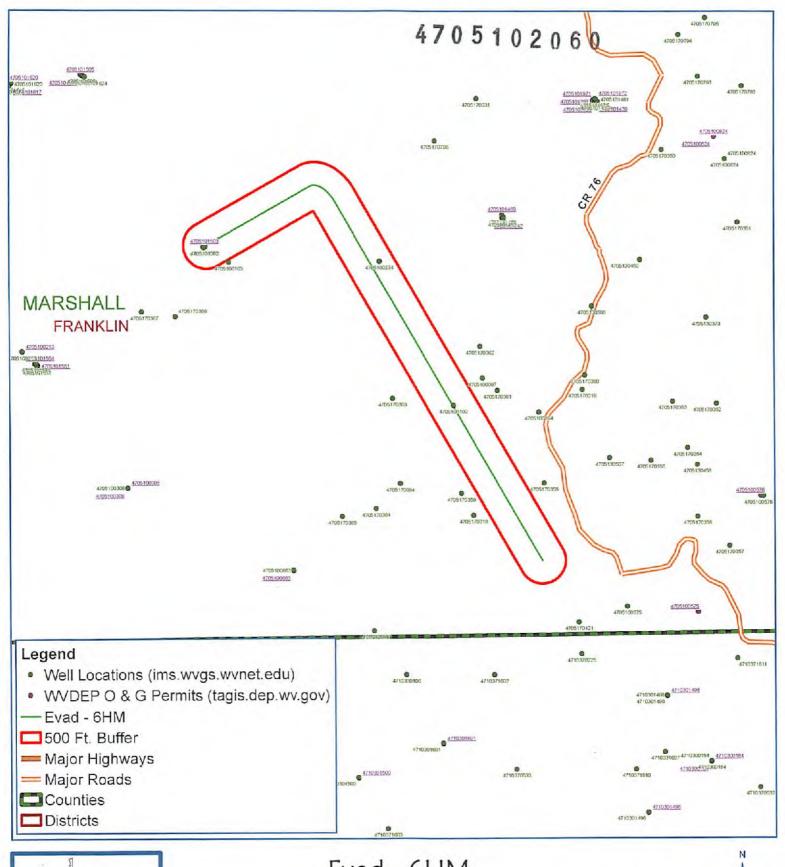
| W/Osciopus & Barrania Survey | Well: County = 51 Permit = 01508 |
|--|---|
| Cocation information (Any Map Map Cocation information) is country profit to control units to cocation and co | |
| Sottom Mode Constant Information BY FLES TIME TO THE CONSTRUCT OF THE CO | |
| Owner information USF OF BOYER THATUS EMPLOY WELL HELD CO WAS EAST LEVE USE WAS TRANSPORTED TO COMMISSION OF SOME THAT THE STREET OF THE STRE | OPERATOR AT COMPLETION PROP NO PROP THEFT THE EST_PA |
| Companies intermeted. CAST DEFO. OF SERV DATES FILED DEPOST FAIL DESCRIPTION DE POST FAIL | 5 THE NEW PTG NOO O BEF G APT D.BEF G APT NOC BEF HALL ART P. SE 5 12543 1542 1754 1755 14 275 |
| Pay Show Water Internation Package Section LEPTH 3DF TM 3DF SECTION SECTION LEPTH 3DF TM 3DF SECTION SECTION LEPTH 3DF TM 3DF SECTION SECTIO | |
| Pendaction Data Innovation () Address & Mart Mar | |
| Production Cell Information Cell Long Production | |
| Pages than IVI. Internations columns in ICI. ** perma general ray is not a local to find the Call Columns of the Call Columns | |
| Production Wilder Information Collames in Castors: AND THE MAIN ART LINE AND THE COLL AND THE MAIN ART LINE AND ALL AND SEP OCT NOW DOME A TEXT TO SEE AND ADMINISTRATION OF THE COLL AND THE MAIN ART LINE AND ADMINISTRATION OF THE COLL AND THE COLL AN | |
| PRODUCTION OF THE PROPERTY OF | |

SIN TO CONTROL OF SUPER SECTION OF PAGE SECTION

| VW Geologica & Borneric Survey | Well: County = 51 Permit = 70363 |
|--|--|
| Cocation Information - Many Mac Contract Color 15 Color 15 Earl BC Color Data Union Union Color Telector - Service - | |
| There is no Bottom Hote Location data for this well | |
| Comes information: DEF OF SOFTE STATUS SURVEY OWNER WELL NOW CO, NOW TEXTS LEASE NOW MINERAL OWN OPERATOR AT COMPLEX MINISTRUCTURE OF THE PROPERTY OF THE PR | NON PROP_VO PROP_TRUST_PRE TRUEST_PRE |
| Corpoletion information THE CLASS FIRST DISTRICT PRIOR PRIOR PRIOR DEEPERS JAM DEEPERS JA | NA THE DIEW THE WORLD THE CONTROL OF CAST DESCRIPTIONS |
| There is no Pey data for this well | |
| There is no Production Gas data for this well | |
| There is no Production Oil data for this well. ** some operators may have reported NGL under Oil | |
| There is no Production NGL data for this well. ** some operators may have reported NGL under Oil | |
| There is no Production Visitor data for this well | |
| There is no Stratigraphy data for this well | |
| There is no Wireline (E-Log) data for this well | |
| There is no Plugging data for this well | |
| There is no Sample data for this well | |

| W/Carbonal Engines Survey | Well: County = 51 Permit = 90100 |
|--|--|
| ON SECURITY TOWNS THE SERVEY CHAPTS COME OF LAT DO TOWN OF SERVEY SHAPE OF THE OWNER OF SERVEY SHAPE OF THE SERVEY SHAPE OF TH | |
| There is no Bottom Hole Lacation data for this well | |
| Out a information target that status subject common well and the an example and install the state and installation of the state and the state | THE PROPERTY CONTESTED FROM THE |
| Considering information of the Control of the Contr | CONT. PROCESSES THE HIS COMPAND TO THE MINEYED AND ADDRESSES OF THE BUY WELLT FROM THE PLANT THE BUY FOR THE BUY OF THE B |
| Pay thousands extension recover section paying for full tarting and the day of the control of th | CAT ONE ON WHICH |
| There is no Production Gas data for this well | |
| There is no Production Oil date for this well. ** some operators may have reported NGL under Oil | |
| There is no Production NGL sate for this well "" some operators may have reported NGL under Oil | |
| There is no Production Waller date for this wall | |
| PORTODOS Crighe Lies understad out 1/44 Record 400 Resourchine 1 Res 2705/00/00 Crighe Lies Servicky 608 (An Record 600 Resourchine 1 Res | Oxiest Colluty Eary Contains section 115 Sport of the section 115 Sport |
| There is no Viveline (ELLog) date for this well | |
| Company of the Party Par | |
| There is no Sergie data for this well | |

Olice of Clarks of Connection of Page 6 of Golden





Map Created: May 24, 2018 Map Current As Ot: May 24, 2018

Evad - 6HM Franklin Distriction Marshall County, WV Environmental Protection





Tug Hill Operating, LLC Casing and Cement Program

Evad 6HM

| Ca | sing | | |
|-------|----------|------------------|----------------|
| Grade | Bit Size | Depth (Measured) | Cement Fill Up |
| BW | 36" | 120' | CTS |
| .155 | 17 1/2" | 980' | CTS |

| | String | Grade | Bit Size | Depth (Measured) | Cement Fill Up |
|--------------|---------|---------|---------------|------------------|----------------|
| Conductor | 30" | BW | 36" | 120' | CTS |
| Surface | 13 3/8" | J55 | 17 1/2" | 980' | CTS |
| Intermediate | 9 5/8" | J55 | 12 1/4" | 2,914' | CTS |
| Production | 5 1/2" | CYHP110 | 8 7/8 x 8 3/4 | 16,593' | CTS |

Cement

| Conductor: | Premium NE-1 + 2% bwoc CaC12 + 46.5% Fresh Water - Conductor Cement mixed at 15.6 ppg, Y=1.2 |
|------------|--|
|------------|--|

Premium NE-1 + 2% bwoc CaC12 + 46.5% Fresh Water - Surface Cement mixed at 15.6 ppg, Y=1.2 Surface:

Premium NE-1 + 1% bwoc CaC12 + 46.5% Fresh Water - Intermediate Cement mixed at 15.6 ppg, Y=1.19 Intermediate:

Class H Cement + 1% CD-32 + .7% Sodium Metasilicate + .1% R-3 + .75 gal/100sk FP-13L - KOP Plug Kick Off Plug:

Production:

50:50 Poz: Premium NE-1 + .1% bwoc ASA-301 + 60lb/sk ASCA-1 + .35% bwoc BA-10A + .25% bwoc MPA-170, 44 lb sack + .5% bwoc R-3 + .75 gals/100sk FP-13L - Production Cement mixed at 15.2ppg, Y = 1.19

> WY Department of ENTRONMENTAL PROTECTION



30" Csg @ 120' MD / 120' TVD

13 3/8" C1g @ 980" MD /

9 5/8" Crg @ 2,914' MD / 2,800' TVD

980' TVD

WELL NAME: Evad 6HM STATE:

COUNTY:

Marshall

DISTRICT: Franklin 1,291 DF Elev: TD:

TH Latitude:

1,291

GL Elev:

16,593" 39.74441918 TH Longitude: -80.79320366

BH Latitude: 39.7256289 BH Longitude: 80.76743324

| FORMATION TOPS | |
|---------------------|-----------|
| Formation | Depth TVD |
| Deepest Fresh Water | 877 |
| Sewickley Coal | 771 |
| Pittsburgh Coal | 871 |
| Big Lime | 2051 |
| Weir | 2407 |
| Berea | 2591 |
| Gordon | 2901 |
| Rhinestreet | 5895 |
| Geneseo/Burkett | 6403 |
| Tully | 6426 |
| Hamilton | 6455 |
| Marcellus | 6511 |
| Landing Depth | 6546 |

Onondaga Pilot Hole Depth

| CASING SUMMARY | | | | | | | | | |
|----------------|----------------|---------------|------------|-------------|----------------|---------|-------------|--|--|
| Туре | Hole Size (in) | Csg Size (in) | Depth (MD) | Depth (TVD) | Weight (lb/ft) | Grade | Top of Ceme | | |
| Conductor | 36 | 30 | 120' | 120' | BW | BW | Surface | | |
| Surface | 17.5 | 13 3/8 | 980' | 980' | 54.5 | J55 | Surface | | |
| Intermediate 1 | 12 1/4 | 95/8 | 2,914' | 2,800' | 36 | J55 | Surface | | |
| Production | 87/8×83/4 | 51/2 | 16,593' | 6,687 | 20 | CYHP110 | Surface | | |

| | CEMENT SUMM | IARY | | DRILLING DETAILS | | | |
|----------------|-------------|-------|---------|------------------|--|--|--|
| | Sacks | Class | Density | Fluid Type | Centralizer Notes | | |
| Conductor | 338 | A | 15.6 | Air | None | | |
| Surface | 1,037 | А | 15.6 | Air | 3 Centralizers at equal distance | | |
| Intermediate 1 | 949 | Α | 15 | Air | 1 Centralizer every other jt | | |
| Production | 3,740 | А | 14.5 | Air / SOBM | 1 every other joint in lateral; 1 per joint in curve; every other jt to sfc | | |

6,755' ft MD KOP@

Ju 0/6/80

Pilot Hole PH TD @ 6,662' TVD

Landing Point @7,644' MD / 6,546' TVD

PH TVD = 100' below Onondaga Top

Wy Department of Wy Department of

PROENED GRE Office of on and Gree

6562

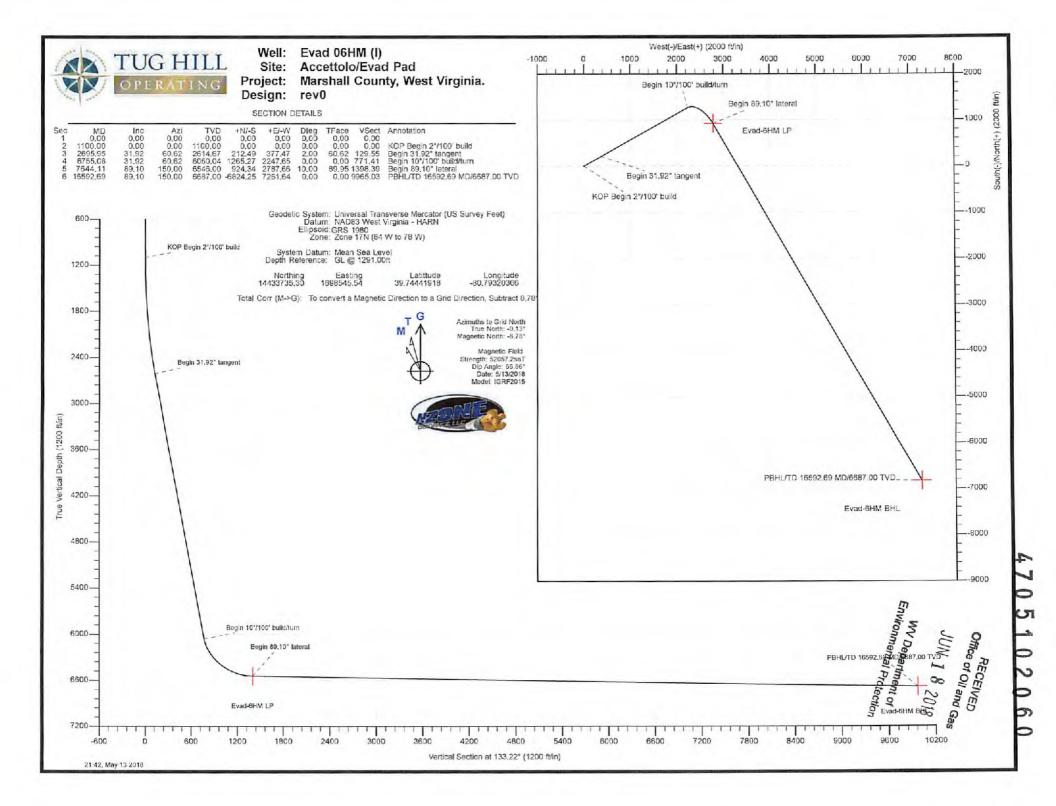
6662

Lateral TD @

6,687 ft TVD

0

9 0





Planning Report - Geographic

Database: Company: Project:

DB_Jul2216dt_v14 Tug Hill Operating LLC Marshall County, West Virginia.

Accettolo/Evad Pad Site: Evad 06HM (I) Well: Original Hole Wellbore:

rev0

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Well Evad 06HM (I) GL@ 1291.00ft

GL @ 1291.00ft Grid

Minimum Curvature

Design: Project

Site

Well

Marshall County, West Virginia,

Map System:

Universal Transverse Mercator (US Survey Feet)

System Datum:

Mean Sea Level

Geo Datum: Map Zone:

NAD83 West Virginia - HARN Zone 17N (84 W to 78 W)

Accettolo/Evad Pad

Site Position: From:

Well Position

Lat/Long

Evad 06HM (I)

+N/-S

+E/-W

Northing: Easting:

14,433,724.12 usft 1,698,524,31 usft 13-3/16 "

Latitude: Longitude:

39.74438861 -80.79327927 Grid Convergence:

0.13

Position Uncertainty:

IGRF2015

0.00 ft Slot Radius:

14,433,735.30 usft

-8.65

Latitude:

39.74441918 -80.79320366

Position Uncertainty

0.00 ft 0.00 ft 0.00 ft

Easting: Wellhead Elevation:

5/13/2018

Northing:

1,698,545.54 usft Longitude: Ground Level:

1,291.00 ft

Wellbore Original Hole

Model Name Magnetics

Sample Date

Declination

Dip Angle

Field Strength (nT)

52.057.20080782

Design

Audit Notes:

Version:

Vertical Section: Depth From (TVD)

(ft) 0.00

Phase:

+N/-S (ft)

0.00

PLAN

+E/-W (ft) 0.00

Tie On Depth:

0.00 Direction

(°) 133.22

66.86

Plan Survey Tool Program

Date 5/13/2018

Depth From (ft)

Depth To (ft)

Survey (Wellbore)

Tool Name

Remarks

0.00

16,592.69 rev0 (Original Hole)

MWD

MWD - Standard

| Measured Depth (ft) | Inclination (°) | Azimuth | Vertical Depth (ft) | +N/-S (ft) | +E/-W (ft) | Dogleg Rate (*/100ft) | Build Rate (°/100ft) | Turn Rate (°/100ft) | TFO (°) | Target |
|---------------------------|-----------------|---------|---------------------------|---------------|---------------|-----------------------------|----------------------------|---------------------------|------------|--------------|
| 0.00 | 0.00 | 0,00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 1,100.00 | 0.00 | 0.00 | 1,100.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 2,695.95 | 31.92 | 60.62 | 2,614.67 | 212.49 | 377.47 | 2.00 | 2.00 | 0.00 | 60.62 | |
| 6,755.08 | 31.92 | 60.62 | 6,060.04 | 1,265.27 | 2,247.65 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 7,644.11 | 89.10 | 150.00 | 6,546.00 | 924.34 | 2,787.66 | 10.00 | 6.43 | 10.05 | 89.95 | Evad-6HM LP |
| 16,592.69 | 89.10 | 150.00 | 6,687.00 | -6,824.25 | 7,261.64 | 0.00 | 0.00 | RECENTED | 0.00 | Evad-6HM BHL |

Office of Oil and Gas

TUG HILL

4705102060 Price of Oil and Gas

JUN 1 8 2018

Planning Report - Geographic

Database: Company: Project:

Design:

DB_Jul2216dt_v14 Tug Hill Operating LLC Marshall County, West Virginia.

Site: Accettolo/Evad Pad Well: Evad 06HM (I) Wellbore:

rev0

Original Hole

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference: Survey Calculation Method:

WV Department of Well Eved of AWronmental Protection GL@ 1291,00ft

Grid

Minimum Curvature

| anned Survey | | | | | | | | | |
|---|-----------------|----------------|---------------------------|---------------|---------------|---------------------------|--------------------------|-------------|-------------|
| Measured Depth (ft) | Inclination (°) | Azimuth | Vertical Depth (ft) | +N/-S (ft) | +E/-W (ft) | Map Northing (usft) | Map Easting (usft) | Latitude | Longitude |
| | 0,00 | 0.00 | 0.00 | 0.00 | 0.00 | 14,433,735,30 | 1,698,545.54 | 39,74441918 | -80,7932036 |
| 0.00 | 0,00 | 0.00 | 100.00 | 0.00 | 0.00 | 14,433,735.30 | 1,698,545.54 | 39.74441918 | -80,7932036 |
| 100,00 | | 0.00 | 200.00 | 0.00 | 0.00 | 14,433,735.30 | 1,698,545.54 | 39.74441918 | -80.7932036 |
| 200.00 | 0.00 | 0.00 | 300.00 | 0.00 | 0.00 | 14,433,735.30 | 1,698,545.54 | 39,74441918 | -80.7932036 |
| 300,00 | 0.00 | | 400.00 | 0.00 | 0.00 | 14,433,735.30 | 1,698,545.54 | 39.74441918 | -80.793203 |
| 400.00 | 0.00 | 0.00 | 500.00 | 0.00 | 0.00 | 14,433,735.30 | 1,698,545.54 | 39.74441918 | -80,793203 |
| 500.00 | 0.00 | 0.00 | 600.00 | 0.00 | 0.00 | 14,433,735.30 | 1,698,545.54 | 39.74441918 | -80.793203 |
| 600.00 | 0.00 | 0.00 | | | 0.00 | 14,433,735.30 | 1,698,545.54 | 39.74441918 | -80.793203 |
| 700.00 | 0.00 | 0.00 | 700.00 | 0.00 | 0.00 | | 1,698,545.54 | 39.74441918 | -80.793203 |
| 800.00 | 0.00 | 0.00 | 800.00 | 0.00 | | 14,433,735.30 | | 39.74441918 | -80.793203 |
| 900.00 | 0.00 | 0.00 | 900.00 | 0.00 | 0.00 | 14,433,735.30 | 1,698,545.54 | | -80.793203 |
| 1,000.00 | 0.00 | 0.00 | 1,000.00 | 0.00 | 0.00 | 14,433,735.30 | 1,698,545.54 | 39.74441918 | -80.793203 |
| 1,100.00 | 0.00 | 0.00 | 1,100.00 | 0.00 | 0.00 | 14,433,735.30 | 1,698,545.54 | 39.74441918 | -60.793203 |
| | jin 2°/100' bui | | | | | | 700000000 | | ** **** |
| 1,200.00 | 2.00 | 60.62 | 1,199.98 | 0.86 | 1.52 | 14,433,736.16 | 1,698,547.06 | 39.74442152 | -80.793198 |
| 1,300.00 | 4.00 | 60.62 | 1,299.84 | 3.42 | 6.08 | 14,433,738.72 | 1,698,551.62 | 39.74442854 | -80.793182 |
| 1,400.00 | 6.00 | 60.62 | 1,399.45 | 7.70 | 13.68 | 14,433,743.00 | 1,698,559.21 | 39.74444024 | -80.793154 |
| 1,500.00 | 8.00 | 60.62 | 1,498.70 | 13.68 | 24.29 | 14,433,748.98 | 1,698,569.83 | 39.74445659 | -80.793117 |
| 1,600.00 | 10.00 | 60.62 | 1,597.47 | 21.35 | 37.93 | 14,433,756.65 | 1,698,583.46 | 39.74447757 | -80.793068 |
| 1,700.00 | 12.00 | 60.62 | 1,695.62 | 30.71 | 54.55 | 14,433,766.01 | 1,698,600.09 | 39.74450317 | -80.793009 |
| 1,800.00 | 14.00 | 60.62 | 1,793.06 | 41.74 | 74.15 | 14,433,777.04 | 1,698,619.69 | 39.74453335 | -80.792939 |
| 1,900.00 | 16.00 | 60,62 | 1,889.64 | 54.44 | 96.71 | 14,433,789.74 | 1,698,642.24 | 39.74456807 | -80,792859 |
| 2,000.00 | 18.00 | 60.62 | 1,985.27 | 68.78 | 122,18 | 14,433,804.08 | 1,698,667.72 | 39.74460730 | -80.792768 |
| 2,100.00 | 20.00 | 60,62 | 2,079.82 | 84.75 | 150.55 | 14,433,820.05 | 1,698,696.09 | 39.74465098 | -80,792667 |
| 2,200.00 | 22.00 | 60.62 | 2,173.17 | 102.33 | 181.78 | 14,433,837.63 | 1,698,727.31 | 39,74469905 | -80.792556 |
| 2,300.00 | 24.00 | 60.62 | 2,265.21 | 121,50 | 215.83 | 14,433,856.80 | 1,698,761.36 | 39.74475147 | -80.792434 |
| 2,400.00 | 26.00 | 60.62 | 2,355.84 | 142.23 | 252,65 | 14,433,877.53 | 1,598,798,19 | 39.74480817 | -80.792303 |
| 2,500.00 | 28.00 | 60.62 | 2,444.94 | 164.50 | 292.21 | 14,433,899.80 | 1,698,837.75 | 39.74486908 | -80.792162 |
| 2,600.00 | 30.00 | 60.62 | 2,532.39 | 188.28 | 334.46 | 14,433,923.58 | 1,698,879.99 | 39.74493412 | -80.792012 |
| 2,695.95 | 31.92 | 60.62 | 2,614.67 | 212.49 | 377.47 | 14,433,947,79 | 1,598,923,00 | 39.74500034 | -80.791859 |
| | .92° tangent | | B40 1-121 | | | | 24274,22222 | | |
| 2,700.00 | 31.92 | 60.62 | 2,618.11 | 213,54 | 379.33 | 14,433,948.84 | 1,698,924,87 | 39.74500321 | -80.791852 |
| 2,800.00 | 31.92 | 60.62 | 2,702.99 | 239.47 | 425.41 | 14,433,974.78 | 1,698,970.94 | 39.74507414 | -80.791688 |
| 2,900.00 | 31.92 | 60.62 | 2,787.87 | 265.41 | 471.48 | 14,434,000.71 | 1,599,017.02 | 39.74514508 | -80.791524 |
| 3,000.00 | 31.92 | 60.62 | 2,872.75 | 291.35 | 517.55 | 14,434,026.65 | 1,699,063.09 | 39.74521601 | -80.791360 |
| 3,100.00 | 31.92 | 60.62 | 2,957.63 | 317.28 | 563.63 | 14,434,052.58 | 1,699,109.16 | 39.74528695 | -80,791195 |
| 3,200.00 | 31.92 | 60.62 | 3,042.51 | 343.22 | 609.70 | 14,434,078.52 | 1,699,155.24 | 39.74535788 | -80.791031 |
| | | 60.62 | 3,127.39 | 369.16 | 655.78 | | 1,699,201.31 | 39.74542881 | -80.790867 |
| 3,300,00 | 31.92 | 60.62 | | 395.09 | 701.85 | 14,434,104.46 | 1,699,247.38 | 39.74549974 | -80.790703 |
| 400000000000000000000000000000000000000 | 31.92 | | 3,212.27 | 421.03 | 747.92 | 14,434,130,39 | | 39.74557068 | -80.790539 |
| 3,500.00 | 31.92 | 60.62 60.62 | 3,297.14 | 446.96 | 794.00 | 14,434,156,33 | 1,699,293.46 | 39.74564161 | -80.790375 |
| 3,600.00 | 31.92 | | 3,382.02 | | | 14,434,182.26 | 1,699,339.53 | | -80.790211 |
| 3,700.00 | 31.92 | 60,62 | 3,466.90 | 472.90 | 840.07 | 14,434,208.20 | 1,699,385.60 | 39.74571254 | |
| 3,800.00 | 31.92 | 60.62 | 3,551.78 | 498.84 | 886.14 | 14,434,234.14 | 1,699,431.68 | 39.74578347 | -80,790047 |
| 3,900,00 | 31.92 | 60.62 | 3,636.66 | 524,77 | 932.22 | 14,434,260,07 | 1,699,477.75 | 39.74585441 | -80.789882 |
| 4,000,00 | 31.92 | 60.62 | 3,721.54 | 550.71 | 978.29 | 14,434,286.01 | 1,699,523,82 | 39.74592534 | -80.789718 |
| 4,100.00 | 31.92 | 60,62 | 3,806.42 | 576.65 | 1,024.36 | 14,434,311,95 | 1,699,569.90 | 39,74599627 | -80.789554 |
| 4,200.00 | 31.92 | 60.62 | 3,891.30 | 602.58 | 1,070.44 | 14,434,337.88 | 1,699,615.97 | 39.74606720 | -80.789390 |
| 4,300,00 | 31.92 | 60.62 | 3,976.18 | 628.52 | 1,116.51 | 14,434,363,82 | 1,699,662.04 | 39.74613813 | -80,789226 |
| 4,400.00 | 31.92 | 60.62 | 4,061.06 | 654.45 | 1,162.58 | 14,434,389.75 | 1,699,708.12 | 39.74620906 | -80.789062 |
| 4,500,00 | 31,92 | 60.62 | 4,145.94 | 680.39 | 1,208,66 | 14,434,415,69 | 1,699,754.19 | 39.74627999 | -80,788898 |
| 4,600.00 | 31.92 | 60.62 | 4,230.82 | 706.33 | 1,254.73 | 14,434,441.63 | 1,699,800.26 | 39.74635092 | -80.788734 |
| 4,700.00 | 31.92 | 60.62 | 4,315.70 | 732.26 | 1,300.80 | 14,434,467.56 | 1,699,846.34 | 39.74842185 | -80,788569 |
| 4,800.00 | 31.92 | 60.62 | 4,400.58 | 758.20 | 1,346.88 | 14,434,493.50 | 1,699,892.41 | 39.74649278 | -80.788405 |
| 4,900.00 | 31.92 | 60.52 | 4,485.46 | 784.14 | 1,392.95 | 14,434,519.43 | 1,699,938.48 | 39.74656371 | -80.788241 |
| 5,000.00 | 31.92 | 60.62 | 4,570.34 | 810.07 | 1,439.03 | 14,434,545.37 | 1,699,984.56 | 39.74663464 | -80.788077 |



4705102060

Office of Oil and Gas JUN 1 8 2018

Planning Report - Geographic

Database: Company: Project: DB_Jul2216dt_v14 Tug Hill Operating LLC Marshall County, West Virginia.

Site: Accettolo/Evad Pad
Well: Evad 06HM (I)
Wellbore: Original Hole
Design: rev0

Local Co-ordinate Reference:

TVD Reference:
MD Reference:
North Reference:
Survey Calculation Method:

WV Department of Well Evad 06HM mental Protection GL @ 1291.001

GL @ 1291.00ft Grid

Minimum Curvature

| nned Survey | | | | | | | | | |
|---------------------------|--------------------------|---------|---------------------------|---------------|---------------|---------------------------|--------------------------|-------------|-------------|
| Measured Depth (ft) | Inclination (°) | Azimuth | Vertical Depth (ft) | +N/-S (ft) | +E/-W (ft) | Map Northing (usft) | Map Easting (usft) | Latitude | Longitude |
| | 31.92 | 60.62 | 4,655,22 | 836.01 | 1,485.10 | 14,434,571,31 | 1,700,030.63 | 39,74670557 | -80.787913 |
| 5,100.00 | | 60.62 | 4,740.10 | 861.94 | 1,531.17 | 14,434,597.24 | 1,700,076.70 | 39.74677650 | -80.787749 |
| 5,200.00 | 31.92 | | 7.570 | | | | 1,700,122.78 | 39.74684743 | -80.787585 |
| 5,300.00 | 31.92 | 60.62 | 4,824.98 | 887.88 | 1,577.25 | 14,434,623.18 | | 39.74691836 | -80.787420 |
| 5,400.00 | 31.92 | 60.62 | 4,909.86 | 913.82 | 1,623.32 | 14,434,649.12 | 1,700,168.85 | 39.74698928 | -80,787256 |
| 5,500.00 | 31,92 | 60.62 | 4,994.74 | 939.75 | 1,669.39 | 14,434,675.05 | 1,700,214.93 | | |
| 5,600.00 | 31.92 | 60.62 | 5,079.62 | 965,69 | 1,715.47 | 14,434,700.99 | 1,700,261.00 | 39.74706021 | -80,787092 |
| 5,700.00 | 31.92 | 60.62 | 5,164.50 | 991.63 | 1,761.54 | 14,434,726.92 | 1,700,307.07 | 39.74713114 | -80.786928 |
| 5,800.00 | 31.92 | 60.62 | 5,249.37 | 1,017.56 | 1,807.61 | 14,434,752.86 | 1,700,353.15 | 39.74720207 | -80.786764 |
| 5,900.00 | 31.92 | 60.62 | 5,334.25 | 1,043.50 | 1,853.69 | 14,434,778.80 | 1,700,399.22 | 39.74727299 | -80.786600 |
| 6,000.00 | 31.92 | 60.62 | 5,419.13 | 1,069.43 | 1,899.76 | 14,434,804.73 | 1,700,445.29 | 39.74734392 | -80.786436 |
| 6,100.00 | 31.92 | 60.62 | 5,504.01 | 1,095.37 | 1,945.83 | 14,434,830.67 | 1,700,491.37 | 39.74741485 | -80.786272 |
| 6,200.00 | 31.92 | 60,62 | 5,588.89 | 1,121.31 | 1,991.91 | 14,434,856.60 | 1,700,537.44 | 39.74748577 | -80.786107 |
| 6,300.00 | 31.92 | 60.62 | 5,673.77 | 1,147.24 | 2,037.98 | 14,434,882.54 | 1,700,583.51 | 39.74755670 | -80.785943 |
| 6,400.00 | 31.92 | 60.62 | 5,758.65 | 1,173.18 | 2,084.06 | 14,434,908.48 | 1,700,629.59 | 39.74762763 | -80.78577 |
| 6,500.00 | 31,92 | 60.62 | 5,843.53 | 1,199.12 | 2,130,13 | 14,434,934,41 | 1,700,675,66 | 39.74769855 | -80.78561 |
| 6,600.00 | 31.92 | 60.62 | 5,928.41 | 1,225.05 | 2,176.20 | 14,434,960.35 | 1,700,721.73 | 39.74776948 | -80,78545 |
| 6,700.00 | 31.92 | 60.62 | 6,013,29 | 1,250,99 | 2,222.28 | 14,434,986,29 | 1,700,767.81 | 39.74784040 | -80,785287 |
| | 31.92 | 60.62 | 6,060.04 | 1,265.27 | 2,247.65 | 14,435,000.57 | 1,700,793.18 | 39.74787947 | -80.785196 |
| 6,755.08 | | | 0,000.04 | 1,203.27 | 2,247.00 | 14,435,000.57 | 1,700,783.10 | 39./4/0/34/ | -50,765 (6. |
| 6,800,00 | °/100' build/tu 32.20 | 69.07 | 6,098.13 | 1,275.38 | 2,269.19 | 14,435,010.68 | 1,700,814.72 | 39.74790708 | -80,785120 |
| | | | 10 17 24 CA 10 MEN | | 44.000 | | | 39.74793749 | -80.784929 |
| 6,900.00 | 34.75 | 86.67 | 6,181.73 | 1,286.58 | 2,322.67 | 14,435,021.88 | 1,700,868,20 | 39.74792444 | -80.784717 |
| 7,000.00 | 39.45 | 101.35 | 6,261,63 | 1,281.97 | 2,382.42 | 14,435,017.27 | 1,700,927.95 | | |
| 7,100.00 | 45.63 | 113.02 | 6,335,39 | 1,261.69 | 2,446.62 | 14,434,996.99 | 1,700,992.15 | 39.74786832 | -80.784488 |
| 7,200.00 | 52,76 | 122.30 | 6,400.7B | 1,226.36 | 2,513.33 | 14,434,961.66 | 1,701,058.86 | 39.74777084 | -80.78425 |
| 7,300.00 | 60.49 | 129.92 | 6,455,81 | 1,177.04 | 2,580.53 | 14,434,912,34 | 1,701,126.06 | 39.74763496 | -80,784013 |
| 7,400.00 | 68,59 | 136.42 | 6,498.80 | 1,115.24 | 2,646.15 | 14,434,850.54 | 1,701,191.69 | 39.74746481 | -80.783780 |
| 7,500.00 | 76.91 | 142.23 | 6,528.45 | 1,042.84 | 2,708.23 | 14,434,778.14 | 1,701,253.76 | 39.74726556 | -80.783560 |
| 7,600.00 | 85.36 | 147.66 | 6,543.87 | 962.03 | 2,764.86 | 14,434,697.33 | 1,701,310.39 | 39.74704326 | -80.78335 |
| 7,644.11 | 89.10 | 150.00 | 6,546.00 | 924.34 | 2,787.66 | 14,434,659.64 | 1,701,333.19 | 39.74693960 | -80.783278 |
| Begin 89 | .10° lateral | | | | | | | | |
| 7,700.00 | 89.10 | 150.00 | 6,546.88 | 875,95 | 2,815.60 | 14,434,611.25 | 1,701,361.13 | 39,74680651 | -80,78317 |
| 7,800.00 | 89,10 | 150.00 | 6,548,45 | 789.36 | 2,865.60 | 14,434,524.66 | 1,701,411.12 | 39.74656837 | -80.78300 |
| 7,900.00 | 89.10 | 150.00 | 6,550,03 | 702.77 | 2,915.59 | 14,434,438.07 | 1,701,461.12 | 39,74633024 | -80,78282 |
| 8,000.00 | 89.10 | 150.00 | 6,551.61 | 616.18 | 2,965.59 | 14,434,351.48 | 1,701,511.12 | 39.74809211 | -80.78264 |
| 8,100.00 | 89.10 | 150.00 | 6,553,18 | 529.59 | 3,015.58 | 14,434,264.89 | 1,701,561.11 | 39.74585397 | -80.78247 |
| 8,200.00 | 89.10 | 150.00 | 6,554.76 | 443.00 | 3,065.58 | 14,434,178.30 | 1,701,611.11 | 39.74561584 | -80.78229 |
| 8,300.00 | 89.10 | 150.00 | 6,556.33 | 356,41 | 3.115.58 | 14,434,091.71 | 1,701,661.11 | 39.74537770 | -80.78211 |
| 8,400.00 | 89.10 | 150.00 | 6,557.91 | 269.82 | 3,165.57 | 14,434,005.12 | 1,701,711.10 | 39.74513956 | -80.78193 |
| 8,500.00 | 89.10 | 150.00 | 6,559,49 | 183.23 | 3,215.57 | 14,433,918.53 | 1,701,761.10 | 39.74490143 | -80.78176 |
| 8,600.00 | 89.10 | 150.00 | 6,561,06 | 96.64 | 3,265.57 | 14,433,831.94 | 1,701,811.10 | 39.74468329 | -80.78158 |
| 8,700.00 | 89.10 | 150.00 | 6,562.64 | 10.04 | 3,315.56 | 14,433,745.35 | 1,701,861.09 | 39.74442516 | -80.78140 |
| 8,800.00 | | | | | | | | | -80.78123 |
| | 89.10 | 150.00 | 6,564.21 | -76.55 | 3,365.56 | 14,433,658.76 | 1,701,911.09 | 39.74418702 | |
| 8,900.00 | 89.10 | 150.00 | 6,565.79 | -163.14 | 3,415.56 | 14,433,572.17 | 1,701,961.09 | 39.74394888 | -80,78105 |
| 9,000.00 | 89.10 | 150.00 | 6,567.36 | -249.73 | 3,465.55 | 14,433,485.58 | 1,702,011.08 | 39.74371075 | -80,78087 |
| 9,100.00 | 89.10 | 150.00 | 6,568.94 | -336.32 | 3,515.55 | 14,433,398.99 | 1,702,061.08 | 39.74347261 | -80.78069 |
| 9,200.00 | 89.10 | 150,00 | 6,570,52 | -422.91 | 3,565.55 | 14,433,312.40 | 1,702,111.08 | 39,74323447 | -80.78052 |
| 9,300.00 | 89.10 | 150.00 | 6,572.09 | -509.50 | 3,615.54 | 14,433,225.81 | 1,702,161.07 | 39.74299633 | -80.78034 |
| 9,400.00 | 89.10 | 150,00 | 6,573.67 | -596.09 | 3,665.54 | 14,433,139.22 | 1,702,211.07 | 39.74275819 | -80,78016 |
| 9,500.00 | 89.10 | 150.00 | 6,575,24 | -682.68 | 3,715.54 | 14,433,052.63 | 1,702,261.07 | 39.74252005 | -80.77999 |
| 9,600.00 | 89.10 | 150.00 | 6,576.82 | -769.27 | 3,765.53 | 14,432,966.04 | 1,702,311.06 | 39.74228192 | -80.77981 |
| 9,700.00 | 89.10 | 150.00 | 6,578.39 | -855.86 | 3,815.53 | 14,432,879.45 | 1,702,361.06 | 39.74204378 | -80.77963 |
| 9,800.00 | 89.10 | 150.00 | 6,579.97 | -942.45 | 3,865.53 | 14,432,792.86 | 1,702,411.05 | 39.74180564 | -80.77946 |
| 9,900.00 | 89.10 | 150.00 | 6,581.55 | -1,029.04 | 3,915.52 | 14,432,706.27 | 1,702,461.05 | 39.74156750 | -80.779283 |
| 10,000.00 | 89.10 | 150.00 | 6,583.12 | -1,115.63 | 3,965.52 | 14,432,619.68 | 1,702,511.05 | 39.74132936 | -80.77910 |





Database: Company: Project: DB_Jul2216dt_v14
Tug Hill Operating LLC
Marshall County, West Virginia.

