

#### 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

December 29, 2015

### WELL WORK PERMIT

#### Horizontal 6A Well

This permit, API Well Number: 47-10303108, 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: 513866

Farm Name: EDGELL, KATHY S.

API Well Number: 47-10303108

Permit Type: Horizontal 6A Well

Date Issued: 12/29/2015

## PERMIT CONDITIONS, 7 1 0 3 0 3 1 0 8

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

#### **CONDITIONS**

- 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, 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

Oil and Gas Conservation Commission 601 57<sup>th</sup> Street, SE Charleston, WV 25304 (304)926-0499, Ext 1656 Earl Ray Tomblin, Governor Randy C. Huffman, Cabinet Secretary dep.wv.org

December 1, 2015

Department of Environmental Protection Office of Oil and Gas Charleston, WV 25304

RE: Application for Deep Well Permit - API #47-103-03108

COMPANY: <u>EQT Production Company</u>

FARM: Kathy Edgell WV 513866

COUNTY: Wetzel DISTRICT: Grant QUAD: Big Run

The deep well review of the application for the above company is APPROVED TO BLACK RIVER.

The applicant has complied with the provision of Chapter 22C-9, of the Code of West Virginia, nineteen hundred and thirty-one (1931), as amended, Oil and Gas Conservation Commission as follows:

- 1. Comments to Notice of Deviation filed? YES, resolved in hearing Docket 231-221
- 2. Provided a certified copy of duly acknowledged and recorded consent and easement form from all surface owners; na
- 3. Provided a tabulation of all deep wells within one mile of the proposed location, including the API number of all deep wells, well name, and the name and address of the operator; none
- 4. Provided a plat showing that the proposed location is a distance of 400+ feet from the nearest lease line or unit boundary and showing the following wells drilled to or capable of producing from the objective formation within 3,000 feet of the proposed location.

Sincerely,

Cindy Raines

Environmental Resource Program Administrator

Cindy Raines

(9/13)

| APINO.   | 47     | 103 - | 03108 |
|----------|--------|-------|-------|
| OPERATOR | 513866 |       |       |
| Well Pad | DICT   |       |       |

# STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS W.VA. CODE §22-6A - WELL WORK PERMIT APPLICATION

| 1) Wall Operate                        | FOT Drade at                    | on Company      |                 | 306686             | 103                  | 4        | 1 0      | 54        |
|--|---------------------------------|-----------------|-----------------|--------------------|----------------------|----------|----------|-----------|
| 1) Well Operator:                      | EQ1 Producti                    | on Company      |                 | Operator ID        | County               | District | Quadrar  |           |
|  |                                 |                 |                 |                    |                      |          | 2.22     |           |
| 2) Operator's Well                     | I Number: _                     |                 | 513866          |                    | Well Pad Na          | me:      | BIG7     |           |
| 3) Farm Name/Surfa                     | ace Owner :                     |                 | Edgel           | <u> </u>           | Public Road          | Access:  | Route 15 | 5         |
| 4) Elevation, current                  | ground: _                       | 924'            | E               | levation, proposed | post-constructio     | n:924    |          |           |
| 5) Well Type: (a) Ga                   | ns                              | Oil_            |                 | _Underground Stor  | age                  |          |          |           |
| Ot                                     | her                             |                 |                 |                    |                      |          |          |           |
| (b)                                    | If Gas:                         | Shallow         |                 | Deep               |                      |          |          |           |
|  |                                 | Horizontal _    |                 | _                  |                      | DAI      | L        |           |
| 6) Existing Pad? Yes                   | a av Mai                        | 1000            |                 |                    |                      | DA 1     |          |           |
| ) Existing rau: 16:                    | 5 01 140.                       | yes             |                 |                    |                      | 12-77    | !-/5     |           |
| 7) Proposed Target Target formation is | Formation(s),<br>Point Pleasant |                 |                 | esses and Associa  |                      |          | ssure of | 10296 PSI |
|  |                                 |                 |                 |                    | 10000                |          |          |           |
| B) Proposed Total V                    |                                 |                 |                 |                    | 12633<br>Black River |          |          |           |
| Formation at Total     Proposed Total  |                                 | -11             |                 |                    | 15495                |          |          |           |
| 11) Proposed Horizo                    |                                 |                 | -               |                    | 2,777                |          |          |           |
| 12) Approximate Fre                    |                                 |                 |                 |                    | 298                  |          |          |           |
| 13) Method to Deter                    |                                 |                 | •               |                    | By offset v          | wells    |          |           |
| 14) Approximate Sa                     | Itwater Depths                  | 3;              |                 |                    | 1,987                |          |          |           |
| <ol><li>15) Approximate Co</li></ol>   |                                 |                 |                 |                    | 3, 643, 1153, 15     |          |          |           |
| <ol><li>16) Approximate De</li></ol>   |                                 |                 |                 |                    |                      | None re  | ported   |           |
| 17)Does proposed v                     |                                 | ontain coal sea | ams directly ov |                    |                      |          |          |           |
| adjacent to an a                       |                                 |                 |                 |                    | es                   |          |          |           |
| (a) If Yes, provide Mine Info:         |                                 | -               |                 |                    |                      |          |          |           |
|  |                                 |                 |                 |                    |                      |          |          |           |
|  |                                 | Owner:          |                 |                    |                      |          |          |           |
|  |                                 | Owner.          |                 |                    |                      |          |          | 101       |

