

west virginia department of environmental protection

Office of Oil and Gas 601 57th Street SE Charleston, WV 25304 (304) 926-0450 (304) 926-0452 fax Earl Ray Tomblin, Governor Randy C. Huffman, Cabinet Secretary www.dep.wv.gov

February 09, 2016

WELL WORK PERMIT Horizontal 6A Well

This permit, API Well Number: 47-1706759, issued to EQT PRODUCTION COMPANY, 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 all 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 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.

In addition to the applicable requirements of this permit, and the statutes and rules governing oil and gas activity in WV, this permit may contain specific conditions which must be followed. Permit conditions are attached to this cover letter.

Per 35CSR-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) 926-0499 ext. 1654.

Operator's Well No: 513068

Farm Name: HAESSLY LAND& TIMBER, LLC

API Well Number: 47-1706759

Permit Type: Horizontal 6A Well

Date Issued: 02/09/2016

API Number: 170675

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. <u>Failure to adhere to the specified permit</u> conditions may result in enforcement action.

CONDITIONS

- 1. 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. 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.
- 8. 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.
- 9. 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, completion of any other permitted well work, and completion of the well. Such notice shall be provided by sending an email to DEPOOGNotify@wv.gov.



west virginia department of environmental protection

WVDEP Office of Oil and Gas 601 57th Street Southeast Charleston, WV 25304 (304) 926-0450 fax (304)926-0452 Earl Ray Tomblin, Governor Randy C. Huffman, Cabinet Secretary dep.wv.gov

February 8, 2016

Haessly Land & Timber, LLC Attn: Norman E. Haessly, Jr., Member 25 Sheets Run Road Marietta, OH 45750

Re: Permits for EQT Production Co. Well No.'s 513064, 513065, 513066, 513067, 513068 and

513069

API numbers: 47-017-06755, 47-017-06756, 47-017-06757, 47-017-06758, 47-017-06759 and

47-017-06760

Mr. Haessly:

The Office of Oil and Gas (OOG) has reviewed your comments concerning EQT Production Company's permits for the above referenced wells. The comment was sent to the operator for its response. The operator has responded and the response is enclosed for your records.

After considering your comments, the applicant's response, and the inspector's findings, the OOG has determined that the application meets the requirements set forth in Article 6A Chapter 22 of the West Virginia Code and Legislative Rule Title 35 Series 8. Consequently, the OOG is issuing the permits today. For your information and convenience, I am including with this letter a copy of the permits as issued.

As you may know, surface owners are entitled to compensation for damages to their property resulting from oil and gas drilling activity. Absent an agreement by the parties, such damage compensation may be addressed pursuant to Article 7, Chapter 22 of the West Virginia Code.

Please contact me at (304) 926-0499, extension 1547 if you have any questions.

Sincerely, Charle Y. Beam

Charles T. Brewer

Environmental Resource Specialist WVDEP Office of Oil and Gas 601 57th Street, SE

Charleston, WV 25304 304-926-0499 ext. 1547

EQT

CC: James Maetin

Received Office of Oil & Gas NOV 1 8 2015

November 16, 2015

Haessly Land and Timber, LLC Attn: Norman E. Haessly, Jr., Member 25 Sheets Run Road Marietta, OH 45750

Re: Objection to permit applications for wells 513064, 513065, 513066, 513067, 513068, 513069 (OXF155 Well Site, Doddridge County) API numbers 47-017-06755, 47-017-06756, 47-017-06757, 47-017-06758, 47-017-06759, 47-017-06760

Dear Mr. Haessly,

This letter is in response to the objection letter filed with the West Virginia Department of Environmental Protection, Office of Oil and Gas on behalf of Haessly Land and Timber, LLC, dated September 23, 2015 for the wells on the OXF155 site, Southwest District, Doddridge County, WV. Respectfully, EQT wishes to respond to your concerns and objections.

The letter states that "EQT has refused to respond to Haessly's requests to discuss the proposed well locations and their impact on Haessly's timber management and operations." EQT and its contractors met with representatives of Haessly Land and Timber, LLC prior to the application of the subject permits. Early on in the planning process, EQT met with Joe Smith, on October. 8, 2014, to examine the site and considered an alternate accesses road with Mr. Smith. EQT then met with Jack Mathers, Haessly's forester on June 9, 2015 to examine the well site and discuss the best way to get the timber out. EQT offered to discuss the designs with Jack Haessly by way of an email dated September 2, 2015. Subsequent to this formal objection, EQT has offered to meet with Jack Mathers by way of three emails dated October 28, 2015, November 3, 2015, and November 9, 2015, please note Jack Haessly was carbon copied on these emails. Further, the letter states that EQT has disregarded its obligation "to locate all wells so as to interfere as little as possible with the cultivated portion" of the leasehold. Prior to permitting the subject wells, the lands in question were carefully examined to select a location which would provide EQT with a large enough area to reasonably accommodate the development of its mineral resources and keep its disturbance of the surface to a minimum. No other suitable location could be located on the leasehold. Additionally, EQT went through great lengths and expense to purchase access and surface use rights from neighboring landowners to reduce the amount of surface use on the subject tract.

The letter goes on to state "The proposed well sites and road locations will result in the destruction of the valuable timber situate there before it reaches its prime value; these proposed locations will also adversely impact and degrade the timber located there and significantly interfere and disrupt Haessly's management of its timber on the entire tract for decades in the future". The removal of some timber is a necessary component of developing the mineral estate

Received Office of Oil & Gas

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and would fall under the category of a reasonable use of the surface to develop the mineral estate. Haessly Land and Timber, LLC will be compensated for the timber based on an appraisal dated October 8, 2015and for the value of future timber based on a Timber Growth and Value report dated October 19, 2015, both prepared by David Hill and Associates, LLC.

The letter also states "the proposed disturbance of approximately 35 acres is clearly excessive and unreasonable as it far exceeds what is reasonably necessary". Actual disturbance on the subject lands, as shown on the construction plans is 23.57 acres, and is "reasonably necessary" to safely and effectively develop the mineral estate.

Further, the letter states "the proposed well work violates the terms of the mineral lease upon which EQT relies for its alleged right of entry. The huge area EQT plans to use is far beyond the contemplation of the parties to the 1902 lease." The lease reserved only "40 rods around the building on which no well shall be drilled," therefore it would have been in the contemplation of the parties that any of the remaining property could be used to develop the mineral estate.

In summation, EQT's permit applications meet the technical requirement of W.Va. Code 22-6A-8(d) and the accompanying regulations. The review of the permit conducted by the West Virginia Department of Environmental Protection, Office of Oil and Gas, is limited by statute to a determination of the following: (1) whether the proposed well work will constitute a hazard to the safety of persons; (2) whether the plan for soil erosion and sediment control is not adequate or effective; (3) whether damage would occur to publicly owned lands or resources; or (4) whether the proposed well work fails to protect fresh water sources or supplies. Surface owner comments are considered by the Office of Oil and Gas during this determination with regard to those topics. The comments and objections made by way of the September 23, 2015 letter do not appear to pertain to these topics. EQT asserts it has met all requirement under the relevant statutes, W. Va. Code 22-6A-8(d) and 22-6-11, and will request that the permits be granted.

Sincerely.

David A. Grubb, CPL Regional Land Manager

HAESSLY LAND & TIMBER, LLC

25 Sheets Run Road Marietta, OH 45750 Telephone: 740-373-6681

Fax: 740-568-0840

September 23, 2015

James Martin, Chief Gene Smith, Assistant Chief - Permitting W. Va. Department of Environmental Protection Oil and Gas Division 601 57th Street, S.E. Charleston, West Virginia 25304

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RE: Surface and Coal Owner's Comments In Response to EQT's Proposed Well Work Permits 503064, 503065, 503067, 503068, 503069

Dear Sirs:

Haessly Land and Timber LLC ("Haessly") is the owner of the surface and fractional coal, oil and gas mineral interests in a tract of land in Doddridge County, West Virginia ("Haessly tract") where EQT plans to drill Marcellus wells on the 615-acre tract and has requested well work permits from the Oil and Gas Division of WVDEP. Haessly purchased the tract in 1973 and has been managing it since then for a sustainable supply of quality hardwood trees.

As a surface and mineral owner, Haessly submits this letter that serves as (1) Haessly's comments and objections to the location and acreage proposed for the new wells and access roads and (2) a request that the well permits not be issued until the planned location and acreage of the well and access roads is modified to change to a mutually agreed upon location after negotiations between Haessly and EQT.

The lease by which EQT purports to have the right to enter Haessly's land and begin work as set forth in its well work permit application requires EQT, as successor lessee, to covenant and to agree "to locate all wells so as to interfere as little as possible with the cultivated portion" of the leasehold.² In total disregard for its obligations under the lease, the proposed well site and attendant road construction is in the heart of the highest quality

¹ See copy of notice attached hereto.

² See copy of lease attached hereto.

stand of hardwood trees on the tract --- a location that creates the greatest possible damage to and interference with Haessly's silvacultural hardwood crop.

EQT has refused to respond to Haessly's requests to discuss the proposed well locations and their impact on Haessly's timber management and operations. EQT also refuses to even discuss, much less negotiate, reasonable locations of its proposed wells and roads "so as to interfere as little as possible with the cultivated [Silvacultural] portion" of Haessly's tract. The proposed well sites and road locations will result in the destruction of the valuable timber situate there before it reaches its prime value; these proposed locations will also adversely impact and degrade the timber located there and significantly interfere and disrupt Haessly's management of its timber on the entire tract for decades in the future.

Moreover, the proposed disturbance of approximately 35 acres is clearly excessive and unreasonable as it far exceeds what is reasonably necessary for EQT to extract the Marcellus gas from the tract and will cause irreparable harmful soil erosion and stream sedimentation that would be avoided by carefully designed well planning.

Finally, as noted above, the proposed well work violates the terms of the mineral lease upon which EQT relies for its alleged right of entry. The huge area EQT plans to use is far beyond the contemplation of the parties to the 1902 lease.

For these reasons, Haessly comments and objects to the location and acreage of EQT's proposed well sites and requests that the well permits be denied until the well locations are negotiated.

Sincerely yours,

Norman E. Haessly, Jr.

Norman E Haesely &

Member

cc: Victoria J. Roark, EQT Permitting Supervisor

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CERTIFIED MAIL

Haessly Land & Timber LLC 25 Sheets Run Rd. Marietta OH 45750

Dear

Sir or Madam

513064, 513065, 513066, 513067,

513068,513069

Gas Well

Re: Proposed Southwest District.

Doddridge

 $\overline{\mathsf{w}}\mathsf{v}$ County,

Pursuant to Section 22B-1-9 of the West Virginia Code, enclosed please find copies of the following documents:

Notice of Application for a Well Work Permit (1 copy) ○ Form WW-6A

O Form WW-6A(1) Lessor/Lessee Disclosure (1 copy)

Application for a Well Work Permit (1 copy)

O Form WW-6B Well Location Plat Certified Copy of WVDEP Well Location Plat

Reclamation Plan and Site Registration Application (1 copy) O Form WW-9

Water Management Plan 0

0 Well Site Safety Plan

This application is being filed by EQT Production with the Administrator of the Office of Oil and Gas of the West Virginia Department of Environmental Protection. If you have no objections to this well being drilled, please sign the Waiver on Form WW-6AW and return one copy to our office.

Thank you for your cooperation and consideration. Should you have any questions, comments, or require any additional information, please feel free to contact me at (304) 848-0082.

Sincerely, **EQT PRODUCTION COMPANY**

Victoria J. Roark Permitting Supervisor-WV

Enclosures

| | Lee Leave Book 183, Pg. 207 Su Gene Bk 154 1975 See Leave Bk, 185, Gg. 1912 Lee Leave Buck 102, Pope 574 Lee Leave Bk 129, pg. 114 21 Lee Leave Bk 129, pg. 114 21 Lee Leave Bk 129, pg. 114 21 |
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| | all machinery and fatures placed on such premines, and the first party of the second part, his being, successors or assigns, to the party of the second part, his being, successors or assigns, the being successors or assigns shall have the right to sucrender this lease for confectation, after which all payments and liabilities thereafter to accure under and by virtue of its temperature of satings shall have the right to sucrender this lease for confectation, after which all payments and liabilities thereafter to accure under and by virtue of its temperature of satings and shall cleave and determine, and this lease forceme alsolutely post and void. IN WITNESS WHEREOV, the parties to this agreement have hereunto ast their hands and seals the day and year above written. [81] Witness: [82] [83] |
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| | all machinery and fixtures placed on such plannies, or assigns, to the partners of the according and his being successors or assigns, to the partners of the according to the being successor of anyon which have the right to surrender this lease for candidation, after which all payments and liabilities thereafter to according to the successor of anyon and the leave become absolutely not and void. IN WITNESS WHEREOF, the parties to this agreement have hereants as their hands and scale the day and year above written. STATE OF WEST VIRGINIA, County of Conditional Total County of Conditional County of County and State, do certify that County of the writing seven, bearing date the County of County and State, do certify light STATE OF WEST VIRGINIA, Fourth: County of County and State, do certify light STATE OF WEST VIRGINIA, County and State, do certify light Light County and State, do certify light County and State, do certify light Light County and State, do certify light Light County and State, do certify light Light County and State, do certify light Light County and State, do certify light Light County and State, do certify light Light County and State, do certify light Light County and State, do certify light Light County and State, do certify light Light County and State, do certify light Light County and State, do certify light Light County and State, do certify light |
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| | all mechinery and distoures placed on such plannies, successor of analyses, to the parts—of the distoures and thollies thereafter to accure under and by virtue of its terrocessors or analyses shall have the right to sucreader this lease for confoliulism, after which all payments and liabilists thereafter to accure under and by virtue of its terrocessors or analyses shall have the right to sucreader this lease for confoliulism, after which all payments and liabilists thereafter to accure under and by virtue of its terrocessors or analyses shall have the right to sucreader this lease for confoliulism, after which all payments and liabilists thereafter to accure under and by virtue of its terrocessors or analyses shall have be right to surrocessors. In WITNESS WHEREOV, the parties to this agreement have become at their hands and seals the day and year above written. STATE OF WEST VIRGINIA, County of Lindau County of the county |

WW - 6B (4/15) APINO. 447 017 7 0 6 7 5

OPERATOR WELL NO.