Site: Accettolo/Evad Pad
Well: Evad 06HM (i)
Wellbore: Original Hole
Design: rev0

Local Co-ordinate Reference:

TVD Reference:
MD Reference:
North Reference:
Survey Calculation Method:

Well Evad 06HM (I) GL@ 1291.00ft GL@ 1291.00ft

Office of Oil and Gas ft JUN 1 8 2018

GL @ 1291. Grid Minimum Curval WAY Department of Environmental Protection

| Design: | rev0 | | | | | | | | Otection |
|---------------------------|-----------------|---------|---------------------------|------------------------|---------------|---------------------------|--------------------------|-------------|--------------------------|
| Planned Survey | | | | | | | | | 34) |
| Measured Depth (ft) | Inclination (°) | Azimuth | Vertical Depth (ft) | +N/-S (ft) | +E/-W (ft) | Map Northing (usft) | Map Easting (usft) | Latitude | Longitude |
| 10,100,00 | 89.10 | 150.00 | 6,584.70 | -1,202.22 | 4,015.52 | 14,432,533.09 | 1,702,561.04 | 39,74109122 | -80.7789289 |
| 10,200.00 | 89.10 | 150.00 | 6,586.27 | -1,288.81 | 4,065.51 | 14,432,446.50 | 1,702,611.04 | 39.74085308 | -80.7787518 |
| 10,300.00 | 89.10 | 150.00 | 6,587.85 | -1,375.40 | 4,115.51 | 14,432,359.91 | 1,702,661.04 | 39.74061494 | -80.7785747 |
| 10,400.00 | 89.10 | 150.00 | 6,589.42 | -1,461.99 | 4,165.51 | 14,432,273,32 | 1,702,711.03 | 39.74037679 | -80.7783976 |
| 10,500.00 | 89.10 | 150.00 | 6,591.00 | -1,548.58 | 4,215.50 | 14,432,186.73 | 1,702,761.03 | 39,74013865 | -80,7782205 |
| 10,600.00 | 89.10 | 150.00 | 6,592,58 | -1,635.17 | 4,265.50 | 14,432,100.14 | 1,702,811.03 | 39.73990051 | -80.7780434 |
| 10,700.00 | 89.10 | 150.00 | 6,594.15 | -1,721.76 | 4,315.50 | 14,432,013.55 | 1,702,861.02 | 39.73966237 | -80,777866 |
| 10,800.00 | 89.10 | 150.00 | 6,595.73 | -1,808.35 | 4,365.49 | 14,431,926,96 | 1,702,911.02 | 39.73942423 | -80.777689 |
| 10,900.00 | 89.10 | 150.00 | 6,597.30 | -1,894.94 | 4,415.49 | 14,431,840,37 | 1,702,961.02 | 39.73918608 | -80.777512 |
| 11,000.00 | 89.10 | 150.00 | 6,598.88 | -1,981.53 | 4,465.49 | 14,431,753.78 | 1,703,011.01 | 39.73894794 | -80,777335 |
| 11,100.00 | 89.10 | 150.00 | 6,600.45 | -2,068.12 | 4,515.48 | 14,431,667.19 | 1,703,061.01 | 39.73870980 | -80,777158 |
| 11,200.00 | 89.10 | 150.00 | 6,602.03 | -2,154.71 | 4,565.48 | 14,431,580.60 | 1,703,111.01 | 39,73847166 | -80.776980 |
| 11,300.00 | 89.10 | 150.00 | 6,603.60 | -2,241.30 | 4,615.48 | 14,431,494.01 | 1,703,161.00 | 39.73823351 | -80.776803 |
| 11,400.00 | 89.10 | 150,00 | 6,605.18 | -2,327.89 | 4,665.47 | 14,431,407.42 | 1,703,211.00 | 39.73799537 | -80,776626 |
| 11,500.00 | 89.10 | 150,00 | 6,606,76 | -2,414.48 | 4,715.47 | 14,431,320,83 | 1,703,261.00 | 39,73775722 | -80.776449 |
| 11,600.00 | 89.10 | 150,00 | 6,608.33 | -2,501.07 | 4,765.47 | 14,431,234.24 | 1,703,310.99 | 39.73751908 | -80.776272 |
| 11,700.00 | 89.10 | 150.00 | 6,609,91 | -2,587.66 | 4,815.46 | 14,431,147.65 | 1,703,360.99 | 39,73728093 | -80.776095 |
| 11,800.00 | 89.10 | 150.00 | 6,611.48 | -2,674.25 | 4,865.46 | 14,431,061.06 | 1,703,410.98 | 39.73704279 | -80.775918 |
| 11,900.00 | 89.10 | 150.00 | 6,613.06 | -2,760.84 | 4,915.46 | 14,430,974,47 | 1,703,460.98 | 39.73680464 | -80.775741 |
| 12,000.00 | 89.10 | 150.00 | 6,614.63 | -2,847.43 | 4,965.45 | 14,430,887.88 | 1,703,510.98 | 39,73656650 | -80,775564 |
| 12,100.00 | 89.10 | 150.00 | 6,616.21 | -2,934.02 | 5,015.45 | 14,430,801.29 | 1,703,560,97 | 39.73632835 | -80,775387 |
| 12,200.00 | 89,10 | 150.00 | 6,617.79 | -3,020.61 | 5,065.45 | 14,430,714.70 | 1,703,610.97 | 39.73609021 | -80.775210 |
| 12,300.00 | 89.10 | 150.00 | 6,619.36 | -3,107.20 | 5,115.44 | 14,430,628.11 | 1,703,660.97 | 39.73585206 | -80.775033 |
| 12,400.00 | 89.10 | 150.00 | 6,620.94 | -3,193.79 | 5,165.44 | 14,430,541.52 | 1,703,710.96 | 39.73561391 | -80.774856 |
| 12,500.00 | 89.10 | 150.00 | 6,622.51 | -3,280.38 | 5,215.44 | 14,430,454.93 | 1,703,760.96 | 39.73537577 | -80.774679 |
| 12,600.00 | 89.10 | 150.00 | 6,624.09 | -3,366.97 | 5,265.43 | 14,430,358.34 | 1,703,810.96 | 39.73513762 | -80.774501 |
| 12,700.00 | 89.10 | 150.00 | 6,625.66 | -3,453.56 | 5,315.43 | 14,430,281.75 | 1,703,860.95 | 39.73489947 | -80,774324 |
| 12,800.00 | 89.10 | 150.00 | 6,627.24 | -3,540.15 | 5,365.42 | 14,430,195.16 | 1,703,910.95 | 39.73466132 | -80.774147 |
| 12,900.00 | 89.10 | 150,00 | 6,628.82 | -3,626.74 | 5,415.42 | 14,430,108.57 | 1,703,960.95 | 39.73442318 | -80.773970 |
| 13,000.00 | 89.10 | 150.00 | 6,630.39 | -3,713.33 | 5,465.42 | 14,430,021.98 | 1,704,010.94 | 39.73418503 | -80.773793 |
| 13,100.00 | 89.10 | 150,00 | 6,631.97 | -3,799.92 | 5,515.41 | 14,429,935.39 | 1,704,060.94 | 39.73394688 | -80.773616 |
| 13,200.00 | 89.10 | 150.00 | 6,633.54 | -3,886.51 | 5,565.41 | 14,429,848.80 | 1,704,110.94 | 39.73370873 | -80.773439 |
| 13,300.00 | 89.10 | 150.00 | 6,635.12 | -3,973.10 | 5,615.41 | 14,429,762.21 | 1,704,160.93 | 39.73347058 | -80.773262 |
| 13,400.00 | 89.10 | 150.00 | 6,636.69 | -4,059.69 | 5,665.40 | 14,429,675.62 | 1,704,210.93 | 39.73323243 | -80.773085 |
| 13,500.00 | 89.10 | 150.00 | 6,638.27 | -4,146.28 | 5,715.40 | 14,429,589.03 | 1,704,260,92 | 39.73299428 | -80.772908 |
| 13,600.00 | 89.10 | 150.00 | 6,639.85 | -4,232.87 | 5,765.40 | 14,429,502.44 | 1,704,310.92 | 39.73275613 | -80.772731 |
| 13,700.00 | 89.10 | 150.00 | 6,641.42 | -4,319.46 | 5,815.39 | 14,429,415.85 | 1,704,360.92 | 39.73251798 | -80.772554 |
| 13,800.00 | 89.10 | 150.00 | 6,643.00 | -4,406.05 | 5,865.39 | 14,429,329.26 | 1,704,410.91 | 39.73227983 | -80.772377 |
| 13,900.00 | 89.10 | 150.00 | 6,644.57 | -4,492.64 | 5,915.39 | 14,429,242.67 | 1,704,460.91 | 39.73204168 | -80.772200 |
| 14,000.00 | 89.10 | 150.00 | 6,646.15 | -4,579.23 | 5,965.38 | 14,429,156.08 | 1,704,510.91 | 39.73180353 | -80.772023 |
| 14,100.00 | 89.10 | 150.00 | 6,647.72 | -4,665.82 | 6,015.38 | 14,429,069.49 | 1,704,560.90 | 39.73156538 | -80.771846 |
| 14,200.00 | 89.10 | 150.00 | 6,649.30 | -4,752.41 | 6,065.38 | 14,428,982.90 | 1,704,610.90 | 39.73132723 | -80.771669 |
| 14,300.00 | 89.10 | 150.00 | 6,650.87 | -4,839.00 | 6,115.37 | 14,428,896.31 | 1,704,660.90 | 39.73108907 | -80.771492 |
| 14,400.00 | 89.10 | 150.00 | 6,652.45 | -4,925.60 | 6,165.37 | 14,428,809.72 | 1,704,710.89 | 39.73085092 | -80.771314 |
| 14,500.00 | 89.10 | 150.00 | 5,654.03 | -5,012.19 | 6,215.37 | 14,428,723.13 | 1,704,760.89 | 39.73061277 | -80,771137 |
| 14,600.00 | 89.10 | 150.00 | 6,655.60 | -5,098.78 | 6,265.36 | 14,428,636.54 | 1,704,810.89 | 39.73037462 | -80.770960 |
| 14,700.00 | 89,10 | 150.00 | 6,657.18 | -5,185.37 | 6,315,36 | 14,428,549.95 | 1,704,860.88 | 39,73013646 | -80.770783 |
| 14,800.00 | 89.10 | 150.00 | 6,658.75 | -5,271.96 | 6,365.36 | 14,428,463.36 | 1,704,910.88 | 39.72989831 | -80.770606 |
| 14,900.00 | 89.10 | 150.00 | 6,660.33 | -5,358.55 | 6,415.35 | 14,428,376.77 | 1,704,960.88 | 39.72966016 | -80.770429 |
| 15,000.00 | 89.10 | 150.00 | 6,661.90 | -5,445.14 | 6,465.35 | 14,428,290,18 | 1,705,010.87 | 39.72942200 | -80.770252 |
| 15,100.00 | 89.10 | 150.00 | 6,663.48 | -5,531.73 | 6,515.35 | 14,428,203.59 | 1,705,060.87 | 39,72918385 | -80.770075 |
| 15,200.00 | 89.10 | 150.00 | 6,665,06 | -5,618.32 5,704.81 | 6,565.34 | 14,428,117.00 | 1,705,110.87 | 39.72894569 | -80.769898 -80.769794 |
| 15,300.00 | 89.10 | 150.00 | 6,666.63 | -5,704.91 -5,704.50 | 6,615,34 | 14,428,030,41 | 1,705,160.86 | 39,72870754 | -80.769721 -80.769544 |
| 15,400.00 | 89.10 | 150.00 | 6,668.21 | -5,791.50 | 6,665.34 | 14,427,943.82 | 1,705,210.86 | 39.72846938 | -80.769544 |
| 15,500.00 | 89.10 | 150.00 | 6,669.78 | -5,878.09 | 6,715.33 | 14,427,857.23 | 1,705,260.85 | 39.72823123 | -80.769367 |



Planning Report - Geographic

Database: Company: Project: DB_Jul2216dt_v14
Tug Hill Operating LLC
Marshall County, West Virginia.

Site: Accettolo/Evad Pad
Well: Evad 06HM (I)
Wellbore: Original Hole
Design: rev0

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

MD Reference: GL @
North Reference: Grid
Survey Calculation Method: Minir

Well Evad 06HM (I) GL @ 1291.00ft GL @ 1291.00ft

Minimum Curvature

| Measured Depth (ft) | Inclination (°) | Azimuth | Vertical Depth (ft) | +N/-S (ft) | +E/-W (ft) | Map Northing (usft) | Map Easting (usft) | Latitude | Longitude |
|---------------------------|-----------------|---------|---------------------------|---------------|---------------|---------------------------|--------------------------|-------------|-------------|
| 15,600,00 | 89,10 | 150.00 | 6,671.36 | -5,964,68 | 6,765.33 | 14,427,770.64 | 1,705,310.85 | 39.72799307 | -80,7691905 |
| 15,700.00 | 89.10 | 150.00 | 6,672.93 | -6,051.27 | 6,815.33 | 14,427,684.05 | 1,705,360.85 | 39.72775492 | -80.7690135 |
| 15,800,00 | 89.10 | 150.00 | 6,674.51 | -6,137.88 | 6,865.32 | 14,427,597.46 | 1,705,410.84 | 39.72751676 | -80.7688364 |
| 15,900.00 | 89.10 | 150.00 | 6,676.09 | -6,224.45 | 6,915.32 | 14,427,510.87 | 1,705,460.84 | 39.72727861 | -80.7686594 |
| 16,000,00 | 89,10 | 150.00 | 6,677.66 | -6,311.04 | 6,965.32 | 14,427,424.28 | 1,705,510.84 | 39.72704045 | -80.7684824 |
| 16,100.00 | 89.10 | 150.00 | 6,679.24 | -6,397.63 | 7,015.31 | 14,427,337.69 | 1,705,560.83 | 39.72680229 | -80.7683054 |
| 16,200.00 | 89.10 | 150.00 | 6,680.81 | -6,484.22 | 7,065.31 | 14,427,251.10 | 1,705,610.83 | 39.72656413 | -80.7681283 |
| 16,300.00 | 89.10 | 150.00 | 6,682.39 | -6,570.81 | 7,115.31 | 14,427,164.51 | 1,705,660.83 | 39.72632598 | -80.7679513 |
| 16,400.00 | 89.10 | 150.00 | 6,683.96 | -6,657.40 | 7,165.30 | 14,427,077.92 | 1,705,710.82 | 39.72608782 | -80.7677743 |
| 16,500.00 | 89.10 | 150.00 | 6,685.54 | -6,743.99 | 7,215.30 | 14,426,991.33 | 1,705,760.82 | 39.72584966 | -80.7675973 |
| 16,592.69 | 89.10 | 150.00 | 6,687.00 | -6,824.25 | 7,261.64 | 14,426,911.06 | 1,705,807.16 | 39.72562890 | -80.7674332 |

| Design Targets | | | | | | | | | |
|--|---------------|----------|-------------|---------------|---------------|--------------------|-------------------|-------------|--------------|
| Target Name - hit/miss target - Shape | Dip Angle | Dip Dir. | TVD (ft) | +N/-S (ft) | +E/-W (ft) | Northing (usft) | Easting (usft) | Latitude | Longitude |
| Evad-6HM LP - plan hits target ce - Point | 0.00 enter | 0.00 | 6,546.00 | 924.34 | 2,787.66 | 14,434,659.64 | 1,701,333.19 | 39.74693960 | -80.78327857 |
| Evad-6HM BHL - plan hits target ce - Point | 0.00 enter | 0.00 | 6,687.00 | -6,824.25 | 7,261.64 | 14,426,911.06 | 1,705,807.16 | 39.72562890 | -80.76743324 |

| Measured | Vertical | Local Coor | dinates | | |
|---------------|---------------|---------------|---------------|---------------------------------|--|
| Depth (ft) | Depth (ft) | +N/-S (ft) | +E/-W (ft) | Comment | |
| 1,100.00 | 1,100.00 | 0.00 | 0.00 | KOP Begin 2°/100' build | |
| 2,695.95 | 2,614.67 | 212.49 | 377.47 | Begin 31.92° tangent | |
| 6,755.08 | 6,060.04 | 1,265.27 | 2,247.65 | Begin 10°/100' build/turn | |
| 7,644.11 | 6,546.00 | 924.34 | 2,787.66 | Begin 89.10" lateral | |
| 16,592.69 | 6,687.00 | -6,824.25 | 7,261.64 | PBHL/TD 16592.69 MD/6687.00 TVD | |

RECEIVED
Office of Oil and Gas

JUN 1 8 2018

WV Department of Environmental Protection

| API | Number | 47 - | 051 | - |
|-----|--------|------|-----|---|
| | | | | |

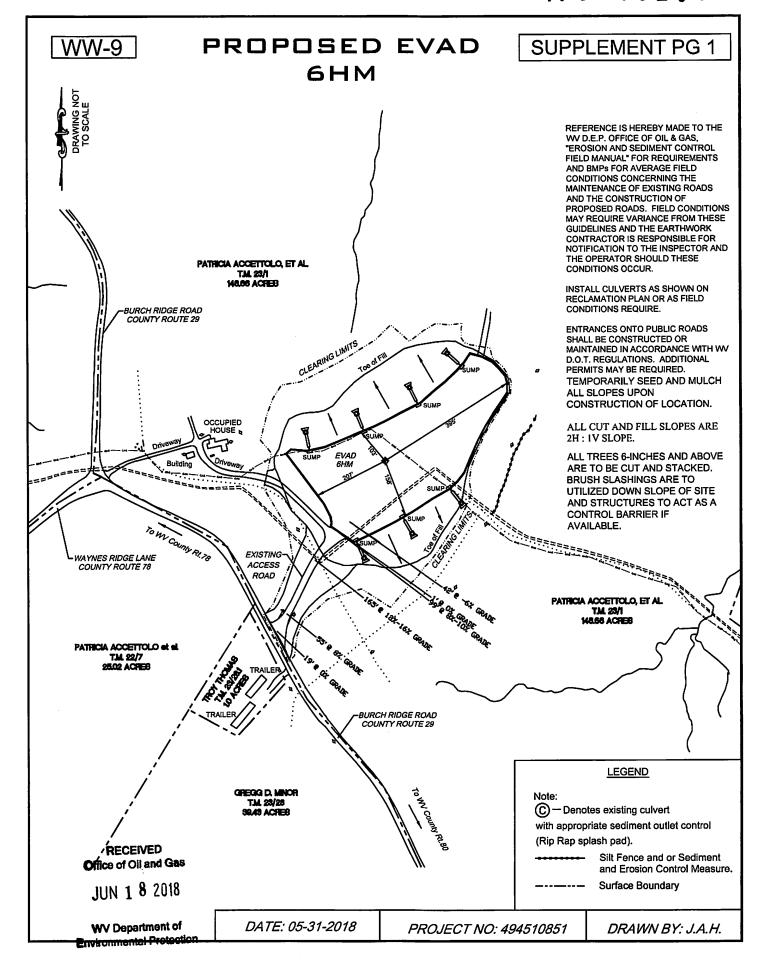
Operator's Well No. Evad 6HM

STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION OFFICE OF OIL AND GAS 47 0 5 1020 6

FLUIDS/ CUTTINGS DISPOSAL & RECLAMATION PLAN

| Operator Name Tug Hill Operating, LLC | OP Code 494510851 |
|---|---|
| Watershed (HUC 10) Fish Creek | Quadrangle New Martinsville 7.5' |
| Do you anticipate using more than 5,000 bbls of water to compl | ete the proposed well work? Yes Vo |
| Will a pit be used? Yes No | |
| If so, please describe anticipated pit waste:AST Tanks v | with proper containment will be used for staging fresh water for frac and flow back water |
| Will a synthetic liner be used in the pit? Yes | No If so, what ml.? AST Tanks will be used with proper certains. |
| Proposed Disposal Method For Treated Pit Wastes: | , |
| Land Application | ✓ |
| Underground Injection (UIC Permit Reuse (at API Number | Number_UIC 2459, UIC 965, UIC 359, UIC 2D0732540, UIC 2D0732523 |
| Off Site Disposal (Supply form WW Other (Explain | 7-9 for disposal location) |
| | |
| Will closed loop system be used? If so, describe: Yes - For Ve | rtical and Horizontal Drilling |
| Drilling medium anticipated for this well (vertical and horizontal | al)? Air, freshwater, oil based, etc. Air for vertical / Oil for Horizontal |
| -If oil based, what type? Synthetic, petroleum, etc. Sy | enthetic Oil Base |
| Additives to be used in drilling medium? Barite for weight | |
| Drill cuttings disposal method? Leave in pit, landfill, removed | offsite, etc. All drill cuttings to be disposed of in a Landfill |
| -If left in pit and plan to solidify what medium will be | |
| -Landfill or offsite name/permit number? Wetzel County Sents | ary Landfil (SWF-1021 / WVD109185) and Westmoreland Sanitary Landfill LLC (SAN1405 / PA DEP EC#1386426) |
| | Gas of any load of drill cuttings or associated waste rejected at any within 24 hours of rejection and the permittee shall also disclose |
| on August 1, 2005, by the Office of Oil and Gas of the West Vir provisions of the permit are enforceable by law. Violations of law or regulation can lead to enforcement action. I certify under penalty of law that I have personally application form and all attachments thereto and that, based obtaining the information, I believe that the information is to penalties for submitting false information, including the possibility Company Official Signature Company Official Title Vice President Geoscience | Shipon College Cold |
| Subscribed and sworn before me this day of | NOTARIAL SEAL |
| MUMMEN H Stay | Notary Public MAUREEN A STEAD NOTARY Public Notary |
| My commission expires 1/28/19 | CECIL TWP, WASHINGTON COUNTY My Commission Expires Jan 28, 2019 |

| roposed Revegetation Treatmen | nt: Acres Disturbed 8 | .45 Prevegetation | 76.05 10206 |
|--|---|--|---|
| Lime 3 | _ Tons/acre or to correc | | |
| Fertilizer type 10-20-2 | 20 | | |
| Fertilizer amount 500 | | lbs/acre | |
| Mulch 2.5 | | _Tons/acre | |
| | | Seed Mixtures | |
| Тетр | orary | Perma | nent |
| Seed Type Annual Ryegrass | lbs/acre 40 | Seed Type Orchard Grass | lbs/acre 12 |
| Spring Oats | 96 | Ladino | 3 |
| | | White Clover | 2 |
| Maps(s) of road, location, pit and provided). If water from the pit vacreage, of the land application a | will be land applied, inc area. | d application (unless engineered plans included under dimensions (L \times W \times D) of the pit, and | ding this info have been dimensions (L x W), and area |
| provided). If water from the pit vacreage, of the land application a | will be land applied, inc area. 7.5' topographic sheet. | clude dimensions (L x W x D) of the pit, and | ding this info have been dimensions (L x W), and area |
| Maps(s) of road, location, pit and provided). If water from the pit vacreage, of the land application a Photocopied section of involved | will be land applied, inc area. | clude dimensions (L x W x D) of the pit, and | ding this info have been dimensions (L x W), and area |
| Maps(s) of road, location, pit and provided). If water from the pit vacceage, of the land application a Photocopied section of involved Plan Approved by: | will be land applied, inc area. 7.5' topographic sheet. | clude dimensions (L x W x D) of the pit, and | ding this info have been dimensions (L x W), and area |
| Maps(s) of road, location, pit and provided). If water from the pit vacreage, of the land application a Photocopied section of involved Plan Approved by: | will be land applied, inc area. 7.5' topographic sheet. | clude dimensions (L x W x D) of the pit, and | ding this info have been dimensions (L x W), and area |
| Maps(s) of road, location, pit and provided). If water from the pit vacreage, of the land application a Photocopied section of involved Plan Approved by: | will be land applied, inc area. 7.5' topographic sheet. | clude dimensions (L x W x D) of the pit, and | I dimensions (L x W), and area |
| Maps(s) of road, location, pit and provided). If water from the pit vacceage, of the land application a Photocopied section of involved Plan Approved by: | will be land applied, inc area. 7.5' topographic sheet. | clude dimensions (L x W x D) of the pit, and | I dimensions (L x W), and area |
| Maps(s) of road, location, pit and provided). If water from the pit vacereage, of the land application a Photocopied section of involved Plan Approved by: | will be land applied, inc area. 7.5' topographic sheet. | clude dimensions (L x W x D) of the pit, and | ding this info have been dimensions (L x W), and area |





Well Site Safety Plan Tug Hill Operating, LLC

Well Name: Evad 6HM

Pad Location: Accetollo Pad

Marshall County, West Virginia

UTM (meters), NAD83, Zone 17:

Northing: 4,399,411.32 Easting: 517,717.72

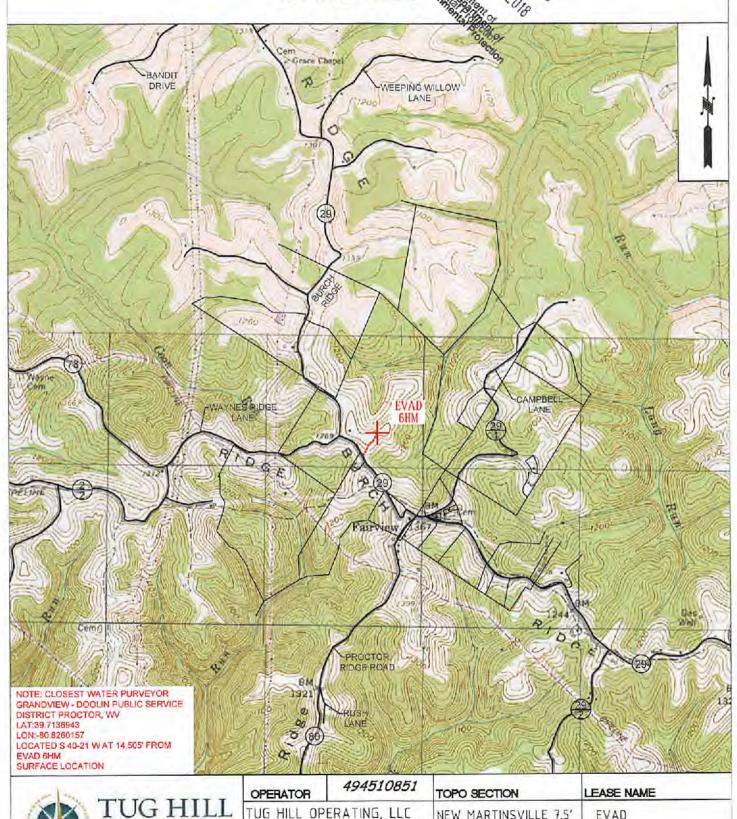
June 2018



WW-9

PROPOSED WING STORES

SUPPLEMENT PG 2



TUG HILL OPERATING, LLC

380 SOUTHPOINTE BLVD SUITE 200

CANONSBURG, PA 15317

OPERATING

NEW MARTINSVILLE 7.5'

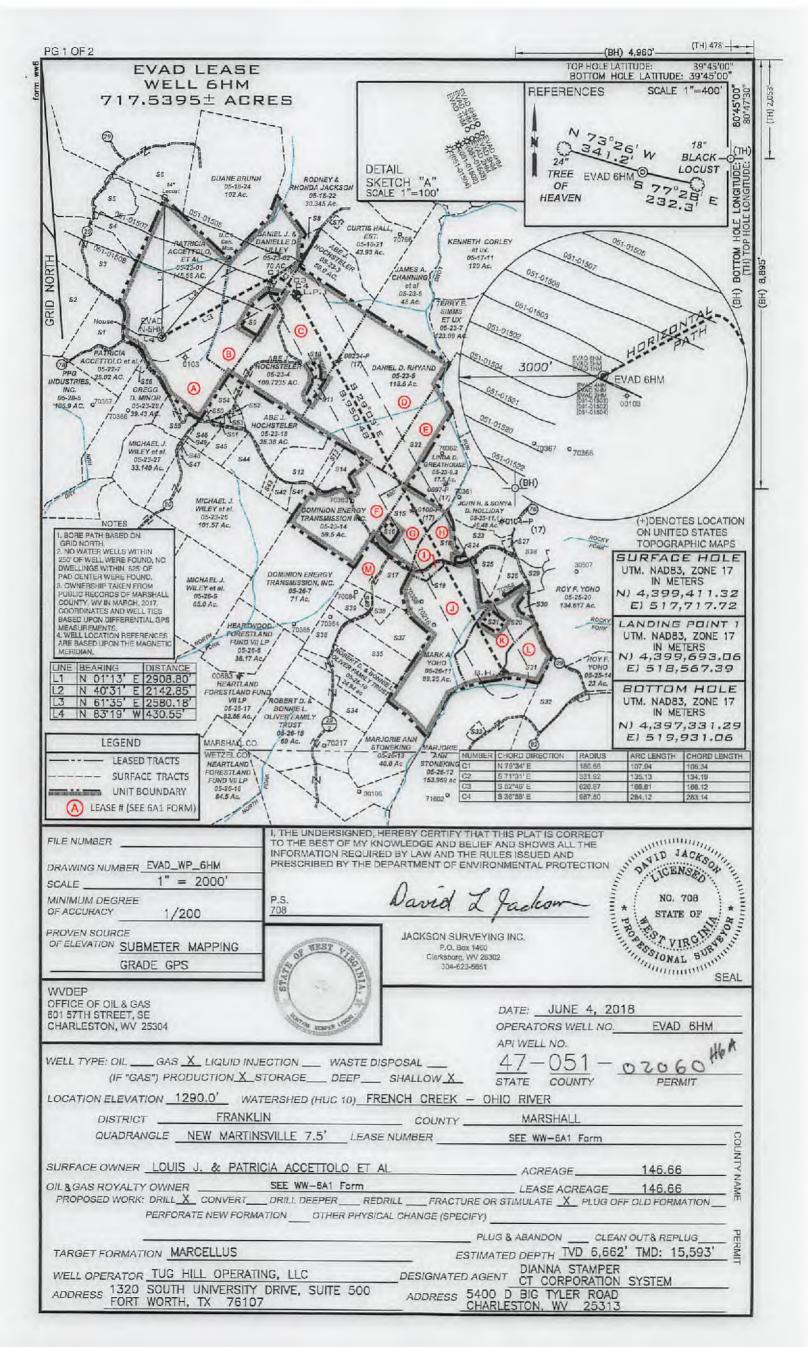
1" = 2000'

SCALE:

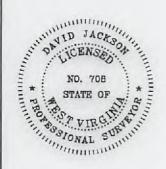
EVAD

DATE: 05-31-2018

DATE



| Number | TAX MAP -PARCEL | ADJOINER OWNER | ACRES |
|------------|------------------------|---|--------|
| S1 | 05-22-7.1 | The Exploration II LLC & Antinum Marcellus I | 20.68 |
| | | LLC | |
| S2 | 05-22-8 | PPG Industries Inc. | 48.44 |
| S3 | 05-22-6 | CNX RCPC LLC | 64.7 |
| 54 | 05-22-5 | CNX RCPC LLC | 134.42 |
| S5 | 05-22-5.1 | Williams Ohio Valley Midstream LLC | 12.875 |
| 56 | 05-19-18 | Mark E. Yoho Et Ux | 55.948 |
| S7 | 05-18-21.2 | David P. Lassan Et Ux - Life | 1.0 |
| S8 | 05-23-2.1 | William L. & Janice M. Wayne | 2.364 |
| S9 | 05-23-2.2 | Jessica N. & Andrew L. Jones | 7.636 |
| S10 | 05-23-4.2 | James S. & Jeanne B. Hall | 1.169 |
| S11 | 05-23-4.1 | James S. & Jeanna B. Hall | 2.1575 |
| S12 | 05-23-16 | Roy Friend Yoho Sr. | 18.03 |
| S13 | 05-23-16.1 | Doanld B. Henry | 1.97 |
| S14 | 05-23-15 | Henry Virginia Ethel Est. | 15.5 |
| S15 | 05-23-9.2 | Linda D. Greathouse | 25.58 |
| S16 | 05-23-9.4 | Jackson R. Davis Sr. & Deanna L. Davis | 2.087 |
| S17 | 05-23-9.1 | John W. Van Orden Et Ux | 23.376 |
| S18 | 05-23-13 | Linda D. Greathouse | 14.24 |
| S19 | 05-23-12 | Mark A. Yoho | 3.05 |
| 520 | 05-25-18 | Joseph Johnson Et Ux - Life | 37.746 |
| S21 | 05-25-18.1 | Pamela Joan Ferrel Et Vir | 2.491 |
| S22 | 05-23-8 | Carl David & Suzanne L. Guseman | 29.5 |
| S23 | 05-23-18 | Abe J. Hochstetter | 35.382 |
| S24 | 05-23-13.1 | James R. & Pamela J. Ferrel | 0.7625 |
| S25 | 05-23-13.1 | Colin R. Yoho | 11.29 |
| S26 | 05-23-11.5 | | |
| S27 | 05-23-11.2 | Zachary R. Stevey | 9.25 |
| | | Evelyn Hudson | 1.154 |
| S28 S29 | 05-23-11 05-25-20.3 | Roy F. Yoho | 5.28 |
| | | James A. & Jo C. Estep | 4.49 |
| S30 | 05-25-19 | Joseph Johnson Et Ux - Life | 1.973 |
| S31 | 05-25-17 | Emily Jones Irrevocable Trust | 22.79 |
| 532 | 05-25-16 | Emily Jones Irrevocable Trust | 23.5 |
| S33 | 05-26-12.1 | Alvin F. Stoneking Jr. & Kristen R. Stoneking | 2.011 |
| S34 | 05-26-14 | Robert D. & Bonnie L. Oliver Family Trust | 27.56 |
| S35 | 05-26-9 | Robert D. & Bonnie L. Oliver Family Trust | 21.75 |
| S36 | 05-26-23 | Richard Joseph Otte Et Ux | 11.34 |
| S37 | 05-26-8 | Richard Joseph Otte Et Ux | 18.27 |
| S38 | 05-26-20 | Doanld Lee Anderson Et Al | 4.2 |
| S39 | 05-26-22 | Richard Joseph Otte Et Ux | 8.3 |
| S40 | 05-26-21 | Richard Jospeh Otte Et Ux | 1.25 |
| 541 | 05-23-17.3 | William & Catherine Flewelling | 5.018 |
| S42 | 05-23-17 | Thomas E. & Tammy Brown | 4.62 |
| 543 | 05-23-17.4 | Tammy D. Meadows | 2.605 |
| S44 | 05-23-17.2 | | 14.92 |
| S45 | 05-23-17.1 | Curtis E. Hall Et Ux | 10.05 |
| 546 | 05-23-22 | Daniel D. Rhyand & Laurel R. Greene | 6.25 |
| S47 | 05-23-25 | Arthur A. Wiley | 0.43 |
| S48 | 05-23-24 | Michael J. Wiley Et Al | 0.25 |
| S49 | 05-23-23 | Michael J. Wiley Et Al | 1.0 |
| S50 | 05-23-29 | James Wiley | 0.25 |
| S51 | 05-23-21 | Mark A. & Mark E. Yoho | 0.588 |
| S52 | 05-23-19 | Doty Cemetery | 1.0 |
| S53 | 05-23-20 | Christian Church | 0.17 |
| S54 | 05-23-18.1 | Mark A. Yoho | 7.8 |
| S55 | 05-23-28.2 | | 10.8 |
| S56 | 05-23-28.1 | Troy W. & Erin M. Thomas | 1.0 |



P.S. David I Jackson



OPERATOR'S

WELL#: EVAD 6HM

DISTRICT: Franklin

COUNTY: Marshall

STATE: WV

WELL PLAT

PAGE 2 OF 2

DATE: 06/04/2018

| Operator's | Well No. | Evad 6HM |
|------------|----------|-------------|
| Operator s | Well No. | Lidd of his |

INFORMATION SUPPLIED UNDER WEST VIRGINIA CODE Chapter 22, Article 6A, Section 5(a)(5) IN LIEU OF FILING LEASE(S) AND OTHER CONTINUING CONTRACT(S)

Under the oath required to make the verification on page 1 of this Notice and Application, I depose and say that I am the person who signed the Notice and Application for the Applicant, and that –

- (1) the tract of land is the same tract described in this Application, partly or wholly depicted in the accompanying plat, and described in the Construction and Reclamation Plan;
- (2) the parties and recordation data (if recorded) for lease(s) or other continuing contract(s) by which the Applicant claims the right to extract, produce or market the oil or gas are as follows:

| Lease Name or | Granton Lasson ata | Granton Lagger ata | D overlty: | Book/Page |
|---------------|-----------------------|-----------------------|------------|-----------|
| Number | Grantor, Lessor, etc. | Grantee, Lessee, etc. | Royalty | BOOKTage |

*See attached pages

Office of Oil and Gas

JUN I 8 2018

Environmental Protection

Acknowledgement of Possible Permitting/Approval In Addition to the Office of Oil and Gas

The permit applicant for the proposed well work addressed in this application hereby acknowledges the possibility of the need for permits and/or approvals from local, state, or federal entities in addition to the DEP, Office of Oil and Gas, including but not limited to the following:

- WV Division of Water and Waste Management
- WV Division of Natural Resources WV Division of Highways
- · U.S. Army Corps of Engineers
- · U.S. Fish and Wildlife Service
- County Floodplain Coordinator

The applicant further acknowledges that any Office of Oil and Gas permit in no way overrides, replaces, or nullifies the need for other permits/approvals that may be necessary and further affirms that all needed permits/approvals should be acquired from the appropriate authority before the affected activity is initiated.

Well Operator: Tug Hill Operating, LLC

By: Amy L. Miller Will Description

Its: Permit Specialist - Appalachia

Operator's Well No. Evad - 6HM

| Lease No. | Tags | Parcel | Lessor | Lessee | Royalty | Book | Page | Assignment | Assignment | Assignment | Assignment | Assignment | Assignment | Assignment |
|-----------|------|---------|-----------------------|--------------------------|---------|------|------|------------|------------|------------|------------|------------|---|--|
| | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | 21/41 Gastar Exploration | 36/9 Gastar Exploration. |
| | | | LOUIS J ACCETTOLO AND | GASTAR EXPLORATION USA, | | | | | | | | | USA Inc to Gastar | Inc. to TH Exploration II, |
| 10*14129 | Α | 5-23-1 | PATRICIA | INC | 1/8+ | 703 | 283 | NA | NA | NA | NA | NA | Exploration, Inc | LTC |
| | | | | | | | | | | , | | | | |
| | | | | | | | | | | | | | 24/44 5 - 11 - 15 - 15 - 15 - 15 | 05/00 . 5 |
| | | | HOWARD N WAYNE SR AND | GASTAR EXPLORATION USA, | | | | | | | | | 21/41 Gastar Exploration USA Inc to Gastar | Inc. to TH Exploration II, |
| 10*14022 | В | 5-23-2 | WIFE | INC | 1/8+ | 665 | 384 | NA | NA | NA | NA | NA | Exploration, Inc | LLC |
| | | | | | | | | | | | | | | |
| 1 | ł | ŀ | | | | | | | | | | | | |
| | | | | CACTAR CVRI ORATION LICA | | | , | | | | | | 21/41 Gastar Exploration USA Inc to Gastar | 36/9 Gastar Exploration, Inc. to TH Exploration II, |
| 10*14784 | _ ا | 5-23-4 | ABE J. HOCHSTETLER | GASTAR EXPLORATION USA, | 1/8+ | 797 | 184 | NA | NA . | NA | NA | NA | Exploration, Inc | LLC |
| 20 24701 | Ť | | | | | | | | | | | | <u> </u> | |
| | | | | | ŀ | | | | | | | | | |
| | | | | | | | | | | | | | 21/41 Gastar Exploration | |
| | _ | 4 | FAVE CANADDELL | GASTAR EXPLORATION USA, | 1/8+ | 805 | 91 | NA . | NA . | NA . | NA | NA | USA Inc to Gastar Exploration, Inc | Inc. to TH Exploration II, |
| 10*14846 | - | 5-23-4 | FAYE CAMPBELL | INC | 1/8+ | 803 | 91 | INA | INA | IVA | INA | INA | Exploration, Inc | |
| | | | | | 1 | | | | | | | | | |
| | | | | | | | | | | | | | 21/41 Gastar Exploration | 36/9 Gastar Exploration, |
| | | | | GASTAR EXPLORATION USA, | | | | | | | | | USA Inc to Gastar | Inc. to TH Exploration II, |
| 10*14849 | C | 5-23-4 | DAVID GUSTELY | INC | 1/8+ | 806 | 265 | NA | NA | NA | NA | NA . | Exploration, Inc | rrc |
| | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | 21/41 Gastar Exploration | 36/9 Gastar Exploration, |
| | | | | GASTAR EXPLORATION USA, | | | | | | | | | USA Inc to Gastar | Inc. to TH Exploration II, |
| 10*14850 | С | 5-23-4 | CLARENCE EMERY | INC | 1/8+ | 805 | 94 | NA | NA | NA | NA | NA | Exploration, Inc | rrc |
| | | | | | | | | | | | | | | |
| | | | 1 | | | | | | | | | | 21 /41 Cooker Suntage !! | 25/0 5 |
| 1 | | | | GASTAR EXPLORATION USA, | | | | | | | | | 21/41 Gastar Exploration USA Inc to Gastar | 36/9 Gastar Exploration, Inc. to TH Exploration II, |
| 10*14851 | c | 5-23-4 | JOHN OBLOY | INC | 1/8+ | 806 | 262 | NA | NA | NA | NA | NA | Exploration, Inc | LLC |
| | | | | | | | | | | | | | | |
| 1 | | | | | | | | | | | | | 21/41 destar Exploration Gastar Exporation, Inc | |
| | | | | GACTAR EVELORATION: 1554 | | | | | | | | | 21/41 Pastar Exploration | 36/9 Gastar Exploration, |
| 10*14852 | ے ا | 5-23-4 | JOHN A. EMERY | GASTAR EXPLORATION USA, | 1/8+ | 806 | 259 | NA . | NA . | NA | NA | NA NA | Examinate Gastar | Inc. to TH Exploration II, |
| 10 14032 | ٠, - | 13.53.4 | Political Efficient | 1 | 1 -/ -/ | | | 12.7 | J | 1 | 1 | TO OFF | OC. | |

8105 8 L WUL

4705102060 Operator's Well No. Evad - 6HM

| | | | | | | | | | | | 1 | <u> </u> | 1 | T |
|----------|---|--------|----------------------|-------------------------|------|------|-----|------|------|---|---|----------|---|---|
| 10*14853 | с | 5-23-4 | DURWOOD WRIGHT | GASTAR EXPLORATION USA, | 1/8+ | 809 | 507 | NA | NA | NA | NA | NA | 21/41 Gastar Exploration USA Inc to Gastar Exploration, Inc | 36/9 Gastar Exploration, Inc. to TH Exploration II, LLC |
| 10*14854 | С | 5-23-4 | CATHERINE HUMMEL | GASTAR EXPLORATION USA, | 1/8+ | 809 | 512 | NA . | NA | NA | NA | NA | 21/41 Gastar Exploration USA Inc to Gastar Exploration, Inc | 36/9 Gastar Exploration, Inc. to TH Exploration II, LLC |
| 10*14855 | с | 5-23-4 | JAMES D. DRAKE | GASTAR EXPLORATION USA, | 1/8+ | 808_ | 445 | NA | NA | NA | NA | NA | 21/41 Gastar Exploration USA Inc to Gastar Exploration, Inc | 36/9 Gastar Exploration, Inc. to TH Exploration II, LLC |
| 10*14856 | С | 5-23-4 | GATHA CHAMBERS | GASTAR EXPLORATION USA, | 1/8+ | 808 | 454 | NA . | NA . | NA | NA | NA T | 21/41 Gastar Exploration USA Inc to Gastar Exploration, Inc | 36/9 Gastar Exploration, Inc. to TH Exploration II, LLC |
| 10*14860 | С | 5-23-4 | KATHLEEN ROBERTSON | GASTAR EXPLORATION USA, | 1/8+ | 809 | 522 | NA | NA | NA | NA | NA | 21/41 Gastar Exploration USA Inc to Gastar Exploration, Inc | 36/9 Gastar Exploration, Inc. to TH Exploration II, LLC |
| 10*14861 | С | 5-23-4 | NANCY WHITLATCH | GASTAR EXPLORATION USA, | 1/8+ | 809 | 526 | NA | NA | NA | NA | NA | 21/41 Gastar Exploration USA Inc to Gastar Exploration, Inc | 36/9 Gastar Exploration, Inc. to TH Exploration II, LLC |
| 10*14862 | С | 5-23-4 | ANN GUSTELY | GASTAR EXPLORATION USA, | 1/8+ | 809 | 568 | NA | NA | NA | NA | NA | 21/41 Gastar Exploration USA Inc to Gastar Exploration, Inc | 36/9 Gastar Exploration, Inc. to TH Exploration II, LLC |
| 10*14863 | С | 5-23-4 | WILLIAM DAVIS CULLUM | GASTAR EXPLORATION USA, | 1/8+ | 809 | 561 | NA | NA | NA | NA AN | NA | 21/41 Gastar Exploration USA Inc to Gastar Exploration, Inc | 36/9 Gastar Exploration, Inc. to TH Exploration II, LLC |
| 10*14864 | | | CAROLYN DURWAY | GASTAR EXPLORATION USA, | 1/8+ | 810 | 330 | NA | NA | notice no notice no | MS & I NUL Surveyend VW Siemennend VW | NA | 21/41 Gastar Exploration USA Inc to Gastar Exploration, Inc | 36/9 Gastar Exploration, Inc. to TH Exploration II, LLC |

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| 10*14865 | С | 5-23-4 | VICKY STRAUSS | GASTAR EXPLORATION USA, | 1/8+ | 810 | 325 | NA | NA | NA | NA | NA | 21/41 Gastar Exploration USA Inc to Gastar Exploration, Inc | 36/9 Gastar Exploration, Inc. to TH Exploration II, LLC |
| 10*14866 | с | 5-23-4 | GARY CARMICHAEL | GASTAR EXPLORATION USA, | 1/8+ | 810 | 316 | NA | NA | NA | NA | NA | 21/41 Gastar Exploration USA Inc to Gastar Exploration, Inc | 36/9 Gastar Exploration, Inc. to TH Exploration II, LLC |
| 10*14868 | С | 5-23-4 | WOODROW CAMPBELL, JR. | GASTAR EXPLORATION USA, | 1/8+ | 813 | 454 | NA . | NA . | NA | NA | NA | 21/41 Gastar Exploration USA Inc to Gastar Exploration, Inc | 36/9 Gastar Exploration, Inc. to TH Exploration II, LLC |
| 10*14869 | С | 5-23-4 | RALPH VAUGHN TAYLOR | GASTAR EXPLORATION USA, | 1/8+ | 813 | 561 | NA . | NA | NA I | NA | NA . | 21/41 Gastar Exploration USA Inc to Gastar Exploration, Inc | 36/9 Gastar Exploration, Inc. to TH Exploration II, LLC |
| 10*14870 | с | 5-23-4 | DAVID CARMICHAEL | GASTAR EXPLORATION USA, | 1/8+ | 816 | 16 | NA | NA | NA | NA | NA | 21/41 Gastar Exploration USA Inc to Gastar Exploration, Inc | 36/9 Gastar Exploration, Inc. to TH Exploration II, LLC |
| 10*14871 | С | 5-23-4 | BETTY PYSELL | GASTAR EXPLORATION USA, | 1/8+ | 816 | 348 | NA | NA | NA | NA | NA | 21/41 Gastar Exploration USA Inc to Gastar Exploration, Inc | 36/9 Gastar Exploration, Inc. to TH Exploration II, LLC |
| 10*14872 | С | 5-23-4 | DWG OIL AND GAS ACQUISITIONS, | GASTAR EXPLORATION USA, | 1/8+ | 817 | 312 | NA . | NA | NA | NA | NA | 21/41 Gastar Exploration USA Inc to Gastar Exploration, Inc | 36/9 Gastar Exploration, Inc. to TH Exploration II, LLC |
| 10*14873 | С | 5-23-4 | RAYMOND MILLER | GASTAR EXPLORATION USA, | 1/8+ | 821 | 44 | NA | NA SPU | NA | NA | NA | 21/41 Gastar Exploration USA Inc to Gastar Exploration, Inc | 36/9 Gastar Exploration, Inc. to TH Exploration II, LLC |
| 10*14874 | С | 5-23-4 | RICHARD MILLER | GASTAR EXPLORATION INC | 1/8+ | 822 | 260 | NA | MA NA | 8 2 | NA | NA | NA | 36/9 Gastar Exploration, Inc. to TH Exploration II, LLC |