Page 1 of 3

| API NO.  | 47    |       | 103 | <br>0.3108 |
|----------|-------|-------|-----|------------|
| OPERATO  | R WEI | LL NO |     | 513866     |
| Mall Par | l Nar | no.   |     | HIG7       |

#### **CASING AND TUBING PROGRAM**

18)

| TYPE           | Size         | New  | Grade       | Weight per ft. | FOOTAGE: For  | INTERVALS:   | CEMENT:           |
|----------------|--------------|------|-------------|----------------|---------------|--------------|-------------------|
| 1              | ( <u>in)</u> | or   |             | (lb/ft)        | Drilling (ft) | Left in Well | Fill- up (Cu.Ft.) |
|                | 77           | Used |             | (institut)     |               | (0)          | <u></u>           |
| Conductor      | 30           | New  | A500        | 118.76         | 60            | 60           | 130 C.T.S.        |
| Fresh Water    | 18 5/8       | New  | J-55        | 87.5           | 398           | 398          | 927 C.T.S.        |
| Coal           | -            | -    | -           | -              | -             | -            | _                 |
| Intermediate   | 13 3/8       | New  | J-55        | 68             | 2,945         | 2,945        | 2,630 C.T.S.      |
| Intermediate 2 | 9 5/8        | New  | HCP-110 EIP | 47             | 11,357        | 11,357       | 2,013 C.T.S.      |
| Production     | 5 1/2        | New  | HCP-110 EIP | 23             | 15,495        | 15,495       | See Note 1        |
| Tubing         |              |      |             |                |               |              |                   |
| Liners         |              |      |             |                |               |              |                   |

Dalt 12-22-16

|                |           |   |                   | V                       | יביני-נו מי    | 7/4                         |
|----------------|-----------|---|-------------------|-------------------------|----------------|-----------------------------|
| TYPE           | Size (in) | <u>Wellbore</u><br><u>Diameter (in)</u> | Wall<br>Thickness | Burst Pressure<br>(psi) | Cement<br>Type | Cement Yield<br>(cu. ft./k) |
|                | 30        | 36                                      | (in)<br>0.375     | 1,050                   | Construction   |                             |
| Conductor      |           | 30                                      | 0.373             | 1,030                   | Constituction  |                             |
| Fresh Water    | 18 5/8    | 24                                      | 0.435             | 2,250                   | * See Note 2   | 1.19                        |
| Coal           |           |   |                   |                         |                |                             |
| Intermediate   | 13 3/8    | 17 1/2                                  | 0.48              | 3,450                   | * See Note 2   | 1.18                        |
| Intermediate 2 | 9 5/8     | 12 3/8                                  | 0.472             | 11,000                  |                | 1.66/1.22                   |
| Production     | 5 1/2     | 8 1/2                                   | 0.415             | 16,508                  |                | 1.57                        |
| 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 500' above the top producing zone.