513068

Well Pad Name:

OXF155

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

| 1) Well Operator: EQT Producti | on Company | | 306686 | 017 | 7 | 526 |
|---|------------------|---------------|-------------------|--------------------|--------------------|---------------------|
| | | | Operator ID | County | District | Quadrangle |
| 2) Operator's Well Number: | | 513068 | | _Well Pad Na | me | OXF155 |
| 3) Farm Name/Surface Owner : _ | Land & Tin | nber LLC | _Public Road | Access: | RT 21 | |
| 4) Elevation, current ground: | 1,212.5 | Eleva | ation, proposed p | ost-constructio | n:1,19 | 9.0 |
| 5) Well Type: (a) Gas | Oil | U | nderground Stor | age | | |
| Other | | | | | | |
| (b) If Gas: | Shallow | | Deep | | | 24 . 1 |
| | Horizontal | | | | | Michael 9 - 30 - |
| 6) Existing Pad? Yes or No: | no | | | | | 9 - 30 - |
| 7) D | Danth (a) Antini | antan Think | | - sisted Deserving | ·- (a). | |
| Proposed Target Formation(s), Target formation is Marcellus at a | a depth of 6635 | | | | | ressure of 2951 PSI |
| ranger to matterns Marcellas at a | a deptir or | | Marcellus is 66 | | noipated target pr | 2301 1 01 |
| B) Proposed Total Vertical Depth: | | | | 6635 | | |
| 9) Formation at Total Vertical Dep | th: | | | Marcellus | | |
| 10) Proposed Total Measured Dep | th: | | | 10,417 | | |
| 11) Proposed Horizontal Leg Leng | th | | | 3,103 | | |
| 12) Approximate Fresh Water Stra | ata Depths: | | | 59, 183, 204, | 262, 419 | |
| 13) Method to Determine Fresh W | ater Depth: | | | By offset | wells | |
| 14) Approximate Saltwater Depths | | | | 1,397 | | |
| 15) Approximate Coal Seam Deptl | | | 1 | 32, 252, 292, 5 | 32 | |
| 16) Approximate Depth to Possible | e Void (coal min | e, karst, otl | ner): | | None r | eported |
| 17)Does proposed well location co | ntain coal seam | s directly o | verlying or | | | |
| adjacent to an active mine? | | | Y | es | No x | |
| (a) If Yes, provide Mine Info: | Name: | | | | | |
| | | | | | | |
| | Seam: | | | | | |
| | | | | | | |

Page 1 of 3

4701706759

Office of Oil R Gas

OCT 0 1 2015

| WW · | - 6B |
|--------|------|
| (4/15) |) |

| API NO. | <u>47</u> | | 017 | - | |
|----------|-----------|------|-----|---|--------|
| DPERATO | R WEI | L NO | | | 513068 |
| Nell Pac | l Nar | ne: | | | OXF155 |

CASING AND TUBING PROGRAM

18)

| TYPE | Size | <u>New</u> | Grade | Weight per ft. | FOOTAGE: For | INTERVALS: | CEMENT: |
|--------------|-------------|------------|-------|----------------|---------------|--------------|---|
| | <u>(in)</u> | <u>or</u> | | <u>(lb/ft)</u> | Drilling (ft) | Left in Well | Fill- up (Cu.Ft.) |
| | <u> </u> | Used | | | | <u>(ft)</u> | |
| Conductor | 20 | New | MC-50 | 81 | 40 | 40 | 38 C.T.S. |
| Fresh Water | 13 3/8 | New | J-55 | 54.5 | 569 | 569 | 509 C.T.S. |
| Coal | _ | _ | _ | - | _ | - | _ |
| Intermediate | 9 5/8 | New | A-500 | 40 | 3,466 | 3,466 | 1,370 C.T.S. |
| Production | 5 1/2 | New | P-110 | 20 | 10,417 | 10,417 | See Note 1 |
| Tubing | 2 3/8 | | J-55 | 4.6 | | | May not be run, if run will be set 100' less than TD |
| Liners | | | | | | | |

MAG 9-30-15

| TYPE | Size (in) | Wellbore Diameter (in) | Wall Thickness | Burst Pressure (psi) | Anticipated Max. Internal | Cement Type | Cement Yield (cu. ft./k) |
|--------------|-----------|---------------------------|-------------------|-------------------------|---------------------------|----------------|-----------------------------|
| | | | <u>(in)</u> | | Pressure (psi) | | |
| Conductor | 20 | 24 | 0.375 | - | 18 | Construction | 1.18 |
| Fresh Water | 13 3/8 | 17 1/2 | 0.38 | 2,730 | 2,184 | * See Note 2 | 1.21 |
| Coal | | | | | | | |
| Intermediate | 9 5/8 | 12 3/8 | 0.395 | 3,950 | 3,160 | * See Note 2 | 1.21 |
| Production | 5 1/2 | 8 1/2 | 0.361 | 12,640 | 10,112 | - | 1.27/1.86 |
| Tubing | | | | | | | |
| Liners | | | | | | | |

<u>Packers</u>

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

Note 1: EQT plans to bring the TOC on the production casing cement job 1,000' above kick off point, which is at least 500' above the shallowest production zone, to avoid communication.

Note 2: Reference Variance 2014-17. (Attached)

Page 2 of 3

6 - 70 - 759

Received
Office of Oil & Gas
OCT 0 1 2015

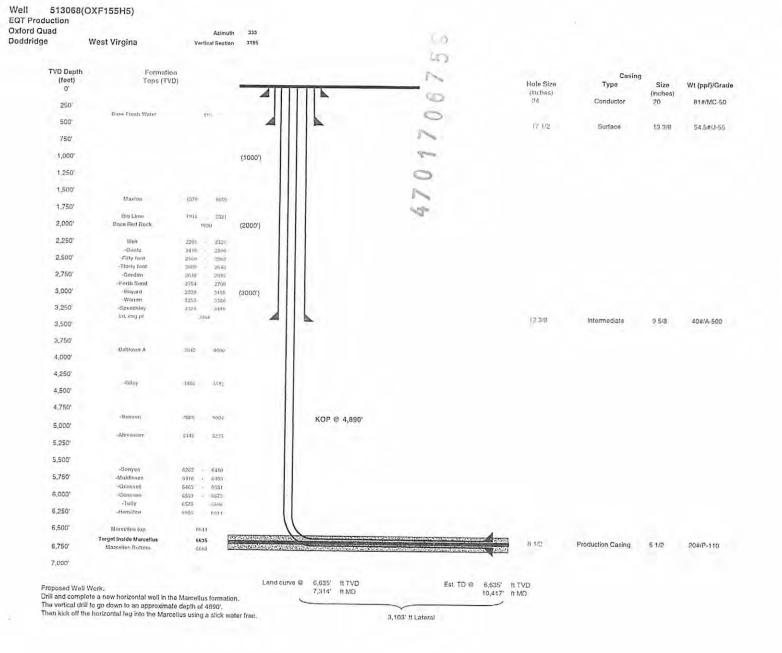
| | APINO. <u>47</u> - <u>017</u> | <u></u> |
|--|----------------------------------|---------------------|
| (10/14) | OPERATOR WELL NO. | 513068 |
| | Well Pad Name: | OXF155 |
| 19) Describe proposed well work, including the drilling and plugging back of any pilot hol | e: | MAG 9.30-1 |
| Drill and complete a new horizontal well in the Marcellus formation. The vertical drill to go down to an app | proximate depth of 4890'. | 9-30-1 |
| Then kick off the horizontal leg into the Marcellus using a slick water frac. | | |
| | | |
| 20) Describe fracturing/stimulating methods in detail, including anticipated max pressure | | |
| Hydraulic fracturing is completed in accordance with state regulations using water recycled from previously fractive freshwater sources. This water is mixed with sand and a small percentage (less than 0.3%) of chemicals (included) | ctured wells and obtained from | |
| gelling agent, gel breaker, friction reducer, biocide, and scale inhibitor), referred to in the industry as a "slickwa | ter" completion. Maximum | |
| anticipated internal casing pressure is expected to average approximately 8500 psi, maximum anticipated treat | | ge |
| approximately 100 bpm. Stage lengths vary from 150 to 300 feet. Average approximately 200,000 barrels of vary from 100 mesh to 20/40 mesh. Average approximately 200,000 pounds of sand per stage. | water per stage. Sand sizes | |
| | | |
| 21) Total area to be disturbed, including roads, stockpile area, pits, etc, (acres): | 42.04 | |
| 21) Total area to be disturbed, including Toads, stockpile area, pits, etc., (acres). | 42.01 | |
| 22) Area to be disturbed for well pad only, less access road (acres): | 21.63 | |
| 23) Describe centralizer placement for each casing string. Surface: Bow spring centralizers – One at the shoe and one spaced every 500'. | | |
| · Intermediate: Bow spring centralizers- One cent at the shoe and one spaced every 500 | 0' | |
| Production: One spaced every 1000' from KOP to Int csg shoe | | |
| 24) Describe all cement additives associated with each cement type. Surface (Type | • 1 Cement): 0-3% Calcium Ch | loride |
| Used to speed the setting of cement slurries. | | |
| 0.4% flake. Loss Circulation Material (LCM) is used to combat the loss of the cement slurry to a the Intermediate (Type 1 Cement): 0-3% Calcium Chloride. Salt is used in shallow, low temperature format | | ment |
| sturries. 0.4% flake. Loss Circulation Material (LCM) is used to combat the loss of whole drilling flu | uid or cement slurry (not filtra | ate) |
| to a thief zone. | | |
| <u>Production:</u> | | |
| Lead (Type 1 Cement): 0.2-0.7% Lignosulfonate (Retarder). Lengthens thickening time. | | |
| 0.3% CFR (dispersant). Makes cement easier to mix. | | |
| Tail (Type H Cement): 0.25-0.40% Lignosulfonate (Retarder). Lengthens thickening time. | | ··· |
| 0.2-0.3% CFR (dispersant). This is to make the cement easier to mix. | | - |
| 60 % Calcuim Carbonate. Acid solubility. | | |
| 0.4-0.6% Halad (fluid loss). Reduces amount of water lost to formation. | 704- | |
| service related (male 1999). Recorded amount of materials to formation. | 7017067 | F 0 |
| 25) Proposed borehole conditioning procedures. <u>Surface:</u> Circulate hole clean (Approximately | 30-45 minutes) rotating & reci | iprocating |
| one full joint until cuttings diminish at surface. When cuttings returning to surface diminish, continu | | |
| minutes. To ensure that there is no fill, short trip two stands with no circulation. If there is fill, bring | | |
| and circulate hole clean. A constant rate of higher than expected cuttings volume likely indicates | | un. |
| | | up. |
| Intermediate: Circulate hole clean (Approximately 30-45 minutes) rotating & reciprocating one full joint u | | |
| surface. When cuttings returning to surface diminish, continue to circulate an additional 5 minutes | s. It foam drilling, to enhance | <u> </u> |
| hole cleaning use a soap sweep or increase injection rate & foam concentration. | | |
| Production: Pump marker sweep with nut plug to determine actual hole washout. Calculate a gauge hole | es bottoms up volume. | Received |
| Perform a cleanup cycle by pumping 3-5 bottoms up or until the shakers are clean. Check volume | e of cuttings coming across | Office of Oil & Ga |
| the shakers every 15 minutes. | | OCT 0.1 2015 |
| | | |

WW - 6B

*Note: Attach additional sheets as needed.

| | EQT | Production | | | | |
|---------------------|---|--------------|-------|---------------------|--|--------------------|
| Well Name County | 513068(OXF155H5) Doddridge | | | | Elevation KB: | 1212 |
| State | West Virgina | | | | Targot Prospect | Marcellus |
| | | | | | Azimuth Vertical Section | 333 |
| | | | | | | 3185 |
| 0' - | _ | 4 111 | 1112 | — 0. | Hole Size 24" - 20" Conductor at 40" | |
| | | -111 | | | Bit Size 17.5* | |
| | | - 111 | - 111 | | | |
| 500' - | 419' Fresh Water Base | 111 | - 111 | | TOC @ Surface | |
| | | 4 | 110 | 500' | | ft MD |
| | | - 11 | - [] | | Bil Size 12.375* | |
| | | 11 | | | | |
| 1,000' — | - | ł I | · [] | - 1,000' | | |
| | | 11 | - 11 | | | |
| | | - 11 | - 11 | | | |
| 1,500' — | <u> </u> | 11 | Ш | 4 500 | | |
| | 1,570' Maxton | - 11 | 11 | — 1,500' | | |
| | | - 11 | 11 | | | |
| | 1,915' Big Lime 1,930' Base Red Rock | | - [] | | | |
| 2,000' — | 1,550 Dase Neu Nuck | - 11 | - 11 | - 2,000' | | |
| | 2,205' Weir | - 11 | - 11 | | / 7 0 4 7 | |
| | 2,416' -Ganlz | | - 11 | | 47017 | 06/59 |
| 2,500' — | 2,500' -Fifty foot | 11 | - 11 | 0 5001 | | * * * |
| | 2,608' -Thirty foot 2,648' -Gordon | 11 | - 11 | 2,500 | | |
| | 2,754' -Forth Sand | } { | - 11 | | | |
| | 2,930' -Bayard | 11 | - 11 | | | |
| 3,000' — | _lood Bayard | - 11 | - 11 | — 3,000' | • | |
| | 3,253' -Warren 3,324' -Speechley | - 11 | - [] | | | |
| | | - 11 | | | | |
| 3,500' — | 3,466' Int. csg pt | 4 | | _ 2 5001 | TOC Surface | |
| | | | 1 | - 3,500' | 9 5/8", MC-50, 40# © 3,466" f | I MD |
| | | | ł | | Bit Size 8.5° | |
| | 3,842' -Balltown A | | 1 | | | |
| 4,000' | O,O42 -Dailtown A | Į. | | — 4,000° | | |
| | | ŀ | | | | |
| | | | | | | |
| 4,500' | 4,456' -Riley | ı | | - 4 6001 | | |
| | | ł | | - 4.500' | | |
| | | | 1 | | | |
| 5 0001 | 4,889' -Benson | | 1 | | KOP = 4,890° n | MD |
| 5,000' | 5,146' -Alexander | | l l | - 5,000' | 10 Dog DLS | |
| | | | | | | |
| | | | | | | |
| 5,500' | | | ļ | - 5,500 | | |
| | | J | i | | | |
| | | | | | | |
| | 6,282' -Sonyea | | | | | |
| • | 6,410' -Middlesex 6,463' -Genesee | l | 1 | — 6,000' | | |
| | 6,463' -Genesee 6,531' -Geneseo | ł | | | | |
| | 6,573' •Tully | | | | Land @ 7,314' ft | MD |
| | 6,596' -Hamilton 6,611' -Marcellus | , | l l | - 6,500' | 6,635' ft | |
| | 6,668' Onondaga | 4 | 17 | | 5 1/2", P-110, 20# 10,417' ft | un. |
| | | | | | 5 1/2", P-110, 20# 10,417' ft 6,635' ft | |
| 7,000' — | | | | | | |
| ., | | | | 7,000° | | |
| | | | | | | |
| | | | | | | |
| 7,500' — | | | | 7,500° | | |
| | | | | | a | anning |
| | | | | | · · · · · · · · · · · · · · · · · · · | Received |
| 8,000' — | | | | — 8,000° | Office | e of Oil & Gas |
| | | | | ٥,٠٠٠ | | |
| | | | | | Λ | CT 0 1 2015 |
| | | | | | 0 | - |

MAG 02/12/20185





April 2, 2015

Mr. Gene Smith West Virginia Department of Environmental Protection Office of Oil and Gas 601 57th Street SE Charleston, WV 25304

Re: Casing change on OXF155 (513064, 513065, 513066, 513067, 513068, 513069)

Dear Mr. Smith,

EQT is requesting the 13-3/8" surface casing be set at 569' KB, 150' below the deepest fresh water. We will set the 9-5/8" intermediate string at 3466' KB, 50' below the base of the Speechley formation.

If you have any questions, please do not hesitate to contact me at (304) 848-0076

Sincerely,

Vicki Roark

Permitting Supervisor - WV

4701706759

Enc.

Received Office of Oil & Gas SEP 0 8 2015



west virginia department of environmental protection

Office of Oil and Gas 601 57th Street, SE Charleston, WV 25304 (304) 926-0450 (304) 926-0452 fax Earl Ray Tomblin, Governor Randy C. Huffman, Cabinet Secretary dep.wv.gov

March 18, 2014

Nabors Completion & Production Services Company 1380 Route 286 Hwy E #121 Indiana PA 15701

Re: Cement Variance Request

Dear Sir or Madam,

4701706755

This agency is approving a variance request for the cement blend listed below to be used on surface and coal protection strings for the drilling of oil and gas wells in the state of West Virginia. The variance cannot be used without requesting its use on a permit application and approval by this agency:

Type 1 (2% Calcium Chloride-Accelerator, 0.25% Super Flake-Lost Circulation, 5.2% Water, 94% Type "1" Cement)

If you have any questions regarding this matter feel free to contact me at 304-926-0499, ext. 1653.

James Peterson

Environmental Resources Specialist / Permitting

Promoting a healthy environment.

Received
Office of O! & Gas

SEP 08 2015



west virginia department of environmental protection

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

Earl Ray Tomblin, Governor Randy C. Huffman, Cabinet Secretary dcp.wv.gov

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

| IN THE MATTER OF A VARIANCE FROM |) | ORDER NO. | 2014 - 17 |
|--------------------------------------|---|-----------|-----------|
| REGULATION 35 CSR § 4-11.4/11.5/14.1 |) | | |
| AND 35 CSR § 8-9.2.h. 4/5/6/8 OF THE |) | | |
| THE OPERATIONAL |) | | |
| REGULATIONS OF CEMENTING OIL |) | | |
| AND GAS WELLS |) | | |

REPORT OF THE OFFICE

Nabors Completion & Production Services Co. requests approval of a different cement blend for use in cementing surface and coal protection casing of oil and gas wells.

FINDINGS OF FACT

- 1.) Nabors Completion & Production Services Co. proposes the following cement blend:
 - 2% Calcium Chloride (Accelerator)
 - 0.25 % Super Flake (Lost Circulation)
 - 94% Type "1" Cement
 - 5.20 % Water
- 5.20 % Water
 2.) Laboratory testing results indicate that the blend listed in Fact No.1 will achieve a 500 psi compressive strength within 6 hours and a 2,435 psi compressive strength within 27 0 6 7 5 9

Promoting a healthy environment.

Received Office of Oil & Gas SEP 08 2015

CONCLUSIONS OF LAW

Pursuant to Articles 6 and 6A, Chapter 22 of the Code of West Virginia, the Office of Oil and Gas has jurisdiction over the subject matter embraced in said notice, and the persons interested therein, and jurisdiction to promulgate the hereinafter prescribed Order.