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|----------|----|--------|----------------------|------------------------|------|-----|-----|---------------|--------------------------|----|--------|----|----|---|
| 10*14875 | с | 5-23-4 | DAVID DRAKE | GASTAR EXPLORATION INC | 1/8+ | 827 | 273 | NA | NA | NA | NA | NA | NA | 36/9 Gastar Exploration, Inc. to TH Exploration II, LLC |
| 10*14876 | С | 5-23-4 | SHIRLEY LARGENT | GASTAR EXPLORATION INC | 1/8+ | 827 | 228 | NA | NA | NA | NA | NA | NA | 36/9 Gastar Exploration, Inc. to TH Exploration II, LLC |
| 10*14877 | С | 5-23-4 | GARY OBLOY | GASTAR EXPLORATION INC | 1/8+ | 836 | 112 | NA | NA | NA | NA | NA | NA | 36/9 Gastar Exploration, inc. to TH Exploration II, LLC |
| 10*14878 | | | ARTHUR BRUCE COULTER | GASTAR EXPLORATION INC | 1/8+ | 839 | 519 | NA | NA | NA | NA | NA | NA | 36/9 Gastar Exploration, Inc. to TH Exploration II, |
| | | | | | · | | | NA NA | NA NA | NA | | NA | NA | 36/9 Gastar Exploration, Inc. to TH Exploration II, LLC |
| 10*14879 | | | THERESA RINE | GASTAR EXPLORATION INC | 1/8+ | 840 | 162 | | | | | | | 36/9 Gastar Exploration, Inc. to TH Exploration II, |
| 10*14880 | С | 5-23-4 | IRIS LUCAS | GASTAR EXPLORATION INC | 1/8+ | 849 | 545 | NA . | NA | NA | NA | NA | NA | 36/9 Gastar Exploration, Inc. to TH Exploration II, |
| 10*14881 | С | 5-23-4 | MARY WHITLATCH | GASTAR EXPLORATION INC | 1/8+ | 849 | 548 | NA | NA | NA | NA | NA | NA | 36/9 Gastar Exploration, Inc. to TH Exploration II, |
| 10*14882 | с | 5-23-4 | GARY RINE | GASTAR EXPLORATION INC | 1/8+ | 849 | 551 | NA UORDINALIO | My 8 I NUL Innepad VW | NA | NA | NA | NA | LLC 36/9 Gastar Exploration, |
| 10*14883 | С | 5-23-4 | PAUL WISE | GASTAR EXPLORATION INC | 1/8+ | 852 | 252 | NA Q' | My 8 1 WILL | NA | NA | NA | NA | Inc. to TH Exploration II, LLC |

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|----------|---|--------|-------------------------|------------------------|------|-----|------------|-------|-----------------------|---------|----------|-------|-------|---|
| 10*14884 | С | 5-23-4 | RENEE HAGERTY | GASTAR EXPLORATION INC | 1/8+ | 852 | 255 | NA | NA | NA | NA | NA | NA | 36/9 Gastar Exploration, Inc. to TH Exploration II, LLC |
| 10*14885 | с | 5-23-4 | HOWARD RINE | GASTAR EXPLORATION INC | 1/8+ | 854 | 601 | NA | NA | NA | NA | NA . | NA | 36/9 Gastar Exploration, Inc. to TH Exploration II, LLC |
| 10*14886 | С | 5-23-4 | JODI YOHO | GASTAR EXPLORATION INC | 1/8+ | 854 | 604 | NA | NA | NA | NA . | NA . | NA | 36/9 Gastar Exploration, Inc. to TH Exploration II, LLC |
| 10*14887 | С | 5-23-4 | CHRISTINA ROBERTS | GASTAR EXPLORATION INC | 1/8+ | 867 | 392 | NA | NA | NA | NA | NA | NA | 36/9 Gastar Exploration, Inc. to TH Exploration II, LLC |
| 10*14888 | С | 5-23-4 | DARLENE BUTLER | GASTAR EXPLORATION INC | 1/8+ | 867 | 395 | NA | NA | NA | NA | NA | NA | 36/9 Gastar Exploration, Inc. to TH Exploration II, LLC |
| 10*14889 | | 5-23-4 | HAROLD YOHO | GASTAR EXPLORATION INC | 1/8+ | 870 | 37 | NA | NA | NA | NA | NA | NA | 36/9 Gastar Exploration, Inc. to TH Exploration II, LLC |
| | | | HENRY MALONE JR | GASTAR EXPLORATION INC | 1/8+ | 870 | 40 | NA | NA | NA | NA | NA | NA | 36/9 Gastar Exploration, Inc. to TH Exploration II, LLC |
| 10*14890 | | 5-23-4 | NANCY F FYE AND STEPHEN | | | | | | | | | | | 36/9 Gastar Exploration, Inc. to TH Exploration II, |
| 10*14891 | | | GASTON FAMILY | TH EXPLORATION, LLC | 1/8+ | 959 | 606 502 | NA NA | NA HORZEGOLI ERWEUTON | W. Como | NA NA | NA NA | NA NA | NA NA |

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| 10*17145 | С | 5-23-4 | JAMES J. CAMPBELL BETTY J. CAMPBELL | CHESAPEAKE APPALACHIA LLC | 1/8+ | 685 | 458 | NA . | NA | NA | NA | NA | 23/127 Chesapeake Appalachia, LLC to Statoil USA Onshore Properties, Inc | Onshore Properties Inc. to TH Exploration, LLC |
| 10*17146 | С | 5-23-4 | CAROLYN CAMPBELL BRITTON ROBERT C. BRITTON | CHESAPEAKE APPALACHIA | 1/8+ | 685 | 464 | NA | NA | NA | NA | NA | Appalachia, LLC to Statoil USA Onshore Properties, Inc | Onshore Properties Inc. to TH Exploration, LLC |
| 10*17147 | | | JOANN J. PARSONS GARY D. PARSONS | CHESAPEAKE APPALACHIA | 1/8+ | 685 | 470 | NA | NA | NA | NA | NA | 23/127 Chesapeake Appalachia, LLC to Statoil USA Onshore Properties, Inc | 41/238 Statoil USA Onshore Properties Inc. to TH Exploration, LLC |
| 10*17148 | С | 5-23-4 | DONALD E. CAMPBELL JUNE L. CAMPBELL | CHESAPEAKE APPALACHIA LLC | 1/8+ | 685 | 476 | NA | NA | NA | NA | NA | 23/127 Chesapeake Appalachia, LLC to Statoil USA Onshore Properties, Inc | 41/238 Statoil USA Onshore Properties Inc. to TH Exploration, LLC |
| 10*17149 | С | 5-23-4 | WANDA M. BLAKE | CHESAPEAKE APPALACHIA LLC | 1/8+ | 685 | 482 | NA | NA | NA | NA | NA | 23/127 Chesapeake Appalachia, LLC to Statoil USA Onshore Properties, Inc | 41/238 Statoil USA Onshore Properties Inc. to TH Exploration, LLC |
| 10*17150 | С | 5-23-4 | IDA L. CAMPBELL | CHESAPEAKE APPALACHIA | 1/8+ | 685 | 488 | NA | NA | NA | NA · | NA | 1 '' | 41/238 Statoil USA Onshore Properties Inc. to TH Exploration, LLC |
| | | | | | | | | | | | | | | |
| 10*17502 | c | 5-23-4 | PATRICIA E GUSTELY | TH EXPLORATION, LLC | 1/8+ | 942 | 334 | NA | NA | NA | NA | NA | NA | NA |
| 10*17532 | с | 5-23-4 | DONALD S BOBOVNIK AND DOLORES J BOBOVNIK | TH EXPLORATION, LLC | 1/8+ | 942 | 346 | NA | NA OILS OF THE WAS STANDED TO SEE | NA | NA | NA | NA | NA |
| 10*17535 | С | 5-23-4 | RONALD L MAYER AND DEBRA A MAYER | TH EXPLORATION, LLC | 1/8+ | 929 | 580 | NA NA | NA SICS OF INTEREST | NA NA | NA | NA | NA | NA |

| | | | | | | | | | | | | | 47051 | 02060 |
|----------|---------|--------|---------------------------------------|---------------------|------|-----|-----|-------|--------------------|----|------|------|-------|-------|
| 10*17539 | С | 5-23-4 | JOANN HAGERTY | TH EXPLORATION, LLC | 1/8+ | 942 | 342 | NA | NA | NA | NA | NA | NA | NA I |
| | | | | | | | | | | | | | | |
| 10*17593 | С | 5-23-4 | REBECCA HAGERTY | TH EXPLORATION, LLC | 1/8+ | 942 | 350 | NA | NA | NA | NA . | NA . | NA | NA |
| | | | | | i | | | | | | | | | |
| 10*17594 | С | 5-23-4 | MEGAN HAGERTY | TH EXPLORATION, LLC | 1/8+ | 942 | 362 | NA | NA | NA | NA | NA | NA | NA |
| | | | | | | | | | | | | | | |
| 10*17595 | с | | THOMAS E RINE AND MARY P | TH EXPLORATION, LLC | 1/8+ | 929 | 572 | NA | NA | NA | NA | NA | NA | NA |
| | | | | | | | | | | | | | | |
| 10*17640 | С | 5-23-4 | PATRICIA A GARCAR | TH EXPLORATION, LLC | 1/8+ | 942 | 8 | NA | NA | NA | NA | NA . | NA | NA |
| : | | | | | | | | | | | | | | |
| 10*17679 | С | 5-23-4 | NORMA J ASH | TH EXPLORATION, LLC | 1/8+ | 944 | 130 | NA | NA | NA | NA | NA | NA | NA |
| | | | | | | | | | | | | | | |
| 10*17680 | С | 5-23-4 | DAVID E CHURCH | TH EXPLORATION, LLC | 1/8+ | 932 | 424 | NA | NA | NA | NA | NA | NA | NA |
| | | | | | | | | | | | | | | |
| 10*17681 | c | 5-23-4 | WALTER E LOSEY AND CINDY L LOSEY | TH EXPLORATION, LLC | 1/8+ | 942 | 338 | NA | NA JICHALE | NA | NA | NA | NA : | NA |
| | | | | | - | | | mord | mana VIII | | | | | |
| 10*17682 | c | 5-23-4 | JAMES E GARLOCH AND MARY K GARLOCH | TH EXPLORATION, LLC | 1/8+ | 935 | 68 | NA NA | MA MOHUE AND SOULO | NA | NA | NA | NA | NA |

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| | | | | | | | | | | | | | 4705 | 02060 |
|----------|---|--------|---|---------------------|------|-----|-----|----|-------------------------|----------|----|------|------|-------|
| 10*17683 | С | | PATRICK HAGERTY AND DALANE HAGERTY | TH EXPLORATION, LLC | 1/8+ | 942 | 358 | NA | NA | NA | NA | NA | NA | NA |
| 10*17715 | С | 5-23-4 | ROBERT A SANDS AND JOYCE A SANDS | TH EXPLORATION, LLC | 1/8+ | 942 | 354 | NA | NA | NA | NA | NA | NA | NA |
| 10*17719 | U | 5-23-4 | ROBERT R DARROW | TH EXPLORATION, LLC | 1/8+ | 942 | 380 | NA | NA | NA | NA | NA | NA | NA |
| 10*17720 | ر | 5-23-4 | WILLIAM KOTSON AND DEBRA KOTSON | TH EXPLORATION, LLC | 1/8+ | 938 | 507 | NA | NA | NA | NA | NA | NA | NA |
| | | | HAROLD H HAGERTY AND | | | | | | | | | | | |
| 10*17775 | С | 5-23-4 | DEBORAH M HAGERTY JAMES GARCAR AND MELISSA | TH EXPLORATION, LLC | 1/8+ | 942 | | NA | NA . | NA | NA | NA | NA | NA |
| 10*17776 | С | 5-23-4 | | TH EXPLORATION, LLC | 1/8+ | 941 | 627 | NA | NA . | NA | NA | NA . | NA | NA . |
| 10*17824 | С | 5-23-4 | SARA FULTON | TH EXPLORATION, LLC | 1/8+ | 942 | 384 | NA | | | NA | NA | NA | NA |
| 10*17901 | С | 5-23-4 | ROBYN HAGERTY | TH EXPLORATION, LLC | 1/8+ | 924 | 602 | NA | NA LORDS DIA RIVERTICAN | ſ | NA | NA | NA | NA |
| 10*17965 | С | 5-23-4 | ROBERT DAVID BARNES AND RHONDA BARNES | TH EXPLORATION, LLC | 1/8+ | 942 | 366 | NA | NA ROLDS INST. 8 | Who same | NA | NA | NA | NA |

| | | | | | | | | | | | | | 47051 | 02060 |
|----------|----------|--------|---|---------------------|-------|------|-----|---------------------------------|--------------|------|------|----|---------|-------|
| 10*18042 | _ | 5-22-4 | JOSEPH J ONORE | TH EXPLORATION, LLC | 1/8+ | 927 | 101 | NA | NA | NA | NA | NA | NA | NA NA |
| 10 18042 | | 5-25-4 | JOSEI WY GNORE | THE EAST CONTINUES | 2/01 | | 101 | | | | | | | |
| | | | JAMES M ONORE AND CINDY | | | | | | | | | | ļ | |
| 10*18043 | <u>C</u> | 5-23-4 | L ONORE | TH EXPLORATION, LLC | 1/8+ | 927 | 105 | NA | NA | NA | NA . | NA | NA | NA |
| 10*18176 | С | 5-23-4 | CRYSTAL M HOOKER AND JAMES HOOKER | TH EXPLORATION, LLC | 1/8+ | 929 | 568 | NA | NA | NA | NA | NA | NA | NA |
| | | | | | | | | | | | | | | |
| 10*18329 | С | 5-23-4 | COLLEEN HAGERTY | TH EXPLORATION, LLC | 1/8+ | 929 | 560 | NA | NA | NA . | NA | NA | NA | NA |
| | , | | | | | | | | | | | | | |
| 10*18367 | С | 5-23-4 | WALTER C SCHUBERT AND BARBARA A SCHUBERT | TH EXPLORATION, LLC | 1/8+ | 931 | 377 | NA | NA | NA | NA | NA | NA | NA |
| | | | | | | | | | | | | | | |
| 10*18368 | С | 5-23-4 | ROBERTA K MILLER | TH EXPLORATION, LLC | 1/8+ | 931 | 457 | NA | NA | NA | NA | NA | NA | NA |
| | | | | | | ļ | | | | | | | | |
| 10*18386 | ر | 5-23-4 | JOSEPH R RINE AND JENNIFER M RINE | TH EXPLORATION, LLC | 1/8+ | 932 | 492 | NA | NA | NA | .NA | NA | NA | NA . |
| 10 10300 | ٦ | J-23-4 | · · · · · · · · · · · · · · · · · · · | | -, -, | -552 | | | | | , | | | |
| 10*18598 | c | 5-23-4 | MARK E GUSTELY | TH EXPLORATION, LLC | 1/8+ | 935 | 52 | NA G | | NA | NA | NA | NA | NA |
| 22.255 | | | | | | | • | A Brigating | rsk of | | | | | |
| 10*18795 | c | 5-23-4 | GASTON FAMILY INVESTMENTS LLC | TH EXPLORATION, LLC | 1/8+ | 959 | 502 | NA Junip Po treatment of the NA | T Will sails | NA | NA . | NA | NA | NA |

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| | | | 1 | | г | | | <u> </u> | <u> </u> | 1 | | T | | |
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| | | | | | | | | | | | | | 4705 | 10206 |
| | | | | | l i | | | | | | | | | |
| | | | CHOLEY AND DRAKE | THE EVOLODATION 110 | 1/0. | 040 | 427 | | | | | | | |
| 10*18994 | <u>-</u> | 5-23-4 | SHIRLEY ANN DRAKE | TH EXPLORATION, LLC | 1/8+ | 940 | 137 | NA | NA | NA | NA . | NA | NA | NA |
| | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |
| 10*19736 | ٦ | 5-23-4 | DOROTHY HLINKA | TH EXPLORATION, LLC | 1/8+ | 944 | 571 | NA | NA . | NA . | NA . | NA . | NA | NA NA |
| 10 13/30 | | 3-23-4 | DONO TITLINIO T | | -/ | | | | | | | | | |
| | | | | | | | | | | | | | | |
| | | | KEITH JAY FISCHER AND | | • | | | | | | | | | |
| 10*21217 | С | 5-23-4 | | TH EXPLORATION, LLC | 1/8+ | 952 | 643 | NA | NA | NA | NA | NA | NA | NA |
| | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |
| | | i | | | | | | | | | | | | |
| 10*21222 | С | 5-23-4 | PATRICIA J SHAW KELLER | TH EXPLORATION, LLC | 1/8+ | 946 | 43 | NA | NA | NA | NA | NA | NA | NA |
| | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |
| | | ŀ | ABE J HOCHSTETLER AND | | | | | | | | | | | |
| 10*21415 | С | 5-23-4 | ANNA E HOCHSTETLER | TH EXPLORATION, LLC | 1/8+ | 957 | 7 | NA | NA | NA | NA | NA | NA | NA |
| | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |
| 10*21425 | _ | 5-23-4 | ORIE N YOUNG AND BERNIE A YOUNG | TH EXPLORATION, LLC | 1/8+ | 957 | 29 | NA . | NA | NA | NA . | NA | NA | NA |
| 10 21425 | | 3-23-4 | Toolid | | 2,0 | 30. | | | | | - CY12- | | | |
| | | | | | | | | | | | | | | |
| | | | FRANCIS R CHAITH AND ANNA | | | | | | | | | | | |
| 10*21428 | c | 5-23-4 | FRANCIS R SMITH AND ANNA M SMITH | TH EXPLORATION, LLC | 1/8+ | 957 | 37 | NA | NA | NA | NA | NA | NA | NA |
| | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |
| | | | | | | | | | | aug. | | | | |
| 10*21434 | c | 5-23-4 | CATHERINE HUMMEL | TH EXPLORATION, LLC | 1/8+ | 957 | 33 | NA | NA SUU | WA | NA | NA | NA | NA |
| | | | | | | | | | NA OND TO THE UNITED SE | , | | | | |
| | | | | | | | | | NOID SIGNATURE | M | | | | |
| | | | RICHARD RICH AND KAREN | | | | | | , <i>k</i> | L' CHIO | | | | |
| 10*21451 | С | 5-23-4 | RICH | TH EXPLORATION, LLC | 1/8+ | 954 | 254 | NA | NA 676 | INA NO SA | NA | NA | NA | NA |

| | | | | | | | | | | | 1 | r | T | <u> </u> |
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| | | | | | | | | | | | | | 47051 | 02060 |
| 10*21452 | С | 5-23-4 | KIMBERLY COX | TH EXPLORATION, LLC | 1/8+ | 954 | 262 | NA | NA | NA | NA | NA | NA | NA |
| | | | | | | | | | | | | | | , |
| 10*21457 | С | | WARREN L COULTER AND ROSLINA A COULTER | TH EXPLORATION, LLC | 1/8+ | 954 | 249 | NA | NA | NA | NA | NA | NA | NA |
| | | | | | | | | | | | | | | |
| 10*21458 | С | | HUSTON A SMITH JR AND ANN C SMITH | TH EXPLORATION, LLC | 1/8+ | 957 | 45 | NA | NA | NA . | NA | NA | NA | NA |
| | | | | | | | | | | | | | | |
| 10*21459 | C | 5-23-4 | JAMES L CHURCH | TH EXPLORATION, LLC | 1/8+ | 957 | 41 | NA | NA | NA | NA | NA | NA | NA |
| 10 11 100 | | | | | | | | | | | | | | |
| 10*21498 | | 5-22-4 | MABEL SHILLINGBURG AND CLIFFORD SHILLINGBURG | TH EXPLORATION, LLC | 1/8+ | 954 | 258 | NA | NA | NA | NA | NA | NA | NA |
| 10 21498 | | 3-23-4 | CLIT OND STREET | | -,- | | | | | | | | | |
| 10*21500 | _ | E 22 A | MATTHEW COULTER AND SIMONE COULTER | TH EXPLORATION, LLC | 1/8+ | 954 | 245 | NA | NA | NA | NA | NA . | NA | NA . |
| 10*21500 | ٦ | 3-23-4 | Shiviolat Cootien | The Edition, Lee | 270 | 334 | | | | | | | | |
| | | | THE TANK THOUSED | TH EXPLORATION, LLC | 1/8+ | 954 | 241 | NA. | NA | NA | NA . | NA . | NA | NA |
| 10*21501 | C | 5-23-4 | EUGENIA E HOUSER | TH EXPLORATION, LLC | 1/67 | 934 | 241 | INA . | NA . | 110 | | | | |
| | | | | THE EVOLODATION INC | 1/0: | 054 | 227 | | NA CHALL | NA | NA | NA | NA | NA |
| 10*21502 | C | 5-23-4 | DEBRA MURIN | TH EXPLORATION, LLC | 1/8+ | 954 | 237 | AA AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA | NA WELLOWING STATE OF STATE OF THE PROPERTY OF | INA | INA | INA. | INA. | INO |
| | | | | | | | | 'nhi da in | BI WILL | | | | | |
| 10*21503 | C | 5-23-4 | DARLENE M DAVIS | TH EXPLORATION, LLC | 1/8+ | 954 | 233 | NA | WA TO SHA | NA | NA | NA | NA | NA |

| | | | | | - | r | ····· | · ·· ··· | | l | | Υ | <u> </u> | |
|----------|-------|--------|--------------------------------------|----------------------|---------------|-----|----------|--|---|-----|---------|-------|----------|------------------|
| | | | | | | | | | | | | | 47051 | 02060 |
| | | | | | | | | | | | | | | 5 E 0 0 0 |
| 10*31535 | ا ۾ ا | | CLARENCE RANDALL EMERY | TH EVELOPATION I.C | 1/8+ | 958 | 344 | NA | NA | NA | NA | NA | NA | N/A |
| 10*21626 | C | 5-23-4 | AND PAULA JEAN EMERY | TH EXPLORATION, LLC | 1/8+ | 958 | 344 | NA | INA | INA | INA | INA I | INA . | NA |
| | | | | | | | | | | | | | | |
| | | ı | | | | | | | | | | | | |
| 10*21631 | ۲ | 5-22-4 | FAYE CAMPBELL | TH EXPLORATION, LLC | 1/8+ | 959 | 343 | NA | NA . | NA | NA | NA . | NA . | NA |
| 10 21031 | | 3-23-4 | TATE GAME OCCU | | 2,01 | 333 | <u> </u> | ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, | | | | | | |
| 1 | | | | | l | | | | | | | | | |
| | | | | | | | | | | | | | | |
| 10*21632 | С | 5-23-4 | JOHN ARLES EMERY | TH EXPLORATION, LLC | 1/8+ | 959 | 339 | NA | NA | NA | NA | NA | NA | NA |
| | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |
| 10*21655 | С | 5-23-4 | STANLEY GUSTELY | TH EXPLORATION, LLC | 1/8+ | 959 | 335 | NA | NA | NA | NA | NA | NA | NA |
| | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |
| | | | JOHN OBLOY AND JANET L | | | | | | | | | | | |
| 10*21656 | С | 5-23-4 | OBLOY | TH EXPLORATION, LLC | 1/8+ | 959 | 331 | NA | NA | NA | NA | NA | NA | NA |
| | | | | | | | | | | | | | | |
| | | : | | | | | | | | | | | | |
| | _ | L | RONALD J SALKOVICK JR & | THE EVOLOR ATION HIS | 4/0. | 050 | 272 | *** | | | | | A1A | |
| 10*21657 | C | 5-23-4 | SANDRA SALKOVICK | TH EXPLORATION, LLC | 1/8+ | 958 | 373 | NA | NA | NA | NA | NA . | NA | NA |
| | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |
| 10*21774 | _ ا | 5-23-4 | JOYCE KAY BURTON AND SAMUEL C BURTON | TH EXPLORATION, LLC | 1/8+ | 957 | 467 | NA | NA . | NA | NA | NA . | NA . | NA . |
| 10 21,74 | Ť | - | | | -, | | | | | | <u></u> | | | |
| | | | | | | | | | | | | | | |
| | | 1 | CTILADT WUITE AND DETTY | | | | | | | | | | | |
| 10*21813 | c | 5-23-4 | STUART WHITE AND BETTY WHITE | TH EXPLORATION, LLC | 1/8+ | 958 | 352 | NA | NA WALLENGE ONN NA CONTROL OF THE PROPERTY OF | NA | NA | NA . | NA . | NA |
| | | | | | | | | | I ETUBUU NA | | | | | |
| | | - | | | | | | ARIV. | 19 John Of | | | | | |
| | | | JAMES NEAL EMERY AND | | | | | JOHO | O" I MI" TO | | | | | |
| 10*21815 | С | 5-23-4 | RENEE R EMERY | TH EXPLORATION, LLC | 1/8+ | 958 | 348 | NA | NA CO BOOM | NA | NA | NA | NA | NA |

| | | | | | | | | | | | | | 47051 | 02060 |
|----------|---------------|--------|--|---------------------|------|-----|-----|-----|-------|-------------------|------|---------|-------|--------|
| 10*21816 | _ | • | CINDY GREEN AND LARRY GREEN | TH EXPLORATION, LLC | 1/8+ | 958 | 356 | NA | NA | NA | NA | NA | NA | NA . |
| 10 21816 | | 3-25-4 | | THE CONTROL SEC | 2,0. | 350 | | | | | | | | |
| 10*21817 | С | 5-23-4 | MARY LOU HLINKA AND RICHARD G HLINKA SR | TH EXPLORATION, LLC | 1/8+ | 959 | 514 | NA | NA | NA | NA | NA | NA | NA |
| | | | MARY CATHERINE THOMS | | | | | | | | | | | |
| 10*21819 | С | 5-23-4 | οπ | TH EXPLORATION, LLC | 1/8+ | 958 | 360 | NA | NA | NA . | NA | NA | NA | NA . |
| | | | MARION DAVID AND JANICE L | | 1/0. | 050 | 506 | NA. | ana a | NA NA | , na | NA NA | NA | NA |
| 10*21820 | | 5-23-4 | оп | TH EXPLORATION, LLC | 1/8+ | 959 | 506 | INA | NA | NA . | NA | NA . | IVA | livo . |
| 10*21832 | С | 5-23-4 | MARQUITA CLYBURN | TH EXPLORATION, LLC | 1/8+ | 959 | 510 | NA | NA | NA | NA | NA | NA | NA |
| 10*21948 | С | 5-23-4 | BARBARA H COAKLEY | TH EXPLORATION, LLC | 1/8+ | 960 | 66 | NA | NA | NA | NA | NA | NA | NA |
| 10*21949 | С | 5-23-4 | ROBIN ADAIR GUMP AND LOUIS M GUMP | TH EXPLORATION, LLC | 1/8+ | 960 | 70 | NA | NA | NA I | NA | NA I | NA | NA |
| 10*21951 | С | 5-23-4 | CHARLES DOUGLAS LANE | TH EXPLORATION, LLC | 1/8+ | 960 | 77 | NA | NA | Mennegano NA | NA | NA | NA | NA |
| 10*21994 | | | | TH EXPLORATION, LLC | 1/8+ | 954 | 328 | NA | | NO LES DAS LA MUL | NA | NA | NA | NA |

| | | | | | | | | | | | | | 47051 | 02060 |
|----------|-----|--------|-------------------------------|---------------------|------|-----|-----|------|----|------------|---|------|-------|-------|
| | | | | | | | | | | | | | 77031 | 02000 |
| 10*22013 | С | 5-23-4 | CHARLES J KNOX | TH EXPLORATION, LLC | 1/8+ | 966 | 112 | NA | NA | NA | NA | NA | NA | NA |
| | | | | | | | | | | | | | | |
| | | i | | | | | | | | | | | | |
| 10*22014 | С | 5-23-4 | SHERMAN E KNOX JR | TH EXPLORATION, LLC | 1/8+ | 966 | 108 | NA | NA | NA | NA | NA | NA | NA |
| | | | | | | | | | | | | | | |
| 10*22018 | | 5 22 4 | KATHLEEN ROBERTSON | TH EXPLORATION, LLC | 1/8+ | 960 | 539 | NA | NA | NA . | NA | NA | NA . | NA |
| 10 22018 | | 3-23-4 | NAME EN NOCHTON | THE ALCOHOLOGY LEG | 2,0: | 300 | 555 | | | | | | | |
| | | | | | | | | | | | | | | |
| 10*22026 | С | 5-23-4 | KEVIN D CHURCH | TH EXPLORATION, LLC | 1/8+ | 957 | 49 | NA | NA | NA | NA | NA | NA | NA |
| | | | | | | | | | | | | | | |
| | | | STEPHEN C EMERY AND | | | | | | | | | | | |
| 10*22027 | ' C | 5-23-4 | CATHY J EMERY | TH EXPLORATION, LLC | 1/8+ | 954 | 310 | NA . | NA | NA . | NA | NA | NA | NA |
| | | | | | | | | | | | | | | |
| 10*22093 | c | 5-23-4 | TODD LEARN AND KENDA LEARN | TH EXPLORATION, LLC | 1/8+ | 954 | 314 | NA | NA | NA | NA | NA | NA | NA |
| | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |
| 10*22102 | 2 C | 5-23-4 | BONNIE LOU GRUBER | TH EXPLORATION, LLC | 1/8+ | 954 | 302 | NA | NA | NA | NA . | NA | NA | NA |
| | | | | | | | | | | | .uostuf | | | |
| 10*22128 | , , | 5-22-4 | BETTY PYSELL | TH EXPLORATION, LLC | 1/8+ | 961 | 433 | NA . | NA | NA 3 | Energe V | NA . | NA | NA |
| 10 22120 | | J-23-4 | | | | | | | | JORGE TO A | BUSINGHILL THE WAY OF BOTH OF | | | |
| | | | | | | | | | | · | SIDE THE HOLD THE | | , | |
| 10*22144 | 4 C | 5-23-4 | VICKY AND DENNIS STRAUSS | TH EXPLORATION, LLC | 1/8+ | 961 | 429 | NA | NA | NA | NA RED CAN | NA | NA | NA |

| | | | , | | | | | | T | Т | | T | ī · · · · · · · · · · · · · · · · · · · | |
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| | | | | | | | | | | | | | 47051 | 02060 |
| 10*22165 | с | 5-23-4 | DEBRA L LYSESKI AND GERALD A LYSESKI | TH EXPLORATION, LLC | 1/8+ | 954 | 306 | NA | NA | NA | NA | NA | NA | NA |
| | | | | | | | | | | | | | | |
| 10*22178 | С | 5-23-4 | ANGELA AND WILLIAM R HENTHORN | TH EXPLORATION, LLC | 1/8+ | 949 | 196 | NA | NA | NA | NA | NA | NA | NA |
| | | | | | | | | | | | | | | |
| 10*22180 | С | 5-23-4 | ANTHONY M AND CHANDRA TAYLOR | TH EXPLORATION, LLC | 1/8+ | 949 . | 186 | NA | NA | NA | NA | NA | NA | NA |
| | | | | | | | | | | | | | | |
| 10*22181 | С | 5-23-4 | BRIAN S AND CAROLYN SUE TAYLOR | TH EXPLORATION, LLC | 1/8+ | 949 | 191 | NA | NA | NA | NA | NA | NA | NA |
| | | | | | | | | | | | | | | |
| 10*22332 | С | 5-23-4 | DORIS WEST AND ROBERT WEST | TH EXPLORATION, LLC | 1/8+ | 962 | 542 | NA | NA | NA | NA | NA | NA | NA |
| | | | | | | | | | | | | | | |
| 10*22339 | с | 5-23-4 | BETTY L LOY | TH EXPLORATION, LLC | 1/8+ | 963 | 392 | NA | NA | NA | NA . | NA | NA | NA |
| | | | | | | | | | | | | | | |
| 10*22436 | С | 5-23-4 | TESSEAN FAMILY REVOCABLE TRUST | TH EXPLORATION, LLC | 1/8+ | 963 | 626 | NA | NA | NA | NA | NA | NA | NA |
| | | | | | | | | | | in. | THUE! | | | |
| 10*22443 | С | 5-23-4 | GATHA CHAMBERS | TH EXPLORATION, LLC | 1/8+ | 963 | 622 | NA | NA | NA JOSEPH CHERTBERT | NA W | NA | NA | NA |
| | | | | | | | | | | John of the Co. | Some Child Ship | | | |
| 10*22503 | С | 5-23-4 | KENNETH R AND DONNA K SHAW | TH EXPLORATION, LLC | 1/8+ | 966 | 518 | NA | NA | NA G | PA CHALLY | NA | NA | NA |

| | | | | | | | | | | | | | 4705 | 10206 |
|---------|---|--------|---|--|------|-----|------------|---------|----------------|--------|----|------|------|-------|
| *22505 | С | | JAMES D AND DONNA K DRAKE | TH EXPLORATION, LLC | 1/8+ | 964 | 425 | NA | NA | NA | NA | NA | NA | NA |
| | | | | | | | | | | | | | | |
| 22594 | C | 5-23-4 | JAMES WADE | TH EXPLORATION, LLC | 1/8+ | 965 | 481 | NA | NA . | NA | NA | NA . | NA . | NA |
| *22609 | С | 5-23-4 | KATHY JO CULLUM | TH EXPLORATION, LLC | 1/8+ | 966 | 514 | NA | NA | NA | NA | NA | NA | NA |
| | _ | | | THE STOLEN AND THE ST | | 000 | F40 | | | | | | | |
| *22613 | С | 5-23-4 | JEWEL L CAMPBELL | TH EXPLORATION, LLC | 1/8+ | 966 | 510 | INA | NA | NA | NA | NA | NA | NA |
| *22779 | С | 5-23-4 | STEVEN WADE | TH EXPLORATION, LLC | 1/8+ | 968 | 424 | NA | NA | NA | NA | NA | NA | NA |
| | | | MARGARET AND WILLIAM | | | | | | | | | | | |
| *22809 | С | 5-23-4 | MCMURRY | TH EXPLORATION, LLC | 1/8+ | 972 | 54 | NA . | NA | NA | NA | NA | NA | NA |
| | | | | | | | | | | | | | | |
| *22812 | С | 5-23-4 | JOSEPH F GOBLOWSKY | TH EXPLORATION, LLC | 1/8+ | 968 | 428 | NA | NA | NA | NA | NA | NA | NA |
|)*22813 | С | 5-23-4 | WANDA M. BLAKE top lease - effective 4/7/19 | TH EXPLORATION, LLC | 1/8+ | 974 | 171 | NA | NA SUBSTINONIA | NA | NA | NA | NA | NA |
| | | | LAURINE C AND EDGAR A | | | | | ,. s | Manusor I WILL | | | | | |
| *22861 | C | 5-23-4 | CURTIS | TH EXPLORATION, LLC | 1/8+ | 976 | 147 | NA | NAIC? B HOPER | NA | NA | NA | NA | NA |

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| | | | | GASTAR EXPLORATION USA, | | | | | | | | | 21/41 Gastar Exploration USA Inc to Gastar | 36/9 Gastar Exploration, Inc. to TH Exploration II, |
| 10*14843 | | 5-23-5 | GARY PARSONS | INC | 1/8+ | 805 | 74 | NA | NA | NA | NA | NA | Exploration, Inc | шс |
| 10 14845 | ٦ | 3-23-3 | GART PAIGONS | | 2,01 | | | | | | | | | |
| | | | | GASTAR EXPLORATION USA, | | | | | | | | | USA Inc to Gastar | 36/9 Gastar Exploration, Inc. to TH Exploration II, |
| 10*14844 | D | 5-23-5 | WANDA RIDING | INC | 1/8+ | 805 | 86 | NA | NA | NA | NA | NA | Exploration, Inc | пс |
| | | | | | | ٠ | | | | | | | 21/41 Gastar Exploration | 36/9 Gastar Exploration, |
| | | | | GASTAR EXPLORATION USA, | | | | | | | | | USA Inc to Gastar | Inc. to TH Exploration II, |
| 10*14846 | D | 5-23-5 | FAYE CAMPBELL | INC | 1/8+ | 805 | 91 | NA | NA | NA | NA | NA | Exploration, Inc | иc |
| | | | | GASTAR EXPLORATION USA, | | | | | | | | | 21/41 Gastar Exploration USA Inc to Gastar | 36/9 Gastar Exploration, |
| 10*14847 | n | 5-23-5 | LETHA RUCKMAN | INC | 1/8+ | 806 | 270 | NA | NA | NA | NA | NA | Exploration, Inc | LLC |
| 10*14848 | D | 5-23-5 | NEVA KELLER | GASTAR EXPLORATION USA, INC | 1/8+ | 806 | 268 | NA | NA | NA | NA | NA | 21/41 Gastar Exploration USA Inc to Gastar Exploration, Inc | 36/9 Gastar Exploration, Inc. to TH Exploration II, LLC |
| 10*14849 | D | 5-23-5 | DAVID GUSTELY | GASTAR EXPLORATION USA, | 1/8+ | 806 | 265 | NA | NA | NA | NA | NA | 21/41 Gastar Exploration USA Inc to Gastar Exploration, Inc | 36/9 Gastar Exploration, Inc. to TH Exploration II, LLC |
| 10*14850 | | 5-23-5 | CLARENCE EMERY | GASTAR EXPLORATION USA, | 1/8+ | 805 | 94 | NA | NA | NA | NA | ·NA | 21/41 Gastar Exploration USA Inc to Gastar Exploration, Inc | 36/9 Gastar Exploration, Inc. to TH Exploration II, LLC |
| | | | | GASTAR EXPLORATION USA, | | | | | | | | | 21/41 Gastar Exploration USA Inc to Gastar | 36/9 Gastar Exploration, Inc. to TH Exploration II, |
| 10*14851 | D | 5-23-5 | JOHN OBLOY | INC | 1/8+ | 806 | 262 | NA N | NA BOOK BARRAN | NA | NA | NA . | Exploration, Inc 21/41 Gastar Exploration | LLC 36/9 Gastar Exploration, |
| | | | | GASTAR EXPLORATION USA, | | | | | 810, "48 | 330 | | | USA Inc to Gastar | Inc. to TH Exploration II, |
| 10*14852 | D | 5-23-5 | JOHN A. EMERY | INC | 1/8+ | 806 | 259 | NA | NA PROPERTY | TNA | NA | NA | Exploration, Inc | шс |

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| 40*44952 | , | 5 22 F | DURWOOD WRIGHT | GASTAR EXPLORATION USA, | 1/8+ | 809 | 507 | NA | NA | NA | NA NA | NA | 21/41 Gastar Exploration USA Inc to Gastar Exploration, Inc | 36/9 Gastar Exploration, Inc. to TH Exploration II, |
| 10*14853 | U | 5-23-5 | DURWOOD WRIGHT | INC | 1/0+ | 809 | 307 | INA | INA | INA . | 100 | INA | Exploration, inc | LLC . |
| 10*14854 | D | 5-23-5 | CATHERINE HUMMEL | GASTAR EXPLORATION USA, | 1/8+ | 809 | 512 | NA | NA . | NA . | NA | NA . | 21/41 Gastar Exploration USA Inc to Gastar Exploration, Inc | 36/9 Gastar Exploration, Inc. to TH Exploration II, LLC |
| 10*14855 | D | 5-23-5 | JAMES D. DRAKE | GASTAR EXPLORATION USA, | 1/8+ | 808 | 445 | NA | NA | NA | NA | NA | 21/41 Gastar Exploration USA Inc to Gastar Exploration, Inc | 36/9 Gastar Exploration, Inc. to TH Exploration II, LLC |
| 10*14856 | D | 5-23-5 | GATHA CHAMBERS | GASTAR EXPLORATION USA, | 1/8+ | 808 | 454 | NA | NA | NA | NA | NA | 21/41 Gastar Exploration USA Inc to Gastar Exploration, Inc | 36/9 Gastar Exploration, Inc. to TH Exploration II, LLC |
| 10*14857 | D | 5-23-5 | CHERYL HILL | GASTAR EXPLORATION USA, INC | 1/8+ | 808 | 493 | NA | NA | NA | NA | NA | 21/41 Gastar Exploration USA Inc to Gastar Exploration, Inc | 36/9 Gastar Exploration, Inc. to TH Exploration II, LLC |
| 10*14858 | D | 5-23-5 | EUGENE FANKHAUSER | GASTAR EXPLORATION USA, INC | 1/8+ | 808 | 483 | NA | NA | NA | NA | NA | 21/41 Gastar Exploration USA Inc to Gastar Exploration, Inc | 36/9 Gastar Exploration, Inc. to TH Exploration II, LLC |
| 10*14859 | D | 5-23-5 | MELVIN FANKHAUSER | GASTAR EXPLORATION USA, | 1/8+ | 808 | 495 | NA | NA | NA 🐼 | NA | NA | 21/41 Gastar Exploration USA Inc to Gastar Exploration, Inc | 36/9 Gastar Exploration, Inc. to TH Exploration II, LLC |
| 10*14860 | | | KATHLEEN ROBERTSON | GASTAR EXPLORATION USA, | 1/8+ | 809 | 522 | NA | NA AGE | Oli Core 10 Port | NA | NA | 21/41 Gastar Exploration USA Inc to Gastar Exploration, Inc | 36/9 Gastar Exploration, Inc. to TH Exploration II, LLC |
| 10*14861 | | | NANCY WHITLATCH | GASTAR EXPLORATION USA, | 1/8+ | 809 | 526 | NA | NA | NA SES HE HALL STATE | NA | NA | 1 | 36/9 Gastar Exploration, Inc. to TH Exploration II, LLC |

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47051020E 21/41 Gastar Exploration 36/9 Gastar Exploration, USA Inc to Gastar Inc. to TH Exploration II, GASTAR EXPLORATION USA Exploration, Inc D 5-23-5 ANN GUSTELY INC 1/8+ 809 568 NA NA. NA LLC 10*14862 21/41 Gastar Exploration 36/9 Gastar Exploration, USA Inc to Gastar Inc. to TH Exploration II, GASTAR EXPLORATION USA, INC 1/8+ 809 561 NA NA NA Exploration, Inc. LLC WILLIAM DAVIS CULLUM 10*14863 D 5-23-5 21/41 Gastar Exploration 36/9 Gastar Exploration, USA Inc to Gastar Inc. to TH Exploration II, GASTAR EXPLORATION USA Exploration, Inc. CAROLYN DURWAY 1/8+ 810 330 INA INA 10*14864 D 5-23-5 21/41 Gastar Exploration 36/9 Gastar Exploration, GASTAR EXPLORATION USA, USA Inc to Gastar Inc. to TH Exploration II, 10*14865 D 5-23-5 VICKY STRAUSS INC 1/8+ 810 325 NA İΝΑ INA NA lΝΑ Exploration, Inc. 21/41 Gastar Exploration 36/9 Gastar Exploration, USA Inc to Gastar GASTAR EXPLORATION USA Inc. to TH Exploration II, Exploration, Inc LLC GARY CARMICHAEL INC 1/8+ 810 316 NA NA NA NA NΑ 10*14866 D 5-23-5 21/41 Gastar Exploration 36/9 Gastar Exploration, USA Inc to Gastar Inc. to TH Exploration II, GASTAR EXPLORATION USA 1/8+ Exploration, Inc lιιc INC 813 454 NA NA NA NΑ 10*14868 D 5-23-5 WOODROW CAMPBELL, JR. 21/41 Gastar Exploration 36/9 Gastar Exploration, USA Inc to Gastar GASTAR EXPLORATION USA, Inc. to TH Exploration II, *RALPH VAUGHN TAYLOR* INC 813 Exploration, Inc luc 10*14869 D 5-23-5 1/8+ 561 NA NA NΑ NA NΑ 21/41 Gastar Exploration 36/9 Gastar Exploration, USA Inc to Gastar GASTAR EXPLORATION USA, Inc. to TH Exploration II, 816 NΑ Exploration, Inc DAVID CARMICHAEL INC 1/8+ 16 10*14870 D 5-23-5 21/41 Gastar Exploration 36/9 Gastar Exploration, USA Inc to Gastar Inc. to TH Exploration II, GASTAR EXPLORATION USA, INC 1/8+ 816 348 NA Exploration, Inc LLC 10*14871 D 5-23-5 BETTY PYSELL

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| 10*14872 | D | 5-23-5 | DWG OIL AND GAS ACQUISITIONS, | GASTAR EXPLORATION USA, | 1/8+ | 817 | 312 | NA | NA | NA | NA | NA | 21/41 Gastar Exploration USA Inc to Gastar Exploration, Inc | |
| 10*14873 | D | 5-23-5 | RAYMOND MILLER | GASTAR EXPLORATION USA, | 1/8+ | 821_ | 44 | NA | NA | NA | NA | NA | 21/41 Gastar Exploration USA Inc to Gastar Exploration, Inc | 36/9 Gastar Exploration, Inc. to TH Exploration II, LLC |
| 10*14874 | | | RICHARD MILLER | GASTAR EXPLORATION INC | 1/8+ | 822 | 260 | NA | NA | NA | NA | NA | NA | 36/9 Gastar Exploration, Inc. to TH Exploration II, LLC |
| 10*14875 | D | 5-23-5 | DAVID DRAKE | GASTAR EXPLORATION INC | 1/8+ | 827 | 273 | NA | NA | NA | NA | NA | NA | 36/9 Gastar Exploration, Inc. to TH Exploration II, LLC |
| 10*14876 | D | 5-23-5 | SHIRLEY LARGENT | GASTAR EXPLORATION INC | 1/8+ | 827 | 228 | NA | NA | NA | NA | NA | NA | 36/9 Gastar Exploration, Inc. to TH Exploration II, LLC |
| 10*14877 | D | 5-23-5 | GARY OBLOY | GASTAR EXPLORATION INC | 1/8+_ | 836 | 112 | NA | NA | NA | NA | NA | NA | 36/9 Gastar Exploration, Inc. to TH Exploration II, LLC |
| 10*14878 | D | 5-23-5 | ARTHUR BRUCE COULTER | GASTAR EXPLORATION INC | 1/8+ | 839 | 519 | NA | NA | NA | NA | NA | NA | 36/9 Gastar Exploration, Inc. to TH Exploration II, LLC |
| 10*14879 | D | 5-23-5 | THERESA RINE | GASTAR EXPLORATION INC | 1/8+ | 840 | 162 | NA | NA | NA | NA CANUT | NA | NA | 36/9 Gastar Exploration, Inc. to TH Exploration II, LLC |
| 10*14880 | D | 5-23-5 | IRIS LUCAS | GASTAR EXPLORATION INC | 1/8+ | 849 | 545 | NA | NA | notice menn | Apro I MUL | NA | NA | 36/9 Gastar Exploration, Inc. to TH Exploration II, LLC |