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

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| 44.44 - CID   | APINO. 41 - 105 -                            | 03108       |
|---|--|-------------|
| (3/13)  | OPERATOR WELL NO.                            | 513866      |
|   | Well Pad Name:                               | BIG7        |
| 19) Describe proposed well work, including the drilling and plugging back of any pilot ho   | ole:   |             |
| Drill a vertical well down to an approximate depth of 12.633'.(200' below top of Trenton)   |  |             |
| Plug back vertical portion of wellbore with a solid cement plug to approximately 11618'.  |  |             |
| Then drill curve and land in point pleasant formation. Drill lateral in Point Pleasant.  20) Describe fracturing/stimulating methods in detail, including anticipated max pressure. | e and max rate:                              |             |
| Hydraulic fracturing is completed in accordance with state regulations using water recycled from previously frac  | clured wells and obtained from               |             |
| freshwater sources. This water is mixed with sand and a small percentage (less than 0.3%) of chemicals (included)   |  |             |
| gelling agent, gel breaker, friction reducer, biocide, and scale Inhibitor), referred to in the industry as a "slickwa  |  |             |
| anticipated internal casing pressure is expected to average approximately 8500 psi, maximum anticipated treat   | <u> </u>                                     |             |
| approximately 100 bpm. Stage lengths vary from 150 to 300 feet. Avorage approximately 200,000 barrels of  | water per stage. Sand sizes                  | <del></del> |
| vary from 100 mesh to 20/40 mesh. Average approximately 200,000 pounds of sand per stage.   |  |             |
|   |  |             |
| 21) Total area to be disturbed, including roads, stockpile area, pits, etc, (acres):  | no additional disturbance                    |             |
| 22) Area to be disturbed for well pad only, less access road (acres):   | no additional distrubance                    |             |
| 23) Describe centralizer placement for each casing string.  |  | <del></del> |
| • 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 50   | 0'.  |             |
| • Intermediate: Bow spring centralizers- One cent at the shoe and one spaced every 50   |  |             |
| Production: One spaced every joint from production casing shoe to KOP   |  |             |
| 24) Describe all cement additives associated with each cement type. Surface   | (Type 1 Cement): 0-3% Calcium Chloride       |             |
| Used to speed the setting of cement slurries.   |  |             |
| 0.25% flake. Loss Circulation Material (LCM) is used to combat the loss of the cement slurry to a   | thief zone.                                  |             |
| Intermediate 1 (Class A Cement): 0-3% Calcium Chloride. Salt is used in shallow, low temperature for  |  |             |
| sturries. 0.25% flake. Loss Circulation Material (LCM) is used to combat the loss of whole drilling   | fluid or cement slurry (not filtrate)        |             |
| to a thief zone. Intermediate 2 (Class H Cement): 0-10% Calcium Chloride. Salt is used in shallow,  |  |             |
| speed the setting of cement2% CJ210 (lengthen thickening time) .2% CJ402 (dispersant makes cement   | easier to mix) .5% CI500 (Fluid loss)        |             |
| .2% CJ710 (Anti-foam)   |  |             |
| Production (Type H Cement): 0-20% Dispersant (makes cement easier to mix). 0-1% Fluid loss 0-1% E   | Expansive Additive.                          |             |
| 0-1% Retarder (Lengthens thickening time) 0-1% Suspending Agent 0-1% Retarder (Legthens thickening time   |  |             |
| ,   | <del></del>                                  |             |
|   |  |             |
| 25) Proposed borehole conditioning procedures.  Surface: Circulate hole clean (Approximate)   | ely 30-45 minutes) rotating & reciprocating  |             |
| one full joint until cuttings diminish at surface. When cuttings returning to surface diminish, continue to circulate   | an additional 5 minutes. A constant rate     |             |
| of higher than expected cuttings volume likely indicates washouts that will not clean up. Intermediate: Circulate   | e hole clean (Approximately 30-45 minutes)   |             |
| rotating & reciprocating one full joint until cuttings diminish at surface. When cuttings returning to surface diminish, co   | ntinue to circulate an additional            |             |
| 5 minutes. If foam drilling, to enhance hole cleaning use a soap sweep or increase injection rate & foam concer-  | ntration. Intermediate: Circulate hole clean | ·····       |
| by pumping 1-3 bottoms up or until shakers are clean. Pump marker sweep with nut plug to determine actual h   | ole washout. Check volume of cuttings        |             |
| coming across the shakers every 15 minutes.   |  |             |

\*Note: Attach additional sheets as needed.

the shakers every 15 minutes.