Pursuant to 35 CSR § 4-11.5 and 35 CSR § 8-9.2.h.8 the Chief of the Office of Oil and Gas may approve different cement blends upon the well operator providing satisfactory proof that different cement types are adequate.

ORDER

It is ordered that Nabors Completion & Production Services Co. mag.

blend listed in Findings of Fact No.1 for the cementing of surface and coal protection easing or
oil and gas wells in the State as may be requested by oil and gas operators. The waiting time on
the cement blend shall be 8 hours. The cement blend shall be mixed in strict accordance with the
specifications for each blend and weight measurements made on-site to assure the cement

weight specifications. A sample shall be collected and, if after 8

""It required. Nabors Completion & approved under this order is to be used and made available to the Office of Oil and Gas upon request.

Dated this, the 18th day of March, 2014.

IN THE NAME OF THE STATE OF WEST VIRGINIA

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

James Martin, Chief Office of Oil and Gas

> Received Office of Oil & Gas

> > SEP **08** 2015

EQT Production Water plan Offsite disposals for Marcellus wells

CWS TRUCKING INC.

P.O. Box 391 Williamstown, WV 26187 740-516-3586 Noble County/Noble Township Permit # 3390

LAD LIQUID ASSETS DISPOSAL INC.

226 Rankin Road Washington, PA 15301 724-350-2760 724-222-6080 724-229-7034 fax Ohio County/Wheeling Permit # USEPA WV 0014

TRIAD ENERGY

37 West Broad Street

Columbus, Ohio 43215

Suite 1100

740-516-5381

Permit # 8462

P.O. Box 430 Reno. OH 45773 740-516-6021 Well
740-374-2940 Reno Office Jennifer
Nobal Gunty/Jackson Township

BROAD STREET ENERGY LLC

Washington County/Belpre Twp.

TRI COUNTY WASTE WATER MANAGEMENT, INC.

1487 Toms Run Road Holbrook, PA 15341 724-627-7178 Plant 724-499-5647 Office Greene County/Waynesburg Permit # TC-1009

Waste Management - Meadowfill Landfill

Rt. 2, Box 68 Dawson Drive Bridgeport, WV 26330 304-326-6027 Permit #SWF-1032-98 Approval #100785WV

Waste Management - Northwestern Landfill

512 E. Dry Road Parkersburg, WV 26104 304-428-0602 Permit #SWF-1025 WV-0109400 Approval #100833WV

KING EXCAVATING CO.

Advanced Waste Services 101 River Park Drive New Castle, Pa. 16101 Facility Permit# PAR000029132

> Received Office of OHR Gas SEP 08 2015

| WW-9 | |
|--------|--|
| (2/15) | |

| | Page | 1 | of | 2 |
|--------------|---------|----|----|--------|
| API No. 47 | 01 | 7_ | | 0 |
| Operator's \ | Well No |). | | 513068 |

STATE OF WEST VIRGINIA

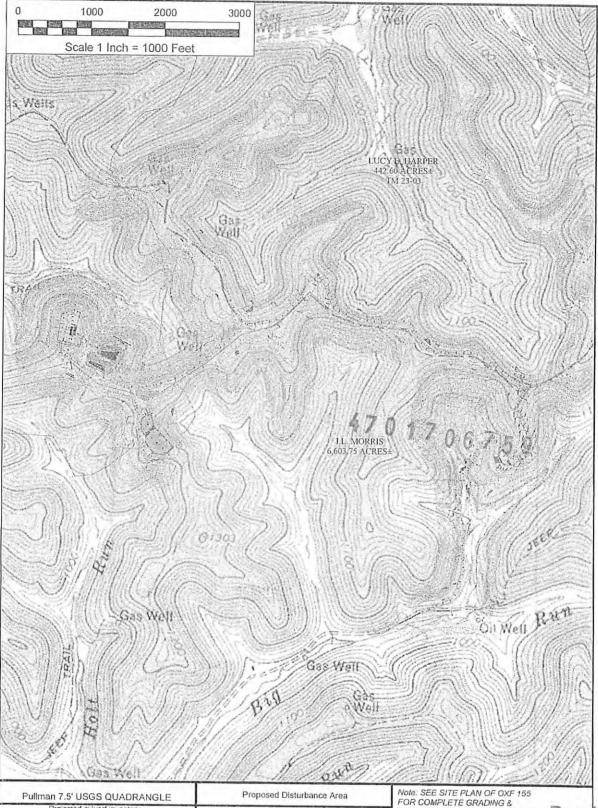
DEPARTMENT OF ENVIRONMENTAL PROTECTION OFFICE OF OIL AND GAS

Fluids/Cuttings Disposal & Reclamation Plan

| Operator Name | EQT Production Company | OP Code | 306686 | |
|---|--|---|--|--|
| Watershed (HUC10) | Sheep Run Of South Fork Hughes River | Quadrangle | Oxford | |
| Do you anticipate using | more than 5,000 bbls of water to com | | k? Yes_x_No_ | |
| Will a pit be used ? Yes | s: <u>X</u> No: | | | _ |
| If so please des | cribe anticipated pit waste: | flowback water & res | idual solids | |
| Will a synthetic | liner be used in the pit? Yes X | No If so, | | |
| Proposed Disp | posal Method For Treated Pit Wastes: | · | | |
| * | Land Application | | | |
| | Underground Injection (UIC Reuse (at API Number | Permit Number 001 Various | 4, 8462, 4037 |) MDC |
| | Off Site Disposal (Supply for | m WW-9 for disposal locati | ion) | η Δ Co g-30-15 |
| | Other (Explain | | | 1 4 - 5 - |
| Will closed loop system fluid. The drill cuttings are | yes, The closed loop system then prepared for transportation to an off- | em will remove drill cuttings fro | m the drilling | _ |
| | | | | - |
| | ated for this well (vertical and horizonta of the wellbore (surface, intermediate, and pilot). Water based | | | |
| | pilot hole, curve, and lateral sections will be drilled with either | | conditions to stabilize | - |
| | | | | _ |
| | | | | - |
| - If oil based, Additives to be used in | what type? Synthetic, petroleum, etc | Synthetic | | _ |
| | a control, deflocculates, biodegradable oil lubrica | lubricant, detergent, defoaming, water. W | aler based mud - Barite, viscositer, | _ |
| Oil based mud – synthetic ba | se oil, emulsifier, salt, lime, viscosifer, atkalinity | control, filtration control, defloccula | | - |
| biodegradable oil lubricant, de | | | 470 | - |
| Daill austine a diaman di | | | 709 | 7 ₀₆₇₅₉ |
| | method? Leave in pit, landfill, removed | | Landfill | $ ^{0}$ 0 7 5 0 |
| | d plan to solidify what medium will be used? (Ce site name/permit number? | ment, Line, sawdust) See Attached Li | n/a | _ |
| | | Oce Allached Li | 51 | - |
| Permittee shall provide wri any West Virginia solid was disclose where it was propo | tten notice to the Office of Oil and Gas of a ste facility. The notice shall be provided wi erly disposed. | ny load of drill cuttings or asso thin 24 hours of rejection and t | ciated waste rejected at the permittee shall also | _ |
| I certify that I understar | nd and agree to the terms and conditions of the | GENERAL WATER POLLUTION | PERMIT issued | = |
| on August 1, 2005, by the Offi | ice of Oil and Gas of the West Virginia Departme | ent of Environmental Protection. I | understand that the | |
| or regulation can lead to enfor | nforceable by law. Violations of any term or conc reement action. | lition of the general permit and/or | other applicable law | |
| I certify under penalty o | of law that I have personally examined and am fa | amiliar with the information submit | tad an thin | |
| application form and all attach | ments thereto and that, based on my inquiry of | those individuals immediately resp | onsible for obtaining | |
| the information, I believe that t | the information is true, accurate, and complete. | Lam aware that there are significa | nt penalties for | _ |
| southday laise mormation, in | ncluding the possibility of fine or imprisonment. | -111 | | Received |
| Company Official Signat | | | | Office of Oil & Gas |
| Company Official (Typed Company Official Title | | Vieteria J. Roark mitting Supervisor | | OCT 0 1 2015 |
| | 1 61 | initing Supervisor | | _ 001 01 2013 |
| Subscribed and sworn b | efore me this day of | Sest | , 20 /5 | = |
| Y | I have | 7 | Alexand Billiottissass | |
| | 0 | | Notary Public | STATE OF WEST VIRGINIA NOTARY PUBLIC Pamela Sykes EQT Production 6 Bridgenort Wy 26320 |
| My commission expires | 8.5 | 14-22 | | NOTARY PUBLIC Pamela Sykes |
| | | | | OZOBAN 280 16 |
| | | | No. of the last | Bridgeport, WV 26330 My Commission Expires Aug. 24, 2022 |
| | | | | Z. 1911 111 111 111 111 111 11 11 11 11 11 |

| Form WW-9 | | Operato | r's Well No. | 513068 |
|---|-----------------------|----------------------------|---------------|----------------|
| Proposed Revegetation Treatr | ment: Acres Disturbed | 42.01 | Prevegetation | pH6 |
| Lime3 | Tons/acre or to | correct to pH | 6.5 | |
| Fertilize type | Granular 10-20-20 | 1 | | |
| Fertilizer Amount | 1/3 lbs/a | cre (500 lbs minimum) | | |
| Mulch | 2 | Tons/acre | | |
| | | Seed Mixtures | | |
| Tempora | ry | | Permanent | |
| Seed Type KY-31 | lbs/acre 40 | Seed Type Orchard Grass | | lbs/acre 15 |
| Alsike Clover | 5 | Alsike Clover | | 5 |
| Annual Rye | 15 | | | |
| Drawing(s) of road, location,pit Photocopied section of involve | | | | |
| Plan Approved by: | ichael I | Soll | | |
| Comments: Preseed | da Mulci | hany | disturb | sed area |
| per WVDEA | o regula | tions M. | aintain | a upara |
| 2-71-3 (4.5 | necessa | 7. | | |
| | | | | |
| | | | | |
| Title: 3:1 4 Ga | s Inspecto | ^ | 30 7,051 | 7 - |
| Title. | c Insperti | Date: / | 50 - 105 | 7 0 |

Received Office of Oil & Gas 0CT 0 1 2015



Pullman 7.5' USGS QUADRANGLE

Projected culvert inventory. (for bid purposes only)

See Site Plan

15" minimum diameter culverts

See Site Plan

24" minimum diameter culverts

See Site Plan

Approximate Total Disturbance

Approximate Total Disturbance

See Site Plan

DRAWN BY: Dale Tomlin PS

August 13, 2015

Proposed Disturbance Area

See Site Plan

See Site Plan

Approximate Total Disturbance

See Site Plan

DRAWN BY: Dale Tomlin PS

August 13, 2015

Proposed Disturbance Area

SURVEYING AND MAPPING SERVICES PERFORMED BY:

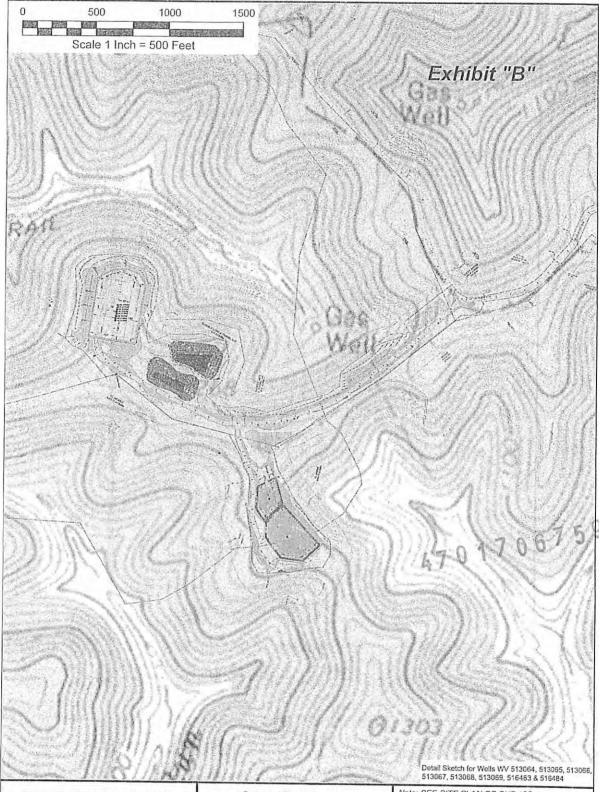
ALLEGHENY SURVEYS, INC.

Birch River Office Phone: (304) 649-8606 Fax: (304) 649-8608 237 Birch River Road P.O. Box 438 Birch River, WV 26610 FOR COMPLETE GRADING &
DRAINAGE CONSTRUCTION
INCLUDING EROSION & SEDIMENT
CONTROL DETAILS, ETC.
Office of Q11 & Gas

OCT 0 1 2015

9-30-15

02/12/2016



| Pullman 7.5' USGS QUA | DRANGLE | Proposed Disturbance Area | | | |
|--|---------------|---------------------------|-------------------------------|---------|---------------|
| Projected culvert inve (for bid purposes or | W | ell Site Location | See Site Plan | | |
| 15" minimum diameter culverts | See Site Plan | Pr | Proposed Access Road | | See Site Plan |
| 24" minimum diameter culverts | See Site Plan | Ар | Approximate Total Disturbance | | See Site Plan |
| Dale Tomlin PS | DATE: | | FILE NO. 239-13 | DRAWING | FILE NO. |

SURVEYING AND MAPPING SERVICES PERFORMED BY:

ALLEGHENY SURVEYS, INC. 1-800-482-8606

Birch River Office Phone: (304) 649-8606 Fax: (304) 649-8608

237 Birch River Road P.O. Box 438 Birch River, WV 26610 Note: SEE SITE PLAN OF OXF 100
FOR COMPLETE GRADING &
DRAINAGE CONSTRUCTION
INCLUDING EROSION & SEDIMENT
CONTROL DETAILS, ETC.