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| | | | | | | | | | | | | | | 36/9 Gastar Exploration, |
| | | | | | | | | | | | | | | Inc. to TH Exploration II, |
| 10*14881 | D | 5-23-5 | MARY WHITLATCH | GASTAR EXPLORATION INC | 1/8+ | 849 | 548 | NA | NA | NA | NA | NA | NA | rrc |
| | | | | | | | | | | | | | | |
| | | ł | | | | | | | | | | | | 36/9 Gastar Exploration, |
| | | İ | | | İ | | | | | | | | | Inc. to TH Exploration II, |
| 10*14882 | D | 5-23-5 | GARY RINE | GASTAR EXPLORATION INC | 1/8+ | 849 | 551 | NA | NA | NA | NA | NA | NA | ιιc |
| | | | | | | | | | | | | | | |
| | | ļ | | | | | | | | | | | | 36/9 Gastar Exploration, |
| 10*14883 | | E 22 E | PAUL WISE | GASTAR EXPLORATION INC | 1/8+ | 852 | 252 | NA | NA . | NA . | NA | NA . | NA . | Inc. to TH Exploration II, |
| 10-14883 | - | 3-23-3 | PAGE WISE | GASTAR EXPLORATION INC | 1/81 | 032 | 2,72 | NA . | IVA | | , inc | | IVA | tte |
| | | | | | | | | | | | | | | |
| | | | | | | | | · | | | | | | 36/9 Gastar Exploration, |
| 10*14884 | D | 5-23-5 | RENEE HAGERTY | GASTAR EXPLORATION INC | 1/8+ | 852 | 255 | NA | NA | NA | NA | NA | NA | Inc. to TH Exploration II, |
| | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |
| | | | | | 1 | | | | | | | | | 36/9 Gastar Exploration, Inc. to TH Exploration II, |
| 10*14885 | ₽ | 5-23-5 | HOWARD RINE | GASTAR EXPLORATION INC | 1/8+ | 854 | 601 | NA | NA | NA | NA | NA | NA | шс |
| | | | | | | | | | | | | | | |
| | | | · | | | | | | | | | | | 36/9 Gastar Exploration, |
| | | İ | | | | | | | | l | | | | Inc. to TH Exploration II, |
| 10*14886 | D. | 5-23-5 | JODI YOHO | GASTAR EXPLORATION INC | 1/8+ | 854 | 604 | NA | NA . | NA | NA | NA | NA . | rrc |
| | | | | | | | | | | | | | | |
| | | ŀ | | | i | | | | | | | • | | 36/9 Gastar Exploration, |
| 10*14887 | | E 22 E | CHRISTINA ROBERTS | GASTAR EXPLORATION INC | 1/8+ | 867 | 392 | NA . | NA | NA | NA . | NA | NA . | Inc. to TH Exploration II, |
| 10 14887 | ۲ | 3-23-3 | CHRISTINA ROBERTS | GASTAN EXILEDITATION INC | 2,0. | 007 | 332 | | | | | | | |
| | | | | İ | | | | | | | | | | |
| | | | | | | | | | NIZ | | | | | 36/9 Gastar Exploration, Inc. to TH Exploration II, |
| 10*14888 | D | 5-23-5 | DARLENE BUTLER | GASTAR EXPLORATION INC | 1/8+ | 867 | 395 | NA | NA QUIUDINA | NA | NA | NA | NA | LLC |
| | | | | | | | | | NA CIC - SI WI PORTE | | | | | |
| | | | | | | | | - AS | MO TREATE AND | • | | | | 25.70.6 |
| | | | | 1 | | | |) JOS | 8 , 98 M | T | | | | 36/9 Gastar Exploration, Inc. to TH Exploration II, |
| 10*14889 | D | 5-23-5 | HAROLD YOHO | GASTAR EXPLORATION INC | 1/8+ | 870 | 37 | NA | NA OF NO AN | NA | NA | NA | NA | rrc |

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|----------|-----------|-----------------|--------------------------------------|------------------------|------|-----|-----|-------|-------|---|------|------------------|--|--|
| | | | | | | | | | | | | | | 36/9 Gastar Exploration, Inc. to TH Exploration II, |
| 10*14890 | D | 5-23-5 | HENRY MALONE JR | GASTAR EXPLORATION INC | 1/8+ | 870 | 40 | NA | NA | NA | NA | NA | NA | LLC |
| | | | | | - | | | | | | | | - | |
| | ļ | | | | | | | | | | | | | 36/9 Gastar Exploration, |
| 10*14891 | | E 22 E | NANCY F FYE AND STEPHEN M FYE | GASTAR EXPLORATION INC | 1/8+ | 885 | 606 | NA | NA . | NA NA | NA . | NA . | NA | Inc. to TH Exploration II, |
| 10 14691 | 1 | 3-23-3 | WIFTE | GASTAR EXPLORATION INC | 1/0+ | 003 | 600 | INA . | INA | INA . | INA | INA | INA | iii |
| | | | | | | | | | | | | | | |
| | | | GASTON FAMILY | | | | | | | | | | | |
| 10*16034 | D | 5-23-5 | INVESTMENTS LLC | TH EXPLORATION, LLC | 1/8+ | 959 | 502 | NA | NA . | NA | NA | NA | NA | NA |
| | | | | | | | | | | | | | 23/127 Chesapeake | |
| | | | LAAAFE L CAAADDELL DETTY L | CUTCADEANE ADDALACUIA | | | | | | | | | • | 41/238 Statoil USA |
| 10*17145 | D | 5-23-5 | JAMES J. CAMPBELL BETTY J. CAMPBELL | LLC | 1/8+ | 685 | 458 | NA . | NA . | NA | NA . | NA | USA Onshore Properties, Inc | Onshore Properties Inc. to TH Exploration, LLC |
| | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | 23/127 Chesapeake | |
| | | | CAROLYN CAMPBELL | CHESAPEAKE APPALACHIA | | | | | | | |] | Appalachia, LLC to Statoil USA Onshore Properties, | 41/238 Statoil USA Onshore Properties Inc. to |
| 10*17146 | D | 5-23-5 | BRITTON ROBERT C. BRITTON | 3 | 1/8+ | 685 | 464 | NA | NA | NA | NA | NA | Inc | TH Exploration, LLC |
| | | | | | | | | | | | | | | |
| İ | | | | | | | | | | | | | 23/127 Chesapeake | |
| | | | JOANN J. PARSONS GARY D. | CHESAPEAKE APPALACHIA | | | | | | | | | Appalachia, LLC to Statoil USA Onshore Properties, | 41/238 Statoil USA Onshore Properties Inc. to |
| 10*17147 | <u> D</u> | 5-23-5 | | ис | 1/8+ | 685 | 470 | NA | NA | NA | NA | NA | Inc | TH Exploration, LLC |
| | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | 23/127 Chesapeake Appalachia, LLC to Statoil | 41/238 Statoil USA |
| | | | DONALD E. CAMPBELL JUNE | CHESAPEAKE APPALACHIA | | | | | | | | | USA Onshore Properties, | Onshore Properties Inc. to |
| 10*17148 | D | 5-23-5 | L. CAMPBELL | ис | 1/8+ | 685 | 476 | NA | NA | NA | NA | NA | Inc | TH Exploration, LLC |
| 1 | | | | | | | | | | | | | 22/427 6 | |
| | | | | | | | | | | | | | 23/127 Chesapeake Appalachia, LLC to Statoil | 41/238 Statoil USA |
| | | | | CHESAPEAKE APPALACHIA | | | | | | _ | | | USA Onshore Properties, | Onshore Properties Inc. to |
| 10*17149 | <u> </u> | 5-23-5 | WANDA M. BLAKE | uc | 1/8+ | 685 | 482 | NA | NA . | NA STANTS | INA | NA . | Inc | TH Exploration, LLC |
| | | | | | | | | | | NA REMEMBER AND NA NA REMANDER AND NA REMANDER AND NA REMANDER AND NA REMANDER AND NA REMAND NA | | 1 | 23/127 Chesapeake | |
| | | | | | | | | | | AG, MAROE | | | Appalachia, LLC to Statoil | 41/238 Statoil USA |
| 10*17150 | | E 22 E | | CHESAPEAKE APPALACHIA | 1,0. | 605 | 400 | N/A | not b | INI" | | l _N a | USA Onshore Properties, | Onshore Properties Inc. to |
| 10*17150 | ט וי | ე ე-23-5 | IDA L. CAMPBELL | ļuc | 1/8+ | 685 | 488 | NA | NA * | INA B TOWN | INA | NA | Inc | TH Exploration, LLC |

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| | | | | | | | | - | · | | <u> </u> | | /70F | 4 0 0 0 6 0 |
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| : | | | | | | | | | | | | | 4/05 | 102060 |
| 10*17502 | D | 5-23-5 | PATRICIA E GUSTELY | TH EXPLORATION, LLC | 1/8+ | 942 | 334 | NA | NA | NA | NA | NA | NA | NA |
| | | | | | | | | | | | | | | |
| | | | DONALD S BOBOVNIK AND | | | | | | | | | | NA . | |
| 10*17532 | D | 5-23-5 | DOLORES J BOBOVNIK | TH EXPLORATION, LLC | 1/8+ | 942 | 346 | NA | NA | NA | NA | NA | INA | NA |
| | | | | | | | | | | | | | | |
| 10*17535 | D | | RONALD L MAYER AND DEBRA A MAYER | TH EXPLORATION, LLC | 1/8+ | 929 | 580 | NA | NA | NA | NA | NA | NA | NA |
| | | i | | | | | | | | | | | | |
| 10 * 17539 | 0 | 5_23_5 | JOANN HAGERTY | TH EXPLORATION, LLC | 1/8+ | 942 | 342 | NA | NA . | NA . | NA | NA . | NA | NA |
| 10 17555 | | 3-23-3 | | , | _, - | | • | | | | | | | |
| , | | | | | | | | | | | | | | |
| 10*17540 | D | 5-23-5 | MONTY ESTEL | TH EXPLORATION, LLC | 1/8+ | 941 | 624 | NA | NA | NA | NA | NA | NA | NA |
| | | | | | | | | | | | | | | |
| 10*17541 | D | 5-23-5 | ROBERT D STRAWN AND TAMMY J STRAWN | TH EXPLORATION, LLC | 1/8+ | 942 | 21 | NA | NA | NA | NA | NA | NA | NA. |
| | | | | | | | | | | | | | | |
| | | | JEFFREY G HAZEL AND SHEILA | | 4.00 | 043 | 42 | | l _{NA} | NA. | NA . | NA | lna | lna |
| 10*17542 | D | 5-23-5 | M HAZEL | TH EXPLORATION, LLC | 1/8+ | 942 | 12 | NA | NA | J | | INA | INO | INO |
| | | | CARL COMMAND ALCCOMAND | | | | | | | Sold Rushing of M. W. C. Same | | | | |
| 10*17543 | D | 5-23-5 | CARL EDWARD MCCOY AND CAROLYN SUE MCCOY | TH EXPLORATION, LLC | 1/8+ | 942 | 15 | NA | NA | Wig inign | NA | NA | NA | NA |
| | | | | | | | | | | NA SED PRE IIO P SON | | | | |
| 10*17544 | | E 22 F | DEBORAH LYNN SCHWING | TH EXPLORATION, LLC | 1/8+ | 942 | 377 | INA | NA | NA SEO DUE IN TO S | NA NA | NA | NA | NA . |

| | | | T | | | | | | 1 | 1 | | | - / 7 / 5 / | 00000 |
|----------|-----|--------|-------------------------------------|-----------------------|------|-----|-----|---------|---------------|----------------------|------------------|-----|------------------------|-------|
| | | | | | | | | | | | | | 7703 | 02060 |
| | | | | | | | | | | | | | | |
| 10*17545 | Ь | 5-23-5 | LINDA SWOPE | TH EXPLORATION, LLC | 1/8+ | 942 | 24 | NA | NA | NA | NA | NA | NA | NA |
| | | | | - | | | | | | | | | | |
| | | | | | | | | | | | | | | |
| | | | SAMUEL EARL FRANCIS AND | THEY DIG A TION HE | 4/0. | 040 | 274 | | | | l _{NA} | N/A | NA . | NA |
| 10*17546 | | 5-23-5 | ALICE L FRANCIS | TH EXPLORATION, LLC | 1/8+ | 942 | 374 | NA | NA | NA | NA | NA | NA . | NA . |
| | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |
| 10*17593 | D | 5-23-5 | REBECCA HAGERTY | TH EXPLORATION, LLC | 1/8+ | 942 | 350 | NA | NA | NA | NA | NA | NA | NA |
| : | | | | | | | | | | | | | | |
| | | | | : | | | | | | | | | | |
| 10*17594 | D | 5-23-5 | MEGAN HAGERTY | TH EXPLORATION, LLC | 1/8+ | 942 | 362 | NA | NA | NA | NA | NA | NA | NA |
| | | | | | | | | | | | | | | |
| | | | | | | | l | | | | | | | |
| 10*17595 | D | 5-23-5 | THOMAS E RINE AND MARY P | TH EXPLORATION, LLC | 1/8+ | 929 | 572 | NA . | NA | NA | NA . | NA | NA . | NA |
| | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |
| | | | DATOIGIA A GADGAD | THE SUBJECT OF A TICK | 4/9. | 043 | | | | a.a | l _N a | NA | NA | NA I |
| 10*17640 | 1 5 | 5-23-5 | PATRICIA A GARCAR | TH EXPLORATION, LLC | 1/8+ | 942 | 8 | NA | NA | NA | NA | INA | INA . | INA . |
| | | | | | | | | | | | | | | |
| | | | | | | | | | | | : | | | |
| 10*17679 | D | 5-23-5 | NORMA J ASH | TH EXPLORATION, LLC | 1/8+ | 944 | 130 | NA . | NA | NA | NA . | NA | NA | NA |
| | | | | | | | | | | auno, | W. | | | |
| | | | | | | | | | | TOIG INTEGEO | Par. | | | |
| 10*17680 | D | 5-23-5 | DAVID E CHURCH | TH EXPLORATION, LLC | 1/8+ | 932 | 424 | NA | NA | NA ROKESON INSURANCE | MILL | NA | NA | NA |
| | | | | | | | | | | 8 500 | NO PO SONIO | | | |
| | | | | | | | | | | 810 Aug | MECEN | | | |
| 10*17681 | | 5-23-5 | WALTER E LOSEY AND CINDY L LOSEY | TH EXPLORATION, LLC | 1/8+ | 942 | 338 | NA | NA | NA See C | NA . | NA | NA | NA |

| | - · · - | | ement | | | | : | | | | | | 4705 | 102060 |
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| 10*17682 | D | | JAMES E GARLOCH AND MARY K GARLOCH | TH EXPLORATION, LLC | 1/8+ | 935 | 68 | NA | NA | NA . | NA . | NA . | NA | NA NA |
| 10*17683 | D | | PATRICK HAGERTY AND DALANE HAGERTY | TH EXPLORATION, LLC | 1/8+ | 942 | 358 | NA . | NA | NA | NA | NA | NA | NA |
| 10*17684 | D | | DAVID MCCOY AND LORI MCCOY | TH EXPLORATION, LLC | 1/8+ | 942 | 18 | NA | NA | NA . | NA | NA | NA | NA |
| 10*17715 | D | 5-23-5 | ROBERT A SANDS AND JOYCE A SANDS | TH EXPLORATION, LLC | 1/8+ | 942 | 354 | NA | NA | NA | NA | NA | NA | NA |
| 10*17719 | D | 5-23-5 | ROBERT R DARROW | TH EXPLORATION, LLC | 1/8+ | 942 | 380 | NA | NA | NA | NA | NA | NA | NA |
| 10*17720 | D | 5-23-5 | WILLIAM KOTSON AND DEBRA KOTSON | TH EXPLORATION, LLC | 1/8+ | 938 | 507 | NA | NA | NA | NA | NA | NA | NA |
| 10*17775 | D | 5-23-5 | HAROLD H HAGERTY AND DEBORAH M HAGERTY | TH EXPLORATION, LLC | 1/8+ | 942 | 370 | NA | NA | NA | NA | NA | NA | NA |
| 10*17776 | | | JAMES GARCAR AND MELISSA GARCAR | TH EXPLORATION, LLC | 1/8+ | 941 | 627 | NA . | NA | Ewhonne An | NA | NA | NA | NA |
| 10*17824 | | | | TH EXPLORATION, LLC | 1/8+ | 942 | | | nr of other | OLING OF OLING TO STAND OF STA | NA | NA | | NA |

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| | | | | | | | | | | | | | 4/05 | 02000 |
| 10*17901 | | 5-23-5 | ROBYN HAGERTY | TH EXPLORATION, LLC | 1/8+ | 924 | 602 | NΔ | NA | NA | NA . | lna | INA | NA |
| 10.17901 | U | 5-25-5 | ROBIN HAGENTI | THE EXPEDITATION, LLC | 1/0. | 324 | | <u> </u> | | | | | | |
| | | | | | | | | | | | | | | 1 |
| 40*47055 | | 5 22 F | ROBERT DAVID BARNES AND | TH EXPLORATION, LLC | 1/8+ | 942 | 366 | NA. | NA | NA | NA | NA . | NA . | NA . |
| 10*17965 | U | 5-25-5 | RHONDA BARNES | TH EXPLORATION, LLC | 1/0+ | 342 | 300 | NA . | inc. | | | 100 | | NA |
| | | | | | | | | | | | | | | |
| | | | IOSERIA I ONORE | TH EXPLORATION, LLC | 1/8+ | 927 | 101 | NA | NA | NA | NA | NA . | NA NA | NA |
| 10*18042 | В | 5-23-5 | JOSEPH J ONORE | TH EXPLORATION, LLC | 1/0+ | 927 | 101 | INA . | INA. | INC | | INA | ING. | |
| | | | | | | | | | | | | | | |
| 40*40043 | | F 22 F | JAMES M ONORE AND CINDY L ONORE | TH EXPLORATION, LLC | 1/8+ | 927 | 105 | NA | NA | NA | NA | NA | NA | NA |
| 10*18043 | <u> </u> | 3-23-3 | LONORE | TH EXPLORATION, LLC | 1/87 | 321 | 103 | | 100 | | IVO. | | ING. | |
| | | | | | | | | | | | | | | |
| 10*19044 | | E 22 E | TRACEY ESTEL | TH EXPLORATION, LLC | 1/8+ | 927 | 109 | NA | NA . | NA . | NA | NA . | NA | NA |
| 10*18044 | " | 3-23-3 | TRACET ESTEE | THEAT LONGHON, LLC | 2/01 | 32, | | | | | | | | |
| | | | | | | | | | | | | | | |
| 10*18176 | _ | 5.23.5 | CRYSTAL M HOOKER AND JAMES HOOKER | TH EXPLORATION, LLC | 1/8+ | 929 | 568 | NA | NA . | NA | NA | NA | NA . | NA |
| 10 10170 | ٦ | 3-23-3 | JAMES HOUSEN | | | | | | | | | | | |
| | | | | | | | | | | | | | | |
| 10*18329 | _ | 5-23-5 | COLLEEN HAGERTY | TH EXPLORATION, LLC | 1/8+ | 929 | 560 | NA . | INA . | NA . | NA | NA | NA | NA |
| 10 10323 | ۲ | 3-23-3 | OSELECT III OSELI. | | | | | | | | | | | |
| | | | | | | | | | | ENAROUMEN | | | | |
| 10*18367 | n | 5-23-5 | WALTER C SCHUBERT AND BARBARA A SCHUBERT | TH EXPLORATION, LLC | 1/8+ | 931 | 377 | NA | NA UORDON | WY Department Pri | NA | NA . | NA | NA . |
| 10 10307 | ۲ | 3-23-3 | J. H. Orling (7) GOLIOUENT | | -, 5: | | | | 10.3 | 1 NN | | | | |
| | | | | | | | | | | ILOS 8 L. | | | | |
| 10*19369 | " | 5_23_5 | ROBERTA K MILLER | TH EXPLORATION, U.C. | 1/8+ | 931 | 457 | NA . | NA . | HECEINED CAR | NA. | NA . | NA . | NA |
| 10*18368 | D | 5-23-5 | ROBERTA K MILLER | TH EXPLORATION, LLC | 1/8+ | 931 | 457 | NA | NA | Office of Oil and Gall | NA | NA | NA | NA |

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|----------|------|--------|--|---------------------|------|-----|-----|-----|------|---|------|----|------|--------|
| 10*18371 | | 5 22.5 | HERMAN D ESTEL | TH EXPLORATION, LLC | 1/8+ | 931 | 461 | NA | NA | NA | NA | NA | NA | NA . |
| 10.183/1 | ٦ | 5-25-5 | TIERWAN O ESTEE | THE ESTATION AS | 2,0 | | | | | | - | | | |
| | | | JOSEPH R RINE AND JENNIFER | | | | | | | | | | | |
| 10*18386 | D | 5-23-5 | M RINE | TH EXPLORATION, LLC | 1/8+ | 932 | 492 | NA | NA | NA | NA | NA | NA | NA . |
| | | | | | | | | | | | | | | |
| 10*18598 | D | 5-23-5 | MARK E GUSTELY | TH EXPLORATION, LLC | 1/8+ | 935 | 52 | NA | NA | NA | NA | NA | NA | NA |
| | | | | | | | | | | | | | | |
| 10*18795 | D | 5-23-5 | GASTON FAMILY INVESTMENTS LLC | TH EXPLORATION, LLC | 1/8+ | 959 | 502 | NA | NA | NA | NA | NA | NA | NA |
| | | | | | | | | | | | | | | |
| | | | | THE SYPLODATION LIC | 1/0. | 040 | 137 | NA | NA | NA | NA . | NA | NA | NA . |
| 10*18994 | D | 5-23-5 | SHIRLEY ANN DRAKE | TH EXPLORATION, LLC | 1/8+ | 940 | 137 | INA | INO. | | | | | |
| | | | | | | | | | | | | | | |
| 10*19656 | D | 5-23-5 | DEBRA ROUDEBUSH | TH EXPLORATION, LLC | 1/8+ | 944 | 105 | NA | NA | NA | NA | NA | NA | NA |
| | | | | | | | | | | | | | | |
| 10*19736 | D | 5-23-5 | DOROTHY HLINKA | TH EXPLORATION, LLC | 1/8+ | 944 | 571 | NA | NA | | NA | NA | NA | NA |
| | | | | | | | | | | EWANG | | | | |
| 10*19999 | ם ונ | 5-23-5 | MELISSA ANN BRAUN AND RAYMOND BRAUN | TH EXPLORATION, LLC | 1/8+ | 951 | 627 | NA | NA | WA ON BINGTH BOAN AND AND AND AND AND AND AND AND AND A | NA | NA | NA | NA |
| 10 13333 | + | 3-23-3 | | | | | | | v | NA 8105 8 1 MUL | wo. | | | |
| | | | RANDALL C ROGERSON & | | | | | | | 8105 par 11203 | | | | |
| 10*21084 | ı D | 5-23-5 | TRACY LYNN ROGERSON | TH EXPLORATION, LLC | 1/8+ | 949 | 368 | NA | NA | NA SED OF OFF | INA | NA | NA | NA |

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| 10*21217 | D | | KEITH JAY FISCHER AND DAWN M FISCHER | TH EXPLORATION, LLC | 1/8+ | 952 | 643 | NA | NA | NA . | NA | NA | NA | NA |
| 10 21217 | | J-23-3 | DAWK WITH SUITER | | | | | | | | | | | |
| 10*21222 | D | 5-23-5 | PATRICIA J SHAW KELLER | TH EXPLORATION, LLC | 1/8+ | 946 | 43 | NA | NA | NA | NA | NA | NA | NA |
| 10*21425 | | | ORIE N YOUNG AND BERNIE A | TH EXPLORATION, LLC | 1/8+ | 957 | 29 | NA | NA | NA | NA | NA | NA | INA |
| 10*21425 | ۳ | 5-23-5 | TOONG | III EXPLORATION, LEC | 1/01 | 33, | | , , , , , , , , , , , , , , , , , , , | | | | | | |
| 10*21428 | D | 5-23-5 | FRANCIS R SMITH AND ANNA M SMITH | TH EXPLORATION, LLC | 1/8+ | 957 | 37 | NA | NA | NA | NA | NA | NA | NA |
| | ! | | | | | | | | | | | | | |
| 10*21434 | D | 5-23-5 | CATHERINE HUMMEL | TH EXPLORATION, LLC | 1/8+ | 957 | 33 | NA | NA | NA | NA | NA | NA | NA |
| | | | RICHARD RICH AND KAREN | THEY DO DATION IIC | 1/0. | 954 | 254 | NA | NA | NA | .NA | NA | NA | NA . |
| 10*21451 | D | 5-23-5 | RICH | TH EXPLORATION, LLC | 1/8+ | 954 | 254 | INA | IVA | NA . | NA . | INA . | 100 | INA. |
| 40424452 | | F 22 F | VIAMBERI V COV | TH EXPLORATION, LLC | 1/8+ | 954 | 262 | NΔ | NA . | NA | NA | NA | NA | NA . |
| 10*21452 | ט | 5-25-5 | KIMBERLY COX | ITT EXPLORATION, LLC | 1/0+ | 734 | 202 | ING. | NA . | N/3 | 147 | | | 1777 |
| 10*21457 | D | 5-23-5 | WARREN L COULTER AND ROSLINA A COULTER | TH EXPLORATION, LLC | 1/8+ | 954 | 249 | NA | NA JORIZEROLD IEIUEURO | holl in | NA | NA | NA | NA |
| | | | HUSTON A SMITH JR AND | | | | | | Olos barr | NA CANADAM | | | | |
| 10*21458 | D | 5-23-5 | | TH EXPLORATION, LLC | 1/8+ | 957 | 45 | NA | NA | NA | NA | NA | NA | NA |

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|----------|---|----------|---|---------------------|------|-----|-----|----|------------------|-------------|----|----|-------|-------|
| | | | | | | | | | | | | | 47051 | 02060 |
| 10*21459 | D | 5-23-5 | JAMES L CHURCH | TH EXPLORATION, LLC | 1/8+ | 957 | 41 | NA | NA | NA | NA | NA | NA | NA |
| | | | | | | | | | | | | | | |
| 10*21498 | D | | MABEL SHILLINGBURG AND CLIFFORD SHILLINGBURG | TH EXPLORATION, LLC | 1/8+ | 954 | 258 | NA | NA | NA . | NA | NA | NA | NA NA |
| | | <u> </u> | | | | | | | | | | | | |
| 10*21500 | D | | MATTHEW COULTER AND SIMONE COULTER | TH EXPLORATION, LLC | 1/8+ | 954 | 245 | NA | NA | NA | NA | NA | NA | NA |
| | | | | | | | | | | | | : | | |
| 10*21501 | D | 5-23-5 | EUGENIA E HOUSER | TH EXPLORATION, LLC | 1/8+ | 954 | 241 | NA | NA | NA | NA | NA | NA | NA |
| | | | | | | | | | | | | | | |
| 10*21502 | D | 5-23-5 | DEBRA MURIN | TH EXPLORATION, LLC | 1/8+ | 954 | 237 | NA | NA | NA | NA | NA | NA | NA |
| | | | | | | | | | | | | | | |
| 10*21503 | D | 5-23-5 | DARLENE M DAVIS | TH EXPLORATION, LLC | 1/8+ | 954 | 233 | NA | NA | NA | NA | NA | NA | NA |
| | : | | | | | | | | | | | | | |
| 10*21562 | D | | MARY ETTA TAYLOR AND GARY W TAYLOR | TH EXPLORATION, LLC | 1/8+ | 958 | 414 | NA | NA | NA | NA | NA | NA | NA |
| | | | | | | | | | | | | | | |
| 10*21563 | D | 5-23-5 | DAVID R TAYLOR AND MARIA TAYLOR | TH EXPLORATION, LLC | 1/8+ | 958 | 422 | NA | NA | MANUORNIE . | NA | NA | NA | NA |
| | | | | | | | | | natceloid in the | US 8 I WILL | | | | |
| 10*21565 | D | 5-23-5 | KORENE SUE LANTZ | TH EXPLORATION, LLC | 1/8+ | 957 | 462 | NA | NA 9 | We go go | NA | NA | NA | NA |

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|----------|----------|--------|---|---------------------|------|-----|-----|-----|-----------------|--|------|-----|-------|--------|
| | | | HERBERT M TAYLOR AND | THE CYDI ODATION HE | 1/0: | 958 | 418 | NA. | NA | NA | NA | NA | NA | |
| 10*21566 | <u> </u> | 5-23-5 | LENORA E TAYLOR | TH EXPLORATION, LLC | 1/8+ | 936 | 410 | INA | INA | IVA | INA | INA | INA | NA . |
| | | | | | | | | | | | | | | |
| 10*21615 | D | 5-23-5 | GARY PARSONS AND JOANN J PARSONS | TH EXPLORATION, LLC | 1/8+ | 959 | 347 | NA | NA | NA | NA | NA | NA | NA |
| | | | | | | | | | | | | | | |
| 10*21626 | | 5 22 5 | CLARENCE RANDALL EMERY AND PAULA JEAN EMERY | TH EXPLORATION, LLC | 1/8+ | 958 | 344 | NA | NA | NA | NA | NA | NA | NA . |
| 10*21626 | ۲ | 5-23-5 | AND PAOLA JEAN EINERS | TH EXPLORATION, LLC | 1/6+ | 336 | 344 | l l | INA. | INA. | NA . | INA | INA . | INC. |
| | | | | | | | | | | | | | | |
| 10*21631 | D | 5-23-5 | FAYE CAMPBELL | TH EXPLORATION, LLC | 1/8+ | 959 | 343 | NA | NA | NA | NA | NA | NA | NA |
| | | | | | | | | | | | | | | |
| | i | | | | | | | | | | | | | |
| 10*21632 | D | 5-23-5 | JOHN ARLES EMERY | TH EXPLORATION, LLC | 1/8+ | 959 | 339 | NA | NA | NA | NA | NA | NA | NA |
| | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |
| 10*21655 | D | 5-23-5 | STANLEY GUSTELY | TH EXPLORATION, LLC | 1/8+ | 959 | 335 | NA | NA | NA | NA | NA | NA | NA |
| | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |
| 10*21656 | D | 5-23-5 | JOHN OBLOY AND JANET L OBLOY | TH EXPLORATION, LLC | 1/8+ | 959 | 331 | NA | NA | NA | NA | NA | NA | NA |
| | | | | | | | | | | THE WAS THE THE THE THE THE THE THE THE THE THE | | | | |
| | | | | | | | • | | nd ¹ | aneura NN | | | | |
| 10*21657 | D | 5-23-5 | RONALD J SALKOVICK JR & SANDRA SALKOVICK | TH EXPLORATION, LLC | 1/8+ | 958 | 373 | NA | NA HOLDERO | NA MUL | NA | NA | NA | NA |
| | | | | | | | | | , | NA OZNIZOZIA OS BIL NO O SOMO OS BIL NO O SOMO | | | | |
| | | | | | | | | | 8 | AEGNA NADAH | | | | |
| 10*21774 | Ь | 5-23-5 | JOYCE KAY BURTON AND SAMUEL C BURTON | TH EXPLORATION, LLC | 1/8+ | 957 | 467 | NA | NA | NA CO | NA | NA | NA | NA |

| г | - 1 | | | - | | 1 | | | I | | <u></u> | 1 | <u> </u> | |
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| | | | | | | | | | | | | | 4705 | 102060 |
| 10*21813 | D | | STUART WHITE AND BETTY WHITE | TH EXPLORATION, LLC | 1/8+ | 958 | 352 | NA | NA | NA | NA | NA | NA | NA |
| | | | | | | | | | | | | | | |
| 10*21815 | D | 5-23-5 | JAMES NEAL EMERY AND RENEE R EMERY | TH EXPLORATION, LLC | 1/8+ | 958 | 348 | NA | NA | NA | NA | NA | NA | NA |
| | | | CINDY GREEN AND LARRY | | | | | | | | | | | |
| 10*21816 | D | 5-23-5 | GREEN | TH EXPLORATION, LLC | 1/8+ | 958 | 356 | NA | NA | NA | NA | NA | NA . | NA |
| 10*21817 | D | 5-23-5 | MARY LOU HLINKA AND RICHARD G HLINKA SR | TH EXPLORATION, LLC | 1/8+ | 959 | 514 | NA | NA | NA | NA | NA | NA | INA |
| 10*21819 | | | MARY CATHERINE THOMS | TH EXPLORATION, LLC | 1/8+ | 958 | 360 | NA | NA | NA | NA | NA | NA | NA |
| | | | MARION DAVID AND JANICE L | TH EXPLORATION, LLC | 1/8+ | 959 | 506 | NA | NA | NA | NA | NA . | NA | NA |
| 10*21820 | <u> </u> | 5-25-5 | | IN EXPLONATION, LLC | 1/01 | 333 | 300 | | NO. | INC | INO. | INC. | | |
| 10*21832 | D | 5-23-5 | MARQUITA CLYBURN | TH EXPLORATION, LLC | 1/8+ | 959 | 510 | NA | NA | MEMBANONNE | NA | NA | NA | NA |
| 10*21948 | D | 5-23-5 | BARBARA H COAKLEY | TH EXPLORATION, LLC | 1/8+ | 960 | 66 | NA | NA JON | Manage Mar | NA | NA | NA | NA |
| 10*21949 | D | 5-23-5 | ROBIN ADAIR GUMP AND LOUIS M GUMP | TH EXPLORATION, LLC | 1/8+ | 960 | 70 | NA | NA . | BILLE WAS BOND SOUTH | NA NA | NA | NA | NA |

| -23-5 | JUDITH A TAYLOR | TH EXPLORATION, LLC | 1/8+ | | | | | l | 1 | l | 47051 | VZUDU |
|---------------|----------------------|--|---|--|--|--|---|---|---|--|--|---|
| -23-5 | JUDITH A TAYLOR | TH EXPLORATION, LLC | 1/8+ | - 1 | | | | | | | | |
| | | | 1,0. | 960 | 74 | NA | NA | NA | NA | NA | NA | NA |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| -23-5 | CHARLES DOUGLAS LANE | TH EXPLORATION, LLC | 1/8+ | 960 | 77 | NA | NA | NA | NA | NA | NA | NA |
| i | | | | | | | | | | | | |
| 22.5 | MAELICCA I DADDOW | TH EVDI OPATION IIIC | 1/0. | 054 | 220 | NA. | NA. | NA. | l _{NA} | NA. | NA. | NA |
| -25-5 | WELISSA E DARROW | TH EXPLORATION, LLC | 1/0+ | 934 | 320 | NA | NA . | | | | | |
| | | | | | | | | | | | | |
| -23-5 | CHARLES J KNOX | TH EXPLORATION, LLC | 1/8+ | 966 | 112 | NA | NA | NA | NA | NA | NA | NA |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | * |
| -23-5 | SHERMAN E KNOX JR | TH EXPLORATION, LLC | 1/8+ | 966 | 108 | NA | NA | NA . | NA | NA | NA | NA |
| | | | | | | | | | | | | |
| 32 E | VATULEEN PODERTSON | TH EVELOPATION II.C | 1/94 | 960 | 520 | NA | NA. | NA. | INA | NA. | NA . | NA |
| -23-3 | RATTLEEN ROBERTSON | THEAT LORATION, LLC | 1/8+ | 300 | 333 | NA . | | | | | | |
| | | | | | | | | | | | | |
| -23-5 | KEVIN D CHURCH | TH EXPLORATION, LLC | 1/8+ | 957 | 49 | NA | NA | NA | NA | NA | NA | NA |
| | | | | | | | | OHALE | | | | |
| | STEPHEN C EMERY AND | | | | | | | Shenge VW | | | | |
| | | TH EXPLORATION, LLC | 1/8+ | 954 | 310 | NA | NA OND ON | 1 4/1 | NA . | NA | NA | NA |
| | | | | | | | 2. 10. | 1018 10 Parks | | | | |
| | | THE EVEL OR ATION H.C. | 4/0. | 254 | 24.4 | | | MASS PRE INTO | NA. | NA. | lna. | NA |
| - <u>2</u> -2 | 3-5 3-5 3-5 | 3-5 MELISSA L DARROW 3-5 CHARLES J KNOX 3-5 SHERMAN E KNOX JR 3-5 KATHLEEN ROBERTSON 3-5 KEVIN D CHURCH 3-5 STEPHEN C EMERY AND CATHY J EMERY TODD LEARN AND KENDA | 3-5 MELISSA L DARROW TH EXPLORATION, LLC 3-5 CHARLES J KNOX TH EXPLORATION, LLC 3-5 SHERMAN E KNOX JR TH EXPLORATION, LLC 3-5 KATHLEEN ROBERTSON TH EXPLORATION, LLC 3-5 KEVIN D CHURCH TH EXPLORATION, LLC 3-5 TEPHEN C EMERY AND CATHLY J EMERY THE EXPLORATION, LLC TODD LEARN AND KENDA | 3-5 MELISSA L DARROW TH EXPLORATION, LLC 1/8+ 3-5 CHARLES J KNOX TH EXPLORATION, LLC 1/8+ 3-5 SHERMAN E KNOX JR TH EXPLORATION, LLC 1/8+ 3-5 KATHLEEN ROBERTSON TH EXPLORATION, LLC 1/8+ 3-5 KEVIN D CHURCH TH EXPLORATION, LLC 1/8+ TODD LEARN AND KENDA | 3-5 MELISSA L DARROW TH EXPLORATION, LLC 1/8+ 954 3-5 CHARLES J KNOX TH EXPLORATION, LLC 1/8+ 966 3-5 SHERMAN E KNOX JR TH EXPLORATION, LLC 1/8+ 966 3-5 KATHLEEN ROBERTSON TH EXPLORATION, LLC 1/8+ 960 3-5 KEVIN D CHURCH TH EXPLORATION, LLC 1/8+ 957 STEPHEN C EMERY AND CATHY J EMERY TODD LEARN AND KENDA | 3-5 MELISSA L DARROW TH EXPLORATION, LLC 1/8+ 954 328 3-5 CHARLES J KNOX TH EXPLORATION, LLC 1/8+ 966 112 3-5 SHERMAN E KNOX JR TH EXPLORATION, LLC 1/8+ 966 108 3-5 KATHLEEN ROBERTSON TH EXPLORATION, LLC 1/8+ 960 539 3-5 KEVIN D CHURCH TH EXPLORATION, LLC 1/8+ 957 49 3-5 STEPHEN C EMERY AND CATHY J EMERY THE EXPLORATION, LLC 1/8+ 954 310 TODD LEARN AND KENDA | 3-5 MELISSA L DARROW TH EXPLORATION, LLC 1/8+ 954 328 NA 3-5 CHARLES J KNOX TH EXPLORATION, LLC 1/8+ 966 112 NA 3-5 SHERMAN E KNOX JR TH EXPLORATION, LLC 1/8+ 966 108 NA 3-5 KATHLEEN ROBERTSON TH EXPLORATION, LLC 1/8+ 960 539 NA 3-5 KEVIN D CHURCH TH EXPLORATION, LLC 1/8+ 957 49 NA 3-5 STEPHEN C EMERY AND CATHLY J EMERY THE EXPLORATION, LLC 1/8+ 954 310 NA | 3-5 MELISSA L DARROW TH EXPLORATION, LLC 1/8+ 954 328 NA NA 3-5 CHARLES J KNOX TH EXPLORATION, LLC 1/8+ 966 112 NA NA 3-5 SHERMAN E KNOX JR TH EXPLORATION, LLC 1/8+ 966 108 NA NA 3-5 KATHLEEN ROBERTSON TH EXPLORATION, LLC 1/8+ 960 539 NA NA 3-5 KEVIN D CHURCH TH EXPLORATION, LLC 1/8+ 957 49 NA NA | 3-5 MELISSA L DARROW TH EXPLORATION, LLC 1/8+ 954 328 NA NA NA NA 3-5 CHARLES J KNOX TH EXPLORATION, LLC 1/8+ 966 112 NA NA NA NA 3-5 SHERMAN E KNOX JR TH EXPLORATION, LLC 1/8+ 966 108 NA NA NA NA 3-5 KATHLEEN ROBERTSON TH EXPLORATION, LLC 1/8+ 960 539 NA NA NA NA 3-5 KEVIN D CHURCH TH EXPLORATION, LLC 1/8+ 957 49 NA NA NA NA | 3-5 MELISSA L DARROW TH EXPLORATION, LLC 1/8+ 954 328 NA NA NA NA NA NA NA NA NA NA NA NA NA | 3-5 MELISSA L DARROW TH EXPLORATION, LLC 1/8+ 954 328 NA NA NA NA NA NA NA NA NA NA NA NA NA | 3-5 MEUSSA L DARROW TH EXPLORATION, LLC 1/8+ 954 328 NA NA NA NA NA NA NA NA NA NA NA NA NA |

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| 22102 | D S | 5-23-5 | BONNIE LOU GRUBER | TH EXPLORATION, LLC | 1/8+ | 954 | 302 | NA | NA | NA | NA | NA | NA | NA |
| | | | | | | | | | | | | | | |
| 22128 | D ! | 5-23-5 | BETTY PYSELL | TH EXPLORATION, LLC | 1/8+ | 961 | 433 | NA | NA | NA | NA | NA | NA | NA |
| | | | | | | | | | | | | | | |
| 22142 | D ! | 5-23-5 | CHERYL HILL | TH EXPLORATION, LLC | 1/8+ | 961 | 423 | NA . | NA | NA | NA | NA | NA | NA |
| | | | WANDA J AND GERALD R | THEY DIGITAL HE | 1/0. | 061 | 426 | NA. | 2012 | NA | NA. | No | NA. | |
| 22143 | D | 5-23 - 5 | RIDING | TH EXPLORATION, LLC | 1/8+ | 961 | 426_ | NA | NA . | NA | NA | NA . | NA | NA . |
| | | | VICKY AND DENNIS STRAUSS | TH EVOLODATION I.I.C | 1/8+ | 961 | 429 | NA . | NA | NA | NA | NA | NA | NA |
| 22144 | U | 5-25-5 | VICKT AND DENINGS STAGES | THEAT CONATION, LEC | 1/6+ | 901 | 423 | | | | PIO. | NA. | No. | |
| 22165 | | | DEBRA L LYSESKI AND GERALD A LYSESKI | TH EXPLORATION, LLC | 1/8+ | 954 | 306 | NΔ | NA | NA | NA . | NA | NA NA | NA |
| | | | ANGELA AND WILLIAM R | | | | | | | | | | | |
| *22178 | D | 5-23-5 | HENTHORN | TH EXPLORATION, LLC | 1/8+ | 949 | 196 | NA | NA | NA | NA . | NA | NA | NA |
| | | | ANTHONY M AND CHANDRA | | | | | | · | Filan | | | | |
| *22180 | D | 5-23-5 | TAYLOR | TH EXPLORATION, LLC | 1/8+ | 949 | 186 | NA | NA | NA PARAMOUNTE | NA | NA | NA | NA |
| *77191 | | 5-23-5 | BRIAN S AND CAROLYN SUE | TH EXPLORATION, ILC | 1/8+ | 949 | 191 | NA NA | NA . | NA Department of NUL | | NA NA | NA | NA |
| *22181 | D | 5-23-5 | BRIAN S AND CAROLYN SUE TAYLOR | TH EXPLORATION, LLC | 1/8+ | 949 | 191 | NA | NA . | HECENED GBS | | NA | NA | |

| | | | | | | | | | | | | | 4705 | 02060 |
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| 10*22287 | D | 5-23-5 | MISSY AND MICHAEL JONES | TH EXPLORATION, LLC | 1/8+ | 962 | 195 | NA | NA | NA | NA | NA | NA . | NA |
| | | | DORIS WEST AND ROBERT | : | | | | | | | | | | |
| 10*22332 | D | | | TH EXPLORATION, LLC | 1/8+ | 962 | 542 | NA | NA | NA | NA | NA | NA | NA |
| 10*22339 | D | 5-23-5 | BETTY L LOY | TH EXPLORATION, LLC | 1/8+ | 963 | 392 | NA | NA | NA | NA . | NA . | NA | NA |
| | | | | | | | | | | | | | | |
| 10*22354 | D | 1 | LORETTA M AND DAVID DOUGHERTY | TH EXPLORATION, LLC | 1/8+ | 964 | 516 | NA | NA | NA | NA | NA | NA | NA |
| | | | | | | | | | | | | | | |
| 10*22436 | D | 5-23-5 | TESSEAN FAMILY REVOCABLE TRUST | TH EXPLORATION, LLC | 1/8+ | 963 | 626 | NA | NA | NA | NA | NA | NA | NA |
| | | | | | | | | | | | | | | |
| 10*22437 | D | 5-23-5 | SHERRY L AND DANIEL IMRIE | TH EXPLORATION, LLC | 1/8+ | 963 | 631 | NA . | NA . | NA . | NA | NA . | NA | NA |
| | | | | | | | | | | | | | | |
| 10*22440 | D | 5-23-5 | EUGENE FANKHAUSER | TH EXPLORATION, LLC | 1/8+ | 963 | 153 | NA | NA | NA . | NA | NA | NA | NA |
| | | | | | | i | | | | | | | | |
| 10*22443 | D | 5-23-5 | GATHA CHAMBERS | TH EXPLORATION, LLC | 1/8+ | 963 | 622 | NA | NA | NA | NA | NA | NA | NA |
| | | | | | | | | | uonaen | MA Department Programment Prog | | | | |
| 10*22450 | D | 5-23-5 | JUDY ANN MERCER | TH EXPLORATION, LLC | 1/8+ | 963 | 634 | NA | NA NA | NA T NOT | NA | NA | NA | NA |