DNH 12-22-15

<u>Production:</u> Pump marker sweep with nut plug to determine actual hole washout. Calculate a gauge holes bottoms up volume.

Perform a cleanup cycle by pumping 3-5 bottoms up or until the shakers are clean. Check volume of cuttings coming across

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December 18, 2015

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

Re: Casing on Wells (BIG7 - Utica Wells)

Dear Mr. Smith,

EQT is requesting the 18 5/8" surface casing be set at 398' KB, 100' below the deepest fresh water at 298'. We will set the 13 3/8" intermediate one string at 2945' KB, below the porosity zone in the Bayard formation. We will set the 9 5/8" deep intermediate two string at 11,357' KB, 200' below the red/grey transition in the Reedsville. Cement on the 18-5/8" surface and 13-3/8" intermediate one strings will be circulated to surface. Cement on the deep 9-5/8" intermediate two string will be brought to 500' above the shallowest oil or gas bearing zone to approximately 5811'.

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

Sincerely,

Vicki Roark

Permitting Supervisor

Enc.



#### west virginia department of environmental protection

Office of Oil and Gas 601 57th Street, SE Charleston, WV 25301 (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,

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 I (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.

Sincerely,

lames Pelerson

Environmental Resources Specialist / Permitting

Promoting a healthy environment.



#### 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

#### 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 easing 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
- 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 24
  hours.

Promoting a healthy environment.

#### 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. may use the cement blend listed in Findings of Fact No.1 for the cementing of surface and coal protection casing of 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 slurries meet the minimum weight specifications. A sample shall be collected and, if after 8 hours the cement is not set up, additional time will be required. Nabors Completion & Production Services Co. shall keep a record of cement blend jobs in which the cement blend 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 WW-9 (5/13)

|              | Page     | 1   | of | 2      |
|--------------|----------|-----|----|--------|
| API No. 47   | 103      | 3 - |    | 03108  |
| Operator's \ | Well No. |     |    | 513866 |

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

Fluids/Cuttings Disposal & Reclamation Plan

| Operator Name   | EQT Pr  | oduction Company   | OP Code  | 306686   |       |
|---|---|--|--|--|-------|
| Watershed (HUC10) _   | Sheep Run and   | North Fork Fishing Creek   |  | Big Run  | -     |
| Elevation   | 924'  |  | Vetzel District  |  |       |
| Do you anticipate usin  | g more than 5,00  | 00 bbls of water to con  | nplete the proposed well we  | ork? Yes_x_No  |       |
| Will a pit be used ? Ye   | s:No:_  | X  |  |  |       |
| If so please de   | scribe anticipated  | pit waste:   |  |  |       |
| Will a synthetic  | liner be used in the  | ne pit? Yes  | No X If so   | , what ml.?  | -     |
| Proposed Dis  | Land App<br>Undergro  | ound Injection ( UI<br>at API Number<br>Disposal (Supply fo  |  | 14, 8462, 4037   |       |
| Will closed loop system fluid. The drill cuttings are   |   | es, The closed loop syst   | lem will remove drill cuttings fr  | om the drilling  |       |
|   |   |  | based, etc. Air is used to drill the   | Ion-hole sections of the control   | DAH   |
|   |   | A CONTRACTOR OF THE PARTY OF TH |  | e, and Pilot hole sections, water based  | 13-23 |
|   |   |  | mud is used to drill th  |  |       |
|   |   | thetic, petroleum, etc   |  |  |       |
| Additives to be used in   |   |  | lubricant , detergent, detoaming, water. W   | Vater based mud Bante, viscositer,   |       |
| Oil based mud - synthetic ha  | ase oil emulsifier es   | iles, biodegradable oil lubri  | cant , defoaming, walnut shell, sa<br>y control, filtration control, defloce   | tt, x-cide, carbonates.  |       |
| biodegradable oil lubricant . c   | lefoaming, carbonat   | es.  | y control, hitration control, defloca  | ulates,  |       |
|   |   |  |  |  |       |
| Drill cuttings disposal r   | nethod? Leave i   | n pit, landfill, removed   | offsite, etc.  | Landfill   |       |
| - If left in pit and  | d plan to solidily wha  | at medium will be used? (Ce  | ement, Line, sawdust)  | n/a  |       |
| - Landfill or off   | site name/permit r  | number?  | See Attached Li  | st   |       |
| on August 1, 2005, by the Offi<br>provisions of the permit are el<br>pr regulation can lead to enfol<br>I certify under penalty of<br>application form and all attach | ice of Oil and Gas of<br>nforceable by law. V<br>reement action.<br>of law that I have per<br>timents thereto and the<br>the information is tru | f the West Virginia Departm<br>iolations of any term or con-<br>rsonally examined and am f<br>hat, based on my inquiry of<br>ire, accurate, and complete.  | GENERAL WATER POLLUTION nent of Environmental Protection. dition of the general permit and/o amiliar with the information submithose individuals immediately restant aware that there are signification. | I understand that the rother applicable law litted on this sponsible for obtaining |       |
| Company Official Signat   | ure   | ful  | 11   |  |       |
| Company Official (Typed   | Name)   |  | Victoria J. Roark  |  |       |
| Company Official Title  |   | Per  | milting Supervisor   |  |       |
|   |   | V  |  |  |       |
| Subscribed and sworn be   | efore me this   | day of   | December   | , 20 15  |       |
| Kehecoo   | 9. M  | lanstrea   | t.   | Notary Public  |       |
| ly commission expires   |   | 4-1-21   | 0  |  |       |
|   | OFFICIAL SEAL NOTARY PUBLIC STATE OF WEST VIRGING BECCA L. WANST! PO BOX 280 SRIDGEPORT, WY 263:  | SIA<br>REET<br>ANY<br>500  |  |  |       |