Office of CH & GMS

OCT 0 1 2015

MAG 8-30-6

02/12/2016



Site Specific Safety Plan

EQT OXF155 Pad

Oxford

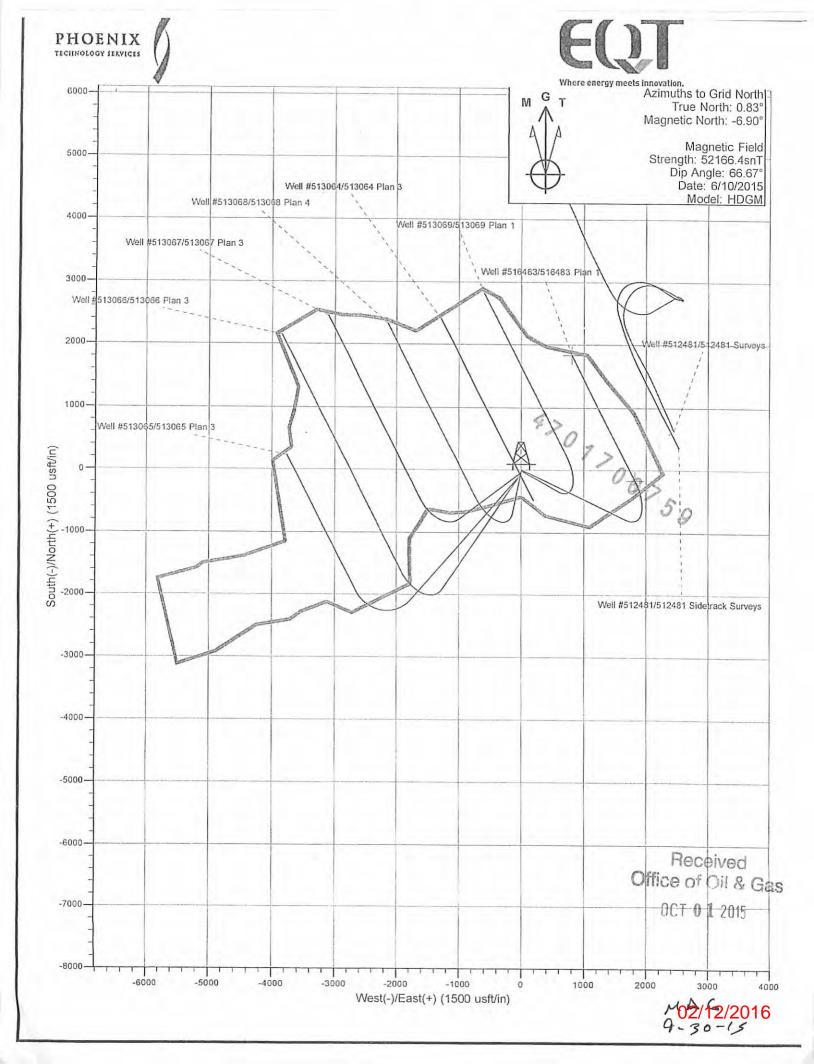
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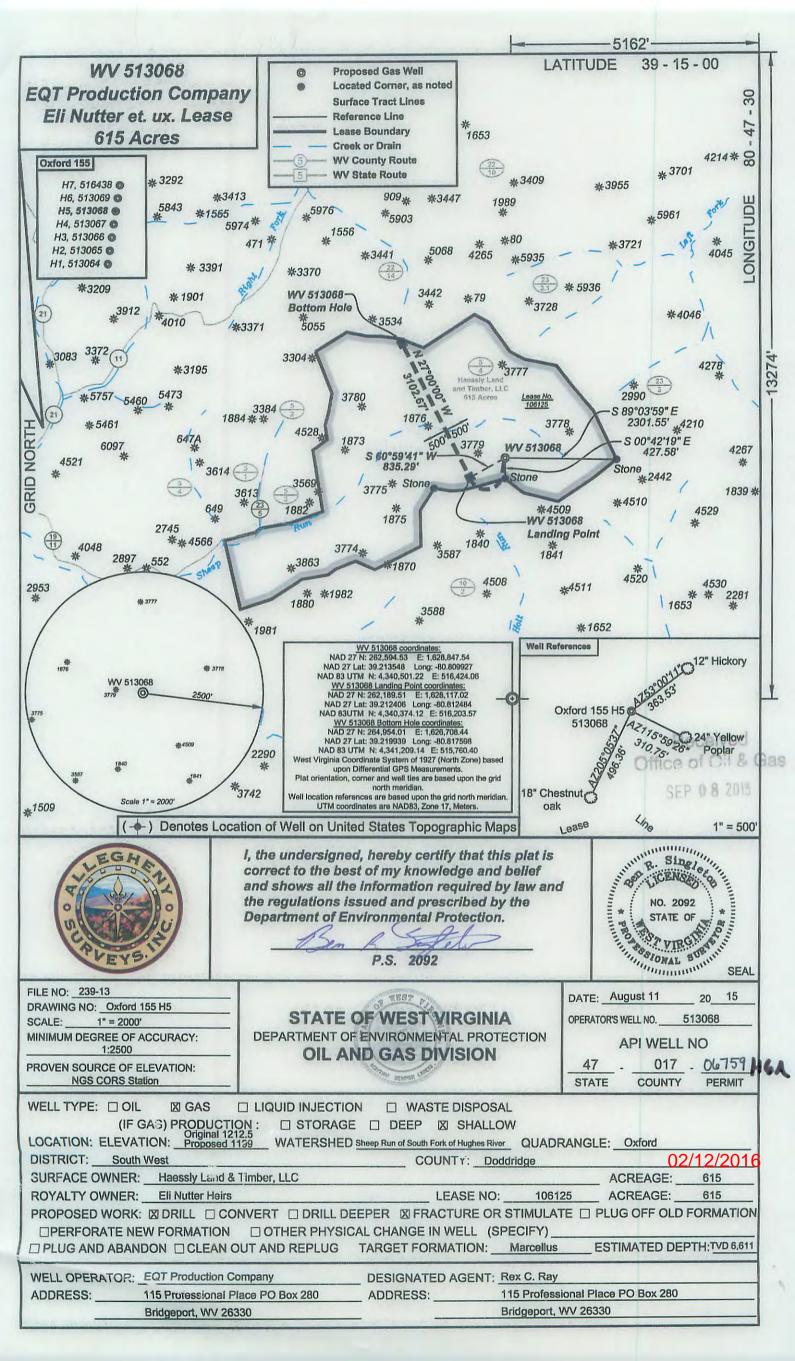
Doddridge County, WV

For Wells:

| 513068 | | | |
|--------------------------|----------------|------------------------------|---------------------------------|
| | | | |
| EQT Production Agency H | Date Prepared: | March 27, 2015 WV Oil and G | cas Inspector |
| Fille Pritting Supen | 01301 | Title | |
| 8-31-15 | | 9-30 | -15 |
| Date | | Date | Received Office of Oil & Gas |
| | | | |

OCT 0 1 2015





| Opera | tor's | Wel | I No |
|-------|-------|-----|------|
| | | | |

513068

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 –

- 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

| Number | Grantor, Lessor, etc. | Grantee, Lessee, etc. | Royalty | Book/Pa | ea. |
|--------|---|---------------------------------|---------------|--------------------------|-------------|
| 106125 | Grantor, Ecssot, etc. | Grantee, Lessee, etc. | Min 1/8 pd | | ge |
| | Eli Nutter and Mary Nutter | J.L. Newman | -172717 | LB21/211 | |
| | J.L. Newman | The Philadelphia Company of V | Vest Virginia | LB24/56 | |
| | The Philadelphia Company of West Virginia | Pittsburgh and West Virginia Ga | as Company | DB87/90 | |
| | Pittsburgh and West Virginia Gas Company | Equitable Gas Company | | LB121/303 | |
| | Equitable Gas Company | Equitrans, Inc. | | LB154/475 | |
| | Equitrans, Inc. | Equitrans, LP | | DB433/777 | |
| | Equitrans, LP | Equitable Production Company | | DB433/738 | |
| | Equitable Production Company | EQT Production Company | | CB281/346 | (Name Chang |
| 7-10-2 | I.L. Morris | EQT Production Company | N/A | 360/100 Sub Surface I | Easement |

Upon information and belief, Operator's lease and/or other real property rights permit it to conduct drilling operations for the subject well in the location shown on the plat, including under any public roads that the well lateral crosses.

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:

By:

Its:

Permitting Supervisor

Page 1 of 1



EQT Production Company 2400 Zenith Ridge Rd. Suite 200 Canonsburg, PA 15317 www.eqt.com

Todd Klaner Manager, Permitting Iklaner@eqt.com

December 9, 2015

WV DEP Reviewer

RE:

EQT Production Company PAD ID – OXF155

Well# - 513068 Doddridge County

Dear Reviewer,

This well indicated by this permit application contains a Subsurface Easement Agreement for non-productive portions of the well bore. Attached is a Memorandum of Subsurface Use Agreement which gives EQT the right to drill below the surface of the tract 10/2 shown on the well plat.

EQT Production understands that the WVDEP will issue the permit in the normal process subject to the completeness of the requirements of the Office of Oil and Gas and does not take a position with regards to the property rights under this agreement.

EQT Production agrees that the WVDEP's issuance of the permit is in no way an affirmance or validation of EQT Production's claimed rights.

Regards,

Todd Klaner

Manager, Permitting

EQT Production Company

MEMORANDUM OF SUBSURFACE RIGHT-OF-WAY AND EASEMENT AGREEMENT

1. NAME AND ADDRESS OF GRANTOR:

I.L. Morris
P.O. Box 397
Glenville, WV 26351

2. NAME AND ADDRESS OF GRANTEE:

EQT Production Company 625 Liberty Avenue Suite 1700 Pittsburgh, PA 15222

- 3. <u>SUBSURFACE RIGHT-OF-WAY AND EASEMENT AGREEMENT REFERENCE</u>: A SUBSURFACE RIGHT-OF-WAY AND EASEMENT AGREEMENT dated the 30th day of **July**, 2015, was entered into for good and valuable consideration by and between **I.L.** Morris ("Grantor", whether one or more) and EQT Production Company ("Grantee").
- 4. <u>DESCRIPTION OF PREMISES</u>: That certain tract or parcel of land containing 6600.75 acres, more or less, located on Big Run in Doddridge County, West Virginia, being the same lands conveyed to Grantor by Deed dated the 12th day of February, 1996, of record in the Office of the Clerk of the County Commission of Doddridge County, West Virginia in Deed Book 230, at Page 307. ("the Property").
- 5. <u>TERM</u>: The SUBSURFACE RIGHT-OF-WAY AND EASEMENT shall run with the land and shall remain in full force and effect until released and relinquished by the Grantee back to the Grantor, in writing.

(REMAINDER OF PAGE LEFT BLANK INTENTIONALLY)

Beceived Office of OF A Gas SEP 0 8 2015 IN WITNESS WHEREOF, the parties have signed their names hereto as of the date of the Agreement referenced in Section 3 above.

GRANTOR: GRANTEE: **EQT Production Company** us mofessione, plaz Ridgeori, w 2030-4504 By: الله W. Damato Its: Attorney in fact STATE OF West Virginia; COUNTY OF Gulmer: 1. Sandra Ann Poth + _, a Notary Public, in and for said State and County, do hereby certify that I.L. Morris, personally known to be the same persons whose names are subscribed to the foregoing instrument, appeared before me this day in person in the State and County aforesaid, and acknowledged and delivered the said instrument to be their free act and deeds for uses and purposes therein set forth. Sandre Ann Attet
Negary Public

6 Given under my hand this 36th day of July My Commission expires: ___ OFFICIAL SEAL State of West Virginia SANDRA ANN PETTIT **Gilmer County** STATE OF WEST VIRGINIA; COUNTY OF HARRISON: I, Marles (. Notary Public, in and for said State and County, do hereby certify that John W. Damato, possionally known to be the same person whose name is subscribed to the foregoing instrument and the Attorney in fact of EQT Production Company, appeared before me this day in person in the State and County aforesaid, and acknowledged and delivered the said instrument to be his free act and deed for uses and purposes therein set forth on behalf of said company. Given under my hand this 26th day of August, 2015. My Commission expires: May 21, 2017. Notary Public Forh A Rosers 16016115C Courty 23(18197 F# Instrument No 237392 Date Recorded 06/31/2015 Document Type NEN/R/M This instrument was prepared by EQT Production Company, 1710 Pennsylvania Avenue, Charleston, WV 25302. Pages Recorded 2 Ponk-Page 3:0-100

Received
Office of Oil & Gas

Recording Fee \$5.00 Additional \$6.00

SFP 08 2015

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

| Date of No | otice Certification: | 1-15 | API No. 47 - 017 - | 0 |
|-----------------|----------------------------------|---|---------------------------------------|--------------------------|
| | | | Operator's Well No. | 513068 |
| | | | Well Pad Name: | OXF155 |
| Notice has | s been given: | | | |
| | | ode § 22-6A, the Operator has provided t | he required parties with the N | otice Forms listed |
| | e tract of land as follows: | sac § 22 or, the operator has provided t | ne required parties with the re | otice i offilio ficted |
| State: | WV | UTM NAD 83 Easting: | | 516,424.06 |
| County: | Doddridge | UTM NAD 83 Northing: | | 4,340,501.22 |
| District: | Southwest | Public Road Access: | | RT 21 |
| Quadrangle: | Oxford | Generally used farm name: | Haessly La | nd & Timber LLC |
| Watershed: | Sheep Run Of South Fork Hu | | | |
| of this article | e have been completed by the app | Operator has attached proof to this Notic | e Certification | OG OFFICE USE |
| *PLEASE | CHECK ALL THAT APPLY | | | ONLY |
| □ NOTICE | E OF SEISMIC ACTIVITY or | NOTICE NOT REQUIRED BECAU SEISMIC ACTIVITY WAS CONDI | JSE NO F | RECEIVED/NOT REQUIRED |
| NOTIC | E OF ENTRY FOR PLAT SUF | RVEY or VO PLAT SURVEY WA | AS CONDUCTED R | ECEIVED |
| ▼ NOTICI | E OF INTENT TO DRILL or | NOTICE NOT REQUIRED BECA NOTICE OF ENTRY FOR PLATS WAS CONDUCTED OR | | ECEIVED/NOT EQUIRED |
| | | WRITTEN WAIVER BY SURFAC (PLEASE ATTACH) | E OWNER | |
| NOTICI | E OF PLANNED OPERATION | | LA | ECEIVED |
| 7 DUDI K | CNOTICE | 470 - | | |
| V PUBLIC | CNOTICE | 170 | | ECEIVED |
| V NOTICE | E OF APPLICATION | 470170 | 0/50 - | ECEIVED |
| | | | ₩ ₩ ₩ ₩ ₩ ₩ ₩ ₩ ₩ ₩ ₩ ₩ ₩ ₩ ₩ ₩ ₩ ₩ ₩ | |

Required Attachments:

Office of Oil & Gas

The Operator shall attach to this Notice Certification Form all Notice Forms and Certifications of Notice that have been provided to 015 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.

WW-6AC (1/12)

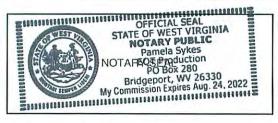
| Certification | of N | lotice | is | hereby | given: |
|----------------|------|--------|----|--------|--------|
| ocitiiioutioii | O | | | 7,00/ | 9.70 |

 Well Operator:
 EQT Production Company
 Address:
 P.O. Box 280

 By:
 Victoria J. Roark
 Bridgeport, WV 26330

 Its:
 Permitting Supervisor
 Facsimile:
 304-848-0040

 Telephone:
 304-848-0076
 Email:
 vroark@eqt.com



Subscribed and sworn before me this

day of

Notary Public

My Commission Expires 8-24-23

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.

4701706759

Received Office of Oil & Gas SEP 0 8 2015 WW-6A (9-13)

| API NO. | 47 | ÷ | 017 | - | 0 |
|----------|-------|-------|-----|--------|--------|
| OPERATOR | R WEL | L NO. | | | 513068 |
| Well Pad | e: | | | OXF155 | |

STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS $\underline{\text{NOTICE OF APPLICATION}}$

| Notice Time Requirement: no | otice shall be provided no later than the fili | |
|--|---|--|
| Notice of: | | |
| | | |
| PERMIT FOR ANY WELL WORK | ☐ CERTIFICATE OF API CONSTRUCTION OF | PROVAL FOR THE AN IMPOUNDMENT OR PIT |
| Delivery method pursuant | to West Virginia Code § 22-6A-10(b) | |
| П | [] | |
| PERSONAL SERVICE | ☐ REGISTERED ☐ MAIL | METHOD OF DELIVERY THAT REQUIRES A RECEIPT OR SIGNATURE CONFIRMATION |
| requires a receipt or sig plat to each of the follo the surface tract or tract disturbance as described lessee, in the event the record of the surface traconstruction, enlargeme water purveyor who is I which is used to provid work activity is to take in the lands, the applica article one, chapter elevunless the lien holder is the surface owner and a Application Notice | nature confirmation, copies of the awing persons: (1) The owners of resoverlying the oil and gas leasehold in the erosion and sediment contract of land on which the well project or tracts overlying the oil and gast, alteration, repair, removal or abstract of the applicant to have a waste water for consumption by human place. (c)(1) If more than three tenant may serve the documents required and this code. (2) Notwithstand the landowner. W. Va. Code R. § any water purveyor or surface owner. | |
| SURFACE OWNE | | COAL OWNER OR LESSEE |
| Name: | Haessly Land & Timber LLC | |
| Address: | 25 Sheets Run Rd. Marietta OH 45750 | |
| | Manetta OH 45750 | |
| | | See attached for additional coal owners, |
| Name: | O | |
| Address: | 0 | |
| | 0 | |
| | 0 | |
| SURFACE OWNE | RS(s) (Road and/or Other Disturba | nce) 0 |
| Name: | Haessly Land & Timber LLC | |
| Address: | 25 Sheets Run Rd. | |
| Y | Marietta OH 45750 | |
| | 0 | |
| Name: | Lucy E. Harper | |
| | 511 Boca Ciega Point Blvd. North | |
| | St. Petersburg FL 33708 | |
| | See Attached | |
| SURFACE OWNER | R(s) (Impoundments/Pits) | OPERATOR OF ANY NATURAL GAS STORAGE OF ON & Gas |
| Name: | I.L. (Ike) Morris | |
| Address: | PO Box 397 | |
| | Glenville WV 26351 | |
| | Olenville W V 20331 | |
| | 0 | |
| | | *Please attach additional forms if necessary |



October 23, 2015

Mr. Gene Smith West Virginia Department of Environmental Protection Office of Oil and Gas 601 57th Street SE Charleston, WV 25304

Re: WW6A name correction 017-06755, 017-06756, 017-06757, 017-06758. 017-06759, 017-06760

Dear Mr. Smith,

Enclosed is a name change on the above API numbers. The name was submitted as Tracy Ruth Paul Roby and should be TACY. Please insert this change into the permits on file.