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| 10*22503 | D | 5-23-5 | KENNETH R AND DONNA K SHAW | TH EXPLORATION, LLC | 1/8+ | 966 | 518 | NA | NA | NA | NA | NA | NA | NA |
| | | | | | | | | | | | | | | |
| 10*22504 | D | 5-23-5 | MELVIN FANKHAUSER | TH EXPLORATION, LLC | 1/8+ | 974 | 351 | NA | NA | NA | NA | NA | NA | NA |
| 10*22505 | D | 5-23-5 | JAMES D AND DONNA K DRAKE | TH EXPLORATION, LLC | 1/8+ | 964 | 425 | NA | NA | NA | NA | NA | NA | NA |
| 10*22509 | D | 5-23-5 | RANDY AND LINDA JO BERISFORD | TH EXPLORATION, LLC | 1/8+ | 964 | 429 | NA | NA | NA | NA | NA | NA | NA |
| 10*22560 | | 5-22-5 | RONALD J KELLER | TH EXPLORATION, LLC | 1/8+ | 965 | 485 | NA | NA | NA NA | NA | NA | NA | NA |
| | | | RUSSELL W AND SUSAN | | | | | | | | | | | |
| 10*22592 | D | 5-23-5 | ROGERSON | TH EXPLORATION, LLC | 1/8+ | 966 | 119 | NA | NA | NA . | NA | NA | NA | NA |
| 10*22593 | D | 5-23-5 | RONALD E ROGERSON | TH EXPLORATION, LLC | 1/8+ | 966 | 116 | NA | NA | NA | | NA | NA | NA |
| 10*22564 | | E 22 E | JAMES WADE | TH EXPLORATION, LLC | 1/8+ | 965 | 481 | NA | NA | MA Department of | NA NA | NA | NA | NA |
| 10*22594 | , b | 3-43-3 | JAINIES WADE | III EAFLORATION, LLC | 1/0+ | 303 | 401 | IV. | III. | NA T 8 SO/8 ECEINED | offic | pro- | | |
| 10*22609 | D | 5-23-5 | KATHY JO CULLUM | TH EXPLORATION, LLC | 1/8+ | 966 | 514 | NA | NA | NA | | NA | NA | NA |

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| 10*22613 | D | 5-23-5 | JEWEL L CAMPBELL | TH EXPLORATION, LLC | 1/8+ | 966 | 510 | NA | NA | NA | NA | NA | NA | NA |
| | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |
| 10*22644 | D | 5-23-5 | RICHARD EUGENE KELLER | TH EXPLORATION, LLC | 1/8+ | 968 | 214 | NA . | NA | NA | NA | NA | NA | NA |
| | | | | | | | | | | | | | | |
| 10*22779 | n | 5-23-5 | STEVEN WADE | TH EXPLORATION, LLC | 1/8+ | 968 | 424 | NA | NA . | NA . | NA | NA . | INA | NA |
| 10 22/75 | ٦ | 5-25-5 | J. C. C. C. C. C. C. C. C. C. C. C. C. C. | | 3,0 | | | | | | | | | |
| | | | | | | | | | | | | | | |
| 10*22809 | D | | MARGARET AND WILLIAM MCMURRAY | TH EXPLORATION, LLC | 1/8+ | 972 | 54 | NA | NA | NA | NA | NA | NA | NA |
| | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | ļ |
| 10*22811 | D | 5-23-5 | ROBERT E ROGERSON | TH EXPLORATION, LLC | 1/8+ | 972 | 64 | NA | NA | NA | NA | NA | NA | NA |
| | | | | | | | | | • | | | | | |
| 10*22812 | D | 5-23-5 | JOSEPH F GOBLOWSKY | TH EXPLORATION, LLC | 1/8+ | 968 | 428 | NA | NA | NA | NA | NA | NA | NA |
| | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |
| 10*22813 | D | 5-23-5 | WANDA M BLAKE | TH EXPLORATION, LLC | 1/8+ | 974 | 171 | NA | NA | NA | NA | NA | NA | NA |
| | | | | | | | | | | Burn. | Environm | | | |
| 10*22861 | _ n | 5-23-5 | LAURINE C AND EDGAR A | TH EXPLORATION, LLC | 1/8+ | 976 | 147 | NA | NA . | va of and and and and and and and and and and | NA NA | NA | NA | NA |
| 10 22001 | ۲ | 5 25-5 | | | | | | | | 8 2018 | NUL | | | |
| | | | | CHECADEANE ADDALACINA | | | | | | Sinc o | Operations, LLC to Staton | 33/110 Chesapeake | 41/238 Statoil USA | 41/256 SWN Production |
| 10*17192 | E | 5-23-8 | ROBERT J HENRY | CHESAPEAKE APPALACHIA | 1/8+ | 716 | 193 | NA | NA | NED AN | linc Properties | Appalachia, LLC to SWN Production Company, LLC | Onshore Properties Inc to TH Exploration, LLC | Company, LLC to TH Exploration, LLC |

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| 10*19722 | E | | MASTER MINERAL HOLDINGS I LP | AMERICAN PETROLEUM PARTNERS LLC | 1/8+ | 912 | 105 | NA | NA | NA | NA | NA | NA | 40/408 American Petroleum Partners Operating, LLC to TH Exploration, LLC |
| | | | | | | | | | | | | | | |
| | | | - | | | | | | | | | | | |
| İ | - | | DOMINION ENERGY | | | | | | | | <u> </u> | | l | l |
| 10*18343 | F | 5-23-14 | TRANSMISSION INC | TH EXPLORATION, LLC | 1/8+ | 936 | 79 | NA . | NA | NA | NA | NA | NA | NA |
| | | | | | | | | | | | 29/325 Chesapeake Appalachia, LLC to Statoil | 33/110 Chesapeake | 41/238 Statoil USA | 41/256 SWN Production |
| | | | | CHESAPEAKE APPALACHIA | | | | | | | USA Onshore Properties | Appalachia, LLC to SWN | Onshore Properties Inc to | • |
| 10*17189 | G | 5-23-9.2 | ROBERT J HENRY | ITC | 1/8+ | 716 | 197 | NA | NA | NA | Inc | Production Company, LLC | TH Exploration, LLC | Exploration, LLC |
| | | | | | | | | | | | | | | |
| | | | | GASTAR EXPLORATION USA, | | | | | | | | | 21/41 Gastar Exploration USA Inc to Gastar | 36/9 Gastar Exploration, Inc. to TH Exploration II, |
| 10*14785 | н | 5-23-13 | DAVID W. STRAUCH | INC | 1/8+ | 799 | 64 | NA | NA | NA | NA | NA | Exploration, Inc | иc |
| 10*14786 | н | 5-23-13 | TWILA ORA WHIPKEY | GASTAR EXPLORATION USA, | 1/8+ | 799 | 61 | NA | NA | NA | NA | NA | 21/41 Gastar Exploration USA Inc to Gastar Exploration, Inc | 36/9 Gastar Exploration, Inc. to TH Exploration II, LLC |
| 10*14787 | н | 5.23.13 | PHILLIP YOHO | GASTAR EXPLORATION USA, | 1/8+ | 799 | 67 | NA | NA | INA | NA | NA | 21/41 Gastar Exploration USA Inc to Gastar Exploration, Inc | 36/9 Gastar Exploration, Inc. to TH Exploration II, LLC |
| 10 14/8/ | | 3-23-13 | THIELE TOTIO | | | | | | | | | | | |
| 10*14788 | н | 5-23-13 | JOANNE E. RAY | GASTAR EXPLORATION USA, | 1/8+ | 799 | 69 | NA | NA | NA | NA | NA | 21/41 Gastar Exploration USA Inc to Gastar Exploration, Inc | 36/9 Gastar Exploration, Inc. to TH Exploration II, LLC |
| 23 21.130 | Ë | | | | | | | | | | | | | |
| 10*14789 | Н | 5-23-13 | MARILYN JEAN NOEL | GASTAR EXPLORATION USA, | 1/8+ | 799 | 448 | NA | NA notoelorge NA NA NA NA NA NA NA NA NA NA NA NA NA | NONNUS O NM NA | NA | NA | 21/41 Gastar Exploration USA Inc to Gastar Exploration, Inc | 36/9 Gastar Exploration, Inc. to TH Exploration II, LLC |
| 10*14790 | н | 5-23-13 | ROBERT CRAIG MONTGOMERY | GASTAR EXPLORATION USA, | 1/8+ | 799 | 547 | NA | NA SESTIN | ENECEMO ON SOMO I NUL | NA | NA | 21/41 Gastar Exploration USA Inc to Gastar Exploration, Inc | 36/9 Gastar Exploration, Inc. to TH Exploration II, LLC |

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| | | | | | | | | | | | | | 4703 | 02000 |
| 10*14791 | н | 5-23-13 | DEBORAH BLOUGH | GASTAR EXPLORATION USA, | 1/8+ | 799 | 538 | NA | NA | NA | NA | NA | 21/41 Gastar Exploration USA Inc to Gastar Exploration, Inc | 36/9 Gastar Exploration, Inc. to TH Exploration II, LLC |
| | | | | | | | | | | | | | | |
| 10*14792 | н | 5-23-13 | тімотну уоно | GASTAR EXPLORATION USA, | 1/8+ | 799 | 536 | NA | NA | NA | NA | NA | | 36/9 Gastar Exploration, Inc. to TH Exploration II, LLC |
| | | | | | | | | | | | | | | |
| 10*14793 | н | 5-23-13 | CLARENCE RICHARD ZESIGER & MAR | GASTAR EXPLORATION USA, | 1/8+ | 799 | 543 | NA | NA | NA | NA | NA | 21/41 Gastar Exploration USA Inc to Gastar Exploration, Inc | 36/9 Gastar Exploration, Inc. to TH Exploration II, LLC |
| | | | | | | | | | | | | | | |
| 10*14794 | н | 5.22.13 | COLIN YOHO | GASTAR EXPLORATION USA, | 1/8+ | 799 | 529 | NA | NA | NA | NA | NA | 21/41 Gastar Exploration USA Inc to Gastar Exploration, Inc | 36/9 Gastar Exploration, Inc. to TH Exploration II, LLC |
| 10 14734 | | 3-23-13 | COLIN TOTIO | | 1,0. | ,,,, | 013 | | | | | | | |
| 10*14795 | н | 5-23-13 | LARRY YOHO | GASTAR EXPLORATION USA, | 1/8+ | 799 | 526 | NA | NA | NA | NA | NA | 21/41 Gastar Exploration USA Inc to Gastar Exploration, Inc | 36/9 Gastar Exploration, Inc. to TH Exploration II, LLC |
| | | 5 22 42 | WIAADEDI V.C. DEALNIV | GASTAR EXPLORATION USA, | 1/8+ | 799 | 540 | NA | NA | ·NA | NA | NA | 21/41 Gastar Exploration USA Inc to Gastar Exploration, Inc | 36/9 Gastar Exploration, Inc. to TH Exploration II, LLC |
| 10*14796 | Н | 5-23-13 | KIMBERLY S. DENNY | INC | 1/8+ | 799 | 540 | INA | INA | INA | IVA | IVA | Exploration, Inc | |
| 10*14798 | н | 5-23-13 | CECILIA D. NEWLAND | GASTAR EXPLORATION USA, | 1/8+ | 800 | 609 | NA | NA | NA | NA | NA | 21/41 Gastar Exploration USA Inc to Gastar Exploration, Inc | 36/9 Gastar Exploration, Inc. to TH Exploration II, LLC |
| | | | | | | | | | | | | | | |
| 10*14799 | н | 5-23-13 | PAMELA L. DRAZIC & JEFF DRAZIC | GASTAR EXPLORATION USA, | 1/8+ | 800 | 611 | NA | NA | RA CANA | NA | NA | 21/41 Gastar Exploration USA Inc to Gastar Exploration, Inc | 36/9 Gastar Exploration, Inc. to TH Exploration II, LLC |
| | | | | | | | | | ISTUBLINO | Jr. | | | | |
| 10*14800 | Н | 5-23-13 | DAPHNE HUFFMAN & CHARLES HUFFM | GASTAR EXPLORATION USA, | 1/8+ | 800 | 613 | NA | NA JOE & I | WUL WW | ,NA | NA | 21/41 Gastar Exploration USA Inc to Gastar Exploration, Inc | 36/9 Gastar Exploration, Inc. to TH Exploration II, LLC |

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HECENED | | | | <u> </u> | | | | | <u> </u> | ľ | 1 | 1 | 4705 | 02060 |
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| | | | | | | | | | | | | | | , 02000 |
| | | | | | | | | | | | | | 21/41 Gastar Exploration | 36/9 Gastar Exploration, |
| | | | GARY WAYNE ZESIGER & | GASTAR EXPLORATION USA, | 4.00 | | car | A1 A | | la la | NA . | l _{ALA} | USA Inc to Gastar | Inc. to TH Exploration II, |
| 10*14801 | H | 5-23-13 | VICKIE ZE | INC | 1/8+ | 800 | 615 | NA | NA | NA | INA | NA. | Exploration, Inc | inc . |
| | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | 21/41 Gastar Exploration | 36/9 Gastar Exploration, |
| | | | M. VIRGINIA MARSH & | GASTAR EXPLORATION USA, | | | | | | | | | USA Inc to Gastar | Inc. to TH Exploration II, |
| 10*14802 | Н | 5-23-13 | EDWARD C. | INC | 1/8+ | 800 | 617 | NA | NA | NA | NA | NA | Exploration, Inc | иc |
| | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | 21/41 Gastar Exploration | 36/9 Gastar Exploration, |
| | 1 | | BARRY R. MOORE & | GASTAR EXPLORATION USA, | | | | | | | | | USA Inc to Gastar | Inc. to TH Exploration II, |
| 10*14803 | Н | 5-23-13 | MARGARET E. M | INC | 1/8+ | 800 | 619 | NA | NA | NA | NA | NA | Exploration, Inc | rrc |
| | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | 21/41 Gastar Exploration | 36/9 Gastar Exploration, |
| | | 1 | DEBORAH K. & FRANK | GASTAR EXPLORATION USA, | | | | | | | | | USA Inc to Gastar | Inc. to TH Exploration II, |
| 10*14804 | н | 5-23-13 | KLIMASZEWSK | INC | 1/8+ | 801 | 333 | NA | NA | NA | NA | NA | Exploration, Inc | иc |
| | | | | | | | | | | | | | | |
| | İ | | | | | | | | 1 | | | | | |
| | | | | GASTAR EXPLORATION USA, | | | | | | | | | 21/41 Gastar Exploration USA Inc to Gastar | 36/9 Gastar Exploration, Inc. to TH Exploration II, |
| 10*14805 | , н | 5-23-13 | HAROLD C. SIMMONS | INC | 1/8+ | 803 | 148 | NA | NA | NA | NA | NA | Exploration, Inc | LLC |
| | | | | | | | | | | | | | | |
| | | ľ | | | | | | | | | | | | |
| | | l | | | | | | | | | | | | 36/9 Gastar Exploration, |
| 10*14806 | ي ا | 5-22-12 | DONNA VIVIAN YOHO | GASTAR EXPLORATION USA, | 1/8+ | 809 | 558 | NA | NA | NA | NA | NA | USA Inc to Gastar Exploration, Inc | Inc. to TH Exploration II, |
| 10 14800 | | 5-25-15 | DOMINI TOTAL | | -, | | | | | | | | <u> </u> | |
| | | 1 | | | | | | | | | | | | |
| | 1 | | | | | | | | | | | | 21/41 Gastar Exploration | |
| | | | AANGE ALLIAUDENICCIBLE | GASTAR EXPLORATION USA, | 1/8+ | 809 | 555 | INA | NA NA | l _{NA} | NA | l _{NA} | USA Inc to Gastar Exploration, Inc | Inc. to TH Exploration II, |
| 10*14807 | / н | 5-23-13 | JANICE N HAUDENSCHILT | INC | 1/8+ | 809 | 333 | INA . | NA . | INA | INA | INA I | Exploration, inc | |
| | | | | | | | | | | | | | | |
| | | | | | | | | | | SHA S | | | 21/41 Gastar Exploration | 36/9 Gastar Exploration, |
| | | | | GASTAR EXPLORATION USA, | | | | | , eur | 12 | | | USA Inc to Gastar | Inc. to TH Exploration II, |
| 10*14808 | 3 H | 5-23-13 | DANA MILICIA HUMPHREYS | INC | 1/8+ | 809 | 552 | NA . | NA CITY | ANA C | NA | NA | Exploration, Inc | LLC |
| | | | | | | | | | A STOLOGISTIN | NA GREGISTA ON THE COMP | | | | |
| | | | | | | | | | legg by | 8 8 W | | 1 | 21/41 Gastar Exploration | 36/9 Gastar Exploration |
| 1 | | | | GASTAR EXPLORATION USA, | | | | | | A THOUSE | | | USA Inc to Gastar | Inc. to TH Exploration II, |
| 10*14809 | 9 н | 5-23-13 | DEWEY A. MILICIA | INC | 1/8+ | 809 | 549 | NA | NA % | NA Q. SIL. | NA | NA | Exploration, Inc | uc |

| | | | | | | | | | | | | | 4705 | 4 0 0 |
|----------|---|---------|---------------------------------|-------------------------|------|-----|-----|----|--|--|----|----|---|---|
| | | | | | | | | | | | | | 1703 | 102060 |
| 10*14810 | н | 5-23-13 | NICOLETTA MILICIA BLOODWORTH | GASTAR EXPLORATION USA, | 1/8+ | 809 | 546 | NA | NA | NA | NA | NA | 21/41 Gastar Exploration USA Inc to Gastar Exploration, Inc | 36/9 Gastar Exploration, Inc. to TH Exploration II, LLC |
| 10*14811 | Н | 5-23-13 | MARK YOHO AND MARY YOHO | GASTAR EXPLORATION USA, | 1/8+ | 809 | 543 | NA | NA | NA | NA | NA | 21/41 Gastar Exploration USA Inc to Gastar Exploration, Inc | 36/9 Gastar Exploration, Inc. to TH Exploration II, LLC |
| 10*14812 | н | 5-23-13 | DENISE ANN GALE | GASTAR EXPLORATION USA, | 1/8+ | 815 | 224 | NA | NA | NA | NA | NA | 21/41 Gastar Exploration USA Inc to Gastar Exploration, Inc | 36/9 Gastar Exploration, Inc. to TH Exploration II, LLC |
| 10*14813 | н | 5-23-13 | DEBRA JANE GALE | GASTAR EXPLORATION USA, | 1/8+ | 818 | 568 | NA | NA | NA | NA | NA | 21/41 Gastar Exploration USA Inc to Gastar Exploration, Inc | 36/9 Gastar Exploration, Inc. to TH Exploration II, LLC |
| 10*14822 | н | 5-23-13 | ONWARD E BURGE TRUST | GASTAR EXPLORATION INC | 1/8+ | 876 | 463 | NA | NA | NA | NA | NA | 21/41 Gastar Exploration USA Inc to Gastar Exploration, Inc | 36/9 Gastar Exploration, Inc. to TH Exploration II, LLC |
| 10*14823 | н | 5-23-13 | SARAH L BURGE TRUST | GASTAR EXPLORATION INC | 1/8+ | 876 | 459 | NA | NA | NA . | NA | NA | 21/41 Gastar Exploration USA Inc to Gastar Exploration, Inc | 36/9 Gastar Exploration, Inc. to TH Exploration II, LLC |
| 10*14969 | | | REBECCA S WORD | GASTAR EXPLORATION INC | 1/8+ | 872 | 219 | NA | NA | NA | NA | NA | 21/41 Gastar Exploration USA Inc to Gastar Exploration, Inc | 36/9 Gastar Exploration, Inc. to TH Exploration II, LLC |
| 10*14970 | | | GRACE EXLINE | GASTAR EXPLORATION INC | 1/8+ | 872 | 623 | NA | NA JUNE | F NA . | NA | NA | 21/41 Gastar Exploration USA Inc to Gastar Exploration, Inc | 36/9 Gastar Exploration, Inc. to TH Exploration II, LLC |
| 10*17822 | Н | 5-23-13 | ANTOINE E GERAUD | TH EXPLORATION, LLC | 1/8+ | 943 | 560 | NA | NA PARTIES OF THE PAR | NA 18 PROPERTY OF THE PROPERTY | NA | NA | NA | NA |

| Г Т | | | | | | - | - | | | | | | 4705 | 102060 |
|----------|----|---------|-------------------------------------|---------------------|------|-----|-----|-----|------|--|-----|------|------|--------|
| | | | | | | | | | | | | | | |
| 10*18114 | н | 5-23-13 | DARRELL NEWLAND | TH EXPLORATION, LLC | 1/8+ | 927 | 66 | NA | NA | NA | NA | NA | NA | NA |
| | | | | | | | | | | | | | | |
| | | | DONALD R NEWLAND AND | | | | | | | | | | | |
| 10*18115 | н | 5-23-13 | SUZANNE NEWLAND | TH EXPLORATION, LLC | 1/8+ | 927 | 73 | NA | NA | NA | NA | NA | NA | NA . |
| | | | | | | | | | | | | | | |
| 10*18369 | н | 5-23-13 | CRAIG ALAN YOHO AND DONNA M YOHO | TH EXPLORATION, LLC | 1/8+ | 931 | 303 | NA | NA | NA | NA | NA | NA | NA |
| | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |
| 10*18370 | н | 5-23-13 | SAMUEL D YOHO | TH EXPLORATION, LLC | 1/8+ | 931 | 300 | NA | NA | NA . | NA | NA | NA | NA |
| | | | DAVID N DEVICK TRUSTEE OF | | | | | | | | | | | |
| 10*18379 | н | 5-23-13 | THE TONI JO MASON LIVING TRUST | TH EXPLORATION, LLC | 1/8+ | 932 | 439 | NA | NA | NA | NA | NA | NA | NA |
| | | | | | | | | | : | | | | | |
| | | | | | | | | | | | | | NIA. | NA |
| 10*18541 | Н. | 5-23-13 | PATRICK P MCHENRY | TH EXPLORATION, LLC | 1/8+ | 933 | 649 | NA | NA | NA | NA | NA. | NA | INA |
| | | | | | | | | | | NA SURGERIA | | | | |
| 10*18818 | н | 5-23-13 | LUCILLE R MCHENRY | TH EXPLORATION, LLC | 1/8+ | 937 | 624 | NA | NA | NA JOHNO TH | NA | NA | NA | NA |
| | | | | | , | | | | | NA ROLL HER HOLD | þ | | | |
| | | | | THE SYDLODATION HE | 1/0: | 044 | 220 | l l | See. | S. O. WAY | | NA . | NA . | NA . |
| 10*19486 | H | 5-23-13 | BARBARA ANN MAYNARD | TH EXPLORATION, LLC | 1/8+ | 941 | 229 | NA | NA | SCHOOL STATE OF THE STATE OF TH | INA | IVO | INA | IIVA |
| | | | | | | | | | | | | | | |
| 10*19540 | Н | 5-23-13 | ERICA M MASON | TH EXPLORATION, LLC | 1/8+ | 942 | 53 | NA | NA | NA | NA | NA | NA | NA |

| r· | | | | T | т | - 1 | | | | <u> </u> | I | T | 4705° | 02060 |
|-----------|------------|----------|------------------------|----------------------------------|------|----------------|-----|-----------------|-------------|---|-------------|-------|-------|-----------|
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| | | | | | | | | | | | | | | |
| | | | | THE EVEN OF A TION IN C | 1/0. | 043 | C1 | 818 | NA | NA | NA . | INA . | NA . | NA |
| 10*19543 | Н | 5-23-13 | ROBERT I BONAR SR | TH EXPLORATION, LLC | 1/8+ | 942 | 61 | INA | NA | INA | INA | | No. | |
| | | | | , | | | | | | | | | | |
| | | | | | | | | | | | | | | |
| 10*19640 | н | 5-23-13 | MARGARET F RICHMOND | TH EXPLORATION, LLC | 1/8+ | 944 | 120 | NA | NA , - | NA | NA | NA | NA | NA |
| | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |
| | | | BRADFORD D LOWERY & | | | | | | | | | | | |
| 10*19641 | Н | 5-23-13 | DEBORAH BRADFORD | TH EXPLORATION, LLC | 1/8+ | 944 | 122 | NA | NA | NA . | NA | NA | NA | NA |
| | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |
| 10*19650 | ۱ . | 5_23_13 | CLAUDIA LOWERY MALLOY | TH EXPLORATION, LLC | 1/8+ | 944 | 99 | NA | NA . | NA | NA . | NA | NA | NA |
| 10 19030 | Ë | 3-23-13 | CONDITION ENTRY WINDER | | | | | | | | | | | |
| | | | | | i | | | | | | | | | |
| 1 | | | | | } | | | | | | | | | |
| 10*19652 | н | 5-23-13 | JACK R HAMMERS | TH EXPLORATION, LLC | 1/8+ | 944 | 108 | NA | NA | NA | NA | NA | NA | NA |
| | | | | | | | | | 1 | | | | | |
| | | | | | | | | | | | | | | |
| | | | | THE THE CONTINUE AND A TON A LOC | 1.0. | 054 | 440 | | NA . | NA . | INA | NA . | NA NA | NA |
| 10*19657 | H | 5-23-13 | JANET LEE SPARKS | TH EXPLORATION, LLC | 1/8+ | 964 | 440 | NA . | NA . | INA. | INA . | INA. | | |
| | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |
| 10*19662 | н | 5-23-13 | CHESTNUT HOLDINGS INC | TH EXPLORATION, LLC | 1/8+ | 949 | 311 | NA | NA | NONFEE | NA | NA | NA | NA |
| | | | | | | | | | <u></u> | in the | | | | |
| | | | | | | | 1 | | Que si | 1 1 10 10 10 10 10 10 10 10 10 10 10 10 | | | | |
| | İ | | CARL M MCHENRY AND | | | | | | Sec. 116 | Q 28 3 | | | | |
| 10*19732 | Н. | 5-23-13 | PAMELA MCHENRY | TH EXPLORATION, LLC | 1/8+ | 944 | 469 | NA | NA 35 T | NAN. TO ST | NA . | NA | NA | NA |
| | | | | | | | | | | NOTICE OF CHILD | | | | |
| | | | | | | | | | | * | | | | |
| 10*10050 | , , | 5.22.12 | JAMES MICHAEL YOHO | TH EXPLORATION, LLC | 1/8+ | 960 | 188 | l _{NA} | NA | NA . | NA NA | NA . | NA | NA |
| TO. TARDE |) <u> </u> | 13-43-13 | PAINES MICHAEL TOTO | III EAT CONTITION, LLC | -/0. | | | I | <u> </u> | L | | | ··· | |

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|----------|-----|---------|---------------------------------------|---------------------|------|-----|----------|------|------------------|----------------------|----------|------|------|-------|
| | | | | | | | i | | , | | | | | |
| 10*19903 | Н | 5-23-13 | PAUL F HAMMERS | TH EXPLORATION, LLC | 1/8+ | 948 | 236 | NA | NA | NA | NA | NA | NA | NA |
| | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |
| 10*19996 | н | 5-23-13 | CHARLES D WOOD | TH EXPLORATION, LLC | 1/8+ | 947 | 589 | NA | NA | NA | NA | NA | NA | NA |
| ! | | | | | | | | | | | | | | |
| 10*21073 | н | 5-23-13 | ARDITH R ROSE AND TOMMY E ROSE | TH EXPLORATION, LLC | 1/8+ | 951 | 608 | NA | NA | NA | NA | NA | NA | NA |
| | | | | | | | | | | | | | | |
| | | | MALCOLM E WOOD AND | | | | : | | | | | | | |
| 10*21074 | н | 5-23-13 | JOAN J WOOD | TH EXPLORATION, LLC | 1/8+ | 951 | 610 | NA | NA | NA . | NA | NA | NA | NA |
| | | | | | | | | | | | | | | |
| 10*21174 | н | 5-23-13 | SHAWN M WOOD | TH EXPLORATION, LLC | 1/8+ | 952 | 190 | NA | NA | NA . | NA | NA | NA | NA |
| ! | | | | | | | | | | | | | | |
| 10*21419 | l H | 5-23-13 | DAPHNE HUFFMAN AND CHARLES HUFFMAN | TH EXPLORATION, LLC | 1/8+ | 957 | 59 | NA | NA . | NA | NA | NA . | NA . | NA I |
| 20 22 12 | | 5 HO 25 | | | | | | | | | | | | |
| | | | GARY WAYNE ZESIGER & | , | | | | | | | | | | |
| 10*21431 | н | 5-23-13 | | TH EXPLORATION, LLC | 1/8+ | 957 | 57 | NA | NA | NA | NA | NA | NA | NA |
| | | | | | | | | | | CORNUT! | | | | |
| 10*21436 | н | 5-23-13 | CECILIA D NEWLAND | TH EXPLORATION, LLC | 1/8+ | 957 | 55 | NA . | NA LETTE | BOAM AND NO | NA . | NA . | NA | NA . |
| | | | | | | | <u> </u> | | . St. O. Liberty | O S THE PORT OF SHIP | | | | |
| | | | M VIRGINIA & EDWARD C | | | | | | | O Sue in house | | | | |
| 10*21439 | Н | 5-23-13 | | TH EXPLORATION, LLC | 1/8+ | 957 | 53 | NA | NA . | NAMO CO | NA | NA | NA | NA |

| | | | | | · · · · · · | ——— | | | 1 | T | 1 | · · · | T | |
|----------|---|---------|--|---------------------|-------------|-----|-----|-------------|-----------------|---------------|------|-------|-------|-------|
| 10*21469 | н | | KIMBERLY S DENNY AND JAMES E DENNY | TH EXPLORATION, LLC | 1/8+ | 957 | 244 | NA | NA | NA | NA | NA | 470 5 | 10206 |
| | | | | | | | | | | | | | | : |
| 10*21471 | н | 5-23-13 | RICHARD ROSS WILSON | TH EXPLORATION, LLC | 1/8+ | 960 | 190 | NA | NA | NA | NA | NA | NA | NA |
| 10*21620 | н | | ROBERT CRAIG MONTGOMERY AND CYNTHIA R MONTGOMERY | TH EXPLORATION, LLC | 1/8+ | 959 | 496 | NA | NA | NA | NA | NA | NA | NA |
| | | | | | | | | | | | | | | |
| 10*21621 | н | 5-23-13 | MARILYN NOEL | TH EXPLORATION, LLC | 1/8+ | 959 | 494 | NA | NA | NA | NA | NA | NA | NA |
| | | | CLARENCE RICHARD ZESIGER | | | | | | | | | | | |
| 10*21658 | н | | | TH EXPLORATION, LLC | 1/8+ | 959 | 490 | NA | NA | NA | NA | NA | NA | NA |
| | | | | | 440. | 252 | 202 | | | | | | | |
| 10*21659 | Н | 5-23-13 | DEBORAH BLOUGH | TH EXPLORATION, LLC | 1/8+ | 958 | 392 | NA | NA . | NA | NA . | NA | NA | NA |
| 10*21660 | н | | PAMELA L DRAZIC AND JEFFREY DRAZIC | TH EXPLORATION, LLC | 1/8+ | 958 | 390 | NA | NA | NA | NA | NA | NA | NA |
| | | | | | | | | | iugo | in the second | | | | |
| 10*21830 | Н | 5-23-13 | MARISSA MASON | TH EXPLORATION, LLC | 1/8+ | 960 | 200 | NA | NA JOHO CHELLER | 6 8 35 W | NA | NA | NA | NA |
| | | 5-23-13 | MATTHEW MASON | TH EXPLORATION, LLC | 1/8+ | 966 | 122 | NA | NA NA | NAUR THO | NA | NA . | NA . | NA |

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|----------|---|---------|--|---------------------|-------------|-----|-----|-------------|-----------------|---------------|------|-------|-------|-------|
| 10*21469 | н | | KIMBERLY S DENNY AND JAMES E DENNY | TH EXPLORATION, LLC | 1/8+ | 957 | 244 | NA | NA | NA | NA | NA | 470 5 | 10206 |
| | | | | | | | | | | | | | | : |
| 10*21471 | н | 5-23-13 | RICHARD ROSS WILSON | TH EXPLORATION, LLC | 1/8+ | 960 | 190 | NA | NA | NA | NA | NA | NA | NA |
| 10*21620 | н | | ROBERT CRAIG MONTGOMERY AND CYNTHIA R MONTGOMERY | TH EXPLORATION, LLC | 1/8+ | 959 | 496 | NA | NA | NA | NA | NA | NA | NA |
| | | | | | | | | | | | | | | |
| 10*21621 | н | 5-23-13 | MARILYN NOEL | TH EXPLORATION, LLC | 1/8+ | 959 | 494 | NA | NA | NA | NA | NA | NA | NA |
| | | | CLARENCE RICHARD ZESIGER | | | | | | | | | | | |
| 10*21658 | н | | | TH EXPLORATION, LLC | 1/8+ | 959 | 490 | NA | NA | NA | NA | NA | NA | NA |
| | | | | | 440. | 252 | 202 | | | | | | | |
| 10*21659 | Н | 5-23-13 | DEBORAH BLOUGH | TH EXPLORATION, LLC | 1/8+ | 958 | 392 | NA | NA . | NA | NA . | NA | NA | NA |
| 10*21660 | н | | PAMELA L DRAZIC AND JEFFREY DRAZIC | TH EXPLORATION, LLC | 1/8+ | 958 | 390 | NA | NA | NA | NA | NA | NA | NA |
| | | | | | | | | | iugo | in the second | | | | |
| 10*21830 | Н | 5-23-13 | MARISSA MASON | TH EXPLORATION, LLC | 1/8+ | 960 | 200 | NA | NA JOHO CHELLER | 6 8 35 W | NA | NA | NA | NA |
| | | 5-23-13 | MATTHEW MASON | TH EXPLORATION, LLC | 1/8+ | 966 | 122 | NA | NA NA | NAUR THO | NA | NA . | NA . | NA . |

| | | | | | | | | | | | | | 4705 | 02060 |
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| | | | | | | | | | | | | | | |
| 10*21834 | Н | 5-23-13 | GEORGE DANIEL KRUGER | TH EXPLORATION, LLC | 1/8+ | 960 | 204 | NA | NA | NA . | NA | NA | NA . | NA |
| | | | | | | | | | | | | | | |
| 10*21944 | н | 5-23-13 | JILL A BECK | TH EXPLORATION, LLC | 1/8+ | 960 | 101 | NA | NA | NA | NA | NA | NA | NA |
| | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |
| 10*21947 | н | 5-23-13 | WALLACE LYNN WENDEL | TH EXPLORATION, LLC | 1/8+ | 965 | 59 | NA | NA | NA | NA | NA | NA | NA |
| | | | | | | | | | | | | | | |
| | | | DEBORAH K KLIMASZEWSI | | | | | | | | | | | |
| 10*22007 | н | | | TH EXPLORATION, LLC | 1/8+ | 959 | 492 | NA | NA | NA | NA | NA | NA | NA |
| | | | | | | | | | | | | | | |
| | | | | | ļ | | | | | | | | | |
| 10*22008 | Н | 5-23-13 | COLIN R YOHO | TH EXPLORATION, LLC | 1/8+ | 953 | 304 | NA | NA | NA | NA | NA | NA | NA |
| | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |
| 10*22025 | Н | 5-23-13 | MARK & MARY YOHO | TH EXPLORATION, LLC | 1/8+ | 960 | 544 | NA | NA | NA | NA | NA | NA | NA |
| | | | | | | | | | | | | | | |
| | | | PHILLIP YOHO AND PATRICIA | | | | | | | | | | | |
| 10*22031 | н | | уоно | TH EXPLORATION, LLC | 1/8+ | 960 | 535 | NA . | NA | NA | NA | NA | NA | NA |
| | | | | | | | | nonition of | | | | | | |
| | | | | | | | | Ellen de Chr | & | | | | | |
| 10*22032 | н | 5-23-13 | JOANNE E RAY | TH EXPLORATION, LLC | 1/8+ | 960 | 537 | NA SOLD JUST | nell ne | NA | NA | NA | NA | NA |
| | | | | | | | | NA JOHO CHEROLOGIA | NA OF THE PROPERTY OF THE PROP | | | | | |
| 10*22106 | н | 5-23-13 | BARRY RAY MOORE | TH EXPLORATION, LLC | 1/8+ | 954 | 643 | NA A | NA NA | NA | NA . | NA | NA | NA . |

| | | | | | | | | | | | | | 4705 | 102060 |
|----------|---|----------|---|---------------------|------|-----|-----|---|--|----|-----|----|------|--------|
| 10*22129 | н | 5-23-13 | JANICE N HAUDENSCHILT | TH EXPLORATION, LLC | 1/8+ | 961 | 459 | NA | NA | NA | NA | NA | NA | NA |
| | | | | | | | | | | | | | | |
| 10*22137 | н | 5-23-13 | CONNIE L NEELY | TH EXPLORATION, LLC | 1/8+ | 961 | 466 | NA | NA | NA | NA | NA | NA | NA |
| 10*22285 | н | | DONALD JAMES WILSON AND SANDY L WILSON | TH EXPLORATION, LLC | 1/8+ | 962 | 193 | NA | NA | NA | NA | NA | NA | NA |
| | | | | | | | | | | | | | | |
| 10*22334 | Н | 5-23-13 | JOHN BRYANT | TH EXPLORATION, LLC | 1/8+ | 962 | 540 | NA | NA | NA | NA | NA | NA | NA |
| 10*22424 | | IE 22 12 | EDWIN NELSON WOOD | TH EXPLORATION, LLC | 1/8+ | 963 | 637 | NA | NA | NA | NA | NA | NA | NA . |
| 10*22434 | | 5-23-13 | EDWIN NEGON WOOD | TH EXPLORATION, LLC | 1/0+ | 903 | 037 | 170 | NA. | | INA | | | |
| 10*22561 | н | 5-23-13 | MARY ROSE YOHO | TH EXPLORATION, LLC | 1/8+ | 968 | 200 | NA | NA | NA | NA | NA | NA | NA |
| | | | | | | | | | | | | | | |
| 10*22562 | н | 5-23-13 | HAROLD C SIMMONS | TH EXPLORATION, LLC | 1/8+ | 966 | 100 | NA ST | NA | NA | NA | NA | NA | NA |
| | | | | | | | | NA SOLD BURNER OF THE PARTY OF | NA OF THE PROPERTY OF THE PROP | | | | | |
| 10*22563 | Н | 5-23-13 | KIMBERLY D STRAUCH | TH EXPLORATION, LLC | 1/8+ | 966 | 522 | NA SP ST O | NA O S | NA | NA | NA | NA . | NA |
| | | | | | | | | | A LI | | | | | |
| 10*22585 | Н | 5-23-13 | CYNTHIA L CHICK | TH EXPLORATION, LLC | 1/8+ | 966 | 102 | NA | NA | NA | NA | NA | NA | NA |

| | | • • | | | | | | Ø. | A MARCH | | | | _ | |
|----------|---|---------|---------------------------------------|---|------|-----|----------|--|---|--|--|--|--|---|
| | | | WILLIAM R AND CONNIE | THE VOICE ATTION THE | 1/0. | 053 | 200 | | Mand Cas | | | NA. | | 102060 |
| 10*22718 | H | 5-23-13 | RICHMOND | TH EXPLORATION, LLC | 1/8+ | 963 | 389 | NA | NA São | NA | NA | NA | NA | NA |
| 10*14969 | | 5-23-12 | REBECCA S WORD | GASTAR EXPLORATION INC | 1/8+ | 872 | 219 | NA | NA NA | NA | NA | NA | NA | 36/9 Gastar Exploration, Inc. to TH Exploration II, LLC |
| 10*14970 | | 5-23-12 | GRACE EXLINE | GASTAR EXPLORATION INC | 1/8+ | 872 | 623 | NA NA | NA NA | NA | NA | NA | NA NA | 36/9 Gastar Exploration, Inc. to TH Exploration II, LLC |
| 10 14970 | | 5-23-12 | Oroce Exemp | S. S. M. S. L. S. M. S. | 40. | 5/2 | <u> </u> | 23/353 Gastar Exploration USA Inc to Atinum Marcellus | 27/311 Gastar Exploration USA, Inc and Atinum Marcellus I, LLC to Chesapeake Appalachia, LLC | | 33/424 Statoil USA Onshore Properties Inc to SWN | | 41/238 Statoil USA Onshore Properties Inc to TH | 41/256 SWN Production Company, LLC to TH |
| 10*17195 | 1 | 5-23-12 | PATRICIA HARTMAN | GASTAR EXPLORATION USA, INC | 1/8+ | 695 | 317 | I, LLC | Properties Inc | Production Company, LLC | Exchange Title Holder LLC | Production Company, LLC | Exploration, LLC | Exploration, LLC |
| 10*17196 | 1 | 5-23-12 | DELBERT R. MONTGOMERY | GASTAR EXPLORATION USA, INC | 1/8+ | 695 | 311 | 23/353 Gastar Exploration USA Inc to Atinum Marcellus I, LLC | 27/311 Gastar Exploration USA, Inc and Atinum Marcellus I, LLC to Chesapeake Appalachia, LLC and Statoil USA Onshore Properties Inc 27/311 Gastar Exploration | 33/110 Chesapeake Appalachia, LLC to SWN Production Company, LLC | 33/424 Statoil USA Onshore Properties Inc to SWN Exchange Title Holder LLC | 19/624 SWN Exchange Titleholder LLC to SWN Production Company, LLC | 41/238 Statoil USA Onshore Properties Inc to TH Exploration, LLC | 41/256 SWN Production Company, LLC to TH Exploration, LLC |
| 10*17197 | ı | 5-23-12 | GLORIA J. SIMMONS HAROLD SIMMONS | GASTAR EXPLORATION USA, INC | 1/8+ | 695 | 313 | 23/353 Gastar Exploration USA Inc to Atinum Marcellus I, LLC | USA, Inc and Atinum Marcellus I, LLC to Chesapeake Appalachia, LLC and Statoil USA Onshore Properties Inc | 33/110 Chesapeake Appalachia, LLC to SWN Production Company, LLC | 33/424 Statoil USA Onshore Properties Inc to SWN Exchange Title Holder LLC | 19/624 SWN Exchange Titleholder LLC to SWN Production Company, LLC | 41/256 SWN Production Company, LLC to TH Exploration, LLC | 41/238 Statoil USA Onshore Properties Inc. to TH Exploration, LLC |
| 10*17199 | 1 | 5-23-12 | PAMELA L DRAZIC AND JEFFREY DRAZIC | GASTAR EXPLORATION USA, INC | 1/8+ | 695 | 315 | 23/353 Gastar Exploration USA Inc to Atinum Marcellus I, LLC | | 33/110 Chesapeake Appalachia, LLC to SWN Production Company, LLC | 33/424 Statoil USA Onshore Properties Inc to SWN Exchange Title Holder LLC | 19/624 SWN Exchange Titleholder LLC to SWN Production Company, LLC | 41/256 SWN Production Company, LLC to TH Exploration, LLC | 41/238 Statoil USA Onshore Properties Inc. to TH Exploration, LLC |
| 10*17200 | 1 | 5-23-12 | STEPHANIE L. HALL | GASTAR EXPLORATION USA, INC | 1/8+ | 697 | 156 | 23/353 Gastar Exploration USA Inc to Atinum Marcellus I, LLC | Properties Inc | 33/110 Chesapeake Appalachia, LLC to SWN Production Company, LLC | 1 . | 19/624 SWN Exchange Titleholder LLC to SWN Production Company, LLC | 41/238 Statoil USA Onshore Properties Inc to TH Exploration, LLC | 41/256 SWN Production Company, LLC to TH Exploration, LLC |
| 10*17201 | | 5-23-12 | DENISE A GALE | GASTAR EXPLORATION USA, INC | 1/8+ | 697 | 395 | 23/353 Gastar Exploration USA Inc to Atinum Marcellus I, LLC | 1 | 33/110 Chesapeake Appalachia, LLC to SWN Production Company, LLC | 33/424 Statoil USA Onshore Properties Inc to SWN Exchange Title Holder LLC | 19/624 SWN Exchange Titleholder LLC to SWN Production Company, LLC | Properties Inc to TH | 41/256 SWN Production Company, LLC to TH Exploration, LLC |