| ww-9   |                       | Operato                    | r's Well No.    | 513866         |
|--|-----------------------|----------------------------|-----------------|----------------|
| Proposed Revegetation Treat  | ment: Acres Disturbed | n/a                        | Prevegetation p | oH6.5          |
| Lime3  | Tons/acre or to co    | orrect to pH               | 6.5             |                |
| Fertilize type   | Granular 10-20-20     |                            |                 |                |
| Fertilizer Amount  | 1/3 lbs/acr           | e (500 lbs minimum)        |                 |                |
| Mulch  | 2                     | Tons/acre                  |                 |                |
|  | Se                    | eed Mixtures               |                 |                |
| Tempora<br>Seed Type<br>KY-31  | ry<br>lbs/acre<br>40  | Seed Type<br>Orchard Grass |                 | lbs/acre<br>15 |
| Alsike Clover  | 5                     | Alsike Clover              |                 | 5              |
| Annual Rye   | 15                    |                            |                 |                |
|  |                       |                            |                 |                |
| Attach: Drawing(s) of road, location,pi Photocopied section of involve |                       | d application.             |                 |                |
| Plan Approved by:  |                       |                            |                 |                |
| Comments:  |                       |                            |                 |                |
|  |                       |                            |                 |                |
|  |                       |                            |                 |                |
|  |                       |                            |                 |                |
|  |                       |                            |                 |                |
| Title: All + C   | T                     | Data: 4/                   |                 |                |
| Title: Off + Gar   |                       | Date: <u>4-6-1</u>         |                 |                |
| Field Reviewed? (  | Yes                   | (                          | ) No            |                |

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WV Department of Environmental Protection



November 19, 2015

Cindy Raines WV Dept. of Environmental Protection Division of Oil and Gas 601 57<sup>th</sup> St East Charleston, WV 25304 \$>10303108

Cindy,

Please find attached a page 2 plat for the BIG7 513886 well showing the tick mark for the top and bottom holes per your request.

If you have any questions, please contact me at 304.848.0076

Sincerely,

Vicki Roark Permitting Supervisor - WV

Enc.