If you have any questions, please do not hesitate to contact me at (304) 848-0076.

Sincerely,

Vicki Roark

Permitting Supervisor-WV

Enc.

Office of Oil & Gas 0CT 26 2015

ww6-A

Surface Owners(road or other disturbance):

I.L. (Ike) Morris PO Box 397 Glenville WV 26351

Additional Coal Owners

Frank J Hicks 7232 Twin Lakes Lane Pensacola FL 32504

Skeeter Hicks 220 W Marigold St Munhall PA 15120

Elizabeth D Delabar 6405 Nelson Drive LaPlata MD 20646

Peggy A Mudd Unknown Address

Mary A.G. Willis Unknown Address

David Thomas Hickman Jr. 3315 Dublin Manor Rd Street MD 21154

Edward Jo Nutter RT2 Box 196 Salem WV 26426

Dorthy Gola PO Box 117 Reynoldsville WV 26422

Ancient Energy 465 Hill Street Fort Royal VA 22630

Anna Marie Guthrie 4735 Dustin Place Dr. Southhaven MS 38671

Terry Alan Nutter 9039 Willey Rd. Harrison OH 45030

Mary Catherine Burgess 17 Washington Ave North Bend OH 45052

Tacy Ruth Paul Roby 8708 Tuckerman Lane Potomic MD 20854 Office of Oil & Gas

Updated Address List

WW6-A

Surface Owners(road or other disturbance):

WELL 513068

4701706759

I.L. (Ike) Morris PO Box 397 Glenville WV 26351

RECEIVED Office of Oil and Gas

SEP 1 4 2015

Additional Coal Owners

Frank J Hicks 7232 Twin Lakes Lane Pensacola FL 32504

Skeeter Hicks 220 W Marigold St Munhall PA 15120

Elizabeth D Delabar 6405 Nelson Drive LaPlata MD 20646

Peggy A Mudd Unknown Address

Mary A.G. Willis Unknown Address

David Thomas Hickman Jr. 3315 Dublin Manor Rd Street MD 21154

Edward Jo Nutter RT2 Box 196 Salem WV 26426

Dorthy Gola PO Box 117 Reynoldsville WV 26422

Ancient Energy 465 Hill Street Fort Royal VA 22630

Anna Marie Guthrie 4735 Dustin Place Dr. Southhaven MS 38671

Terry Alan Nutter 9039 Willey Rd. Harrison OH 45030

Mary Catherine Burgess 17 Washington Ave North Bend OH 45052

Tracy Ruth Paul Roby 8708 Tuckerman Lane Potomic MD 20854

WV Department of **Environmental Protection**

\$>0₁>0_{6>59}

Additional Coal Owners

Stephen E Miner PO Box 55853 Shoreline WA 98155

Michael I Spiker 103 Cedar Ridge Drive Ripley WV 25271

Drew M Spiker 103 Cedar Ridge Drive Ripley WV 25271

Willa Dean Spiker Unknown Address

Thomas Miller 3616 Glenmore Ave Cincinnati OH 45211

Cathy Gregis RR 2 Box 140 Bristol WV 26332

Jeffrey Spiker 8168 Good Hope Pike Lost Creek WV 26385 New Address /

New Address V

Mary Elta Knight 102 Elizabeth Street West Union WV 26456

Worthy Carson Underwood Jr. 4192 Nutter Fork Rd. West Union WV 26456

Sharon Knight 1706 Oak St. Parkersburg WV 26101

Stephen Knight 48 Twin Lakes Circle Martinsburg WV 25405

Diana Lynne Knight 3835 Nutter Fork West Union WV 26456

Melanie Fouse 249 Joe Miller Rd Kearneysville WV 25430

Bobbi Jo Conley 413 Fryer Oaks Ct St. Cloud FL 34771

Brada Stotts 100 Pine Drive Evans WV 25241 WELL 513068

4701706159

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Office of Oil and Gas

SEP 1 4 2015

WV Department of Environmental Protection

4701706759

02/12/2016

Additional Coal Owners

WELL 513068

Mark Spiker 3174 Lamberton Rd Pennsboro WV 26415 New Address

4701706759

Briana Deremer (Spiker) 1280 Fairlawns Ave. Morgantown WV 26505 RECEIVED
Office of Oil and Gas

John Spiker 166 Linden Lane Jane Lew WV 26378 SEP 1 4 2015

Melinda Chambers HC 63 Box 1820 Romney WV 26757 WV Department of Environmental Protection

Idell Kehoe Unknown Address

Beverly Karman 6742 S. Taylor Drive Tempe AZ 85283

Diane Smith 420 Spiketon Rd. Apt. 21 Buckley WA 98321

Marc Stinespring C/O Beverly Karman 6742 S Taylor Dr Tempe AZ 85283 Found Address /

Jean S. Richardson 106 Meadowbrook Ct.. / Niceville FL 32578

Faye Coe 16625 Valley Dr. Tampa FL 33618

Jean Haught Unknown Address

Mary Maudaline Haught) Unknown Address

Mildred Lee Maxwell 3378 Route 18 South West Union WV 26456

Charter D Stinespring II POB 4 Arthurdale WV 26520

Victor G. Stinespring PO Box 81 West Union WV 26456 4701706759

Additional Coal Owners

WELL 513068

Corrected Name

- New Address

4701706759

Delores Stinespring 2526 North Main St. Danville VA 24540

Pamela Stinespring / 8808 S. 47th Ave Laveen AZ 85339

Lucy Harsch Unknown Address

Leslie W. Dotson 803 Dewey Ave St. Marys WV 26170

Lorene Dotson Kinney 1009 E Penn Ave Pennsboro WV 26415

Mary Lucile Dotson 803 Dewey Ave St. Marys WV 26170

Lehman B. Jackson Rt 1 Box 165 Pennsboro WV 26415

Norman L Jackson 1764 Mountain Dr Pennsboro WV 26415

Robert P Jackson 305 Stewarts Run Harrisville WV 26362

Judith A. Basile 842 Beaumont Rd. Charleston WV 25314

Sandra L Hammond 1104 Tates Brooke Drive Lexington KY 40517

Barbara S Lopez 23660 Elkwood Street West Hills CA 91304

Sonja Upton 320 Hurricane Ave Hurricane WV 25526

Letitia Bennett RT 2 Box 52 Chapmanville WV 26508

loma Kathryn Dotson 4635-B Pennsylvania Ave Charleston WV 25302 RECEIVED
Office of Oil and Gas

SEP 1.4 2015

WV Department of Environmental Protection

⁴⁷⁰1706759

02/12/2016

p5.4

WW-6A (8-13)

API NO. 47 -513068 OPERATOR WELL NO. Well Pad Name:

Notice is hereby given:

Pursuant to West Virginia Code § 22-6A-10(b), notice is hereby given that the undersigned well operator has applied for a permit for 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 predrilling 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 Section, www.dep.wv.gov/oil-and-headquarters, located at 601 57th Street, SE, Charleston, WV 25304 (304-926-0454) 5 by visiting www.dep.wv.gov/oil-and-gas/pages/default.aspx.

0 6 7 5 9 Additional information related to horizontal drilling may be obtained from the Secretary, at the WV Department of Environmental Protection

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 which to the effective date of this article. (e) The secretary shall, by December 31, 2012, report to the Legislature on the no significance of the secretary shall, by December 31, 2012, report to the Legislature on the no significance of the secretary shall, by December 31, 2012, report to the Legislature on the no significance of the secretary shall, by December 31, 2012, report to the Legislature on the no significance of the secretary shall, by December 31, 2012, report to the Legislature on the no significance of the secretary shall be secr 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 of the control of the secretary that the well location restrictions regarding the control of the secretary that the well location restrictions regarding the control of the secretary that the well location restrictions regarding the control of the secretary that the well location restrictions regarding the control of the secretary that the well location restrictions regarding the control of the secretary that the well location restrictions regarding the control of the secretary that the well location restrictions regarding the control of the secretary that the well location restrictions regarding the control of the secretary that the well location restrictions regarding the control of the secretary that the well location restrictions regarding the control of the secretary that the well location restrictions regarding the control of the secretary that the se dwelling structures are inadequate or otherwise require alteration to address the items

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 of 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-bycase 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 written comments as to the location or construction of the applicant's proposed well work to the Secretary at:

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

Received
Office of Oil & Gas

SEP 08 2015

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.

WW-6A (8-13) API NO. 47 - 017 - 0

OPERATOR WELL NO. 513068

Well Pad Name: OXF155

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 & Gas
SEP 0 8 2015

| Notice is hereby give | en by: | | |
|-----------------------|-------------------------------|------------|-------------------------------------|
| Well Operator: | EQT Production Company | Address: | 115 Professional Place P.O. Box 280 |
| Telephone: | 304-848-0082 | | Bridgeport, WV 26330 |
| Email: | Vroark@eqt.com | Facsimile: | 304-848-0041 |

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.

I certify under penalty of law that I have personally examined and am familiar with the information submitted on this application form 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.

OFFICIAL SEAL
STATE OF WEST VIRGINIA
NOTARY PRIMA

PO Box 280

Bridgeport, WV 26330

My Commission Expires Aug. 24, 2022

By: Victoria Roark

Its: Permitting Supervisor

My Commission Expir

4701706759

Topo Quad: Oxford 7.5' 1 " = 2000' Scale: County: Doddridge Date: January 29, 2015 District: Southwest Project No: 239-36-S-13 Oxford 155 Well Pad No Potential Water Sites Within 2500 Oxf 155 Well Pad Oil Well Ra Gas Well X BM 865 SURVEYING AND MAPPING SERVICES PERFORMED BY: ALLEGHENY SURVEYS, INC. **EQT Production Company** P.O. Box 280 Received Bridgeport, WV 26330 OF OH & Gas 1-800-482-8606 P.O. BOX 438 BIRCH RIVER, WV 26610 PH: (304) 649-8606 FAX: (304) 649-8608

STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS NOTICE OF INTENT TO DRILL

Pursuant to W. Va. Code § 22-6A-16(b), the Notice of Intent to Drill is only required if the notice requirements of W. Va. Code § 22-6A-10(a) have NOT been met or if the Notice of Intent to Drill requirement has NOT been waived in writing by the surface owner.

| lotice Time Reate of Notice | equirement: Notice shall be provided at least TEN (10) or the state of | days prior to filing a pe ication Filed: | rmit application. AUG 2 2 2015 | |
|---|--|---|--|--|
| elivery meth | od pursuant to West Virginia Code § 22-6A-16(b) | | | |
| _ HAND | CERTIFIED MAIL RETUR | N | | |
| DELIVER | RY RECEIPT REQUESTED | | | |
| eceipt reques frilling a horize of this subsect ubsection ma | 7. Va. Code § 22-6A-16(b), at least ten days prior to filing sted or hand delivery, give the surface owner notice of it ontal well: Provided, That notice given pursuant to substion as of the date the notice was provided to the surface by be waived in writing by the surface owner. The notice e, facsimile number and electronic mail address of the c | ts intent to enter upon section (a), section ten ce owner: Provided, ho e, if required, shall inclu | the surface owner's land of this article satisfies the wever, That the notice re ide the name, address, te | for the purpose of e requirements quirements of this lephone number, |
| lotice is here | by provided to the SURFACE OWNER(s): | | 47017 | |
| Name: | Haessly Land & Timber LLC | Name: | 17 | Lucy E Harper |
| | Haessiy Land & Hillber LLC | Truitie. | | Lucy E Harper |
| | | Address. | 511.0 | Roca Ciega Point Blyd |
| Address: Notice is here | 25 Sheets Run Rd. Marietta OH 45750 | | St I vell operator has an inten | oca Ciega Point Blyd Petersburg FL 33708 t to enter upon |
| ddress: Jotice is herel tursuant to W the surface ow | 25 Sheets Run Rd. Marietta OH 45750 by given: /est Virginia Code § 22-6A-16(b), notice is hereby given | that the undersigned won the tract of land as f | St I vell operator has an inten | Petersburg FL 33708 |
| ddress: otice is here ursuant to W ne surface ow | 25 Sheets Run Rd. Marietta OH 45750 by given: /est Virginia Code § 22-6A-16(b), notice is hereby given when a horizontal well of the purpose of drilling a horizontal well and the pur | that the undersigned w | St F vell operator has an inten ollows: | Petersburg FL 33708 t to enter upon |
| dotice is herel ursuant to W he surface ow tate: ounty: | 25 Sheets Run Rd. Marietta OH 45750 by given: /est Virginia Code § 22-6A-16(b), notice is hereby given when a contract well of the purpose of drilling a horizontal well and the purpose of the purpos | that the undersigned won the tract of land as f | St F vell operator has an inten ollows: Easting | Petersburg FL 33708 t to enter upon 516,424.06 |
| dotice is here fursuant to W he surface ow tate: founty: | 25 Sheets Run Rd. Marietta OH 45750 by given: /est Virginia Code § 22-6A-16(b), notice is hereby given to the purpose of drilling a horizontal well of the purpose of drilling a horizontal well and the purpose of drilling a horiz | that the undersigned won the tract of land as f UTM NAD 83 | st Formal section set for self operator has an intensity of sections: Easting | Petersburg FL 33708 t to enter upon 516,424.06 4,340,501.22 |
| Notice is herel Pursuant to W the surface ow state: County: District: Quadrangle: | 25 Sheets Run Rd. Marietta OH 45750 by given: /est Virginia Code § 22-6A-16(b), notice is hereby given a content of the purpose of drilling a horizontal well a ho | that the undersigned won the tract of land as f UTM NAD 83 | vell operator has an intenollows: Easting Northing lic Road Access: | Petersburg FL 33708 t to enter upon 516,424.06 4,340,501.22 RT 21 |
| Notice is herel Pursuant to W the surface ow state: County: District: Quadrangle: Watershed: Fils Notice Sh Pursuant to W facsimile numl related to hori | 25 Sheets Run Rd. Marietta OH 45750 by given: Vest Virginia Code § 22-6A-16(b), notice is hereby given a conservation of the purpose of drilling a horizontal well of the purpose of drilling a horizo | that the undersigned won the tract of land as f UTM NAD 83 Pub Generally u e the name, address, to operator's authorized the WV Department of | vell operator has an inten ollows: Easting Northing lic Road Access: sed farm name: elephone number, and if a | t to enter upon 516,424.06 4,340,501.22 RT 21 Haessly Land & Timber LLC available, al information headquarters, |
| Notice is herel Pursuant to W the surface ow state: County: District: Quadrangle: Watershed: Fils Notice Sh Pursuant to W facsimile numl related to hori | 25 Sheets Run Rd. Marietta OH 45750 by given: Vest Virginia Code § 22-6A-16(b), notice is hereby given to the purpose of drilling a horizontal well of the poddridge Southwest Oxford Sheep Run Of South Fork Hughes River Mest Virginia Code § 22-6A-16(b), this notice shall include the purpose of the operator and the discontal drilling may be obtained from the Secretary, at the S7th Street, SE, Charleston, WV 25304 (304-926-0450) | that the undersigned won the tract of land as f UTM NAD 83 Pub Generally u e the name, address, to operator's authorized the WV Department of | vell operator has an inten ollows: Easting Northing lic Road Access: sed farm name: elephone number, and if a | t to enter upon 516,424.06 4,340,501.22 RT 21 Haessly Land & Timber LLC available, al information headquarters, |
| Notice is herely array and to Whe surface own tate: Nounty: Notice: Notice Shours and to Whacsimile number and to horice at 601 Notice is here | by given: Vest Virginia Code § 22-6A-16(b), notice is hereby given is viner's land for the purpose of drilling a horizontal well of Doddridge Southwest Oxford Sheep Run Of South Fork Hughes River Mest Virginia Code § 22-6A-16(b), this notice shall include ber and electronic mail address of the operator and the izontal drilling may be obtained from the Secretary, at the 57th Street, SE, Charleston, WV 25304 (304-926-0450) Seby given by: EQT Production Company | that the undersigned won the tract of land as f UTM NAD 83 Pub Generally u e the name, address, to operator's authorized the WV Department of | rell operator has an intenollows: Easting Northing lic Road Access: sed farm name: elephone number, and if a representative. Additions Environmental Protection of the control of the con | t to enter upon 516,424.06 4,340,501.22 RT 21 Haessly Land & Timber LLC available, al information headquarters, es/default.aspx Victoria Roar |
| Notice is herel Pursuant to W he surface ow tate: County: District: Quadrangle: Vatershed: Chis Notice Sh Pursuant to W acsimile numl elated to hori ocated at 601 Notice is here | by given: Vest Virginia Code § 22-6A-16(b), notice is hereby given by given: Vest Virginia Code § 22-6A-16(b), notice is hereby given by | that the undersigned won the tract of land as f UTM NAD 83 Pub Generally u e the name, address, to operator's authorized the WV Department of or by visiting www.de | rell operator has an intenollows: Easting Northing lic Road Access: sed farm name: elephone number, and if a representative. Additions Environmental Protection of the control of the con | t to enter upon 516,424.06 4,340,501.22 RT 21 Haessly Land & Timber LLC available, al information headquarters, es/default.aspx Victoria Roar 15 Professional Place, P.O Box 28 |
| Iotice is herel fursuant to W he surface ow tate: founty: foistrict: fundrangle: Vatershed: First Notice Sh fursuant to W acsimile numl elated to hori focated at 601 Notice is here Vell Operator: | by given: Vest Virginia Code § 22-6A-16(b), notice is hereby given by given: Vest Virginia Code § 22-6A-16(b), notice is hereby given by given's land for the purpose of drilling a horizontal well of the poddridge Southwest Oxford Sheep Run Of South Fork Hughes River Vest Virginia Code § 22-6A-16(b), this notice shall include the perand electronic mail address of the operator and the properties of the secretary, at the perand drilling may be obtained from the Secretary, at the perand drilling may be obtained from the Secretary, at the perand of | that the undersigned won the tract of land as for the the name, address, the the the work of the the work of the work of the work of the work of the the track of the work | rell operator has an intenollows: Easting Northing lic Road Access: sed farm name: elephone number, and if a representative. Additions Environmental Protection of the control of the con | Petersburg FL 33708 It to enter upon 516,424.06 4,340,501.22 RT 21 Haessly Land & Timber LLC available, al information headquarters, es/default.aspx Victoria Roar 15 Professional Place, P.O Box 28 Bridgeport, WV 2633 |
| Iotice is herel fursuant to W the surface ow tate: founty: founty: fountrict: foundrangle: Vatershed: firs Notice Sh fursuant to W acsimile num elated to hori focated at 601 Notice is here Vell Operator: kiddress: | 25 Sheets Run Rd. Marietta OH 45750 by given: Vest Virginia Code § 22-6A-16(b), notice is hereby given by a contract of the purpose of drilling a horizontal well of the purpose of drilling a horizontal drilling a horizontal drilling may be set to purpose the purpose of the purpose of the operator and the purpose of the o | that the undersigned won the tract of land as for the the name, address, to experator's authorized the WV Department of the the track or by visiting www.defor by visiting www.defor land the track of the | rell operator has an intenollows: Easting Northing lic Road Access: sed farm name: elephone number, and if a representative. Additions Environmental Protection of the control of the con | Petersburg FL 33708 It to enter upon 516,424.06 4,340,501.22 RT 21 Haessly Land & Timber LLC available, al information headquarters, es/default.aspx Victoria Roar 15 Professional Place, P.O Box 28 Bridgeport, WV 2633 304-848-007 |
| Notice is hereled aursuant to Whe surface own tate: County: District: Quadrangle: Vatershed: Chis Notice Shears and to White action to White action to hereled to horiocated at 601 | by given: Vest Virginia Code § 22-6A-16(b), notice is hereby given by given: Vest Virginia Code § 22-6A-16(b), notice is hereby given by given's land for the purpose of drilling a horizontal well of the poddridge Southwest Oxford Sheep Run Of South Fork Hughes River Vest Virginia Code § 22-6A-16(b), this notice shall include the perand electronic mail address of the operator and the properties of the secretary, at the perand drilling may be obtained from the Secretary, at the perand drilling may be obtained from the Secretary, at the perand of | that the undersigned won the tract of land as for the the name, address, the the the work of the the work of the work of the work of the work of the the track of the work | rell operator has an intenollows: Easting Northing lic Road Access: sed farm name: elephone number, and if a representative. Additions Environmental Protection of the control of the con | Petersburg FL 33708 It to enter upon 516,424.06 4,340,501.22 RT 21 Haessly Land & Timber LLC available, al information headquarters, es/default.aspx Victoria Roar 15 Professional Place, P.O Box 28 Bridgeport, WV 2633 |