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| 10*17202 | 1 | 5-23-12 | JANE GALE | GASTAR EXPLORATION AND A STATE OF THE CONTRACT | 1/8+ | 697 | 385 | 23/353 Gastar Exploration USA Inc to Atinum Marcellus I, LLC | 27/311 Gastar Exploration USA, Inc and Atinum Marcellus I, LLC to Chesapeake Appalachia, LLC and Statoil USA Onshore Properties Inc | 33/110 Chesapeake Appalachia, LLC to SWN Production Company, LLC | 33/424 Statoil USA Onshore Properties Inc to SWN Exchange Title Holder LLC | 19/624 SWN Exchange Titleholder LLC to SWN Production Company, LLC | 41/238 Statoil USA Onshore Properties Inc to TH Exploration, LLC | |
| 10*17203 | ı | 5-23-12 | BARRY RAY MOORE | GASTAR EXPLORATION USA, INC | 1/8+ | 697 | 387 | 23/353 Gastar Exploration USA Inc to Atinum Marcellus I, LLC | 27/311 Gastar Exploration USA, Inc and Atinum Marcellus I, LLC to Chesapeake Appalachia, LLC and Statoil USA Onshore Properties Inc | 33/110 Chesapeake Appalachia, LLC to SWN Production Company, LLC | 33/424 Statoil USA Onshore Properties Inc to SWN Exchange Title Holder LLC | 19/624 SWN Exchange Titleholder LLC to SWN Production Company, LLC | 41/238 Statoil USA Onshore Properties Inc to TH Exploration, LLC | 41/256 SWN Production Company, LLC to TH Exploration, LLC |
| 10*17204 | 1 | 5-23-12 | CLARENCE RICHARD ZESIGER & MARY ZESIGER | GASTAR EXPLORATION USA, INC | 1/8+ | 697 | 391 | 23/353 Gastar Exploration USA Inc to Atinum Marcellus I, LLC | 27/311 Gastar Exploration USA, Inc and Atinum Marcellus I, LLC to Chesapeake Appalachia, LLC and Statoil USA Onshore Properties Inc | 33/110 Chesapeake Appalachia, LLC to SWN Production Company, LLC | 33/424 Statoil USA Onshore Properties Inc to SWN Exchange Title Holder LLC | 19/624 SWN Exchange Titleholder LLC to SWN Production Company, LLC | 41/238 Statoil USA Onshore Properties Inc to TH Exploration, LLC | 41/256 SWN Production Company, LLC to TH Exploration, LLC |
| 10*17206 | | 5-23-12 | M VIRGINIA & EDWARD C MARSH | GASTAR EXPLORATION USA, INC | 1/8+ | 697 | 399 | 23/353 Gastar Exploration USA Inc to Atinum Marcellus I, LLC | 27/311 Gastar Exploration USA, Inc and Atinum Marcellus I, LLC to Chesapeake Appalachia, LLC and Statoil USA Onshore Properties Inc | 33/110 Chesapeake Appalachia, LLC to SWN Production Company, LLC | 33/424 Statoil USA Onshore Properties Inc to SWN Exchange Title Holder LLC | 19/624 SWN Exchange Titleholder LLC to SWN Production Company, LLC | 41/238 Statoil USA Onshore Properties Inc to TH Exploration, LLC | 41/256 SWN Production Company, LLC to TH Exploration, LLC |
| | | | DEBORAH K. KLIMASZEWSKI FRANK KLIMASZEWSKI, SR. | GASTAR EXPLORATION USA, INC | 1/0. | 697 | 389 | 23/353 Gastar Exploration USA Inc to Atinum Marcellus | 27/311 Gastar Exploration USA, Inc and Atinum Marcellus I, LLC to Chesapeake Appalachia, LLC and Statoil USA Onshore Properties Inc | 33/110 Chesapeake Appalachia, LLC to SWN Production Company, LLC | 33/424 Statoil USA Onshore Properties Inc to SWN Exchange Title Holder LLC | 19/624 SWN Exchange Titleholder LLC to SWN Production Company, LLC | 41/238 Statoil USA Onshore Properties Inc to TH Exploration, LLC | 41/256 SWN Production Company, LLC to TH Exploration, LLC |
| 10*17207 | | 5-23-12 | | | 1/8+ | | | 23/353 Gastar Exploration USA Inc to Atinum Marcellus | 27/311 Gastar Exploration USA, Inc and Atinum Marcellus I, LLC to Chesapeake Appalachia, LLC and Statoil USA Onshore | 33/110 Chesapeake Appalachia, LLC to SWN | 33/424 Statoil USA Onshore Properties Inc to SWN | 19/624 SWN Exchange Titleholder LLC to SWN | 41/238 Statoil USA Onshore Properties Inc to TH | 41/256 SWN Production Company, LLC to TH |
| 10*17210 | | 5-23-12 | GARY WAYNE ZESIGER & VICKIE | GASTAR EXPLORATION USA, INC | 1/8+ | 697 | 393 | 23/353 Gastar Exploration USA Inc to Atinum Marcellus | Properties Inc 27/311 Gastar Exploration USA, Inc and Atinum Marcellus I, LLC to Chesapeake Appalachia, LLC and Statoil USA Onshore | Appalachia, LLC to SWN | Properties Inc to SWN | Production Company, LLC 19/624 SWN Exchange Titleholder LLC to SWN | 41/238 Statoil USA Onshore Properties Inc to TH | Exploration, LLC 41/256 SWN Production Company, LLC to TH |
| 10*17211 | | 5-23-12 5-23-12 | DARRELL NEWLAND LYDIA NEWLAND | GASTAR EXPLORATION USA, INC | 1/8+ | 697 697 | 397 158 | 23/353 Gastar Exploration USA Inc to Atinum Marcellus I. LLC | Properties Inc 27/311 Gastar Exploration USA, Inc and Atinum Marcellus I, LLC to Chesapeake Appalachia, LLC and Statoil USA Onshore Properties Inc | Production Company, LLC 33/110 Chesapeake Appalachia, LLC to SWN Production Company, LLC | 33/424 Statoil USA Onshore Properties Inc to SWN Exchange Title Holder LLC | Production Company, LLC 19/624 SWN Exchange Titleholder LLC to SWN Production Company, LLC | 41/238 Statoil USA Onshore Properties Inc to TH Exploration, LLC | Exploration, LLC 41/256 SWN Production Company, LLC to TH Exploration, LLC |
| 10*17213 | | 5-23-12 | CAROL DEEN GARDNER | GASTAR EXPLORATION USA, INC | 1/8+ | 697 | 154 | 23/353 Gastar Exploration USA Inc to Atinum Marcellus I, LLC | 27/311 Gastar Exploration USA, Inc and Atinum Marcellus I, LLC to Chesapeake Appalachia, LLC and Statoil USA Onshore Properties Inc | | 33/424 Statoil USA Onshore Properties Inc to SWN Exchange Title Holder LLC | | 41/238 Statoil USA Onshore Properties Inc to TH Exploration, LLC | 41/256 SWN Production Company, LLC to TH Exploration, LLC |

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| | | | | | | | | | | | | 1 | | |
| | | | DATRICK DAAGUEAIRY | THE EVOLODATION H.C. | 4.6 | | | *** | | *** | | NA . | NA . | NA . |
| 10*18541 | | 5-23-12 | PATRICK P MCHENRY | TH EXPLORATION, LLC | 1/8+ | 933 | 649 | NA | NA | NA | NA | INA | IVA | INA |
| | | | | | | | | | | | | | | |
| | | : | | : | | | | | | | | | | |
| 10*18818 | , ' | 5-23-12 | LUCILLE R MCHENRY | TH EXPLORATION, LLC | 1/8+ | 937 | 624 | NA | NA | NA | NA | NA | NA | NA |
| | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |
| | | | CARL M MCHENRY AND | | | | | | | | | | | |
| 10*19732 | | 5-23-12 | PAMELA MCHENRY | TH EXPLORATION, LLC | 1/8+ | 944 | 469 | NA | NA | NA | NA | NA | NA | NA |
| | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |
| 10*19996 | ١, | 5-23-12 | CHARLES D WOOD | TH EXPLORATION, LLC | 1/8+ | 947 | 589 | NA | NA . | NA . | NA | NA . | NA | NA . |
| 10 15550 | i i | 3 23 12 | | | 7,0. | | | | | | | | | |
| 1 | | ĺ | | | | | | | | | | | | |
| | | ļ | ARDITH R ROSE AND TOMMY E | | | | | | | | | | | |
| 10*21073 | 1 | 5-23-12 | | TH EXPLORATION, LLC | 1/8+ | 951 | 608 | NA | NA | NA | NA | NA | NA | NA |
| | | | | | | | | | | | | | | |
| | | | | | | | | : | | | | | | |
| | | | MALCOLM E WOOD AND JOAN J | THE SYDLODATION HE | | | | | | | . | 1010 | NA | NA |
| 10*21074 | | 5-23-12 | WOOD | TH EXPLORATION, LLC | 1/8+ | 951 | 610 | NA | NA | NA | NA | NA | IVA | INA . |
| | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |
| 10*21174 | 1 | 5-23-12 | SHAWN M WOOD | TH EXPLORATION, LLC | 1/8+ | 952 | 190 | NA | NA | NA | NA | NA | NA | NA |
| | | | | | | | | | | | | | | |
| | | | | | į | | | | _ | | | | | |
| | | | | | | | | | Environ NA O | | | | | |
| 10*21944 | | 5-23-12 | JILL A BECK | TH EXPLORATION, LLC | 1/8+ | 960 | 101 | NA | Z 20 AN | BA B | NA | NA | NA | NA |
| | 1 | | | | | | | | JUN 1 8 2018 V Department of Immental Protection | 7 ≥ | | | | |
| | | | | | | | | | 1 Pro | RECEIVE | | | | |
| 10*22434 | ١, | 5-23-12 | EDWIN NELSON WOOD | TH EXPLORATION, LLC | 1/8+ | 963 | 637 | NA | NA SE SAN AND AND AND AND AND AND AND AND AND A | | NA . | NA . | NA . | NA |
| | <u> </u> | 1 | | | | | | l····· | <u> </u> | <u> </u> | | 1' ' | 1 | |

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| 1 | | | | THE EVEN OF ATION HIS | 4/0. | 055 | 400 | | | | A1A | A1A | A.A. | NA I |
| 10*22585 | - | 5-23-12 | CYNTHIA L CHICK | TH EXPLORATION, LLC | 1/8+ | 966 | 102 | NA | NA | NA . | NA | NA | NA | INA |
| | ' | | | | | | | | | | | | | |
| | | 1 | | | | | | | | | | | | |
| l | l | | | | | | | | | | | | 21/41 Gastar Exploration USA Inc to Gastar | 36/9 Gastar Exploration, Inc. |
| 10*14785 | J | 5-26-11 | DAVID W. STRAUCH | GASTAR EXPLORATION USA, INC | 1/8+ | 799 | 64 | NA | NA | NA | NA | NA | Exploration, Inc | to TH Exploration II, LLC |
| | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | 21/41 Gastar Exploration | |
| | | | | | | | | | | | ĺ | | USA Inc to Gastar | 36/9 Gastar Exploration, Inc. |
| 10*14786 | J | 5-26-11 | TWILA ORA WHIPKEY | GASTAR EXPLORATION USA, INC | 1/8+ | 799 | 61 | NA | NA | NA | NA | NA | Exploration, Inc | to TH Exploration II, LLC |
| | | | l | | | | | | | | | | | |
| | | | | | | | | | | | | | | |
| | | | | | | | | | ļ | | | | 21/41 Gastar Exploration | 35/0 5-1-1 |
| 10*14792 | ر ا | 5-26-11 | ТІМОТНҮ ҮОНО | GASTAR EXPLORATION USA, INC | 1/8+ | 799 | 536 | NA . | NA | NA . | NA | NA | USA Inc to Gastar Exploration, Inc | 36/9 Gastar Exploration, Inc. to TH Exploration II, LLC |
| 10 14/92 | + ' | 3-20-11 | THE TOTAL | Grandin Extremisit out, inte | 2,01 | | 330 | | 100 | | | | | to III aspiolation in acc |
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| | | | | | | | | | | | | | 21/41 Gastar Exploration | |
| | | | | | | | | |] | | | | USA Inc to Gastar | 36/9 Gastar Exploration, Inc. |
| 10*14797 | J | 5-26-11 | ORVILLE YOUNG | GASTAR EXPLORATION USA, INC | 1/8+ | 800 | 598 | NA | NA | NA | NA | NA | Exploration, Inc | to TH Exploration II, LLC |
| | | | | | | | | | | | | | | |
| | i | | | : | | | | | | | | | | |
| | | | 1 | | | | | | | İ | | | 21/41 Gastar Exploration | |
| | ١. | | DANIA ANU ICIA III IA ADURDEVE | CACTAR EVELOPATION LICA INC | 1/0. | 000 | | | | | NA | l _{NA} | USA Inc to Gastar Exploration, Inc | 36/9 Gastar Exploration, Inc. to TH Exploration II, LLC |
| 10*14808 | 1, | 5-26-11 | DANA MILICIA HUMPHREYS | GASTAR EXPLORATION USA, INC | 1/8+ | 809 | 552 | NA . | NA | NA I | INA | NA | exploration, inc | to TH Exploration II, LLC |
| | 1 | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |
| | 1 | | | | | | | | | | | | 21/41 Gastar Exploration USA Inc to Gastar | 36/9 Gastar Exploration, Inc. |
| 10*14809 | ر | 5-26-11 | DEWEY A. MILICIA | GASTAR EXPLORATION USA, INC | 1/8+ | 809 | 549 | NA NA | NA | NA | NA | NA | Exploration, Inc | to TH Exploration II, LLC |
| | T | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |
| | | | | | | | | | l m | | | | 21/41 Gastar Exploration | |
| 1 | 1 | | NICOLETTA MILICIA | | | | | | NA O | | | | USA Inc to Gastar | 36/9 Gastar Exploration, Inc. |
| 10*14810 | 1 | 5-26-11 | BLOODWORTH | GASTAR EXPLORATION USA, INC | 1/8+ | 809 | 546 | NA | NA § S | NA Q | NA | NA | Exploration, Inc | to TH Exploration II, LLC |
| | | | | | | | | 1 | N Department of W 2018 | RECEIVED | | | | |
| | | | | | | | | | E 5 | ्र हूं इ. हुं | | | | |
| | | | | | | | | | i & ¿Uí sidment of al Protection | E K | | | | 36/0 Costor Fuel |
| 10*14812 | 1. | 5-26-11 | DENISE ANN GALE | GASTAR EXPLORATION USA, INC | 1/8+ | 815 | 224 | NA . | NA 22 07 (1) | | NA | NA | NA | 36/9 Gastar Exploration, Inc. to TH Exploration II, LLC |
| 10.14012 | 1, | 12220-11 | DELITISE AINT GALL | o. o common oon, me | 1,0, | 015 | L 44-7 | 1 | <u> </u> | 5 | 1 | 1 | L:: | The super second of the second |

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|----------|----|---------|----------------------------------|-----------------------------|------|-----|-----|---|--|--|--|--|--|---|
| 10*14813 | J | 5-26-11 | DEBRA JANE GALE | GASTAR EXPLORATION USA, INC | 1/8+ | 818 | 568 | NA | NA | NA | NA | NA | NA | 36/9 Gastar Exploration, Inc. to TH Exploration II, LLC |
| | | | | | | | | E N | Offic | | | | | 36/9 Gastar Exploration, Inc. |
| 10*14815 | J | 5-26-11 | CHESTNUT HOLDINGS INC | GASTAR EXPLORATION INC | 1/8+ | 827 | 535 | NA NA | RE RE | NA | NA | NA | NA | to TH Exploration II, LLC |
| 10*14822 | J | 5-26-11 | ONWARD E BURGE TRUST | GASTAR EXPLORATION INC | 1/8+ | 876 | 463 | | RECEIVED Office of Oil and Gas | NA | NA | NA | NA | 36/9 Gastar Exploration, Inc. to TH Exploration II, LLC |
| 10*14823 | 1 | 5-26-11 | SARAH L BURGE TRUST | GASTAR EXPLORATION INC | 1/8+ | 876 | 459 | S NA | NA | NA | NA | NA | NA | 36/9 Gastar Exploration, Inc. to TH Exploration II, LLC |
| 10*14969 | J | 5-26-11 | REBECCA S WORD | GASTAR EXPLORATION INC | 1/8+ | 872 | 219 | NA | NA | NA | NA | NA . | NA | 36/9 Gastar Exploration, Inc. to TH Exploration II, LLC |
| 10*14970 | J | 5-26-11 | GRACE EXLINE | GASTAR EXPLORATION INC | 1/8+ | 872 | 623 | NA | NA | NA | NA | NA | NA | 36/9 Gastar Exploration, Inc. to TH Exploration II, LLC |
| 10#17105 | | E 26 11 | PATRICIA HARTMAN | GASTAR EXPLORATION USA, INC | 1/8+ | 695 | 317 | 23/353 Gastar Exploration USA Inc to Atinum Marcellus | 27/311 Gastar Exploration USA, Inc and Atinum Marcellus I, LLC to Chesapeake Appalachia, LLC and Statoil USA Onshore Properties Inc | 33/110 Chesapeake Appalachia, LLC to SWN Production Company, LLC | 33/424 Statoil USA Onshore Properties Inc to SWN Exchange Title Holder LLC | 19/624 SWN Exchange Titleholder LLC to SWN Production Company, LLC | 41/238 Statoil USA Onshore Properties Inc to TH Exploration, LLC | 41/256 SWN Production Company, LLC to TH Exploration, LLC |
| 10*17195 | | 5-26-11 | | | | | | 23/353 Gastar Exploration USA Inc to Atinum Marcellus | 27/311 Gastar Exploration USA, Inc and Atinum Marcellus I, LLC to Chesapeake Appalachia, LLC and Statoil USA Onshore | 33/110 Chesapeake Appalachia, LLC to SWN | 33/424 Statoil USA Onshore Properties Inc to SWN | 19/624 SWN Exchange Titleholder LLC to SWN | 41/238 Statoil USA Onshore Properties Inc to TH | 41/256 SWN Production Company, LLC to TH |
| 10*17196 | J | 5-26-11 | DELBERT R. MONTGOMERY | GASTAR EXPLORATION USA, INC | 1/8+ | 695 | 311 | 23/353 Gastar Exploration USA Inc to Atinum Marcellus | Properties Inc 27/311 Gastar Exploration USA, Inc and Atinum Marcellus I, LLC to Chesapeake Appalachia, LLC and Statoil USA Onshore | Production Company, LLC 33/110 Chesapeake Appalachia, LLC to SWN | Exchange Title Holder LLC 33/424 Statoil USA Onshore Properties Inc to SWN | Production Company, LLC 19/624 SWN Exchange Titleholder LLC to SWN | Exploration, LLC 41/256 SWN Production Company, LLC to TH | 41/238 Statoil USA Onshore Properties Inc. to TH |
| 10*17197 | Ι. | 5-26-11 | GLORIA J. SIMMONS HAROLD SIMMONS | GASTAR EXPLORATION USA, INC | 1/8+ | 695 | 313 | I, LLC | Properties Inc | Production Company, LLC | Exchange Title Holder LLC | Production Company, LLC | Exploration, LLC | Exploration, LLC |

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|------------|--------------|---------|--|-------------------------------|------|-----|-----|--|--|--|---|--|---|---|
| | | | | | | | | | USA, Inc and Atinum Marcellus I, LLC to | | | | 4/001 | 02060 |
| | - 1 | | | | | | | 23/353 Gastar Exploration | Chesapeake Appalachia, LLC | 33/110 Chesapeake | 33/424 Statoil USA Onshore | 19/624 SWN Exchange | 41/238 Statoil USA Onshore | 41/256 SWN Production |
| | 1 | | | | | | | USA Inc to Atinum Marcellus | and Statoil USA Onshore | Appalachia, LLC to SWN | Properties Inc to SWN | Titleholder LLC to SWN | Properties Inc to TH | Company, LLC to TH |
| 10*17200 | J 5 | 5-26-11 | STEPHANIE L. HALL | GASTAR EXPLORATION USA, INC | 1/8+ | 697 | 156 | I, LLC | Properties Inc | Production Company, LLC | Exchange Title Holder LLC | Production Company, LLC | Exploration, LLC | Exploration, LLC |
| 1 1 | | | | | | | | | 27/311 Gastar Exploration USA, Inc and Atinum | | | | | |
| | 1 | | | | | ľ | | | Marcellus I, LLC to | | | | | |
| | | | | 1 | | i | | 23/353 Gastar Exploration USA Inc to Atinum Marcellus | Chesapeake Appalachia, LLC | 33/110 Chesapeake Appalachia, LLC to SWN | 33/424 Statoil USA Onshore Properties Inc to SWN | 19/624 SWN Exchange Titleholder LLC to SWN | 41/238 Statoil USA Onshore Properties Inc to TH | 41/256 SWN Production Company, LLC to TH |
| 10*17201 | ا ر | 5-26-11 | DENISE A GALE | GASTAR EXPLORATION USA, INC | 1/8+ | 697 | 395 | I, LLC | Properties Inc | Production Company, LLC | 1 ' | Production Company, LLC | Exploration, LLC | Exploration, LLC |
| | | | | | -7- | | | , | 27/311 Gastar Exploration | | | · · · · | | |
| 1 | | | | | | | | i | USA, Inc and Atinum | | | | | |
| | | | | | | | | 23/353 Gastar Exploration | Marcellus I, LLC to Chesapeake Appalachia, LLC | 33/110 Chesapeake | 33/424 Statoil USA Onshore | 19/624 SWN Exchange | 41/238 Statoil USA Onshore | 41/256 SWN Production |
| | | | | | l | | | USA Inc to Atinum Marcellus | | Appalachia, LLC to SWN | Properties Inc to SWN | Titleholder LLC to SWN | Properties Inc to TH | Company, LLC to TH |
| 10*17202 . | ا ر | 5-26-11 | JANE GALE | GASTAR EXPLORATION USA, INC | 1/8+ | 697 | 385 | I, LLC | Properties Inc | Production Company, LLC | Exchange Title Holder LLC | Production Company, LLC | Exploration, LLC | Exploration, LLC |
| | | | | | | | | | 27/311 Gastar Exploration USA, Inc and Atinum | | | | | |
| | | | | | | | | | Marcellus I, LLC to | | | | | |
| | | | | | | | | 23/353 Gastar Exploration | Chesapeake Appalachia, LLC | | l ' | 19/624 SWN Exchange | 41/238 Statoil USA Onshore | 41/256 SWN Production |
| 10*17207 | , | 5-26-11 | DEBORAH K. KLIMASZEWSKI FRANK KLIMASZEWSKI, SR. | GASTAR EXPLORATION USA, INC | 1/8+ | 697 | 389 | USA Inc to Atinum Marcellus I. LLC | Properties Inc | Appalachia, LLC to SWN Production Company, LLC | Properties Inc to SWN Exchange Title Holder LLC | Titleholder LLC to SWN Production Company, LLC | Properties Inc to TH Exploration, LLC | Company, LLC to TH Exploration, LLC |
| 10 1/20/ | Ť | 3 20 11 | | | | | | ,, | 27/311 Gastar Exploration | , | | ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, | | |
| | | i | | | | | | | USA, Inc and Atinum | | | | | ı |
| | | | | | | İ | | 23/353 Gastar Exploration | Marcellus I, LLC to Chesapeake Appalachia, LLC | 33/110 Chesaneake | 33/424 Statoil USA Onshore | 19/624 SWN Exchange | 41/238 Statoil USA Onshore | 41/256 SWN Production |
| | | | DARRELL NEWLAND LYDIA | | | | | USA Inc to Atinum Marcellus | | Appalachia, LLC to SWN | Properties Inc to SWN | Titleholder LLC to SWN | Properties Inc to TH | Company, LLC to TH |
| 10*17212 | J ! | 5-26-11 | NEWLAND | GASTAR EXPLORATION USA, INC | 1/8+ | 697 | 158 | I, LLC | Properties Inc | Production Company, LLC | Exchange Title Holder LLC | Production Company, LLC | Exploration, LLC | Exploration, LLC |
| | | | | | - | | | | 27/311 Gastar Exploration USA, Inc and Atinum | | | | | |
| | | | | | | | | | Marcellus I, LLC to | | | | | |
| | | | | | | | | 23/353 Gastar Exploration | Chesapeake Appalachia, LLC | | 1 ' | 19/624 SWN Exchange | 41/238 Statoil USA Onshore | 41/256 SWN Production |
| 10*17213 | | 5-26-11 | CAROL DEEN GARDNER | GASTAR EXPLORATION USA, INC | 1/8+ | 697 | 154 | USA Inc to Atinum Marcellus 1, LLC | and Statoil USA Onshore Properties Inc | Appalachia, LLC to SWN Production Company, LLC | Properties Inc to SWN Exchange Title Holder LLC | Titleholder LLC to SWN Production Company, LLC | Properties Inc to TH Exploration, LLC | Company, LLC to TH Exploration, LLC |
| 10 1/213 | ' | 3-20-11 | CAROE DELIV GARDINER | GASTAICEAT EDITATION USA, INC | 1/84 | 037 | 134 | 1, 110 | 1 Toperaes me | Troubellon company, ecc | exchange rate flower see | Todaction company, eac | Exploration, eac | Exploration, EEG |
| | - 1 | | | | | I | | | | | | | | |
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| | | | | | | | | | | | | | | |
| 10*17822 | J ! | 5-26-11 | ANTOINE E GERAUD | TH EXPLORATION, LLC | 1/8+ | 943 | 530 | NA | NA | NA | NA | NA | NA | NA |
| | | | | | l | | | | | | | | | İ |
| | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |
| 10*10*** | | E 16 11 | DADDELL NEWLAND | TH EVOLOPATION LLC | 1/0. | | cr | l _{MA} | NA 🟂 | INA | NA NA | NA . | NA | I NA |
| 10*18114 | 」 | 5-26-11 | DARRELL NEWLAND | TH EXPLORATION, LLC | 1/8+ | 927 | 66 | NA . | 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | INA | INA | INA | ino . | 110 |
| | | | | | | | | | MAN ON THE PROPERTY OF THE PRO | | | 1 | | |
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| , , | - 1 | | I | 1 | | | | 1 | | <i>∆</i> 8″ | 1 | 1 | 1 | 1 |
| | | | DONALD R NEWLAND AND | i i | - 1 | ı | | 1 | | 10 | | | | 1 |

| | | | | | | | | | | | | | 4705 | 10206 |
|----------|--------------|---------|---|----------------------|------|------|------|------|--|-------------------|------|------|------|-------|
| 0*18275 | | 5.26.11 | BETTY JEAN NEELY | TH EXPLORATION, LLC | 1/8+ | 929 | 60 | NA | NA . | NA | NA | NA | NA | NA . |
| 7 102/3 | , | 3-20-11 | DETT JEAN NEELT | III LA LONATION, LEC | 1/0+ | 323 | - 00 | NA | <u> </u> | NO. | 100 | | | 100 |
| | | | MARY LOU WILSON AND | | | | | | | | | | | |
| 10*18366 | J | 5-26-11 | STANLEY D WILSON | TH EXPLORATION, LLC | 1/8+ | 931 | 311 | NA . | NA . | NA | NA | NA | NA | NA |
| | | | | | | | | | | | | | | |
| 10*18369 | 7 | 5-26-11 | CRAIG ALAN YOHO AND DONNA M YOHO | TH EXPLORATION, LLC | 1/8+ | 931 | 303 | NA | NA | NA | NA | NA | NA | NA |
| | | | | | | | | | | | | | | |
| LO*18370 | J | 5-26-11 | SAMUEL D YOHO | TH EXPLORATION, LLC | 1/8+ | 931 | 300 | NA | NA | NA | NA | NA | NA | NA |
| | | | DAVID N DEVICK TRUSTEE OF THE TONI JO MASON LIVING | TH EXPLORATION, LLC | 1/0. | 022 | 420 | | | No. | NA . | | NA | NA . |
| 10*18379 | _ J | 5-20-11 | TRUST | III EXPENIATION, EEC | 1/8+ | 932 | 439 | NA | NA | NA | I VA | NA | | |
| LO*18541 | J | 5-26-11 | PATRICK P MCHENRY | TH EXPLORATION, LLC | 1/8+ | 933 | 649 | NA | NA | NA | NA | NA | NA | NA |
| | | | | | | | | | | | | | | |
| 10*18818 | J | 5-26-11 | LUCILLE R MCHENRY | TH EXPLORATION, LLC | 1/8+ | 937 | 624 | NA . | NA . | NA . | NA | NA . | NA | NA |
| 10*19486 | | 5-26-11 | BARBARA ANN MAYNARD | TH EXPLORATION, LLC | 1/8+ | 941 | 229 | NA | NA OF THE STATE OF | NA | NA | NA | NA | NA |
| 15400 | _ - _ | 3 20-11 | | | 40. | 2-14 | 44.0 | | JUN 1 8 20 WV Department of the transfer of th | Office of OIL PED | | | | |
| 10*19540 | J | 5-26-11 | ERICA M MASON | TH EXPLORATION, LLC | 1/8+ | 942 | 53 | NA | NA 2 2 18 | NE . | NA | NA | NA | NA |

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|----------|----|---------|--------------------------------------|---------------------|------|-----|-----------------|---|------|------|------|------|------|-------|
| | | i | | | | | | | | | | | | |
| 10*19543 | J | 5-26-11 | ROBERT I BONAR SR | TH EXPLORATION, LLC | 1/8+ | 942 | 61 | NA . | NA . | NA . | NA | NA | NA . | NA |
| | | | | | | | | | | | | | | |
| 10*10640 | | 5-26-11 | MARGARET F RICHMOND | TH EXPLORATION, LLC | 1/8+ | 944 | 120 | NA | NA | NA . | NA . | NA . | NA . | INA |
| 10*19640 | ' | 3-20-11 | IMANGARET F RICHIOND | THEAT CONATION, LLC | 1/6+ | 344 | 120 | NA . | | | ING. | 90 | | |
| | | | | | | | | | | | | | | |
| 10*19641 | J | 5-26-11 | BRADFORD D LOWERY & DEBORAH BRADFORD | TH EXPLORATION, LLC | 1/8+ | 944 | 122 | NA | NA | NA | NA | NA | NA | NA |
| | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | : | |
| 10*19650 | ı | 5-26-11 | CLAUDIA LOWERY MALLOY | TH EXPLORATION, LLC | 1/8+ | 944 | 99 | NA | NA | NA | NA | NA | NA | NA |
| | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |
| 10*19652 | J | 5-26-11 | JACK R HAMMERS | TH EXPLORATION, LLC | 1/8+ | 944 | 108 | NA . | NA | NA . | NA | NA |]NA | NA |
| | | | | | | | | | | | | | | |
| 10*19657 | ١, | 5-26-11 | JANET LEE SPARKS | TH EXPLORATION, LLC | 1/8+ | 944 | 111 | NA | NA | NA | NA . | NA . | NA | NA . |
| 10 13037 | | 2022 | | | 7,0 | | | | | | | | | |
| | | | | | | | | | | | | | | |
| 10*19662 | j | 5-26-11 | CHESTNUT HOLDINGS INC | TH EXPLORATION, LLC | 1/8+ | 949 | 311 | NA | NA | NA | NA | NA | NA | NA . |
| | | | | | | | | | | | | | | |
| | | | CARL M MCHENRY AND | | | | | <i>5</i> 7 | | | | | | |
| 10*19732 | ļ | 5-26-11 | PAMELA MCHENRY | TH EXPLORATION, LLC | 1/8+ | 944 | 469 | \$ 5 · | NA | NA | NA | NA | NA | NA |
| | | | | | | | FIGHTS/ PTO(05) | Office of Olia | | | | | | |
| | | | | | | | P 06 | 7 8 9 6 | | | | | | |
| 10*19858 | J | 5-26-11 | JAMES MICHAEL YOHO | TH EXPLORATION, LLC | 1/8+ | 945 | \$426 | NA SO SO SO SO SO SO SO SO SO SO SO SO SO | NA | NA | NA | NA | [NA | NA |

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|----------|-----|---------|--|---------------------|------|-----|-----|--------|--|------|------|------|---------|--------|
| 10*19903 | J | 5-26-11 | PAUL F HAMMERS | TH EXPLORATION, LLC | 1/8+ | 948 | 236 | NA | NA | NA | NA | NA | NA | NA |
| | | | | | | | | | | | | | | |
| 10*19996 | J | 5-26-11 | CHARLES D WOOD | TH EXPLORATION, LLC | 1/8+ | 947 | 589 | NA | NA | NA | NA | NA | NA | NA |
| | | | | | | | | | | | | | | |
| 10*21073 | J | 5-26-11 | ARDITH R ROSE AND TOMMY E ROSE | TH EXPLORATION, LLC | 1/8+ | 951 | 608 | NA | NA | NA . | NA . | NA . | NA | NA |
| | | | | | | | | | | | | | | |
| | | | AMAL COLOA E WOOD AND JOAN L | | | | | | | | | | | |
| 10*21074 | J | 5-26-11 | MALCOLM E WOOD AND JOAN J | TH EXPLORATION, LLC | 1/8+ | 951 | 610 | NA | NA | NA | NA | NA | NA | NA |
| | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | ! | : |
| 10*21174 | 1 | 5-26-11 | SHAWN M WOOD | TH EXPLORATION, LLC | 1/8+ | 952 | 190 | NA | NA | NA | NA | NA | NA . | NA |
| | | | | | | | | | | | | | | |
| | | | DAPHNE HUFFMAN AND | | | | | | | | | | <u></u> | |
| 10*21419 | J | 5-26-11 | CHARLES HUFFMAN | TH EXPLORATION, LLC | 1/8+ | 957 | 59 | NA | NA | NA | NA . | NA . | NA | NA |
| | | | | | | | | | | | | | | |
| 10*21431 | ر | | GARY WAYNE ZESIGER & VICKIE ZESIGER | TH EXPLORATION, LLC | 1/8+ | 957 | 57 | NA NA | NA . | NA . | NA . | NA | NA NA | NA . |
| | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |
| 10*21436 | j | 5-26-11 | CECILIA D NEWLAND | TH EXPLORATION, LLC | 1/8+ | 957 | 55 | NA | NA SIGN AT | NA . | NA | NA | NA | NA |
| | | | | | | | | , sè | NA SOLD TO THE THE THE THE THE THE THE THE THE THE | | | | | |
| 10*21439 | ر ا | 5-26-11 | M VIRGINIA & EDWARD C MARSH | TH EXPLORATION, LLC | 1/8+ | 957 | 53 | NA SON | NA () | NA . | NA | NA | NA | NA |
| | | | | | | • | | | 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 | - | | | | |

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| 10*21469 | J | 5-26-11 | KIMBERLY S DENNY AND JAMES E DENNY | TH EXPLORATION, LLC | 1/8+ | 957 | 244 | NA | NA | NA | NA | NA | NA | NA |
| | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |
| 10*21471 | J | 5-26-11 | RICHARD ROSS WILSON | TH EXPLORATION, LLC | 1/8+ | 960 | 190 | NA | NA | NA | NA | NA | NA | NA . |
| | | | | | 1 | ĺ | | | | | | | | |
| | | | ROBERT CRAIG MONTGOMERY | | - | | | | | | | | | |
| 10*21620 | 1 | 5-26-11 | AND CYNTHIA R MONTGOMERY | TH EXPLORATION, LLC | 1/8+ | 959 | 496 | NA | NA | NA . | NA | NA | NA | NA |
| | | | | | | | | | | | | | | |
| | ١. | 5 25 44 | MADILYM NOT | THE FYDIAD ATION HE | | | | | | | <u> </u> | | NA . | NA |
| 10*21621 | Ť | 5-26-11 | MARILYN NOEL | TH EXPLORATION, LLC | 1/8+ | 959 | 494 | NA | NA | NA | NA | NA | NA . | INA |
| | | | | | | | | | | | | | | |
| 10*21658 | , | 5-26-11 | CLARENCE RICHARD ZESIGER & MARY ZESIGER | TH EXPLORATION, LLC | 1/8+ | 959 | 490 | NA | NA | NA | NA . | NA | NA | NA . |
| | | | | | | | | | | | | | | |
| | | | | | ĺ | | | | | | | | | |
| 10*21659 | J | 5-26-11 | DEBORAH BLOUGH | TH EXPLORATION, LLC | 1/8+ | 958 | 392 | NA | NA | NA | NA | NA | NA | NA |
| | | | | | | | | | | | | | | |
| | | | PAMELA L DRAZIC AND JEFFREY | | | | | | | | | | | |
| 10*21660 | J | 5-26-11 | | TH EXPLORATION, LLC | 1/8+ | 958 | 390 | NA | NA | NA | NA | NA | NA | NA |
| | | | | | | | | | | | | | | |
| | | | | | | | | | _K g?r | | | | | |
| 10*21830 | J | 5-26-11 | MARISSA MASON | TH EXPLORATION, LLC | 1/8+ | 960 | 200 | NA | Mon. V | NA | NA | NA | NA | NA |
| | | | | | | | | | NOTIFIED AND STATE OF THE PARTY | | | | | |
| | | | | | | | | St. C. In | 6 8 35 | | | | | |
| 10*21831 | l | 5-26-11 | MATTHEW MASON | TH EXPLORATION, LLC | 1/8+ | 966 | 122 | NA S | INAC WOO' | NA | NA | NA | NA | NA |

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| | | | | | | | | | , | | | | | |
| 10*21834 | ı | 5-26-11 | GEORGE DANIEL KRUGER | TH EXPLORATION, LLC | 1/8+ | 960 | 204 | NA | NA | NA | NA | NA | NA | NA |
| | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |
| 10*21944 | ı | 5-26-11 | JILL A BECK | TH EXPLORATION, LLC | 1/8+ | 960 | 101 | NA | NA | NA | NA | NA | NA | NA |
| | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |
| 10*21947 | ı | 5-26-11 | WALLACE LYNN WENDEL | TH EXPLORATION, LLC | 1/8+ | 965 | 59 | NA | NA | NA | NA | NA | NA | NA |
| | | | | | | | | ! | | | | | | |
| | | | DEBORAH K KLIMASZEWSI AND | | | | | | | | | | | |
| 10*22007 | J | 5-26-11 | | TH EXPLORATION, LLC | 1/8+ | 959 | 492 | NA | NA | NA | NA | NA | NA | NA |
| | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |
| 10*22008 | 1 | 5-26-11 | COLIN R YOHO | TH EXPLORATION, LLC | 1/8+ | 953 | 304 | NA | NA | NA | NA | NA | NA | NA |
| | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |
| 10*22025 | J | 5-26-11 | MARK & MARY YOHO | TH EXPLORATION, LLC | 1/8+ | 960 | 544 | NA | NA | NA | NA | NA | NA | NA |
| | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |
| 10*22031 | 1 | 5-26-11 | PHILLIP AND PATRICIA YOHO | TH EXPLORATION, LLC | 1/8+ | 960 | 535 | NA | NA | NA | NA | NA | NA | NA |
| | | | | | | | | | | | | | | |
| | | | | | | | | | SCHOOL STATES | | | | | |
| 10*22032 | ı | 5-26-11 | JOANNE E RAY | TH EXPLORATION, LLC | 1/8+ | 960 | 537 | NA A | No Ly | NA | NA | NA | NA | NA |
| | | | | | | | | agrid si | Party of Control of the Control of t | | | | | |
| | | | | | | | | Set, 6 m | 20 10 19 1 | | | | | |
| 10*22106 | J | 5-26-11 | BARRY RAY MOORE | TH EXPLORATION, LLC | 1/8+ | 954 | 643 | NA | NEW SOUNDS | NA | NA | NA | NA | NA |

| | | | | T | | | | | | | | | 4705 | 02060 |
|----------|----|---------|--------------------------------|---------------------|------|-----|-----|------|----------------|---|------|-----|-------|-------|
| | | | | | | | | | | | | | | |
| 10*22129 | J | 5-26-11 | JANICE HAUDENSCHILT | TH EXPLORATION, LLC | 1/8+ | 961 | 459 | NA | NA | NA | NA | NA | NA | NA |
| | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |
| 10*22137 | J | 5-26-11 | CONNIE L NEELY | TH EXPLORATION, LLC | 1/8+ | 961 | 466 | NA | NA | NA | NA | NA | NA . | NA . |
| | | | | | | | | | | | | | | |
| 10*22285 | ر | | DONALD J AND SANDY L WILSON | TH EXPLORATION, LLC | 1/8+ | 962 | 193 | NA . | NA . | NA . | NA . | NA | NA | NA |
| | | | | | | i | | | | | | | | |
| | | | | | | | | | | | | | | |
| 10*22334 | J | 5-26-11 | JOHN BRYANT | TH EXPLORATION, LLC | 1/8+ | 962 | 540 | NA | NA | NA | NA | NA | NA . | NA |
| | | | | | | | | | | | | | | |
| | ١. | | | | | | | | | | | NA | INA . | NA . |
| 10*22434 | , | 5-26-11 | EDWIN NELSON WOOD | TH EXPLORATION, LLC | 1/8+ | 963 | 637 | NA | NA . | NA | NA | INA | | |
| | | | | | | | | | | | | | | |
| 10*22441 | J | 5-26-11 | APRIL ROSE POSTLETHWAIT | TH EXPLORATION, LLC | 1/8+ | 963 | 646 | NA | NA | NA . | NA | NA | NA | NA |
| | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |
| 10*22510 | 1 | 5-26-11 | DONNA YOHO | TH EXPLORATION, LLC | 1/8+ | 964 | 432 | NA | NA | NA | NA | NA | NA | NA |
| | | | | | | | | | | Rest? | | | | |
| 10*22561 | ر | 5-26-11 | MARY ROSE YOHO | TH EXPLORATION, LLC | 1/8+ | 968 | 200 | INA | NA BUBUT | NA CHARDANA SAN CHARLES AND CHARLES OF THE CHARLES | NA | NA | NA | NA |
| | | | | | | | | | aga Cud audita | T MI SOMO | | | | |
| | | | | | | | | | 10 m | A THOUSE | | | | |
| 10*22562 | Ţ | 5-26-11 | HAROLD C SIMMONS | TH EXPLORATION, LLC | 1/8+ | 966 | 100 | NA | NA | Por Cir. | NA | NA | NA | NA |

| | | | | <u> </u> | | | | | <u> </u> | | I | <u> </u> | 47051 | 02060 |
|----------|-----|---------|-----------------------|------------------------------|------|-----|-----|-------------|---------------|--|----|----------|---|--|
| | | | | | | | | | | | | | ,,,,,,, | 72000 |
| | | | | | | | | | | | | | | |
| 10*22563 | J | 5-26-11 | KIMBERLY D STRAUCH | TH EXPLORATION, LLC | 1/8+ | 966 | 522 | NA | NA | NA | NA | NA | NA | NA |
| | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |
| 10*22585 | | 5-26-11 | CYNTHIA L CHICK | TH EXPLORATION, LLC | 1/8+ | 966 | 102 | NA . | NA A | NA . | NA | NA | NA | NA |
| 10 22303 | | 5 20 11 | | | | | | | | | | | | : |
| | | | | | | | | | | | | | | |
| | | | WILLIAM R AND CONNIE | | | | | | | | | NA . | NA . | NA . |
| 10*22718 | J | 5-26-11 | RICHMOND | TH EXPLORATION, LLC | 1/8+ | 963 | 389 | NA | NA . | NA | NA | NA . | INA . | 100 |
| | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | 21/41 Gastar Exploration USA Inc to Gastar | 36/9 Gastar Exploration, Inc. |
| 10*14785 | ĸ | 5-25-18 | DAVID W. STRAUCH | GASTAR EXPLORATION USA, INC | 1/8+ | 799 | 64 | NA | NA | NA | NA | NA | Exploration, Inc | to TH Exploration II, LLC |
| | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | 21/41 Gastar Exploration | 25 /0 Contact Evaluation Inc. |
| 10*14786 | ĸ | 5-25-18 | TWILA ORA WHIPKEY | GASTAR EXPLORATION USA, INC | 1/8+ | 799 | 61 | NA | NA | NA | NA | NA | USA Inc to Gastar Exploration, Inc | 36/9 Gastar Exploration, Inc. to TH Exploration II, LLC |
| | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | 21/41 Gastar Exploration | |
| | | | WILLIAM CONTROL | CACTAR EVEN ORATION LICA INC | 1/0. | 700 | F40 | NA . | NA | NA . | NA | NA | USA Inc to Gastar Exploration, Inc | 36/9 Gastar Exploration, Inc. to TH Exploration II, LLC |
| 10*14796 | K | 5-25-18 | KIMBERLY S. DENNY | GASTAR EXPLORATION USA, INC | 1/8+ | 799 | 540 | NA . | NA . | | | | | |
| | | | | | | | | | | | | | 22 /44 Control Surface tion | |
| | | | | | | | | | | : | | | 21/41 Gastar Exploration USA Inc to Gastar | 36/9 Gastar Exploration, Inc. |
| 10*14797 | к | 5-25-18 | ORVILLE YOUNG | GASTAR EXPLORATION USA, INC | 1/8+ | 800 | 598 | NA . | NA | S | NA | NA | Exploration, Inc | to TH Exploration II, LLC |
| | | | | | | | | | NA GOLD BLANC | 72 | | | | |
| | | | | | | | | | | . 12 | | | 21/41 Gastar Exploration USA Inc to Gastar | 36/9 Gastar Exploration, Inc. |
| 10*14806 | К | 5-25-18 | DONNA VIVIAN YOHO | GASTAR EXPLORATION USA, INC | 1/8+ | 809 | 558 | NA | NA SOLIDATION | NA BY | NA | NA | Exploration, Inc | to TH Exploration II, LLC |
| | | | | | | | | | 38, 6 | NA CO OFFICE OF THE OFFICE OFFICE OFFICE OFFICE OFFICE OFFICE OFFICE OFFICE OFFICE OFF | | | | |
| | | | | | | | | | 9 | Sa Sa | | | 21/41 Gastar Exploration | |
| 10*14807 | l K | 5-25-18 | JANICE N HAUDENSCHILT | GASTAR EXPLORATION USA, INC | 1/8+ | 809 | 555 | NA . | NA | NA | NA | NA | USA Inc to Gastar Exploration, Inc | 36/9 Gastar Exploration, Inc. to TH Exploration II, LLC |