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 SEP 0 8 2015 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 02/12/2016 DEP's Chief Privacy Officer at depprivacyofficer@wv.gov.

Office of Oil & Gas

STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS NOTICE OF INTENT TO DRILL

Pursuant to W. Va. Code § 22-6A-16(b), the Notice of Intent to Drill is only required if the notice requirements of W. Va. Code § 22-6A-10(a) have NOT been met or if the Notice of Intent to Drill requirement has NOT been waived in writing by the surface owner.

| Notice Time R Date of Notice | equirement: Notice shall be provided at least TEN (10) e: AUG 1 2 2015 Date Permit Appl | | olication. 2 2 2015 | |
|---------------------------------|---|---|--|----------------------------|
| Delivery meth | od pursuant to West Virginia Code § 22-6A-16(b) | | | |
| T HAND DELIVER | CERTIFIED MAIL RETUR RECEIPT REQUESTED | N | | |
| | | 110 110 100 100 100 100 100 100 100 100 | | |
| Pursuant to W | . Va. Code § 22-6A-16(b), at least ten days prior to filing | a permit application, an opera | tor shall, by certified mail r | eturn |
| | ted or hand delivery, give the surface owner notice of it | | | |
| | ontal well: Provided, That notice given pursuant to subs | | | |
| subsection ma | tion as of the date the notice was provided to the surfac by be waived in writing by the surface owner. The notice e, facsimile number and electronic mail address of the c | e, if required, shall include the r | name, address, telephone ຖ | ss of this Comper, 5 |
| Notice is here | by provided to the SURFACE OWNER(s): | | | |
| Name: | I L Morris | Name: | | |
| Address: | PO Box 397 | Address: | | |
| | Glenville WV 26351 | | | |
| | est Virginia Code § 22-6A-16(b), notice is hereby given wher's land for the purpose of drilling a horizontal well of the burner's land for the purpose of drilling a horizontal well of the burner's land for the purpose of drilling a horizontal well of the burner's land for the burner's | on the tract of land as follows: | ator has an intent to enter | upon 516,424.06 |
| County: | Doddridge | | rthing | 4,340,501.22 |
| District: | Southwest | Public Road A | ccess: | RT 21 |
| Quadrangle: | Oxford | Generally used farm | name: L | laessly Land & Timber LLC |
| Watershed: | Sheep Run Of South Fork Hughes River | | | |
| facsimile numi | nall Include: Yest Virginia Code § 22-6A-16(b), this notice shall include ber and electronic mail address of the operator and the izontal drilling may be obtained from the Secretary, at t 57th Street, SE, Charleston, WV 25304 (304-926-0450) | e operator's authorized represe the WV Department of Environ | ntative. Additional informa mental Protection headqua | rters, |
| Notice is here | by given by: | | | |
| Well Operator: | EQT Production Company | Authorized Representative: | | Victoria Roark |
| Address: | 115 Professional Place, P.O Box 280 | Address: | 115 Profes | ssional Place, P.O Box 280 |
| | Bridgeport, WV 26330 | | | Bridgeport, WV 26330 |
| Telephone: | 304-848-0076 | Telephone: | | 304-848-0076 |
| Email: | <u>vroark@eqt.com</u> | Email: | | vroark@eqt.com |
| Facsimile: | 304-848-0041 | Facsimile: | | P394-848-9941 |

Oil and Gas Privacy Notice:

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| WW- | 6A5 |
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| (1/12) | |

Operator Well No.

513068

STATE OF WEST VIRGINIA

Notice Time Requirement: notice shall be provided no later than the filing date of permit application.

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

| Date of Notice | equirement: notice shall be provided no late | ate Permit App | | 9-1-15 |
|--|---|---|--|--|
| Delivery metho | od pursuant to West Virginia Code § 22-6A- | 16(c) | | |
| | FIED MAIL HAN RN RECEIPT REQUESTED DELI | D IVERY | | |
| return receipt re the planned ope required to be po drilling of a horiz damages to the | /a. Code § 22-6A-16(c), no later than the date for equested or hand delivery, give the surface owner tration. The notice required by this subsection sharovided by subsection (b), section ten of this artice contal well; and (3) A proposed surface use and contal well; and so the four face affected by oil and gas operations to the equired by this section shall be given to the surface | r whose land will lall include: (1) A calle to a surface own ompensation agreextent the damag | oe used for the drilling or opy of this code section; oner whose land will be dement containing an of es are compensable und | of a horizontal well notice of ; (2) The information used in conjunction with the fer of compensation for der article six-b of this chapter. |
| | provided to the SURFACE OWNER(s) isted in the records of the sheriff at the time of no | otice): | | 706759 |
| Name: | Haessly Land & Timb | / | 4701 | Lucy E. Harper |
| Address: | 25 Sheets R | | ss: | 511 Boca Ciegga Point Blvd. North |
| 1.11 | Marietta OH | 45750 | | St. Petersburg FL 33708 |
| operation on the State: | st Virginia Code § 22-6A-16(c), notice is hereby gives surface owner's land for the purpose of drilling WV Doddridge | | | |
| County: District: | Southwest | Public Road Acc | | 4,540,301.220000 RT 21 |
| Quadrangle: | Oxford | Generally used | (1) (1) (1) (1) (1) (1) (1) (1) (1) (1) | Haessly Land & Timber LLC |
| Watershed: | Sheep Run Of South Fork Hughes River | Generally used | Tarrit Harrie. | macssiy cana a minber eee |
| to be provided b horizontal well; a surface affected information rela | or Virginia Code § 22-6A-16(c), this notice shall income www. Va. Code § 22-6A-10(b) to a surface owner and (3) A proposed surface use and compensation by oil and gas operations to the extent the dama ted to horizontal drilling may be obtained from the cated at 601 57th Street, SE, Charleston, WV 253 | whose land will be n agreement cont ges are compensa he Secretary, at th | e used in conjunction wi aining an offer of composible under article six-b c able under article six-b c ae WV Department of Er | ith the drilling of a ensation for damages to the of this chapter. Additional nvironmental Protection |
| Well Operator: | EQT Production Company | Address: | 115 Professional Place | e P.O. Boy 280 |
| Telephone: | 304-848-0082 | _ | WV 26330 | -, |
| Email: | vroark@eqt.com | Facsimile: | 304-848-0040 | |

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 Received appropriately secure your personal information. If you have any questions about our use or your personal information, please contact

Office of Oil & Gas

DEP's Chief Privacy Officer at depressory contacts. needed to comply with statutory or regulatory requirements, including Freedom of Information Act requests. Our office will DEP's Chief Privacy Officer at depprivacyofficer@wv.gov. SEP 0 8 2015

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| VI | Jelo | 1101 | AAG | 711 | IVO. |

513068

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

NOTICE OF PLANNED OPERATION

| Date of Notice: | : 9-1-15 D | ate Permit Appl | ication Filed: | 9-1-15 |
|--|---|--|--|--|
| Delivery metho | od pursuant to West Virginia Code § 22-6A- | 16(c) | | |
| | FIED MAIL HAN RN RECEIPT REQUESTED DELI | D IVERY | | |
| return receipt re- the planned oper required to be pr drilling of a horiz damages to the s | (a. Code § 22-6A-16(c), no later than the date for quested or hand delivery, give the surface owner ration. The notice required by this subsection sharovided by subsection (b), section ten of this artice contal well; and (3) A proposed surface use and cosurface affected by oil and gas operations to the equired by this section shall be given to the surface. | r whose land will ball include: (1) A colle to a surface own ompensation agreextent the damage | pe used for the drilling of a ppy of this code section; (2 oner whose land will be use ement containing an offer es are compensable under | horizontal well notice of 2) The information ed in conjunction with the of compensation for article six-b of this chapter. |
| Notice is hereby | provided to the SURFACE OWNER(s) | | | |
| (at the address li | sted in the records of the sheriff at the time of no | otice): / | | |
| Name: | I. L. (lke) 1 | Morris Name | | |
| Address: | PO Bo | ox 397 Addre | ss: | |
| | Glenville WV | 26351 | | |
| Pursuant to Wes | 0 | ven that the unde | | |
| Pursuant to West operation on the State: | given: t Virginia Code § 22-6A-16(c), notice is hereby gives a surface owner's land for the purpose of drilling a | ven that the unde a horizontal well o | on the tract of land as follo | ws: |
| operation on the State: | given: t Virginia Code § 22-6A-16(c), notice is hereby giv surface owner's land for the purpose of drilling a WV | ven that the unde a horizontal well o | on the tract of land as follo Easting: Northing: | ws: 516,424.060000 |
| Pursuant to West operation on the State: County: District: Quadrangle: | given: t Virginia Code § 22-6A-16(c), notice is hereby given: surface owner's land for the purpose of drilling a WV Doddridge Southwest Oxford | ven that the unde a horizontal well o UTM NAD 83 | en the tract of land as follo Easting: Northing: | ws: 516,424.060000 4,340,501.220000 |
| Pursuant to West operation on the State: County: District: | given: t Virginia Code § 22-6A-16(c), notice is hereby given: surface owner's land for the purpose of drilling a WV Doddridge Southwest | ven that the unde a horizontal well o UTM NAD 83 Public Road Acc | en the tract of land as follo Easting: Northing: | ws: 516,424.060000 4,340,501.220000 RT 21 |
| Pursuant to West operation on the State: County: District: Quadrangle: Watershed: This Notice Shall Pursuant to West to be provided by horizontal well; a surface affected information relations. | given: t Virginia Code § 22-6A-16(c), notice is hereby given: surface owner's land for the purpose of drilling a WV Doddridge Southwest Oxford Sheep Run Of South Fork Hughes River I Include: t Virginia Code § 22-6A-16(c), this notice shall include: t Virginia Code § 22-6A-10(b) to a surface owner was and (3) A proposed surface use and compensation by oil and gas operations to the extent the damage and to horizontal drilling may be obtained from the cated at 601 57th Street, SE, Charleston, WV 253 | ven that the unde a horizontal well o UTM NAD 83 Public Road Acc Generally used clude: (1)A copy of whose land will be n agreement cont ges are compensa he Secretary, at th | n the tract of land as follo Easting: Northing: tess: farm name: f this code section; (2) The e used in conjunction with aining an offer of compensible under article six-b of the WV Department of Envir | information required the drilling of a sation for damages to the his chapter. Additional ronmental Protection |
| Pursuant to West operation on the State: County: District: Quadrangle: Watershed: This Notice Shall Pursuant to West to be provided by horizontal well; a surface affected information relat headquarters, los pages/default.as | given: t Virginia Code § 22-6A-16(c), notice is hereby given: surface owner's land for the purpose of drilling a WV Doddridge Southwest Oxford Sheep Run Of South Fork Hughes River I Include: t Virginia Code § 22-6A-16(c), this notice shall include: t Virginia Code § 22-6A-10(b) to a surface owner wand (3) A proposed surface use and compensation by oil and gas operations to the extent the damaged to horizontal drilling may be obtained from the cated at 601 57th Street, SE, Charleston, WV 253 px. | ven that the unde a horizontal well of UTM NAD 83 Public Road Acc Generally used clude: (1)A copy of whose land will be n agreement cont ges are compensa he Secretary, at th 04 (304-926-0450 | this code section; (2) The section are dependent of this code section; (2) The section are dependent of the this code section; (3) The section are dependent of the this code section; (4) The section are dependent of the this code section; (5) The section are dependent of the this code section; (6) The this code section; (7) The section are dependent of the this code section; (8) The this code section; (9) The section are dependent of the this code section; (10) The section are dependent of the this code section; (11) The section are dependent of the third code section; (12) The section are dependent of the third code section; (13) The section are dependent of the third code section; (13) The section are dependent of the third code section; (13) The section are dependent of the third code section; (13) The section are dependent of the third code section; (13) The section are dependent of the third code section; (13) The section are dependent of the third code section; (13) The section are dependent of the third code section; (13) The section are dependent of the third code section; (13) The section are dependent of the third code section; (13) The section are dependent of the third code s | information required the drilling of a sation for damages to the his chapter. Additional ronmental Protection wv.gov/oil-and-gas/ |
| Pursuant to West operation on the State: County: District: Quadrangle: Watershed: This Notice Shall Pursuant to West to be provided be horizontal well; a surface affected information relat headquarters, los | given: t Virginia Code § 22-6A-16(c), notice is hereby given: surface owner's land for the purpose of drilling a WV Doddridge Southwest Oxford Sheep Run Of South Fork Hughes River I Include: t Virginia Code § 22-6A-16(c), this notice shall include: t Virginia Code § 22-6A-10(b) to a surface owner was and (3) A proposed surface use and compensation by oil and gas operations to the extent the damage and to horizontal drilling may be obtained from the cated at 601 57th Street, SE, Charleston, WV 253 | ven that the unde a horizontal well o UTM NAD 83 Public Road Acc Generally used clude: (1)A copy of whose land will be n agreement cont ges are compensa he Secretary, at th | the tract of land as follon Easting: Northing: Easting: Northing: Easting: Farm name: If this code section; (2) The east of the compension of the compension of the the the thick of the the thick of the the thick of the the thick of the th | information required the drilling of a sation for damages to the his chapter. Additional ronmental Protection wv.gov/oil-and-gas/ |

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. Oil & Gas DEP's Chief Privacy Officer at depprivacyofficer@wv.gov.



WEST VIRGINIA DEPARTMENT OF TRANSPORTATION

Division of Highways

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

Paul A. Mattox, Jr., P. E. Secretary of Transportation/ Commissioner of Highways

May 15, 2015

James A. Martin, Chief Office of Oil and Gas Department of Environmental Protection 601 57th Street, SE Charleston, WV 25304 4701706759

Subject: DOH Permit for the OXF155 Pad, Doddridge County

513064 OXF155H1 513065 OXF155H2 513067 OXF155H4 513068 OXF155H5

513066 OXF155H3 513069 OXF155H6

Dear Mr. Martin,

Earl Ray Tomblin

Governor

This well site will be accessed from Permit # 04-2014-0427 applied for by EQT Production Company for access to the State Road for a well site located off of Doddridge County Route 23/2 SLS.

The operator has signed a STATEWIDE 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

Regional Maintenance Engineer Central Office O&G Coordinator

Dary K. Clayton

Ce: Nick Bumgardner

EQT Production Company

CH, OM, D-4

File

Received Office of Oil & Gas

SEP 08 2015

Anticipated Frac Additives Chemical Names and CAS numbers

| <u>Material</u> | Ingredient | CAS Number |
|-----------------------|--|--|
| | | |
| Water | | |
| Sand | Hydrotreated light petroleum distillate | 14808-60-7 |
| Friction Reducer | Tributyl tetradecyl phosphonium chloride | 64742-47-8 |
| Biocide | Ammonium chloride | 81741-28-8 |
| Scale Inhibitor | Hydrochloric Acid | 12125-02-9 |
| 15% Hydrochloric Acid | Propargyi Alcohol | 7647-01-0 |
| Corrosion Inhibitor | Methanol | 107-19-7 |
| Corrosion Inhibitor | Guar Gum | 67-56-1 |
| Gelling Agent | Sodium Persulfate | 9000-30-0 7776-27-17 0 6 7 5 9 4584-08-7 |
| Oxidizing Breaker | Potassium Carbonate | 7,776-27-1 |
| Buffering Agent | | 45 8 4 -7 |

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Office of Oil & Gas
SEP 0 8 2015





West Virginia Department of Environmental Protection Office of Oil & Gas 601 57th Street SE Charleston, WV 25304-2345

| | | DE | P Office | Use on | lv . | ranakan. | |
|----|-----------|-------------------|----------|--------|------|----------|-----|
| Da | te Recei | ved by Oil & | ß Gas: | | | | |
| As | signed Ir | npoundmer | nt ID#: | | | 5 | 7.5 |
| L | | The second second | | | 17 | | 1.0 |

Permit Associated Impoundment / Pit Registration

Instruction: This form is to be used to register impoundments or waste pits, greater than 5,000 bbls, that are associated with a WVDEP, Office of Oil and Gas, well drilling permit. An associated impoundment or pit means it has been designed and included in the well drilling permit application, will follow the reclamation time frame of well work permit, and will be approved in conjunction with the well work permit. An impoundment ID number will be assigned by WVDEP, Office of Oil and Gas, to all impoundments and pits. This impoundment ID number will be sent to the applicant following receipt of this form by WVDEP. Please reference this impoundment ID number with all future correspondence and reference to this impoundment. Conditions as described in W.Va. State Rule §35-4-21 will be followed as it relates to impoundments and pits.

Section 1 – Operator Information

| QT Production Company | | |
|------------------------|---|--|
| 306686 | | |
| 115 Professional Place | | |
| Bridgeport | State: W | Zip: 26330 |
| Ron Furby | | Sr. Mgr. Water Operations |
| 112-395-7052 | Contact Email: | rfurby@eqt.com |
| 1 | 306686 115 Professional Place Bridgeport Ron Furby | 306686 115 Professional Place Bridgeport State: WV Ron Furby Contact Title: |

Section 2 – Engineering / Design Contractor Information

| Design will be contracte | d Designed in-house | | | | |
|---------------------------|------------------------------|--------------|--------|--------------|--------|
| Company Name: | Hornor Brothers Engineers | | | | |
| Address: Street | P.O. Box 386 | | | - | |
| City: | Clarksburg | State: | W | Zip: | 26302 |
| Contact Name: | Thomas D. Corathers | — Contact | Title: | PE, PS | |
| Contact Phone: | 304-624-6445 | Contact E | mail: | tom@hbe190 | 02.com |
| Certifying Professional E | ngineer: Thomas D. Corathers | | | | |
| Professional Engineer R | legistration Number: 14161 | | | | |
| | | | | | |

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Office of Oil and Gas

Section 3 - Impoundment / Pit Information

| Type of Structure. Check one of two choices below: ☐ Freshwater Impoundment Note: Any waste in a pit will make it a waste pit. | aste Pit |
|---|--|
| Name of Structure (Company Name :) EQT-OXF 155 Completic | on Pit |
| County: Doddridge District: | Southwest and West Union |
| USGS 7.5' Quad Map Name: OXFORD | 4701706759 |
| Farm Name: | 4/01/0 |
| Pad Name: OXF 155 | |
| Surface Owner Name: I.L. Morris | o 22/2 8 OVE 140 Sito Access Board travel Northwestern |
| Physical Description of Location: From intersection Doddridge Co Rt along access road 1.72 miles to OXF 155 access turn left and travel sou | |
| (Note: Give general location, example: 2 miles south of Smalltown, WV on Rt. 22, | |
| Watershed (nearest perennial): Holt Run and an unnamed tribu | • |
| | roximately 1,030 feet to each |
| <u>···</u> | |
| Location Coordinates (NAD83, Decimal Degrees (xx.xxxx, -xx.xxx | (x)) |
| Latitude: 39.209547 Longitude (Use negative sign | n):80.805559 |
| UTM Coordinates : UTM 83-17NF:1695492.653199 E UT | M 83-17NF:14238976.211983 N |
| Access Road Coordinates (junction of state highway access) | |
| Latitude: 39.203497 Longitude (Use negative signature) | |
| UTM Coordinates : UTM 83-17NF:1699145.657103 E UTM | TM 83-17NF:14236781.647751 N |
| | |
| Approximate Dimensions Length: 352' Width 226' | Height: 19' |
| Length: 352' Width: 226' Note: If irregularly shaped, give approximate dimensions of long axis. | _ Height: |
| Total Capacity – Provide all units of measure below: | |
| Barrels: 173,268 Gallons: 7,277,758 | Acre-Feet: 22.335 |
| <u> </u> | 7010 1 001. |
| Capacity with 2' Freeboad – Provide all units of measure below: | |
| Barrels: 148,521 Gallons: 6,238,314 | Acre-Feet: 19.145 |
| | |
| Incised volume: | |
| Barrels: 105,461 Gallons: 4,429,657 | Acre-Feet: 13.594 |
| | |
| Net impounded volume: (Total volume less incised volume.) | |
| Barrels: 67,807 Gallons: 2,848,101 | _ Acre-Feet: 8.741 |
| Antiningted Companyation Start Date (cather St. 1997) | Received |
| Anticipated Construction Start Date (estimation, non-binding): Note: No construction may begin on Associoated impoundment u | India W/DEP issues the drilling permittable and O. 1. 0. |
| calendar days prior to confirmed construction start date, notify the | Unice of Oil & Gas, and the local Oil and Gas |
| inspector of construction start date. Use form IMP-2, "Notification | of Impoundment / Pit Construction." SFP 18 2015 |



Section 4 - Associated Well Numbers and API Numbers. List associated well numbers and API number. API numbers may not be assigned at time of registering this impoundment, if so list as pending.

| API Number(s) – If issued: | |] | | | |
|----------------------------|---------------------------------------|---|-----|-----|--------------------------------------|
| | - | | | | |
| | · · · · · · · · · · · · · · · · · · · | | | | |
| | | | | | |
| | 470 | 4 | 7 | • • | _ |
| | _ | 1 | / (|) 6 | 759 |
| | - | | | | |
| | | | | | |
| | | | | | API Number(s) – If issued: 470 1706 |

Section 5 - Required Information Checklist To Register Permit Associated Impoundments or Pits. Include the following information and plans with application.

| × | Engineered Construction Plans, | certified by WV Registered P.E. |
|---|--------------------------------|---------------------------------|
|---|--------------------------------|---------------------------------|

- Erosion and Sediment Control Plan, certified by WV Registered P.E. ×
- × Reclamation Plan, certified by WV Registered P.E.

Section 6 – Dam Standard Qualifying Evaluation

| | The design of this stand of the standard of th |
|---|---|
| ш | The design of this structure has been evaluated by the applicant to determine it does NOT qualify to be |
| | defined as a dam under WVa Bule \$47.04 Kills of the state |
| | defined as a dam, under W.Va Rule §47-34. If the design of this structure qualifies it to be defined as a dam, |
| | all permits regulating dams will be required prior to registering the structure with the Office of Oil and Gas. |
| | an permits regulating dams will be required prior to registering the structure with the Office of Oil and Gas |
| | The dam standard, from the WVDEP, Div. Of Water and Waste, is available for review at: |
| | The dam standard, norm the VVDEL, blv. Of Vvaler and Vvaste, is available for review at: |
| | http://www.dep.wv.gov/WWE/ee/ds/Pages/default.aspx |
| | |

| defined as a dam, under W.Va Rule §47-34. If the design of this structure qualifies it to be defined as a dam, all permits regulating dams will be required prior to registering the structure with the Office of Oil and Gas. The dam standard, from the WVDEP, Div. Of Water and Waste, is available for review at: http://www.dep.wv.gov/WWE/ee/ds/Pages/default.aspx |
|--|
| Section 7 -Comments - Provide any additional comments concerning this project |
| |
| |
| |
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| |



Section 8 - Application Certification

I hereby certify that the information listed above is true and accurate. I understand that this pit/impoundment is to be constructed only in a location appropriate for the storage of water, including wastewater, and will be constructed in accordance with plans designed and certified by a West Virginia registered professional engineer. I further recognize that all required plans have been submitted to the Office of Oil and Gas. I understand that after construction, and prior to any fluid being placed in the pit/impoundment, it shall be inspected by a West Virginia registered professional engineer to ensure compliance with the certified design and construction plan, and that the professional engineer shall certify that this structure was constructed in accordance with design and construction plans. I understand that such certification shall be in writing to the Chief and that no fluids may be placed in the pit/impoundment until the certification has been filed with the chief. I agree that this pit/impoundment shall be constructed, maintained, operated and closed in accordance with all applicable laws and rules, including the requirements of W. Va. Code R § 35-4-2.

| Name: | Victor | A J | to me | - | | |
|--------------------------|-------------------------|---------|---------|------|--------|--|
| Title: | Dermitt | ing Sup | remisor | | 7 5 9 | |
| Signature: | The | 1 | 14 | 4701 | 100130 | |
| | | | | | | |
| Taken, subscribed and sv | vorn to before me this, | 27 | Day of | Aus | 20 15 | |
| Notary Public: | Kanle you | | | | | |
| My commission expires: | | 8-24- | 22 | | | |
| Notany Seal | | | | | | |

Section 9. Submittal Instructions

Submit original paper copy of application to:

West Virginia Department of Environmental Protection
Office of Oil and Gas
Impoundment Registration
601 57th Street, SE
Charleston WW 25304

Email PDF file format of this application and all related engineering Plans to : <u>Depimpoundments@wv.gov</u>

Office of Oll & Gas

SEP 08 2015



Office of Oil and Gas

West Virginia Department of Environmental Protection Office of Oil & Gas 601 57th Street SE Charleston, WV 25304-2345

| DEP Office Use only | |
|-----------------------------|--|
| Date Received by Oil & Gas: | |
| Assigned Impoundment ID #: | |

Permit Associated Impoundment / Pit Registration

Instruction: This form is to be used to register impoundments or waste pits, greater than 5,000 bbls, that are associated with a WVDEP, Office of Oil and Gas, well drilling permit. An associated impoundment or pit means it has been designed and included in the well drilling permit application, will follow the reclamation time frame of well work permit, and will be approved in conjunction with the well work permit. An impoundment ID number will be assigned by WVDEP, Office of Oil and Gas, to all impoundments and pits. This impoundment ID number will be sent to the applicant following receipt of this form by WVDEP. Please reference this impoundment ID number with all future correspondence and reference to this impoundment. Conditions as described in W.Va. State Rule §35-4-21 will be followed as it relates to impoundments and pits.

4701706759

Section 1 - Operator Information

| Operator Name: | EQT Production Company | - | |
|-----------------|------------------------|----------------|---------------------------|
| Operator ID: | 306686 | | |
| Address: Street | 115 Professional Place | | |
| City: | Bridgeport | State: WV | Zip: 26330 |
| Contact Name: | Ron Furby | | Sr. Mgr. Water Operations |
| Contact Phone: | 412-395-7052 | Contact Email: | |

Section 2 - Engineering / Design Contractor Information

| Design will be contracted | d Designed in-ho | use 🗆 | | | | | - |
|---------------------------|---------------------|--------------|--------------|--------|-----------|--------|---|
| Company Name: | Hornor Brothers Eng | ineers | | | | | |
| Address: Street | P.O. Box 386 | | | | | | |
| City: | Clarksburg | | State: | WV | Zip: | 26302 | |
| Contact Name: | Thomas D. Corathers | | _ Contact | Title: | PE, PS | | |
| Contact Phone: | | | Contact E | mail: | tom@hbe19 | 02.com | |
| Certifying Professional E | |). Corathers | | | | | |
| Professional Engineer R | egistration Number: | 14161 | | | | | - |
| | | | | | | | |

Received
Office of Class Gas

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Office of Oil and Gas

Section 3 - Impoundment / Pit Information

| Type of Structure. Check one of two choices below: | | | |
|--|------------------|------------------|--------------------------|
| • | Vaste Pit | | |
| Note: Any waste in a pit will make it a waste pit. | | | |
| | | | |
| Name of Structure (Company Name :) EQT-OXF 155 Flow Bac | k Pit | | |
| County: Doddridge District: | Southwest and | d West Union | |
| USGS 7.5' Quad Map Name: OXFORD | _ | | |
| Farm Name: | | | |
| Pad Name: OXF 155 | | | |
| Surface Owner Name: I.L. Morris | | | |
| Physical Description of Location: From intersection Doddridge Co F | | | |
| along access road 1.72 miles to OXF 155 access turn left and travel so | | | to flow back pit on left |
| (Note: Give general location, example: 2 miles south of Smalltown, WV on Rt. 22, | | • | |
| Watershed (nearest perennial): Holt Run and an unnamed trib | | | |
| Distance (Drainage Distance) to nearest perennial stream: app | proximately 1,03 | 30 feet to each | |
| | | | |
| Location Coordinates (NAD83, Decimal Degrees (xx.xxxx, -xx.xx | • • | | |
| Latitude: 39.210235 Longitude (Use negative sig | · | | |
| | TM 83-17NF:14 | 239226.621075 | 5_ N |
| Access Road Coordinates (junction of state highway access) | 00 700 | | |
| Latitude: 39.203497 Longitude (Use negative si | | | |
| UTM Coordinates :UTM 83-17NF:1699145.653103 EU | JIM 83-17NF:14 | 4236781.64775 | <u>1</u> N |
| Approximate Dimensions | | | |
| Approximate Dimensions Length: 186' Width: 185' | Haiahafi M | 17h | |
| Note: If irregularly shaped, give approximate dimensions of long axis. | _ Heignis Z | 170 170 | 6700 |
| Total Capacity – Provide all units of measure below: | | V | 0 / 5 9 |
| Barrels: 45,129 Gallons: 1,895,557 | Acre-Feet: | 5.817 | |
| Sanois. Meso, see | | | |
| Capacity with 2' Freeboad – Provide all units of measure below: | | | |
| Barrels: 35,544 Gallons: 1,492,957 | Acre-Feet: | 4.582 | |
| Suitorio. | | | |
| Incised volume: | | | |
| Barrels: 17,288 Gallons: 726,147 | Acre-Feet: | 2.228 | Received |
| | _ / 10.0 / 00 | - | Office of City of |
| Net impounded volume: (Total volume less incised volume.) | | | Office of Cil & G |
| | | 3.589 | SEP 08 2018 |
| | Acre-Feet | | |
| Barrels: 27,841 Gallons: 1,169,410 | _ Acre-Feet: | | |
| Barrels: 27,841 Gallons: 1,169,410 | _ Acre-Feet: | | |
| | until WVDEP i | ssues the drilli | ing permit. At least 7 |



Section 4 - Associated Well Numbers and API Numbers. List associated well numbers and API number. API numbers may not be assigned at time of registering this impoundment, if so list as pending.

| Well Number(s): | API Number(s) – If issued: |
|------------------------|----------------------------|
| H1 513064 | |
| H2 513065 | |
| H3 513066 | |
| H4 513067 | |
| H5 513068 H6 513069 | |
| H7 516483 | |
| H8 516484 | |

Section 5 - Required Information Checklist To Register Permit Associated Impoundments or Pits. Include the following information and plans with application.