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|----------|----------|---------|---------------------------------|-----------------------------|------|------------|------------|--|---|--|--|--|--|---|
| 10*14808 | К | 5-25-18 | DANA MILICIA HUMPHREYS | GASTAR EXPLORATION USA, INC | 1/8+ | 809 | 552 | NA | NA | NA | NA | NA | 21/41 Gastar Exploration USA Inc to Gastar Exploration, Inc | 36/9 Gastar Exploration, Inc. to TH Exploration II, LLC |
| 10*14809 | к | 5-25-18 | DEWEY A. MILICIA | GASTAR EXPLORATION USA, INC | 1/8+ | 809 | 549 | NA | NA | NA | NA | NA | 21/41 Gastar Exploration USA Inc to Gastar Exploration, Inc | 36/9 Gastar Exploration, Inc. to TH Exploration II, LLC |
| 10*14810 | ĸ | 5-25-18 | NICOLETTA MILICIA BLOODWORTH | GASTAR EXPLORATION USA, INC | 1/8+ | 809 | 546 | NA | NA | NA | NA | NA . | 21/41 Gastar Exploration USA Inc to Gastar Exploration, Inc | 36/9 Gastar Exploration, Inc. to TH Exploration II, LLC |
| 10*14811 | К | 5-25-18 | MARK YOHO AND MARY YOHO | GASTAR EXPLORATION USA, INC | 1/8+ | 809 | 543 | NA | NA | NA | NA | NA . | 21/41 Gastar Exploration USA Inc to Gastar Exploration, Inc | 36/9 Gastar Exploration, Inc. to TH Exploration II, LLC |
| 10*14815 | ĸ | 5-25-18 | CHESTNUT HOLDINGS INC | GASTAR EXPLORATION INC | 1/8+ | 827 | 535 | NA | NA NA POROCHO | 6 | NA | NA | NA | 36/9 Gastar Exploration, Inc. to TH Exploration II, LLC |
| 10*14822 | к | 5-25-18 | ONWARD E BURGE TRUST | GASTAR EXPLORATION INC | 1/8+ | 876 | 463 | NA | NA MA ZONA ZONA ZONA ZONA ZONA ZONA ZONA ZON | A PER PER PER PER PER PER PER PER PER PER | NA | NA | NA | 36/9 Gastar Exploration, Inc. to TH Exploration II, LLC |
| 10*14823 | V | 5-25-18 | SARAH L BURGE TRUST | GASTAR EXPLORATION INC | | | | | * | NA NA | NA | NA | NA | 36/9 Gastar Exploration, Inc. to TH Exploration II, LLC |
| 10*17195 | | 5-25-18 | PATRICIA HARTMAN | GASTAR EXPLORATION INC | 1/8+ | 876 695 | 459 317 | 23/353 Gastar Exploration USA Inc to Atinum Marcellus I, LLC | 27/311 Gastar Exploration USA, Inc and Atinum Marcellus I, LLC to Chesapeake Appalachia, LLC | | 33/424 Statoil USA Onshore Properties Inc to SWN Exchange Title Holder LLC | | 41/238 Statoil USA Onshore Properties Inc to TH Exploration, LLC | |
| 10*17196 | К | 5-25-18 | DELBERT R. MONTGOMERY | GASTAR EXPLORATION USA, INC | 1/8+ | 695 | 311 | 23/353 Gastar Exploration USA Inc to Atinum Marcellus I, LLC | 27/311 Gastar Exploration USA, Inc and Atinum Marcellus I, LLC to Chesapeake Appalachia, LLC and Statoil USA Onshore Properties Inc | 33/110 Chesapeake Appalachia, LLC to SWN Production Company, LLC | 33/424 Statoil USA Onshore Properties Inc to SWN Exchange Title Holder LLC | 19/624 SWN Exchange Titleholder LLC to SWN Production Company, LLC | 41/238 Statoil USA Onshore Properties Inc to TH Exploration, LLC | 41/256 SWN Production Company, LLC to TH Exploration, LLC |

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|----------|--|---------|-------------------------------------|--|------|-----|-----|--|--|--|--|--|--|---|
| | | | | | | | | | 27/311 Gastar Exploration USA, Inc and Atinum Marcellus I, LLC to | 22/440 (1 | 22/22/52-11/52 0-1 | 40/C24 CMM 5h | | 102060 |
| 10*17197 | ĸ | 5-25-18 | GLORIA J. SIMMONS HAROLD SIMMONS | GASTAR EXPLORATION USA, INC | 1/8+ | 695 | 313 | 23/353 Gastar Exploration USA Inc to Atinum Marcellus I, LLC | and Statoil USA Onshore Properties Inc | 33/110 Chesapeake Appalachia, LLC to SWN Production Company, LLC | 33/424 Statoil USA Onshore Properties Inc to SWN Exchange Title Holder LLC | Titleholder LLC to SWN Production Company, LLC | 41/256 SWN Production Company, LLC to TH Exploration, LLC | 41/238 Statoil USA Onshore Properties Inc. to TH Exploration, LLC |
| | | | | | | | | | 27/311 Gastar Exploration USA, Inc and Atinum Marcellus I, LLC to | | | | | |
| 10*17199 | _K | 5-25-18 | PAMELA L DRAZIC AND JEFFREY DRAZIC | GASTAR EXPLORATION USA, INC | 1/8+ | 695 | 315 | 23/353 Gastar Exploration USA Inc to Atinum Marcellus I, LLC | Chesapeake Appalachia, LLC and Statoil USA Onshore Properties Inc | 33/110 Chesapeake Appalachia, LLC to SWN Production Company, LLC | 33/424 Statoil USA Onshore Properties Inc to SWN Exchange Title Holder LLC | 19/624 SWN Exchange Titleholder LLC to SWN Production Company, LLC | 41/256 SWN Production Company, LLC to TH Exploration, LLC | 41/238 Statoil USA Onshore Properties Inc. to TH Exploration, LLC |
| 20 2723 | | | | | | | | | 27/311 Gastar Exploration USA, Inc and Atinum | | | | | |
| 10*17200 | K | 5-25-18 | STEPHANIE L. HALL | GASTAR EXPLORATION USA, INC | 1/8+ | 697 | 156 | 23/353 Gastar Exploration USA Inc to Atinum Marcellus I, LLC | Marcellus I, LLC to Chesapeake Appalachia, LLC and Statoil USA Onshore Properties Inc | 33/110 Chesapeake Appalachia, LLC to SWN Production Company, LLC | 33/424 Statoil USA Onshore Properties Inc to SWN Exchange Title Holder LLC | 19/624 SWN Exchange Titleholder LLC to SWN Production Company, LLC | 41/238 Statoil USA Onshore Properties Inc to TH Exploration, LLC | 41/256 SWN Production Company, LLC to TH Exploration, LLC |
| | | | | | | | | | 27/311 Gastar Exploration USA, Inc and Atinum | | | | | |
| | | | | | | | | | Marcellus I, LLC to Chesapeake Appalachia, LLC and Statoil USA Onshore | 33/110 Chesapeake Appalachia, LLC to SWN | 33/424 Statoil USA Onshore Properties Inc to SWN | 19/624 SWN Exchange Titleholder LLC to SWN | 41/238 Statoil USA Onshore Properties Inc to TH | 41/256 SWN Production Company, LLC to TH |
| 10*17201 | K | 5-25-18 | DENISE A GALE | GASTAR EXPLORATION USA, INC | 1/8+ | 697 | 395 | I, LLC | Properties Inc | Production Company, LLC | Exchange Title Holder LLC | Production Company, LLC | Exploration, LLC | Exploration, LLC |
| | | | | | | | | | 27/311 Gastar Exploration USA, Inc and Atinum Marcellus I, LLC to | | | | | |
| 10*17202 | | 5-25-18 | JANE GALE | GASTAR EXPLORATION USA, INC | 1/8+ | 697 | 385 | 23/353 Gastar Exploration USA Inc to Atinum Marcellus I, LLC | Chesapeake Appalachia, LLC and Statoil USA Onshore Properties Inc | 33/110 Chesapeake Appalachia, LLC to SWN Production Company, LLC | 33/424 Statoil USA Onshore Properties Inc to SWN Exchange Title Holder LLC | Titleholder LLC to SWN Production Company, LLC | 41/238 Statoil USA Onshore Properties Inc to TH Exploration, LLC | 41/256 SWN Production Company, LLC to TH Exploration, LLC |
| 10 17202 | <u> </u> | 3 23 10 | | | 2,0. | | 303 | ,,,,,, | 27/311 Gastar Exploration USA, Inc and Atinum | , | • | | | |
| | | | DEBORAH K. KLIMASZEWSKI | | | | | 23/353 Gastar Exploration USA Inc to Atinum Marcellus | Marcellus I, LLC to Chesapeake Appalachia, LLC and Statoil USA Onshore | 33/110 Chesapeake Appalachia, LLC to SWN | 33/424 Statoil USA Onshore Properties Inc to SWN | 19/624 SWN Exchange Titleholder LLC to SWN | 41/238 Statoil USA Onshore Properties Inc to TH | 41/256 SWN Production Company, LLC to TH |
| 10*17207 | K | 5-25-18 | FRANK KLIMASZEWSKI, SR. | GASTAR EXPLORATION USA, INC | 1/8+ | 697 | 389 | I, LLC | Properties Inc | Production Company, LLC | Exchange Title Holder LLC | Production Company, LLC | Exploration, LLC | Exploration, LLC |
| | | | | | | | | | 27/311 Gastar Exploration USA, Inc and Atinum Marcellus I, LLC to | | | | | |
| 10*17212 | | 5-25-18 | DARRELL NEWLAND LYDIA NEWLAND | GASTAR EXPLORATION USA, INC | 1/8+ | 697 | 158 | 23/353 Gastar Exploration USA Inc to Atinum Marcellus I, LLC | Chesapeake Appalachia, LLC and Statoil USA Onshore Properties Inc | 33/110 Chesapeake Appalachia, LLC to SWN Production Company, LLC | 33/424 Statoil USA Onshore Properties Inc to SWN Exchange Title Holder LLC | 19/624 SWN Exchange Titleholder LLC to SWN Production Company, LLC | 41/256 SWN Production Company, LLC to TH Exploration, LLC | 41/238 Statoil USA Onshore Properties Inc. to TH Exploration, LLC |
| 10 1/212 | <u> </u> | 3-23-10 | | and the control of the same of | 2/01 | 031 | 230 | 19 - | 27/311 Gastar Exploration USA, Inc and Atinum | | | | , | , |
| | | | | | | | | 23/353 Gastar Exploration USA Inc to Atinum Marcellus | Marcellus I, LLC to Chesapeake Appalachia, LLC and Statoil USA Onshore | 33/110 Chesapeake Appalachia, LLC to SWN | 33/424 Statoil USA Onshore Properties Inc to SWN | Titleholder LLC to SWN | 41/238 Statoil USA Onshore Properties Inc to TH | 41/256 SWN Production Company, LLC to TH |
| 10*17213 | K | 5-25-18 | CAROL DEEN GARDNER | GASTAR EXPLORATION USA, INC | 1/8+ | 697 | 154 | I, LLC | Properties Inc | Production Company, LLC | Exchange Title Holder LLC | Production Company, LLC | Exploration, LLC | Exploration, LLC |
| | | | | | : | | | | NA STATEMENT OF THE STATE OF TH | | | | | |
| 10*18275 | к | 5-25-18 | BETTY JEAN NEELY | TH EXPLORATION, LLC | 1/8+ | 929 | 60 | NA | NA ON BUT BOOK | NA | NA | NA | NA | NA |

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|----------|----------|-----------------|--|-------------------------|------|-----|-----|------|--|-----|---------|-------------|------|--------|
| | | | | | | | | | | | | | 4705 | 102060 |
| 10*18366 | к | 5-25-18 | MARY LOU WILSON AND STANLEY D WILSON | TH EXPLORATION, LLC | 1/8+ | 931 | 311 | NA | NA | NA | NA | NA | NA | NA |
| | | | | | : | | | | | | | | | |
| 10*18369 | К | 5-25-18 | CRAIG ALAN YOHO AND DONNA M YOHO | TH EXPLORATION, LLC | 1/8+ | 931 | 303 | NA . | NA | NA | NA | NA | NA | NA |
| | | | | | | | | | | | | | | |
| 10*18370 | К | 5-25-18 | SAMUEL D YOHO | TH EXPLORATION, LLC | 1/8+ | 931 | 300 | NA . | NA | NA | NA I | NA . | NA | NA |
| 10*18379 | K | [| DAVID N DEVICK TRUSTEE OF THE TONI JO MASON LIVING TRUST | TH EXPLORATION, LLC | 1/8+ | 932 | 439 | NA | NA | NA | NA | NA | NA | NA |
| 10 10373 | | 3-23-10 | | | 1,0 | 302 | | | | | | | | |
| 10*19540 | ĸ | 5- <u>25-18</u> | ERICA M MASON | TH EXPLORATION, LLC | 1/8+ | 942 | 53 | NA | NA | NA | NA | NA | NA | NA |
| | | | | | | • | | | | | | | | |
| 10*19652 | ĸ | 5-25-18 | JACK R HAMMERS | TH EXPLORATION, LLC | 1/8+ | 944 | 108 | NA | NA | NA | NA | NA | NA | NA |
| | | | | | | | | | | | | | | |
| 10*19903 | К | 5-25-18 | PAUL F HAMMERS | TH EXPLORATION, LLC | 1/8+ | 948 | 236 | NA | NA | NA | NA | NA | NA | NA |
| | | | | | | | | | , m | | | | | |
| 10*22008 | K | 5-25-18 | COLIN R YOHO | TH EXPLORATION, LLC | 1/8+ | 953 | 304 | NA . | NA ST | NA | NA | NA | NA | NA |
| | | | | THE FUND OF A TION LIES | 1/0 | 252 | | l 2 | NA THE PROPERTY OF THE PROPERT | | | | | |
| 10*22025 | <u> </u> | 5-25-18 | MARK & MARY YOHO | TH EXPLORATION, LLC | 1/8+ | 960 | 544 | NA S | S V S | INA | NA | NA | NA | NA |

| | | | , | | | | | r | | | | | , | |
|----------|---|--------------|-------------------------|-----------------------------|------|-----|-----|------|-------------|--------------|-------|------|---|--|
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| 10*22129 | К | 5-25-18 | JANICE HAUDENSCHILT | TH EXPLORATION, LLC | 1/8+ | 961 | 459 | NA . | NA NA | NA NA | NA NA | NA . | NA | NA |
| | | | | | | | | | | | | | | |
| 10*22441 | к | 5-25-18 | APRIL ROSE POSTLETHWAIT | TH EXPLORATION, LLC | 1/8+ | 963 | 646 | NA | NA . | INA | .NA | NA . | NA | NA . |
| | | | | · | | | | | | | | | | |
| 10*22510 | К | 5-25-18 | DONNA YOHO | TH EXPLORATION, LLC | 1/8+ | 964 | 432 | NA | NA | NA | NA | NA | NA | NA |
| 10*14785 | L | 5-25-17 | DAVID W. STRAUCH | GASTAR EXPLORATION USA, INC | 1/8+ | 799 | 64 | NA | NA . | NA NA | NA | NA . | 21/41 Gastar Exploration USA Inc to Gastar Exploration, Inc | 36/9 Gastar Exploration, Inc. to TH Exploration II, LLC |
| 10*14786 | L | 5-25-17 | TWILA ORA WHIPKEY | GASTAR EXPLORATION USA, INC | 1/8+ | 799 | 61 | NA | NA . | NA | NA | NA | 21/41 Gastar Exploration USA Inc to Gastar Exploration, Inc | 36/9 Gastar Exploration, Inc. to TH Exploration II, LLC |
| 10*14794 | L | - 5-25-17 | COLIN YOHO | GASTAR EXPLORATION USA, INC | 1/8+ | 799 | 529 | NA | NA | NA | NA | NA . | 21/41 Gastar Exploration USA Inc to Gastar Exploration, Inc | 36/9 Gastar Exploration, Inc. to TH Exploration II, LLC |
| 10*14795 | L | 5-25-17 | LARRY YOHO | GASTAR EXPLORATION USA, INC | 1/8+ | 799 | 526 | NA | NA | NA | NA | NA | 21/41 Gastar Exploration USA Inc to Gastar Exploration, Inc | 36/9 Gastar Exploration, Inc. to TH Exploration II, LLC |
| 10*14796 | | 5-25-17 | KIMBERLY S. DENNY | GASTAR EXPLORATION USA, INC | | 799 | 540 | NA | Environment | Om JUM | NA . | NA | 21/41 Gastar Exploration USA Inc to Gastar Exploration, Inc | 36/9 Gastar Exploration, Inc. to TH Exploration II, LLC |
| 10*14797 | | 5-25-17 | ORVILLE YOUNG | GASTAR EXPLORATION USA, INC | | 800 | 598 | NA | TO 2018 | Ome PECEIVED | NA | NA | 21/41 Gastar Exploration USA Inc to Gastar Exploration, Inc | 36/9 Gastar Exploration, Inc. to TH Exploration II, LLC |

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|----------|---|---------|---------------------------------|-----------------------------|------|-----|-----|-------|--|---------|------|----|---|--|
| 10*14806 | L | 5-25-17 | DONNA VIVIAN YOHO | GASTAR EXPLORATION USA, INC | 1/8+ | 809 | 558 | NA | NA | NA | NA | NA | 21/41 Gastar Exploration USA Inc to Gastar Exploration, Inc | 36/9 Gastar Exploration, Inc. to TH Exploration II, LLC |
| 10*14807 | L | 5-25-17 | JANICE N HAUDENSCHILT | GASTAR EXPLORATION USA, INC | 1/8+ | 809 | 555 | NA NA | NA | NA | NA | NA | 21/41 Gastar Exploration USA Inc to Gastar Exploration, Inc | 36/9 Gastar Exploration, Inc. to TH Exploration II, LLC |
| 10*14808 | L | 5-25-17 | DANA MILICIA HUMPHREYS | GASTAR EXPLORATION USA, INC | 1/8+ | 809 | 552 | NA . | NA | NA | NA . | NA | 21/41 Gastar Exploration USA Inc to Gastar Exploration, Inc | 36/9 Gastar Exploration, Inc. to TH Exploration II, LLC |
| 10*14809 | L | 5-25-17 | DEWEY A. MILICIA | GASTAR EXPLORATION USA, INC | 1/8+ | 809 | 549 | NA | NA | NA | NA | NA | 21/41 Gastar Exploration USA Inc to Gastar Exploration, Inc | 36/9 Gastar Exploration, Inc. to TH Exploration II, LLC |
| 10*14810 | L | 5-25-17 | NICOLETTA MILICIA BLOODWORTH | GASTAR EXPLORATION USA, INC | 1/8+ | 809 | 546 | NA | NA | NA | NA | NA | 21/41 Gastar Exploration USA Inc to Gastar Exploration, Inc | 36/9 Gastar Exploration, Inc. to TH Exploration II, LLC |
| 10*14811 | L | 5-25-17 | MARK YOHO AND MARY YOHO | GASTAR EXPLORATION USA, INC | 1/8+ | 809 | 543 | NA | NA | NA | NA | NA | 21/41 Gastar Exploration USA Inc to Gastar Exploration, Inc | 36/9 Gastar Exploration, Inc. to TH Exploration II, LLC |
| 10*14815 | L | 5-25-17 | CHESTNUT HOLDINGS INC | GASTAR EXPLORATION INC | 1/8+ | 827 | 535 | NA | NA | NA | NA | NA | 21/41 Gastar Exploration USA Inc to Gastar Exploration, Inc | 36/9 Gastar Exploration, Inc. to TH Exploration II, LLC |
| 10*14822 | L | 5-25-17 | ONWARD E BURGE TRUST | GASTAR EXPLORATION INC | 1/8+ | 876 | 463 | NA | Sinus Control of Contr | , NA | NA | NA | 21/41 Gastar Exploration USA Inc to Gastar Exploration, Inc | 36/9 Gastar Exploration, Inc. to TH Exploration II, LLC |
| 10*14823 | | 5-25-17 | SARAH L BURGE TRUST | GASTAR EXPLORATION INC | 1/8+ | 876 | 459 | S S | JUN 1 8 2018 TO OBSITE OF SERVICED OF SERV | NA | NA | NA | 21/41 Gastar Exploration USA Inc to Gastar Exploration, Inc | 36/9 Gastar Exploration, Inc. to TH Exploration II, LLC |

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| | | | | 1 | | | | | 27/311 Gastar Exploration | | | | 17054 | |
| | | | | | | | | | USA, Inc and Atinum | | | | 47051 | 02060 |
| | | | | 1 | ľ | | | | Marcellus I, LLC to | | | 40/604 (14/1) 5 - 1 | | |
| | | | | | | | | 23/353 Gastar Exploration | | 33/110 Chesapeake | 1 7 | 19/624 SWN Exchange | 41/238 Statoil USA Onshore | 41/256 SWN Production |
| | | | | | | | | USA Inc to Atinum Marcellus | | Appalachia, LLC to SWN | Properties Inc to SWN | Titleholder LLC to SWN | Properties Inc to TH | Company, LLC to TH |
| 10*17195 | L | 5-25-17 | PATRICIA HARTMAN | GASTAR EXPLORATION USA, INC | 1/8+ | 695 | 317 | I, LLC | Properties Inc | Production Company, LLC | Exchange Title Holder LLC | Production Company, LLC | Exploration, LLC | Exploration, LLC |
| | | | ĺ | İ | i | | | | 27/311 Gastar Exploration | | ľ | | İ | |
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| | | | ļ | | ľ | | | USA Inc to Atinum Marcellus | | Appalachia, LLC to SWN | Properties Inc to SWN | Titleholder LLC to SWN | Properties Inc to TH | Company, LLC to TH |
| 10*17196 | L | 5-25-17 | DELBERT R. MONTGOMERY | GASTAR EXPLORATION USA, INC | 1/8+ | 695 | 311 | I, LLC | Properties Inc | Production Company, LLC | Exchange Title Holder LLC | Production Company, LLC | Exploration, LLC | Exploration, LLC |
| | | | | | | | | | 27/311 Gastar Exploration | | 1 | | i | |
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| | i | | | | i | l | | 23/353 Gastar Exploration | Chesapeake Appalachia, LLC | 33/110 Chesapeake | 33/424 Statoil USA Onshore | 19/624 SWN Exchange | 41/256 SWN Production | 41/238 Statoil USA Onshore |
| 1 | | | GLORIA J. SIMMONS HAROLD | | | | | USA Inc to Atinum Marcellus | and Statoil USA Onshore | Appalachia, LLC to SWN | Properties Inc to SWN | Titleholder LLC to SWN | Company, LLC to TH | Properties Inc. to TH |
| 10*17197 | L | 5-25-17 | SIMMONS | GASTAR EXPLORATION USA, INC | 1/8+ | 695 | 313 | I, LLC | Properties Inc | Production Company, LLC | Exchange Title Holder LLC | Production Company, LLC | Exploration, LLC | Exploration, LLC |
| | | | | | | | | | 27/311 Gastar Exploration | | | | | |
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| | | | PAMELA L DRAZIC AND JEFFREY | | | | | USA Inc to Atinum Marcellus | | Appalachia, LLC to SWN | Properties Inc to SWN | Titleholder LLC to SWN | Company, LLC to TH | Properties Inc. to TH |
| 10*17199 | L | 5-25-17 | DRAZIC | GASTAR EXPLORATION USA, INC | 1/8+ | 695 | 315 | I, LLC | Properties Inc | Production Company, LLC | Exchange Title Holder LLC | Production Company, LLC | Exploration, LLC | Exploration, LLC |
| | <u> </u> | | | , | 7. | | | | 27/311 Gastar Exploration | ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, | | · · · · · · · · · · · · · · · · · · · | | |
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| 1 | | [| | 1 | l l | | | USA Inc to Atinum Marcellus | | Appalachia, LLC to SWN | Properties Inc to SWN | Titleholder LLC to SWN | Properties Inc to TH | Company, LLC to TH |
| 10*17200 | ا ، ا | 5-25-17 | STEPHANIE L. HALL | GASTAR EXPLORATION USA, INC | 1/0. | 697 | 156 | I. LLC | Properties Inc | Production Company, LLC | Exchange Title Holder LLC | Production Company, LLC | Exploration, LLC | Exploration, LLC |
| 10-17200 | | 3-23-17 | STEFFIANTE L. HALL | GASTAN EXPEDITATION USA, INC | 1/0+ | 057 | 130 | i, ccc | | Production Company, LLC | Exchange has noider ecc | Production company, LLC | Exploration, EEC | Exploration, EEC |
| | | | | | | | | | 27/311 Gastar Exploration | 1 | | | Į. | 1 |
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| ŀ | | | | | | | | 23/353 Gastar Exploration | Chesapeake Appalachia, LLC | | 1 * | 19/624 SWN Exchange | 41/238 Statoil USA Onshore | 41/256 SWN Production |
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| 10*17201 | L | 5-25-17 | DENISE A GALE | GASTAR EXPLORATION USA, INC | 1/8+ | 697 | 395 | I, LLC | Properties Inc | Production Company, LLC | Exchange Title Holder LLC | Production Company, LLC | Exploration, LLC | Exploration, LLC |
| | | | | | | | | | 27/311 Gastar Exploration | | | | | |
| | | | | | | | | | USA, Inc and Atinum | | | | | |
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| l | | 1 | | | | | | 23/353 Gastar Exploration | Chesapeake Appalachia, LLC | 33/110 Chesapeake | 33/424 Statoil USA Onshore | 19/624 SWN Exchange | 41/238 Statoil USA Onshore | 41/256 SWN Production |
| | | | | | | | | USA Inc to Atinum Marcellus | and Statoil USA Onshore | Appalachia, LLC to SWN | Properties Inc to SWN | Titleholder LLC to SWN | Properties Inc to TH | Company, LLC to TH |
| 10*17202 | L | 5-25-17 | JANE GALE | GASTAR EXPLORATION USA, INC | 1/8+ | 697 | 385 | I, LLC | Properties Inc | Production Company, LLC | Exchange Title Holder LLC | Production Company, LLC | Exploration, LLC | Exploration, LLC |
| | | | | | | | | | 27/311 Sastar Exploration | | | | | |
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| 10*17203 | L | 5-25-17 | BARRY RAY MOORE | GASTAR EXPLORATION USA, INC | 1/8+ | 697 | 387 | l, uc | Poserties Inc | Production Company, LLC | Exchange Title Holder LLC | Production Company, LLC | Exploration, LLC | Exploration, LLC |
| | 1 | | | <u> </u> | | | | 6 | 22311 Gastar Exploration | | 1 | i | 1 | |
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| | l | | 1 | | | | | 23/353 Gastar Exploration | Chesapeake Appalachia, LLC | 33/110 Chesaneake | 33/424 Statoil USA Onshore | 19/624 SWN Exchange | 41/238 Statoil USA Onshore | 41/256 SWN Production |
| | l | | CLARENCE RICHARD ZESIGER & | 1 | | | | USA Inc to Atinum Marcellus | | Appalachia, LLC to SWN | Properties Inc to SWN | Titleholder LLC to SWN | Properties Inc to TH | Company, LLC to TH |
| 10*17204 | L | 5-25-17 | MARY ZESIGER | GASTAR EXPLORATION USA, INC | 1/8+ | 697 | 391 | I, LLC | Properties Inc | Production Company, LLC | Exchange Title Holder LLC | Production Company, LLC | Exploration, LLC | Exploration, LLC |
| 10 1/204 | | J-2J-1/ | | I'm car contribit out, live | 4/07 | - '' | 331 | 1, | I. reperces me | | Terramine Trace Floride CEC | | Tanking and and | 1 |

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| | | | M VIRGINIA & EDWARD C | | | | | USA Inc to Atinum Marcellus | | Appalachia, LLC to SWN | Properties Inc to SWN | Titleholder LLC to SWN | Properties Inc to TH | Company, LLC to TH |
| 10*17206 | L | 5-25-17 | MARSH | GASTAR EXPLORATION USA, INC | 1/8+ | 697 | 399 | I, LLC | Properties Inc | Production Company, LLC | Exchange Title Holder LLC | Production Company, LLC | Exploration, LLC | Exploration, LLC |
| | | | | | T | | | | 27/311 Gastar Exploration | | | | | |
| | 1 | | | , | | | | | USA, Inc and Atinum | | | | | |
| | | | | | | | | | Marcellus I, LLC to | | | | | |
| | İ | | DEDODALLY KINAACTELIKKI | l | | | | 23/353 Gastar Exploration | | | 33/424 Statoil USA Onshore | _ · | 41/238 Statoil USA Onshore | 41/256 SWN Production |
| 10*17207 | ۱. | 5-25-17 | PRANK KLIMASZEWSKI FRANK KLIMASZEWSKI, SR. | GASTAR EXPLORATION USA, INC | 1/8+ | 607 | 389 | USA Inc to Atinum Marcellus I, LLC | Properties Inc | Appalachia, LLC to SWN Production Company, LLC | Properties Inc to SWN | Titleholder LLC to SWN | Properties Inc to TH Exploration, LLC | Company, LLC to TH |
| 10 1/20/ | ┼╌ | 3-23-17 | THANK KENVIASZEVSKI, SK. | GASTAN EXPEDNATION USA, INC | 1/8+ | 697 | 369 | 1, LLC | | Production Company, LLC | Exchange Title Holder LLC | Production Company, LLC | Exploration, LLC | Exploration, LLC |
| | 1 | 1 | | | 1 | | | | 27/311 Gastar Exploration USA, Inc and Atinum | | | | | |
| | | 1 | | | | | | | Marcellus I, LLC to | | | | | |
| | | | | | | | | 23/353 Gastar Exploration | Chesapeake Appalachia, LLC | 33/110 Chesapeake | 33/424 Statoil USA Onshore | 19/624 SWN Exchange | 41/238 Statoil USA Onshore | 41/256 SWN Production |
| | | | | | | | | USA Inc to Atinum Marcellus | | Appalachia, LLC to SWN | Properties Inc to SWN | Titleholder LLC to SWN | Properties Inc to TH | Company, LLC to TH |
| 10*17210 | L | 5-25-17 | MARILYN NOEL | GASTAR EXPLORATION USA, INC | 1/8+ | 697 | 393 | I, LLC | Properties Inc | Production Company, LLC | Exchange Title Holder LLC | Production Company, LLC | Exploration, LLC | Exploration, LLC |
| | | | | | | | | <u> </u> | 27/311 Gastar Exploration | | | | | |
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| | 1 | | CABULANAS TESICES S. 110115 | | - 1 | | | 23/353 Gastar Exploration | Chesapeake Appalachia, LLC | | 33/424 Statoil USA Onshore | | 41/238 Statoil USA Onshore | 41/256 SWN Production |
| 10*17211 | ۱. | 5-25-17 | GARY WAYNE ZESIGER & VICKIE ZESIGER | CASTAR EVELORATION LISA INC | 4/0. | 607 | 207 | | and Statoil USA Onshore | Appalachia, LLC to SWN | Properties Inc to SWN | Titleholder LLC to SWN | Properties Inc to TH | Company, LLC to TH |
| 10*17211 | +- | 3-23-17 | ZESIGER | GASTAR EXPLORATION USA, INC | 1/8+ | 697 | 397 | i, LLC | Properties Inc | Production Company, LLC | Exchange Title Holder LLC | Production Company, LLC | Exploration, LLC | Exploration, LLC |
| | 1 | | | | İ | | | | 27/311 Gastar Exploration USA, Inc and Atinum | | | | | |
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| | 1 | | | l | ŀ | | | 23/353 Gastar Exploration | • | 33/110 Chesapeake | 33/424 Statoil USA Onshore | 119/624 SWN Exchange | 41/238 Statoil USA Onshore | 41/256 SWN Production |
| | ŀ | | DARRELL NEWLAND LYDIA | | | | | USA Inc to Atinum Marcellus | | Appalachia, LLC to SWN | Properties Inc to SWN | Titleholder LLC to SWN | Properties Inc to TH | Company, LLC to TH |
| 10*17212 | L | 5-25-17 | NEWLAND | GASTAR EXPLORATION USA, INC | 1/8+ | 697 | 158 | ı, LLC | Properties Inc | Production Company, LLC | Exchange Title Holder LLC | Production Company, LLC | Exploration, LLC | Exploration, LLC |
| | Ţ | | | | | | | | 27/311 Gastar Exploration | | | | | |
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| 10*17212 | ١. | - 25 47 | CAROL DEEN GARDNER | | | | | USA Inc to Atinum Marcellus | | Appalachia, LLC to SWN | Properties Inc to SWN | Titleholder LLC to SWN | Properties Inc to TH | Company, LLC to TH |
| 10*17213 | ㄴ | 5-25-17 | CAROL DEEN GARDNER | GASTAR EXPLORATION USA, INC | 1/8+ | 697 | 154 | i, LLC | Properties Inc | Production Company, LLC | Exchange Title Holder LLC | Production Company, LLC | Exploration, LLC | Exploration, LLC |
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| 10*18275 | L | 5-25-17 | BETTY JEAN NEELY | TH EXPLORATION, LLC | 1/8+ | 929 | 60 | NA | NA | NA | NA | NA | NA | NA |
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| 10110000 | ١. | - 25 42 | MARY LOU WILSON AND | TH EVELOR ATION: | | | | | IT WE STATE OF THE PARTY OF THE | l | l | l | | l |
| 10*18366 | ┞┖ | 5-25-17 | STANLEY D WILSON | TH EXPLORATION, LLC | 1/8+ | 931 | 311 | NA | NAS S S | INA | NA | NA | NA | NA |
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| | 1 | | CRAIG ALAN YOHO AND DONNA | | - 1 | | | | 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 | 1 | 1 | | | |
| 10*18369 | L | 5-25-17 | | TH EXPLORATION, LLC | 1/8+ | 931 | 303 | NA | NA 90 20 6 | NA . | NA | NA | NA | NA |
| | • | | | | -, - | | | · · · · · · · · · · · · · · · · · · · | ' | 11 | · · · · · · · · · · · · · · · · · · · | | <u> </u> | L |

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| 10*18370 | Ł | 5-25-17 | SAMUEL D YOHO | TH EXPLORATION, LLC | 1/8+ | 931 | 300 | NA | NA | NA | NA | NA | NA | NA |
| | | | | | | | | | | | | | | |
| | | | DAVID N DEVICK TRUSTEE OF | | | | | | | | | | | |
| 10*18379 | L | 5-25-17 | THE TONI JO MASON LIVING TRUST | TH EXPLORATION, LLC | 1/8+ | 932 | 439 | NA | NA . | NA | NA | NA . | NA . | NA |
| | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | : | |
| 10*19540 | L | 5-25-17 | ERICA M MASON | TH EXPLORATION, LLC | 1/8+ | 942 | 53 | NA | NA | NA | NA . | NA . | NA | NA . |
| | Ť | | | | 70 | | | | | | | | | |
| | | | | | | | | | | | | | | |
| 10*19652 | | 5-25-17 | JACK R HAMMERS | TH EXPLORATION, LLC | 1/8+ | 944 | 108 | NA | NA . | NA | NA . | NA | NA . | NA . |
| 10 15052 | | 3-23-17 | JACK I TANIMETO | THE STATE OF THE S | 1/01 | 344 | 100 | no. | 100 | | NS. | | | |
| | | | | | | | | | | | | | | |
| ****** | | F 2F 47 | PAUL F HAMMERS | THE EVOLOPATION HE | 4/2 | | | | l | | | NA | .NA | NA |
| 10*19903 | | 5-25-17 | PAUL F HAMIWERS | TH EXPLORATION, LLC | 1/8+ | 948 | 236 | NA . | NA | NA | NA . | INA | INO. | No. |
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| 10*22008 | L | 5-25-17 | COLIN R YOHO | TH EXPLORATION, LLC | 1/8+ | 953 | 304 | NA | NA | INA | NA | NA . | NA . | NA |
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| | | | | | | | | | | | | | | |
| 10*22025 | L | 5-25-17 | MARK & MARY YOHO | TH EXPLORATION, LLC | 1/8+ | 960 | 544 | NA | | NA | NA | NA | NA . | NA |
| | | | | | | | | | J. J. J. | | | | | |
| | | | | | | | | | 3,00 | | | | | |
| 10*22129 | L | 5-25-17 | JANICE N HAUDENSCHILT | TH EXPLORATION, LLC | 1/8+ | 961 | 459 | NA | NA & B | NA | NA . | NA . | NA . | NA |
| | | | | | | | | Sé | NA NA NA NA NA NA NA NA NA NA NA NA NA N | • | | | | |
| | | | | | | | | | 8 8 M | | | | | |
| 10*22441 | L | 5-25-17 | APRIL ROSE POSTLETHWAIT | TH EXPLORATION, LLC | 1/8+ | 963 | 646 | NA | NA 🞉 | NA | NA | NA | NA | NA |

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|----------|-----|----------|------------|---|------|-----|-----|----|-----|------|--------|---------|-----|-------|
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| 10*22510 | I L | 5-25-17 | DONNA YOHO | TH EXPLORATION, LLC | 1/8+ | 964 | 432 | NA | INA | INA | INA | INA | 110 | INA . |
| 10 22310 | | 10 40 47 | | *************************************** | -,0. | | | | | | | | • | · |

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ASSIGNMENT AND CONVEYANCE

This Assignment and Conveyance (this "Assignment") is from STATOIL USA ONSHORE PROPERTIES INC., a Delaware corporation ("Assignor"), to TH Exploration, LLC, a Texas limited liability company ("Assignee"), and is executed on December 18, 2017 (the "Effective Date"). Assignor and Assignee may be referred to herein collectively as the "Parties," or individually as a "Party." Capitalized terms used herein but not otherwise defined herein (including in Section 3.7) shall have the meanings given such terms in that certain Acreage Trade Agreement between the Assignor and the Assignee dated August 24, 2017 (the "Acreage Trade Agreement").

ARTICLE 1 ASSIGNMENT OF ASSETS

Section 1.1 <u>Assignment.</u> For good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, Assignor hereby GRANTS, BARGAINS, ASSIGNS, CONVEYS AND TRANSFERS unto Assignee all of Assignor's right, title and interest in and to (i) the oil and gas leases described in more detail on <u>Exhibit A</u> attached hereto (the "Leases") INSOFAR AND ONLY INSOFAR as they cover those lands described on <u>Exhibit A</u> (the "Leasehold Rights") and (ii) any surface use agreements that relate to such Leasehold Rights (collectively with the Leasehold Rights, the "Conveyed Assets").

TO HAVE AND TO HOLD the Conveyed Assets, together with all and singular the rights, privileges, contracts and appurtenances, in any way appertaining or belonging thereto, unto Assignee, its successors and assigns, forever, subject, to the terms and conditions of this Assignment.

Section 1.2 <u>Assignment Subject to Acreage Trade Agreement</u>. This Assignment is made in accordance with and is subject to the terms, covenants and conditions contained in that certain Acreage Trade Agreement. In the event of a conflict between the provisions of the Acreage Trade Agreement and this Assignment, the provisions of the Acreage Trade Agreement shall control. The execution and delivery of this Assignment by Assignor, and the execution and acceptance of this Assignment by Assignee, shall not operate to release or impair any surviving rights or obligations of either Party with respect to the other under the Acreage Trade Agreement.

ARTICLE 2 SPECIAL WARRANTY OF TITLE AND DISCLAIMERS

Section 2.1 Special Warranty of Title. Assignor hereby agrees to warrant and defend Defensible Title to the Leases unto Assignee, its successors and assigns, against every Person whomsoever lawfully claiming or to claim the same or any part thereof by, through or under Assignor or any of its Affiliates, but not otherwise.

Section 2.2 <u>Disclaimers of Warranties and Representations.</u>

(a) EXCEPT AS EXPRESSLY REPRESENTED OTHERWISE IN <u>SECTION</u>
<u>VI</u> OF THE ACREAGE TRADE AGREEMENT OR THIS ASSIGNMENT, ASSIGNOR
MAKES NO, AND HEREBY EXPRESSLY DISCLAIMS, ANY REPRESENTATION OR

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EST PRODUCTION COMPANY EST PLAZA 625 LIBERTY AVENUE STE 1700 PITTSBURGH PA 15222-3110

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When Recorded Return to: EQT Production Company EQT Plaza 625 Liberty Avenue, Suite 1700 Pittsburgh, Pennsylvania 15222 Attn: Law Department Henry Reich, Assistant General Counsel Harshall County
Jan Pest, Clerk
Instrument 1421576
03/02/2017 @ 03:35:08 PM
ASSIGNEENTS
Book 38 @ Page 75
Pages Recorded 44
Recording Cost \$ 54.00

ASSIGNMENT AND BILL OF SALE

STATE OF WEST VIRGINIA § KNOW ALL PERSONS BY THESE PRESENTS: COUNTY OF MARSHALL §

This ASSIGNMENT AND BILL OF SALE (this "Assignment") is from STONE ENERGY CORPORATION, a Delaware corporation ("Assignor"), whose address is 625 E. Kaliste Saloom Road, Lafayette, Louisiana 70508, to EQT PRODUCTION COMPANY, a Pennsylvania corporation ("Assignee"), whose address is 625 Liberty Avenue, Suite 1700, Pittsburgh, Pennsylvania 15222, and is effective as of 7:00 a.m. (Eastern Time) on June 1, 2016 (the "Effective Time").

RECITALS

WHEREAS, Assignor and certain of its Affiliates filed cases under title 11 of the United States Code, 11 U.S.C. §§ 101, et seq., jointly administered as Case No. 16-36390 with the United States Bankruptcy Court for the Southern District of Texas, Houston Division (the "Bankruptcy Court").