- Engineered Construction Plans, certified by WW Registered P.E.
- Erosion and Sediment Control Plan, certified by WV Registered P.E.
- Reclamation Plan, certified by WW Registered P.E.

Section 6 – Dam Standard Qualifying Evaluation

The design of this structure has been evaluated by the applicant to determine it does NOT qualify to be defined as a dam, under W.Va Rule §47-34. If the design of this structure qualifies it to be defined as a dam, all permits regulating dams will be required prior to registering the structure with the Office of Oil and Gas. The dam standard, from the WVDEP, Div. Of Water and Waste, is available for review at: http://www.dep.wv.gov/WWE/ee/ds/Pages/default.aspx

| Section 7 –Comments – Provide an | y additional comments | concerning th | is project |
|----------------------------------|-----------------------|---------------|------------|
|----------------------------------|-----------------------|---------------|------------|

4701706759

Received Office of Oil & Gas

SEP 08 2015





Section 8 - Application Certification

I hereby certify that the information listed above is true and accurate. I understand that this pit/impoundment is to be constructed only in a location appropriate for the storage of water, including wastewater, and will be constructed in accordance with plans designed and certified by a West Virginia registered professional engineer. I further recognize that all required plans have been submitted to the Office of Oil and Gas. I understand that after construction, and prior to any fluid being placed in the pit/impoundment, it shall be inspected by a West Virginia registered professional engineer to ensure compliance with the certified design and construction plan, and that the professional engineer shall certify that this structure was constructed in accordance with design and construction plans. I understand that such certification shall be in writing to the Chief and that no fluids may be placed in the pit/impoundment until the certification has been filed with the chief. I agree that this pit/impoundment shall be constructed, maintained, operated and closed in accordance with all applicable laws and rules, including the requirements of W. Va. Code R § 35-4-2.

| Name: | Victoria J. Kurnk |
|---------------------------|--|
| Title: | permitting Superison 7007 |
| Signature: | The 12 |
| | |
| Taken, subscribed and swo | rn to before me this, |
| Notary Public: | Tanka luta |
| My commission expires: | 8-24-22 |
| Notary Seal: | OFFICIAL SEAL |
| | STATE OF WEST VIRGINIA NOTARY PUBLIC Pamela Sykes EQT Production PO Box 280 Bridgeport, WV 26330 My Commission Expires Aug. 24, 2022 |

Section 9. Submittal Instructions

Submit original paper copy of application to:

West Virginia Department of Environmental Protection
Office of Oil and Gas
Impoundment Registration
601 57th Street, SE
Charleston WW 25304

Email PDF file format of this application and all related engineering Plans to : Depimpoundments@wv.gov

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SEP 08 2015

| FLOODPLAIN | 1 CONDI | TIONS | |
|--|-----------------|-------|----|
| DO SITE CONSTRUCTON ACTIVITIES TAKE PLACE IN FLOODPLAIN: | | | NO |
| PERMIT NEEDED FROM COUNTY FL | DOOPLAIN COORDI | WTOR: | NO |
| HEC-RAS STUDY COMPLETED: | | | NA |
| FLOODPLAIN SHOWN ON DRAWINGS: | | | NA |
| FIRM MAP NUMBER(S) FOR SITE | 54017C0225C | | |
| ACREAGES OF CONSTRUCTION IN | FLOOOPLAIN: | NA | |

PROPOSED WELL LEGEND

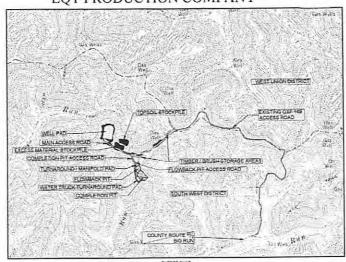
HB 516484 - LAT: 39.213754 / LONG:-80.809732 H7 516483 - LAT: 39.213713 / LONG:-80.809739 513069 - LAT: 39.213673 / LONG:-80.809747 H5 513068 - LAT: 39.213632 / LONG:-80.809754 H4 513067 - LAT: 39.213591 / LONG:-80.809762 513066 - LAT: 39.213550 / LONG:-80.809769 H2 513065 - LAT: 39.213510 / LONG:-80.809777 H1 513064 - LAT: 39.213469 / LONG:-80.809784

MISS Utility of West Virginia 1-800-245-4848 West Virginia State Law (Section XIV: Chapter 24-C) Requires that you call two business days before you dig in the state of West Virginia. IT'S THE LAW!!

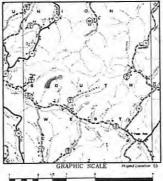


OXF 155

FINAL SITE DESIGN, CONSTRUCTION PLANS, & **EROSION & SEDIMENT CONTROL PLANS** EQT PRODUCTION COMPANY



| | OCATIONS AD 83 | |
|---|-------------------|------------|
| THE RESERVE WHEN THE | LATITUDE | LONGITUDE |
| Seginning Main Access Road 0+00 | 39.214037 | -80 601484 |
| Center of Completion Pit | 49 200547 | -80 80555¥ |
| Center of Flowback Pit | 39 210235 | 80.806013 |
| Center of Well Pad | 39 213727 | -80 RO0737 |
| Beginning of OVF 149 access road at county road 23/2 | 30 203407 | 80,702680 |



Project Contacts

Chris Metzgar - EQT Production Company 304-848-0075 Off

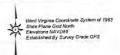
Billy Miller - Landman II-Drilling EQT Production Company 304-627-0357 Mobile 304.848.0039 Office

Surveyor & Engineer

Thomas D. Corathers - PE , PS- Hornor Brothers Engineers 304-624-6445 Office

Design Certification

The drawings, construction notes, and reference diagrams attached hereto have been prepared in accordance with the West Vergras Code of State Ruses, Dosson of Environmental Protection, Office of Oil and Gas 255-421. The information infects a temporary fixe part point. The computed above grade storage volume is less than 15 acre Rest. Billion method purposé. Resc poor al state part point.



MAIN ACCESS ROAD . 0.78 ACRES THAT REMOVAL . D ST ACRES

AFFECTED PROPERTIES SOUTHWEST DISTRICT DOCKHICKIE COUNTY WV

HARESLY LAND & THERE ILC 815 ACRES SITE DISTURBANCE

MAIN ACCESS POAD + 9 IA ACRES
COMPLETION RT ACCESS POAD + 0 TZ ACRES
TOPROL STOCKPILE + 2 SI ACRES
ESCESS MATERIAL STOCKPILE + 2 31 ACRES
TIMEN & STOCKPILE + 2 31 ACRES
TIMEN & STOCKPILE + 2 31 ACRES
MELL PAD 7 21 ACRES

I. L. MORRIS B.NIT. PS ACRES SITE DISTURBAN

CUMPLE FROM PIT ACCESS & TURNAPOURD - 1 M ACRES
COMPLETION PIT - 1 SO NEIRES
FLOMBACK ACCESS I MANAGE D'TURNAPOURD - 5 M ACRES
FLOMBACK PIT - 120 ACRES
FLOMBACK PIT - 120 ACRES



SHEET INDEX

COVER SHEET / LOCATION MAP

COMPLETION PIT PROFILE & CROSS SECTIONS -FLOWBACK PIT PROFILE & CROSS SECTIONS -EXCESS SPOIL PROFILE & CROSS SECTIONS -

EXCESS SPOIL PROPILE A CROSS SECTIONS 70 TOPSOIL STOCKNIE PROPILE A CROSS SECTIONS 71 TOPSOIL STOCKNIE PROPILE A CROSS SECTIONS 72 TO COMPLETION IT ACCESS PROPILE A CROSS SECTIONS 72 TOPSOIL STOCKNIE PROPILE A CROSS SECTIONS 72 TOPSOIL STOCKNIE PROPILE FOR THE PROPILE PROPILE PROPILE PROPILE PROPILE PROPILE PROPILE 75 TOPSOIL STOCKNIE 75 TOPSOIL STOCKNIE PROPILE 7

CONSTRUCTION, GENERAL AND EAS NOT OVERVIEW PLAN – EXISTING ACCESS ROAD FINAL DESIGN PLANS – WELL PAD PROFILE & CROSS SECTIONS



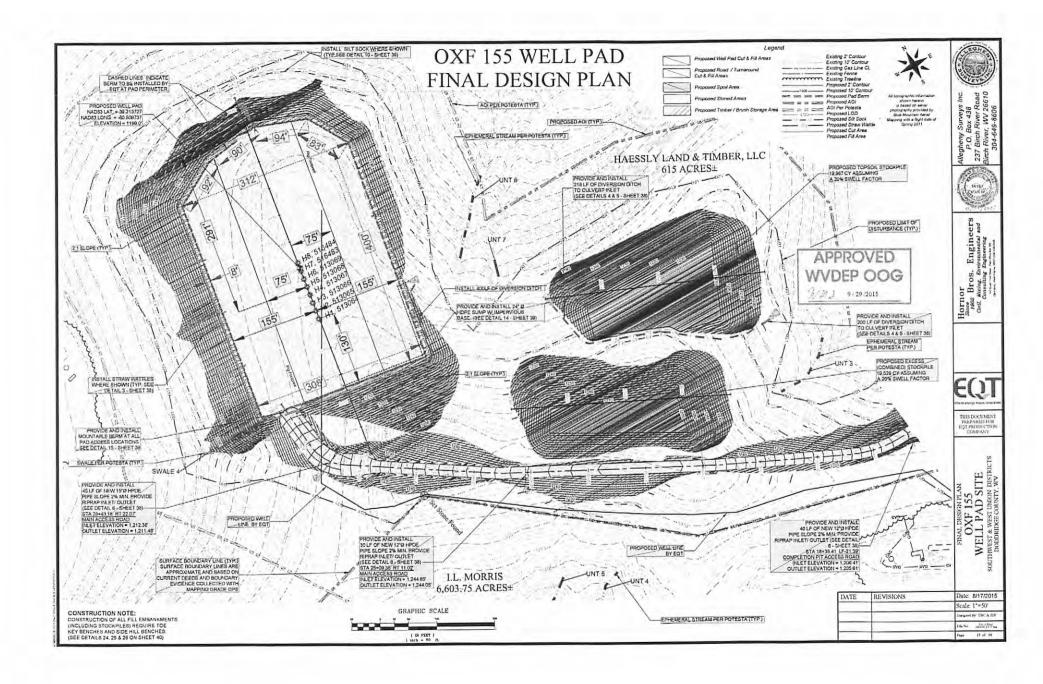
Allegheny Survey P.O. Box 436 237 Birch River F Birch River, WV 2



Hornor Since Bros. Engineers Gon Mang, Environmental and Consulting Engineering

OXF 155
WELL PAD SITE
SOUTHWEST & WEST UNION DISPRICTS
DODDBERGE COUNTY, WV

Date: 8/17/2015 REVISIONS Scale: N.A. Daygool By TRCA RI Mis No. office / This Par 1 of M





| FLOODPLAIN | CONDI | TIONS | ; |
|---|----------------|--------|----|
| DO SITE CONSTRUCTION ACTIVITIES TAKE PLACE IN FLOODPLAIN: | | | NO |
| PERMIT NEEDED FROM COUNTY FLO | COPLAIN COORDS | NATOR. | NO |
| HEC-RAS STUDY COMPLETED: | | N/A | |
| FLOODPLAIN SHOWN ON DRAWINGS: | | NA | |
| FIRM MAP NUMBER(S) FOR SITE | 54017C0225G | | |
| ACREAGES OF CONSTRUCTION IN FL | COOPLAIN: | N/A | |

PROPOSED WELL LEGEND

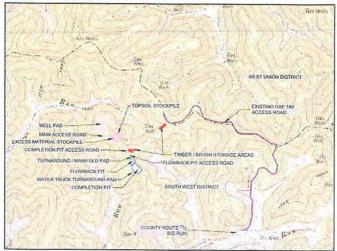
H8 516484 - LAT: 39.213754 / LONG:-80.809732 H7 516483 - LAT: 39.213713 / LONG:-80.809739 513069 - LAT: 39.213673 / LONG:-80.809747 H5 513068 - LAT: 39.213632 / LONG:-80.809754 H4 513067 - LAT: 39.213591 / LONG:-80.809762 H3 513066 - LAT: 39.213550 / LONG:-80.809769 H2 513065 - LAT: 39.213510 / LONG:-80.809777 H1 513064 - LAT: 39.213469 / LONG:-80.809784

MISS Utility of West Virginia 1-800-245-4848 West Virginia State Law (Section XIV: Chapter 24-C) Requires that you call two business days before you dig in the state of West Virginia. IT'S THE LAW!!



OXF 155

FINAL SITE DESIGN, CONSTRUCTION PLANS, & **EROSION & SEDIMENT CONTROL PLANS** EOT PRODUCTION COMPANY



THREE REMOVAL - 23 M ACRES

FINAL REVIEW NOT FOR CONSTRUC

TAMBER PEMOVAL - 081 ACRES

AFFECTED PROPERTIES SOUTHWEST INSTRUCT DORIDGE COUNTY, WY HARSSLY LAND & TAMER US 615 ACHES SITE DISTURBANCE

West Vergrow Codermate System of 1 State Pane Grid Health Evidana MANDEL Established By Survey Granda GPS

Office

Project Confacts

EQT

Chris Metzgar - EQT Production Company 304-848-0075 Off.

Bully Miller - Landman II-Dnilling EQT Production

Surveyor & Engineer

Ben Singleton - PS - Allegheny Surveys Inc. 304-649-8606 Off.

Design Certification

The drawings, construction notes, and reference illustrations attacked hierarch have been prepared in accordance with the West Virgina Code of State Rules.
Division of Environmental Protection, Office of Ol and Gas §35-4-21 The information reflects a temporary lace at poor. The computed above grade storage volume is less than 15 acre feet filling method pumped, frac, point is lined

SHEET INDEX

COVER SHEET LICCATION IMP

DISTRING CONDITIONS FLAY

SCHEDILLE OF QUANTITIES

CONSTRUCTION, GENERAL AND EAS NOTES

DISTRICTION, GENERAL AND EAS NOTES

EXISTING ACCESS ROAD

FINAL DESIGN PLAYS

WELL PAD PROPRIES & CROSS SECTIONS

HELL PAD ACCESS PROFILE & CROSS SECTIONS

FLOWARCK PIT PROFILE & CROSS SECTIONS

FLOWARCK PIT ACCESS PROFILE & A CROSS SECTIONS

FLOWARCK PIT ACCESS PROFILE & A CROSS SECTIONS

FLOWARCK PIT ACCESS PROFILE & CROSS SECTIONS

CONSTRUCTION DETAILS

RECLAMATION FLAMS

39-48

RECLAMATION FLAMS

| DATE | REVISIONS | Date: 8/12/2015 |
|------|-----------|------------------------|
| | | Scale; N.A. |
| | | Designed by Tild & Ext |
| | | Tile No CHATTER |
| | | Page 1-of 46 |



Engineers

FINAL SITE DESIGN COVER SHEET

OXF 155

WELL PAD SITE
SOUTIWEST & WEST UNION DISTRICTS
DODRIDGE COUNT. WY