WHEREAS, Assignor desires to assign to Assignee, and Assignee desires to receive from Assignor, all of Assignor's right, title and interest in and to the Assets (as defined hereinafter) and properties described below in accordance with that certain Purchase and Sale Agreement between Assignee and Assignor dated February 9, 2017 (as the same may be amended in accordance therewith, the "PSA").

US-DOCS\80385567.2

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MARSHALL County 01:22:38 PM
Instrument No 1403489
Date Recorded 04/27/2016
Document Type ASN
Pages Recorded 77
Book-Page 36-9
Recording Fee \$77.00
Additional \$13.00

WHEN RECORDED RETURN TO: THE Exploration II, TLC 1320 South University Drive, Suite 500 Fort Worth, Texas 76107 Attn: David Kalish

Execution Version

ASSIGNMENT AND BILL OF SALE

STATE OF WV

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KNOW ALL MEN BY THESE PRESENTS:

COUNTY OF MARSHALL

THIS ASSIGNMENT AND BILL OF SALE (this "Assignment"), dated April 7, 2016, but effective as of 7,00 A.M. Houston time on Ianuary 1, 2016 (the "Effective Time"), is between Gastar Exploration Inc., a Delaware corporation, whose address is 1331 Lamar Street, Suite 650 Houston, Texas 77010 ("Assignor"), and TH Exploration II, LLC, a Texas limited liability company, whose address is 1320 South University Drive, Suite 500, Fort Worth, Texas 76107 ("Assignee"). Assignor and Assignee are each, individually, referred to herein as a "Party" and, collectively, as the "Parties".

Capitalized terms used but not defined herein shall have the respective meanings set forth in that certain Purchase and Sale Agreement (the "Purchase Agreement"), dated as of February 19, 2016, by and between Assignor and Assignee (as successor-in-interest).

Section 1. Assignment. The conveyance and assignment herein shall be deemed effective as of the Effective Time.

For Ten Dollars (\$10.00) and other good and valuable consideration (the receipt and sufficiency of which are hereby acknowledged). Assignor does hereby forever GRANT, BARGAIN, SELL, CONVEY, ASSIGN, TRANSFER, SET OVER AND DELIVER unto Assignee, all of Assignor's right, title and interest in and to the following interests and properties (such right, title and interest described in subsections (a) through (b) of this Section 1, less and except the Excluded Assets, collectively, the "Conveyed Interests"):

(a) all oil, gas and/or mineral leases of Assignor, together with any and all other right, title and interest of Assignor in and to the leasehold estates created thereby, including subleases, royalties, overriding royalties, net profits interest, carried interests or similar rights or interests in such leases, and together with all rights, privileges, benefits and powers conferred upon Assignor with respect to the use and occupation of the lands covered thereby that may be necessary, convenient or incidental to the possession and enjoyment of such leases, located in Marshall, Wetzel, Doddridge, Harrison, Lewis, Marion, and Monongalia Counties, West Virginia and Greene, Butler, Fayette, Somerset, and Clearfield Counties, Pennsylvania, including those described on Exhibit A—Part 1 attached hereto (subject to any reservations, limitations of depth restrictions described on Exhibit A—Part 1), (Assignor's interest in such leases and other right, title and interest as so limited, the "Leases");

(b) all rights and interests in, under or derived from all unifization agreements in effect with respect to any of the Leases and the units created thereby, including those described

Office of Off and Gas

JUN 1 8 2018

Environmental Protection

US:4080690



4705 1020 c -

June 14, 2018

WV Department of Environmental Protection Office of Oil & Gas 601 57th Street, SE Charleston, WV 25304 Attention: Laura Adkins

RE: Evad 6HM

Subject: Marshall County Route 29/1 and 29 Road Crossing Letter

Dear Laura:

Tug Hill Operating, LLC (THO) hereby submits this letter as confirmation that THO has obtained the right to drill, extract and produce the minerals under Marshall County Route 29/1 and 29 in the area reflected on the Evad 6HM well plat. THO has conducted a full title search in the relevant Court House to confirm its ownership under said County Routes and is not currently aware of any recorded document that would suggest an ownership other than THO.

If your office has any questions or concerns regarding the contents of this letter, please do not hesitate to contact me directly at 304-376-0111, or by email at amiller@tug-hillop.com.

Sincerely,

Amy L. Miller

Permitting Specialist - Appalachia Region

Since of Oil and Gase

SUN 1 8 2018

Environmental Protection

STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL MAND GAS NOTICE CERTIFICATION otice Certification: 06/07/2018 API No. 47- 051 -

| Date of Notic | ce Certification: 06/07/2018 | | API No. 47 | 7- <u>051 - 3 9, </u> |
|---|---|---|--|---|
| | | | Operator's | Well No. Evad 6HM |
| | | | Well Pad N | Well No. Evad 6HM |
| Notice has l | been given: | | | |
| Pursuant to th | e provisions in West Virginia Code § 22-6A, | , the Operator has prov | vided the rec | quired parties with the Notice Forms listed |
| | tract of land as follows: | • | | |
| State: | West Virginia | TITE (NI ATS 02 | Easting: | 517,717.72 |
| County: | Marshall | UTM NAD 83 | Northing: | 4,399,411.32 |
| District: | Franklin | Public Road Acc | ess: | Burch Ridge Road - County Route 29 |
| Quadrangle: | New Martinsville 7.5' | Generally used fa | arm name: | Accettolo, Patricia & Louis |
| Watershed: | French Creek - Ohio River (HUC 10) | • | | |
| prescribed by it has provide information re of giving the requirements Virginia Code | West Virginia Code § 22-6A-7(b), every p the secretary, shall be verified and shall con- ed the owners of the surface described in s equired by subsections (b) and (c), section six surface owner notice of entry to survey pu of subsection (b), section sixteen of this ar e § 22-6A-11(b), the applicant shall tender pr have been completed by the applicant. | tain the following infoubdivisions (1), (2) a steen of this article; (in rsuant to subsection (ticle were waived in | ormation: (14 and (4), substitute it is that the re (a), section to writing by | 4) A certification from the operator that (i) section (b), section ten of this article, the quirement was deemed satisfied as a result ten of this article six-a; or (iii) the notice the surface owner; and Pursuant to West |

| Pursuant to West Virginia Code § 22-6A, the Operator has attached proof to this Notice Certification that the Operator has properly served the required parties with the following: | |
|---|-----------------------------|
| *PLEASE CHECK ALL THAT APPLY | OOG OFFICE USE ONLY |
| ☐ 1. NOTICE OF SEISMIC ACTIVITY OF INOTICE NOT REQUIRED BECAUSE NO SEISMIC ACTIVITY WAS CONDUCTED | ☐ RECEIVED/ NOT REQUIRED |
| ■ 2. NOTICE OF ENTRY FOR PLAT SURVEY or □ NO PLAT SURVEY WAS CONDUCTED | ☐ RECEIVED. |
| 3. NOTICE OF INTENT TO DRILL or NOTICE NOT REQUIRED BECAUSE NOTICE OF ENTRY FOR PLAT SURVEY WAS CONDUCTED or | ☐ RECEIVED/ NOT REQUIRED |
| ☐ WRITTEN WAIVER BY SURFACE OWNER (PLEASE ATTACH) | |
| 4. NOTICE OF PLANNED OPERATION | ☐ RECEIVED |
| ■ 5. PUBLIC NOTICE | ☐ RECEIVED |
| ■ 6. NOTICE OF APPLICATION | ☐ RECEIVED |

Required Attachments:

The Operator shall attach to this Notice Certification Form all Notice Forms and Certifications of Notice that have been provided to the required parties and/or any associated written waivers. For the Public Notice, the operator shall attach a copy of the Class II Legal Advertisement with publication date verification or the associated Affidavit of Publication. The attached Notice Forms and Certifications of Notice shall serve as proof that the required parties have been noticed as required under West Virginia Code § 22-6A. Pursuant to West Virginia Code § 22-6A-11(b), the Certification of Notice to the person may be made by affidavit of personal service, the return receipt card or other postal receipt for certified mailing.

4705 102060

Certification of Notice is hereby given:

THEREFORE, I Amy L Miller West Virginia Code § 22-6A. I certify that as required under West Virginia Code § 22-6A, I have served the attached copies of the Notice Forms, identified above, to the required parties through personal service, by registered mail or by any method of delivery that requires a receipt or signature confirmation. I certify under penalty of law that I have personally examined and am familiar with the information submitted in this Notice Certification and all attachments, and that based on my inquiry of those individuals immediately responsible for obtaining the information. I believe that the information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

Well Operator: Tug Hill Operating, LLC Address: 380 Southpointe Boulevard, Plaza II, Suite 200 By: Amy L. Miller Canonsburg, PA 15317 Facsimile: Its: Permitting Specialist 724-338-2030 Telephone: 724-749-8388 Email: amiller@tug-hillop.com

COMMONWEATH OF PENNSYLVANIA

NOTARIAL SEAL MAUREEN A STEAD Notary Public CECIL TWP, WASHINGTON COUNTY My Commission Expires Jan 28, 2019 Subscribed and sworn before me this 7 day of JVNE 2019.

Notary Public

My Commission Expires

Oil and Gas Privacy Notice:

The Office of Oil and Gas processes your personal information, such as name, address and telephone number, as part of our regulatory duties. Your personal information may be disclosed to other State agencies or third parties in the normal course of business or as needed to comply with statutory or regulatory requirements, including Freedom of Information Act requests. Our office will appropriately secure your personal information. If you have any questions about our use or your personal information, please contact DEP's Chief Privacy Officer at depprivacyofficer@wv.gov.

API NO. 47- 051 OPERATOR WELL NO. Evad 6HM
Well Pad Name: Accettolo

STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS NOTICE OF APPLICATION 4705 1020 5

| Noti | ce Time Requirement | : notice shall be provided no | later than the filing date of permit application. |
|--|--|---|--|
| | e of Notice: 6/7/2018 ce of: | Date Permit Application Fi | iled: <u>6/8/2018</u> |
| 7 | PERMIT FOR ANY WELL WORK | | OF APPROVAL FOR THE ON OF AN IMPOUNDMENT OR PIT |
| Deli | very method pursuan | t to West Virginia Code § 2 | 22-6A-10(b) |
| \checkmark | PERSONAL Z | REGISTERED | METHOD OF DELIVERY THAT REQUIRES A |
| | SERVICE | MAIL | RECEIPT OR SIGNATURE CONFIRMATION |
| the soil and description of the soil and description of the soil and t | urface of the tract on what gas leasehold being dribed in the erosion and ator or lessee, in the every coal seams; (4) The own work, if the surface trace bundment or pit as described water for consumptions water well, spring or wide water for consumptions water well, spring or wide water for consumptions water well work activity bection (b) of this section dry of the sheriff requires ision of this article to the R. § 35-8-5.7.a requires | nich the well is or is proposed leveloped by the proposed well sediment control plan submitt int the tract of land on which the tract of land on which the tract of the surface that is to be used for the placeme ibed in section nine of this artiwater supply source located whom by humans or domestic animis to take place. (c)(1) If more is hold interests in the lands, the dot to be maintained pursuant to be contrary, notice to a lien holdes, in part, that the operator she | cle, and the well plat to each of the following persons: (1) The owners of record of to be located; (2) The owners of record of the surface tract or tracts overlying the ll work, if the surface tract is to be used for roads or other land disturbance as ed pursuant to subsection (c), section seven of this article; (3) The coal owner, he well proposed to be drilled is located [sic] is known to be underlain by one or ract or tracts overlying the oil and gas leasehold being developed by the proposed int, construction, enlargement, alteration, repair, removal or abandonment of any licle; (5) Any surface owner or water purveyor who is known to the applicant to ithin one thousand five hundred feet of the center of the well pad which is used to mals; and (6) The operator of any natural gas storage field within which the than three tenants in common or other co-owners of interests described in the explicant may serve the documents required upon the person described in the expectation eight, article one, chapter eleven-a of this code. (2) Notwithstanding any der is not notice to a landowner, unless the lien holder is the landowner. W. Va. all also provide the Well Site Safety Plan ("WSSP") to the surface owner and any extesting as provided in section 15 of this rule. |
| ☑ A | pplication Notice | WSSP Notice ☐ E&S Plan | n Notice Well Plat Notice is hereby provided to: |
| | JRFACE OWNER(s) | | ☐ COAL OWNER OR LESSEE |
| | e: Louis J. and Patricia Accetto | lo (Access Road and Well Pad) | Name: Appalachian Power Company |
| | ress: 1103 Traubert Place | | Address: 1068 US-60 |
| | sbee, WV 26037 | 5 1 1 1 1 1 5 1 5 | Milton, WV 25541 |
| | e: Jesse P. McHenry (Access | Road and Well Pad) | COAL OPERATOR |
| | ress: 12 Cedarcrest Drive | | Name: |
| | ling, WV 26003 | Road and/or Other Disturban | Address: |
| | IC: Wilbur L. McHenry | Road and/or Other Disturban | ESTIDENCE OWNED OF WATER WELL |
| | ress: 13820 Mtcalf Avenue # | 11313 | AND/OR WATER DIRVEYOR(s) |
| | and Park, KS 66223 | 11010 | Name: See attached list Qn A |
| | | | Address: |
| Add | ress: | | The organization of the contract |
| | | | OPERATOR OF ANY NATURAL COASACTORAGE FIELD |
| □ SU | JRFACE OWNER(s) (| Impoundments or Pits) | Name: |
| _ | | | Address: |
| Add | ress: | | W A Par |
| | | | SURFACE OWNER OF WATER WELL AND/OR WATER PURVEYOR(s) Name: See attached list Address: OPERATOR OF ANY NATURAL CASATORAGE FIELD Name: Address: *Please attach additional forms if necessary |

WW-6A (8-13)

Office of Oil and Gas WV Department of

API NO. 47- 051 OPERATOR WELL NO. Evad 6HM Well Pad Name: Accettolo

Notice is hereby given:

Notice is hereby given:

Pursuant to West Virginia Code § 22-6A-10(b), notice is hereby given was giv well work or for a certificate of approval for the construction of an impoundment or pit.

This Notice Shall Include:

Pursuant to W. Va. Code § 22-6A-10(b), this notice shall include: (1) copies of the application; (2) the erosion and sediment control plan required by section seven of this article; and (3) the well plat.

Pursuant to W. Va. Code § 22-6A-10(f), this notice shall include: (1) a statement of the time limits for filing written comments; (2) who may file written comments; (3) the name and address of the secretary for the purpose of filing the comments and obtaining additional information; and (4) a statement that the persons may request, at the time of submitting written comments, notice of the permit decision and a list of persons qualified to test water.

Pursuant to W. Va. Code R. § 35-8-5.7.a, the operator shall provide the Well Site Safety Plan to the surface owner and any water purveyor or surface owner subject to notice and water testing as provided in section 15 of this rule.

Pursuant to W. Va. Code R. § 35-8-15.2.c, this notice shall: (1) contain a statement of the surface owner's and water purveyor's right to request sampling and analysis; (2) advise the surface owner and water purveyor of the rebuttable presumption for contamination or deprivation of a fresh water source or supply; advise the surface owner and water purveyor that refusal to allow the operator to conduct a pre-drilling water well test constitutes a method to rebut the presumption of liability; (3) advise the surface owner and water purveyor of his or her independent right to sample and analyze any water supply at his or her own expense; advise the surface owner and water purveyor whether or not the operator will utilize an independent laboratory to analyze any sample; and (4) advise the surface owner and or water purveyor that he or she can obtain from the Chief a list of water testing laboratories in the subject area capable of and qualified to test water supplies in accordance with standard acceptable methods.

Additional information related to horizontal drilling may be obtained from the Secretary, at the WV Department of Environmental Protection headquarters, located at 601 57th Street, SE, Charleston, WV 25304 (304-926-0450) or by visiting www.dep.wv.gov/oiland-gas/pages/default.aspx.

Well Location Restrictions

Pursuant to W. Va. Code § 22-6A-12. Wells may not be drilled within two hundred fifty feet measured horizontally from any existing water well or developed spring used for human or domestic animal consumption. The center of well pads may not be located within six hundred twenty-five feet of an occupied dwelling structure, or a building two thousand five hundred square feet or larger used to house or shelter dairy cattle or poultry husbandry. This limitation is applicable to those wells, developed springs, dwellings or agricultural buildings that existed on the date a notice to the surface owner of planned entry for surveying or staking as provided in section ten of this article or a notice of intent to drill a horizontal well as provided in subsection (b), section sixteen of this article was provided, whichever occurs first, and to any dwelling under construction prior to that date. This limitation may be waived by written consent of the surface owner transmitted to the department and recorded in the real property records maintained by the clerk of the county commission for the county in which such property is located. Furthermore, the well operator may be granted a variance by the secretary from these distance restrictions upon submission of a plan which identifies the sufficient measures, facilities or practices to be employed during well site construction, drilling and operations. The variance, if granted, shall include terms and conditions the department requires to ensure the safety and protection of affected persons and property. The terms and conditions may include insurance, bonding and indemnification, as well as technical requirements. (b) No well pad may be prepared or well drilled within one hundred feet measured horizontally from any perennial stream, natural or artificial lake, pond or reservoir, or a wetland, or within three hundred feet of a naturally reproducing trout stream. No well pad may be located within one thousand feet of a surface or ground water intake of a public water supply. The distance from the public water supply as identified by the department shall be measured as follows: (1) For a surface water intake on a lake or reservoir, the distance shall be measured from the boundary of the lake or reservoir. (2) For a surface water intake on a flowing stream, the distance shall be measured from a semicircular radius extending upstream of the surface water intake. (3) For a groundwater source, the distance shall be measured from the wellhead or spring. The department may, in its discretion, waive these distance restrictions upon submission of a plan identifying sufficient measures, facilities or practices to be employed during well site construction, drilling and operations to protect the waters of the state. A waiver, if granted, shall impose any permit conditions as the secretary considers necessary. (c) Notwithstanding the foregoing provisions of this section, nothing contained in this section prevents an operator from conducting the activities permitted or authorized by a Clean Water Act Section 404 permit or other approval from the United States Army Corps of Engineers within any waters of the state or within the restricted areas referenced in this section. (d) The well location restrictions set forth in this section shall not apply to any well on a multiple well pad if at least one of the wells was permitted prior to the effective date of this article. (e) The secretary shall, by December 31, 2012, report to the Legislature on the noise, light, dust and volatile organic compounds generated by the drilling of horizontal wells as they relate to the well location restrictions regarding occupied dwelling structures pursuant to this section. Upon a finding, if any, by the secretary that the well location restrictions regarding occupied dwelling structures are inadequate or otherwise require alteration to address the items WW-6A (8-13) API NO.477050 5 1 0 2 0 6 0 OPERATOR WELL NO. Evad 6HM

Well Pad Name: Accettolo

examined in the study required by this subsection, the secretary shall have the authority to propose for promulgation legislative rules establishing guidelines and procedures regarding reasonable levels of noise, light, dust and volatile organic compounds relating to drilling horizontal wells, including reasonable means of mitigating such factors, if necessary.

Water Well Testing:

Pursuant to West Virginia Code § 22-6A-10(d), notification shall be made, with respect to surface landowners identified in subsection (b) or water purveyors identified in subdivision (5), subsection (b) of this section, of the opportunity for testing their water well. The operator shall provide an analysis to such surface landowner or water purveyor at their request.

Water Testing Laboratories:

Pursuant to West Virginia Code § 22-6A-10(i), persons entitled to notice pursuant to subsection (b) of this section may contact the department to ascertain the names and locations of water testing laboratories in the subject area capable and qualified to test water supplies in accordance with standard accepted methods. In compiling that list of names the department shall consult with the state Bureau for Public Health and local health departments. A surface owner and water purveyor has an independent right to sample and analyze any water supply at his or her own expense. The laboratory utilized by the operator shall be approved by the agency as being certified and capable of performing sample analyses in accordance with this section.

Rebuttable Presumption for Contamination or Deprivation of a Fresh Water Source or Supply:

W. Va. Code § 22-6A-18 requires that (b) unless rebutted by one of the defenses established in subsection (c) of this section, in any action for contamination or deprivation of a fresh water source or supply within one thousand five hundred feet of the center of the well pad for horizontal well, there is a rebuttable presumption that the drilling and the oil or gas well or either was the proximate cause of the contamination or deprivation of the fresh water source or supply. (c) In order to rebut the presumption of liability established in subsection (b) of this section, the operator must prove by a preponderance of the evidence one of the following defenses: (1) The pollution existed prior to the drilling or alteration activity as determined by a predrilling or prealteration water well test. (2) The landowner or water purveyor refused to allow the operator access to the property to conduct a predrilling or prealteration water well test. (3) The water supply is not within one thousand five hundred feet of the well. (4) The pollution occurred more than six months after completion of drilling or alteration activities. (5) The pollution occurred as the result of some cause other than the drilling or alteration activity. (d) Any operator electing to preserve its defenses under subdivision (1), subsection (c) of this section shall retain the services of an independent certified laboratory to conduct the predrilling or prealteration water well test. A copy of the results of the test shall be submitted to the department and the surface owner or water purveyor in a manner prescribed by the secretary. (e) Any operator shall replace the water supply of an owner of interest in real property who obtains all or part of that owner's supply of water for domestic, agricultural, industrial or other legitimate use from an underground or surface source with a comparable water supply where the secretary determines that the water supply has been affected by contamination, diminution or interruption proximately caused by the oil or gas operation, unless waived in writing by that owner. (f) The secretary may order the operator conducting the oil or gas operation to: (1) Provide an emergency drinking water supply within twenty-four hours; (2) Provide temporary water supply within seventy-two hours; (3) Within thirty days begin activities to establish a permanent water supply or submit a proposal to the secretary outlining the measures and timetables to be used in establishing a permanent supply. The total time in providing a permanent water supply may not exceed two years. If the operator demonstrates that providing a permanent replacement water supply cannot be completed within two years, the secretary may extend the time frame on case-by-case basis; and (4) Pay all reasonable costs incurred by the real property owner in securing a water supply. (g) A person as described in subsection (b) of this section aggrieved under the provisions of subsections (b), (e) or (f) of this section may seek relief in court... (i) Notwithstanding the denial of the operator of responsibility for the damage to the real property owner's water supply or the status of any appeal on determination of liability for the damage to the real property owner's water supply, the operator may not discontinue providing the required water service until authorized to do so by the secretary or a court of competent jurisdiction.

Written Comment:

Pursuant to West Virginia Code § 22-6A-11(a), all persons described in subsection (b), section ten of this article may file written comments with the secretary as to the location or construction of the applicant's proposed well work within thirty days after the application is filed with the secretary. All persons described in West Virginia Code § 22-6A-10(b), may file the first proposed well work to the location or construction of the applicant's proposed well work to the Secretary at:

Chief. Office of Oil and Gas

UN 1 8 2018

Chief, Office of Oil and Gas
Department of Environmental Protection
601 57th St. SE
Charleston, WV 25304
(304) 926-0450

WV Department of Environmental Protection

Such persons may request, at the time of submitting written comments, notice of the permit decision and a list of persons qualified to test water. NOTE: YOU ARE NOT REQUIRED TO FILE ANY COMMENT.

Time Limits and Methods for Filing Comments.

The law requires these materials to be served on or before the date the operator files its Application. You have THIRTY (30) DAYS after the filing date to file your comments. Comments must be filed in person or received in the mail by the Chief's office by the time stated above. You may call the Chief's office to be sure of the date. Check with your postmaster to ensure adequate delivery time or to arrange special expedited handling. If you have been contacted by the well operator and you have signed a "voluntary statement of no objection" to the planned work described in these materials, then the permit may be issued at any time.

Pursuant to West Virginia Code § 22-6A-11(c)(2), Any objections of the affected coal operators and coal seam owners and lessees shall be addressed through the processes and procedures that exist under sections fifteen, seventeen and forty, article six of this chapter, as applicable and as incorporated into this article by section five of this article. The written comments filed by the parties entitled to notice under subdivisions (1), (2), (4), (5) and (6), subsection (b), section ten of this article shall be considered by the secretary in the permit issuance process, but the parties are not entitled to participate in the processes and proceedings that exist under sections fifteen, seventeen or forty, article six of this chapter, as applicable and as incorporated into this article by section five of this article.

Comment Requirements

Your comments must be in writing and include your name, address and telephone number, the well operator's name and well number and the approximate location of the proposed well site including district and county from the application. You may add other documents, such as sketches, maps or photographs to support your comments.

Disclaimer: All comments received will be placed on our web site http://www.dep.wv.gov/oil-and-gas/Horizontal-Permits/Pages/default.aspx and the applicant will automatically be forwarded an email notice that such comments have been submitted. The applicant will be expected to provide a response to comments submitted by any surface owner, water purveyor or natural gas storage operator noticed within the application.

Permit Denial or Condition

The Chief has the power to deny or condition a well work permit. Pursuant to West Virginia Code § 22-6A-8(d), the permit may not be issued or be conditioned, including conditions with respect to the location of the well and access roads prior to issuance if the director determines that:

- (1) The proposed well work will constitute a hazard to the safety of persons;
- (2) The plan for soil erosion and sediment control is not adequate or effective;
- (3) Damage would occur to publicly owned lands or resources; or
- (4) The proposed well work fails to protect fresh water sources or supplies.

A permit may also be denied under West Virginia Code § 22-6A-7(k), the secretary shall deny the issuance of a permit if the secretary determines that the applicant has committed a substantial violation of a previously issued permit for a horizontal well, including the applicable erosion and sediment control plan associated with the previously issued permit, or a substantial violation of one or more of the rules promulgated under this article, and in each instance has failed to abate or seek review of the violation within the time prescribed by the secretary pursuant to the provisions of subdivisions (1) and (2), subsection (a), section five of this article and the rules promulgated hereunder, which time may not be unreasonable.

Pursuant to West Virginia Code § 22-6A-10(g), any person entitled to submit written comments to the secretary pursuant to subsection (a), section eleven of this article, shall also be entitled to receive from the secretary a copy of the permit as issued or a copy of the order modifying or denying the permit if the person requests receipt of them as a part of the written comments submitted concerning the permit application. Such persons may request, at the time of submitting written comments, notice of the permit decision and a list of persons qualified to test water.

RECEIVED
Office of Oil and Gas
JUN 1 8 2018

WV Department of
Environmental Protection

WW-6A (8-13)

API NO. 47-051 Well Pad Name: Accettolo

Notice is hereby given by:

Well Operator: Tug Hill Operating, LLC

Telephone: 724-749-8388

Email: amiller@tug-hillop.com

luele

Address: 380 Southpointe Boulevard, Plaza II, Suite 200

Canonsburg, PA 15317

Facsimile: 724-338-2030

Oil and Gas Privacy Notice:

The Office of Oil and Gas processes your personal information, such as name, address and telephone number, as part of our regulatory duties. Your personal information may be disclosed to other State agencies or third parties in the normal course of business or as needed to comply with statutory or regulatory requirements, including Freedom of Information Act requests. Our office will appropriately secure your personal information. If you have any questions about our use or your personal information, please contact DEP's Chief Privacy Officer at depprivacyofficer@wv.gov.

COMMONWEALTH OF PENNSYLVANIA

NOTARIAL SEAL MAUREEN A STEAD Notary Public CECIL TWP, WASHINGTON COUNTY My Commission Expires Jan 28, 2019 Subscribed and sworn before me this 4 7 day of JVICE 2018.

Notary Public

My Commission Expires

Office of Oil and Gas

WV Department of Environmental Protection WW-6A

Supplement Pg. 1A

Tug Hill Operating, LLC 380 Southpointe BLVD, Suite 200 Canonsburg, PA 15317

WATER WELL REPORT

Well: EVAD 6HM
District: Franklin
County: Marshall
State: WV

There appears to be Seven (7) possible water sources within 2,000 feet of the above referenced well location.

| Topo Spot #1 TM 23 Par.21 Mark A. Yoho & Mark E. Yoho 304-455-4282(H) 3998 Burch Ridge Rd. Proctor, WV 26055 | Topo Spot #2 TM 23 Par. 22 (Abandoned House) Daniel D. Rhyand & Laurel R. Greene 216-906-1717 6145 Denison Blvd. Parma Heights, OH 44130 | Topo Spot #3 TM 23 Par.28.2 Mark W. & Carolyn L. Tennant 304-337-9844(H) 13 Proctor Ridge Rd. Proctor, WV 26055 |
|--|--|---|
| Topo Spot #4 TM 23 Par.28 Gregg D. Minor 304-455-6159(H) 5257 Burch Ridge Rd. Proctor, WV 26055 | Topo spot #5 TM 23 Par.28.1 (Trailer) Troy W. & Erin M. Thomas 304-455-2729(H) 5123 Burch Ridge Rd. Proctor, WV 26055 | Topo spot #6 TM 23 Par.28.1 (Trailer) Troy W. & Erin M. Thomas 304-455-2729(H) 5123 Burch Ridge Rd. Proctor, WV 26055 |
| Topo spot #7 TM 23 Par.1 Patricia Accettolo, et al 304-527-0428(H) 1103 Traubert Pl. Follansbee, WV 26037 | | RECEIVED |

RECEIVED
Office of Oil and Gas

JUN 1 8 2018

WV Department of Environmental Protection

PROPOSED IN TO BE SUPPLEMENT PG 1

EVAD 6HM Prolection

en (7) possible water sources WW-6A There appears to be Seven (7) possible water sources within 2,000'. 1260 CENTER OF PAD CAMPBELL NAD 1983 W/// LANE LAT:39.744478 LON:-80.793013 2,000' radius **EVAD** 6HM Fairview -PROCTOR RIDGE ROAD 494510851 **OPERATOR** TOPO SECTION LEASE NAME TUG HILL TUG HILL OPERATING, LLC NEW MARTINSVILLE 7.5' **EVAD** 380 SOUTHPOINTE BLVD OPERATING SCALE: DATE:

SUITE 200

CANONSBURG, PA 15317

1" = 1000"

DATE: 05-31-2018

STATE OF WEST VIRGINIA 47 0 5 * 0 2 0 6 C DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS NOTICE OF ENTRY FOR PLAT SURVEY

| entry | | | | | ays but no more that | n FORTY-FIVE (45) d | ays prior to |
|---|--|---|---|---|--|---|--|
| Date of Notic | :e: 5/2/2018 | Date of Plan | nned Entry: | 5/9/2018 | | | |
| Delivery met | hod pursuant | to West Virginia C | ode § 22-6A | -10a | | | |
| ☐ PERSO | NAL 🗆 | REGISTERED | ■ ME | THOD OF DE | LIVERY THAT RE | OUIRES A | |
| SERVIC | | MAIL | | | NATURE CONFIR | | |
| on to the surfi but no more to beneath such owner of min- and Sediment Secretary, wh enable the sur | ace tract to con han forty-five of tract that has fi erals underlyin Control Manu ich statement st face owner to o | duct any plat surveys days prior to such enti- iled a declaration pur- g such tract in the co- al and the statutes and shall include contact obtain copies from the | s required putry to: (1) The suant to section to section to the related trules related information, | rsuant to this a e surface owner ion thirty-six, a ords. The noticed to oil and ga | rticle. Such notice ser of such tract; (2) that icle six, chapter to be shall include a state exploration and present the same properties. | shall provide notice of shall be provided at least to any owner or lessee of wenty-two of this code; attement that copies of the roduction may be obtain age on the Secretary's w | t seven days f coal seams and (3) any e state Erosion and from the eb site, to |
| Notice is her | eby provided (| to: | | | | | Anonial Professor |
| | CE OWNER(s) | | | ■ COA | L OWNER OR LE | SSEE THE | 2 10 |
| | | (Access Road and Well Pad) |) | Name: Ap | palachian Power Company | 9 | 13 % 3 |
| Address: 1103 | | | | Address: | 1068 US-60 | | one on the |
| Folansbee, WV 26 | | | _ | Milton, WV 2 | 5541 | | A ONE |
| | McHenry (Access R | cad and Well Pad) | _ | | | | Co. |
| Address: 12 C | | | _ | ■ MIN | ERAL OWNER(s) | | ADA |
| Wheeling, WV 260 | | | _ | Name: Lo | uis J. and Patricia Accettolo | *See attached list | |
| Name: Wilbur L | | | - | Address: | 1103 Traubert Place | | |
| | 0 Micalf Avenue #11 | 313 | | Folansbee, W | | | |
| Overland Park, KS | 66223 | | - | *please attac | h additional forms if neo | cessary | |
| a plat survey o State: | est Virginia Co on the tract of l West Virginia | ode § 22-6A-10(a), n and as follows: | notice is here | Approx. Latit | ude & Longitude: | operator is planning en | |
| County: | Marshall | | | Public Road | Access: | Burch Ridge Road (County Rou | te 29) |
| District: | Franklin | | | Watershed: | Carlon and Carlo | Fish Creek (HUC 10) | |
| Quadrangle: | New Martinsville 7.5 | 5' | | Generally use | ed farm name: | Accettolo, Patricia and Lous J. | |
| may be obtain Charleston, W obtained from | ed from the Se V 25304 (304 | cretary, at the WV D -926-0450). Copies by visiting <u>www.dep</u> | Department of of such docu | Environmenta ments or addit | al Protection headquional information re | l and gas exploration an parters, located at 601 57 elated to horizontal drilli | 7th Street, SE, |
| Well Operator | | | | Address: | 200 Coutherists De Its | and Diame II Outs- 200 | , |
| Ven Operator Felephone: | 724-749-8388 | iAt rep | | Audi CSS. | 380 Southpointe Bouleva | ard, Plaza II, Suite 200 | |
| Email: | | | | Facsimile: | Canonsburg, PA 15317 | | |
| ынан. | amiller@tug-hillo | p.com | | racsimile: | 724-338-2030 | | |

Oil and Gas Privacy Notice:

The Office of Oil and Gas processes your personal information, such as name, address and telephone number, as part of our regulatory duties. Your personal information may be disclosed to other State agencies or third parties in the normal course of business or as needed to comply with statutory or regulatory requirements, including Freedom of Information Act requests. Our office will appropriately secure your personal information. If you have any questions about our use or your personal information, please contact DEP's Chief Privacy Officer at deprivacyofficer@wv.gov.

WW-6A3.....Notice of Entry for Plat Survey
EVAD 1HM, EVAD 2HM, EVAD 3HM, EVAD 4HM, EVAD 5HM, EVAD 6HM

Additional Mineral Owners

Jesse P. McHenry 12 Cedarcrest Drive Wheeling, WV 26003

Wilbur L. McHenry 13820 Mtcalf Avenue #11313 Overland Park, KS 66223

RECEIVED
Office of Oil and Gas

JUN 1 8 2018

WV Department of Environmental Protection

JUN 1 8 20,5

WV Department of Environmental Prolection

STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS NOTICE OF PLANNED OPERATION

| Delivery | nethod pursuant to West Virginia Co | de § 22-6A-16(c) | | |
|--|--|---|---|---|
| | | | | |
| CER | TIFIED MAIL | ☐ HAND | | |
| RET | URN RECEIPT REQUESTED | DELIVERY | | |
| return receithe planner required to drilling of damages to (d) The not of notice. Notice is l | ipt requested or hand delivery, give the doperation. The notice required by be provided by subsection (b), section a horizontal well; and (3) A proposed the surface affected by oil and gas optices required by this section shall be governed by provided to the SURFACE Of the surface of the surface affected by this section shall be governed by the surface of the surf | e surface owner whose land this subsection shall inclu- ten of this article to a surfact d surface use and compense erations to the extent the da given to the surface owner a | I will be used for de: (1) A copy ace owner whose sation agreement amages are comp | cation, an operator shall, by certified mail or the drilling of a horizontal well notice of of this code section; (2) The information see land will be used in conjunction with the at containing an offer of compensation for pensable under article six-b of this chapter, sted in the records of the sheriff at the time |
| | ress listed in the records of the sheriff a s.J. and Patricia Accettolo | | Jesse P. McHenry (Sa | ee attachment) |
| Name: Lou | | | and a second second second second second second second second second second second second second second second | - C 10-10-10-10-10-10-10-10-10-10-10-10-10-1 |
| Or Commence of the Commence of | | | - 12 Cedarcrest Driv | ve. |
| Address: Folansbee, V | 103 Traubert Place V 26037 Hereby given: D West Virginia Code § 22-6A-16(c), n | Address Wheeling | | well operator has developed a planned |
| Address: Folansbee, V Notice is I Pursuant t operation State: | 103 Traubert Place V 26037 ereby given: | Address Wheeling | ne undersigned of well on the tra | well operator has developed a planned act of land as follows: 517,717.72 |
| Address: Folansbee, V Notice is I Pursuant t operation | 103 Traubert Place V 26037 Hereby given: D West Virginia Code § 22-6A-16(c), non the surface owner's land for the pur West Virginia | Address Wheeling otice is hereby given that the pose of drilling a horizontal | ne undersigned of well on the transitions: Easting: Northing: | well operator has developed a planned lect of land as follows: |
| Address: Folansbee, V Notice is I Pursuant t operation State: County: | tereby given: West Virginia Code § 22-6A-16(c), non the surface owner's land for the pur West Virginia Marshall Franklin | Address Wheeling otice is hereby given that the pose of drilling a horizonta UTM NAD 8 Public Road | ne undersigned of well on the transitions: Easting: Northing: | well operator has developed a planned act of land as follows: 517,717.72 4,399,411.32 |
| Address: Folansbee, V Notice is I Pursuant t operation State: County: District: | iorraubert Place V 26037 iereby given: West Virginia Code § 22-6A-16(c), non the surface owner's land for the pur West Virginia Marshall Franklin E: New Martinsville 7.5' | Address Wheeling otice is hereby given that the pose of drilling a horizonta UTM NAD 8 Public Road | ne undersigned of well on the transition of the Easting: Northing: Access: | well operator has developed a planned act of land as follows: 517,717.72 4,399,411.32 Burch Ridge Road (County Route 29) |
| Address: Folansbee, V Notice is I Pursuant t operation State: County: District: Quadrangl Watershed This Notic Pursuant t to be provious process horizontal surface af informatio headquarte | rereby given: West Virginia Code § 22-6A-16(c), non the surface owner's land for the pur West Virginia Marshall Franklin E: New Martinsville 7.5' Fish Creek (HUC 10) Re Shall Include: West Virginia Code § 22-6A-16(c), to ided by W. Va. Code § 22-6A-10(b) well; and (3) A proposed surface use a fected by oil and gas operations to the in related to horizontal drilling may be a sected. | Address Wheeling otice is hereby given that the pose of drilling a horizonta UTM NAD 8 Public Road Generally use this notice shall include: (1) to a surface owner whose and compensation agreeme extent the damages are compensation the Secret e obtained from the Secret | ne undersigned of well on the tra Easting: Northing: Access: ed farm name: A copy of this e land will be undersigned arm persable undersy, at the WV | well operator has developed a planned act of land as follows: 517,717.72 4,399,411.32 Burch Ridge Road (County Route 29) |
| Address: Folansbee, V Notice is I Pursuant t operation State: County: District: Quadrang! Watershec This Notic Pursuant t to be prov horizontal surface af informatio headquarte gas/pages/ | rereby given: West Virginia Code § 22-6A-16(c), non the surface owner's land for the pur West Virginia Marshall Franklin E: New Martinsville 7.5' Fish Creek (HUC 10) Re Shall Include: O West Virginia Code § 22-6A-16(c), to ided by W. Va. Code § 22-6A-10(b) well; and (3) A proposed surface use a fected by oil and gas operations to the in related to horizontal drilling may be res, located at 601 57th Street, SE, idefault.aspx. | Address Wheeling otice is hereby given that the pose of drilling a horizonta UTM NAD 8 Public Road Generally use this notice shall include: (1) to a surface owner whose and compensation agreement extent the damages are contained from the Secret Charleston, WV 25304 | ne undersigned of well on the tra Easting: Northing: Access: ed farm name: A copy of this e land will be undersigned arm person and tary, at the WV (304-926-0450) | well operator has developed a planned act of land as follows: 517,717.72 4,399,411.32 Burch Ridge Road (County Route 29) Accettolo, Patricia and Louis J. code section; (2) The information required used in conjunction with the drilling of an offer of compensation for damages to the ler article six-b of this chapter. Additional Department of Environmental Protection or by visiting www.dep.wv.gov/oil-and- |
| Address: Folansbee, V Notice is I Pursuant t operation State: County: District: Quadrang! Watershed This Notic Pursuant t to be provided information headquarte | rereby given: West Virginia Code § 22-6A-16(c), non the surface owner's land for the pur West Virginia Marshall Franklin E: New Martinsville 7.5' Fish Creek (HUC 10) Re Shall Include: O West Virginia Code § 22-6A-16(c), to ided by W. Va. Code § 22-6A-10(b) well; and (3) A proposed surface use a fected by oil and gas operations to the in related to horizontal drilling may be respectively. Street, SE, idefault.aspx. | Address Wheeling otice is hereby given that the pose of drilling a horizonta UTM NAD 8 Public Road Generally use this notice shall include: (1) to a surface owner whose and compensation agreeme extent the damages are compensation the Secret e obtained from the Secret | ne undersigned of well on the tra Easting: Northing: Access: ed farm name: A copy of this e land will be undersigned arm person and tary, at the WV (304-926-0450) | well operator has developed a planned let of land as follows: 517,717.72 4,399,411.32 Burch Ridge Road (County Route 29) Accettolo, Patricia and Louis J. code section; (2) The information required used in conjunction with the drilling of an offer of compensation for damages to the ler article six-b of this chapter. Additional of Department of Environmental Protection or by visiting www.dep.wv.gov/oil-and-ulevard, Plaza II, Suite 200 |

The Office of Oil and Gas processes your personal information, such as name, address and telephone number, as part of our regulatory duties. Your personal information may be disclosed to other State agencies or third parties in the normal course of business or as needed to comply with statutory or regulatory requirements, including Freedom of Information Act requests. Our office will appropriately secure your personal information. If you have any questions about our use or your personal information, please contact Office of Oil and Gas DEP's Chief Privacy Officer at depprivacyofficer@wv.gov.

WW-6A5 Notice of Planned Operation

Additional Landowner
Wilbur L. McHenry
13820 Mtcalf Avenue #11313
Overland Park, KS 66223

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Office of Oil and Gas
JUN 1 8 2018
WV Department of
Environmental Protection



WEST VIRGINIA DEPARTMENT OF TRANSPORTATION

Division of Highways

1900 Kanawha Boulevard East • Building Five • Room 110 Charleston, West Virginia 25305-0430 • (304) 558-3505

May 7, 2018

Thomas J. Smith, P. E. Secretary of Transportation/ Commissioner of Highways

Jill M. Newman Deputy Commissioner

James A. Martin, Chief Office of Oil and Gas Department of Environmental Protection 601 57th Street, SE Charleston, WV 25304

Subject: DOH Permits for the Evad Well Pad, Marshall County

Evad 6HM

Dear Mr. Martin,

This well site will be accessed from Permit #06-2011-0593 transferred to Tug Hill Operating for access to the State Road for a well site located off of Marshall County Route 29 SLS.

The operator has signed a DISTRICT WIDE OIL AND GAS ROAD MAINTENANCE BONDING AGREEMENT and provided the required Bond. This operator is currently in compliance with the DOH OIL AND GAS POLICY dated January 3, 2012.

Very Truly Yours,

Gary K. Clayton, P.E.

Regional Maintenance Engineer Central Office O&G Coordinator

Gary K. Clayton

Cc: Jonathan White

Tug Hill Operating CH, OM, D-6

File

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JUN 1 8 2018

WV Department of Environmental Protection



4705 102060

PLANNED ADDITIVES TO BE USED IN FRACTURING OR STIMULATION

Well No. Evad 6HM

PRODUCT NAME: CHEMICAL DESCRIPTION: PRODUCT USE: HAZARDOUS COMPONENT:

GBW-20C Hemicellulase Breaker Breaker - Water None

ALPHA 1427 Biocide Glutaraldehyde – CAS#000111-30-8

Quatemary ammonium chloride

CAS# 007173-51-5

Alky dimethyl benzyl ammonium Chloride (C12-16) – CAS#068424-85-1

Ethanol – CAS# 000064-17-5 Water – CAS# 007732-18-5

FRAC SAND Silica Sand (various Mesh Proppant Crystalline silica (quartz)

sizes) CAS# 14808-60-7

S-8C, Sand Silica Sand (100 mesh) Sand Silica – CAS# 14808-60-7

GW-3LDF Gellant - Water Petroleum Distillate Blend - Proprietary,

(Not Associated with Diesel Fuel) Guar gum – CAS# 009000-30-0

FRW-18 Friction Reducer Hydrotreated light distillate

CAS# 064742-47-8

Scaletrol Scale Inhibitor Ethylene glycol – CAS# 000107-21-1

Diethylene glycol - CAS# 000111-46-6

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Environmental Protection