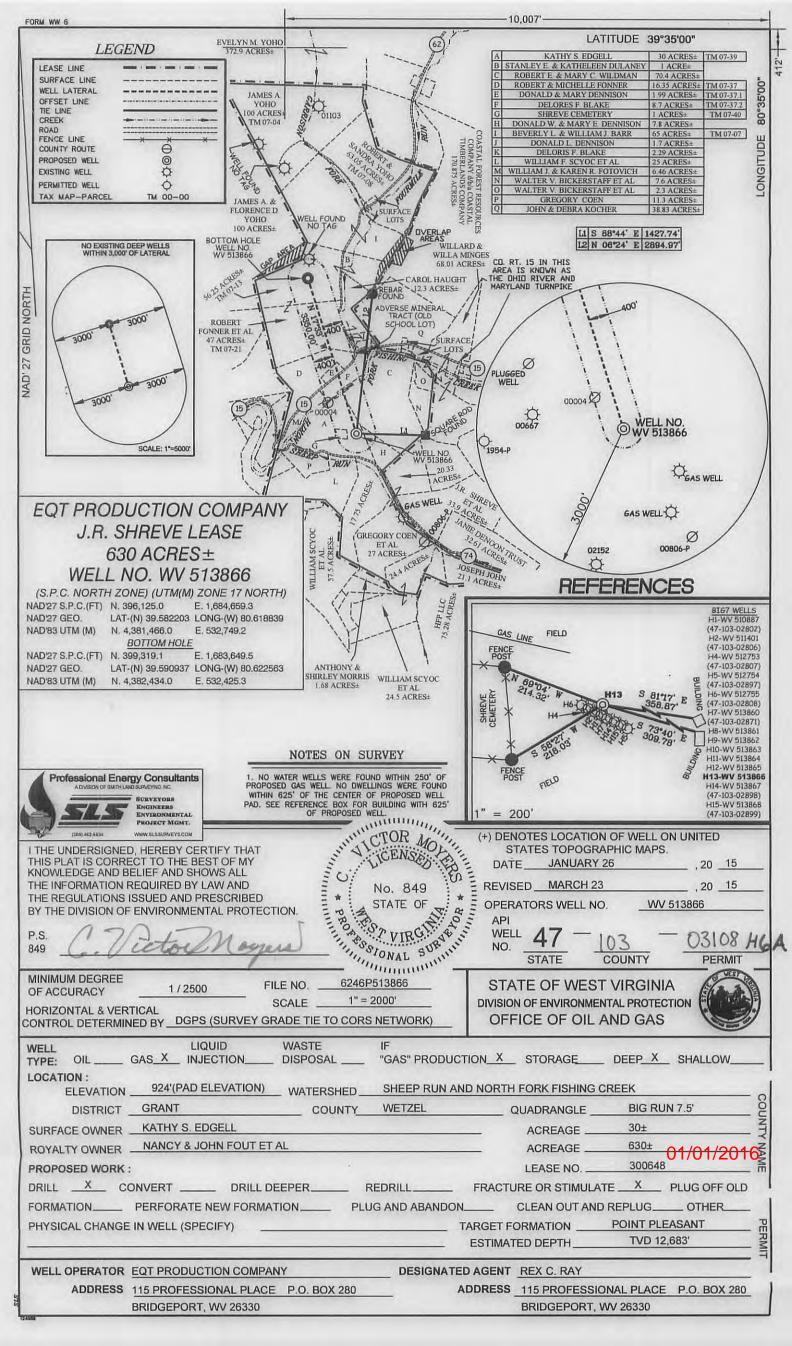
# Site Specific Safety Plan

## EQT BIG 7 Pad

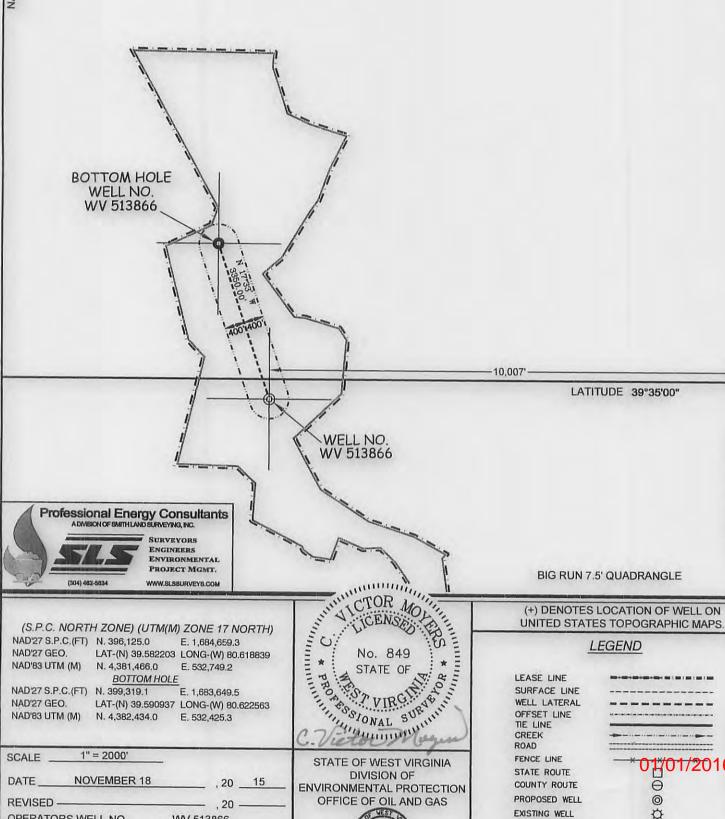
## Pine Grove

Wetzel County, WV

| 5/3866   | For Wells:   |
|--|--|
| Date Prepared: March 26, 2015  EQT Production  Permitting perusor  Title | Date Reviewed: December 17, 2015  WV Oil and Gas Inspector  Oil + Gcr Tape Cite  Title |
| Date   | Date   |



EQT PRODUCTION COMPANY - J.R. SHREVE LEASE 630 ACRES ±-WELL NO. WV 513866



LONGITUDE 80°35'00'

WELL OPERATOR EQT PRODUCTION COMPANY

103

COUNTY

N. 4,382,434.0

1" = 2000'

**NOVEMBER 18** 

NAD'27 S.P.C.(FT) N. 399,319.1

NAD'27 GEO.

SCALE

DATE

API

WELL NO.

REVISED -

OPERATORS WELL NO.

STATE

NAD'83 UTM (M)

ADDRESS 115 PROFESSIONAL PLACE P.O. BOX 280

PERMIT

, 20 \_

, 20

E. 1,683,649.5

E. 532,425.3

WV 513866

LAT-(N) 39.590937 LONG-(W) 80.622563

BRIDGEPORT, WV 26330

DESIGNATED AGENT REX C. RAY

STATE OF WEST VIRGINIA

**ENVIRONMENTAL PROTECTION** 

OFFICE OF OIL AND GAS

115 PROFESSIONAL PLACE P.O. BOX 280 ADDRESS

SURFACE LINE

WELL LATERAL

OFFSET LINE TIE LINE

FENCE LINE

STATE ROUTE

COUNTY ROUTE

PROPOSED WELL

EXISTING WELL

PERMITTED WELL

TAX MAP-PARCEL

CREEK ROAD

BRIDGEPORT, WV 26330

0

0

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

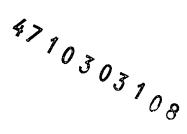
Under the oath required to make the verification on page 1 of this Notice and Application, I depose and say that I am the person who signed the Notice and Application for the Applicant, and that —

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

| Lease | Name | or |
|-------|------|----|
| LCasc | NAME | UL |

| Number | Grantor, Lessor, etc.                           | Grantee, Lessee, etc.                 | Royalty     | Book/Page       |
|--------|---|---------------------------------------|-------------|-----------------|
| 300648 |   |                                       | Min 1/8 pd  |                 |
|        | J. R. Shreve and Nancy Shreve - Lease 1         | South Penn Oil Company                |             | DB46/240        |
|        | J. R. Shreve and Nancy Shreve - Lease 2         | South Penn Oil Company                |             | DB61/552        |
|        | South Penn Oil Company Hope Natural Gas Company |                                       |             | LB9A/230        |
|        | Hope Natural Gas Company                        | Consolidated Gas Supply Corp.         |             | DB233/387       |
|        | Consolidated Gas Supply Corp.                   | Consolidated Gas Transmission Corp    | ) <b>.</b>  | DB66A/69        |
|        |   |                                       |             | WV Sec of State |
|        | Consolidated Gas Transmission Corp.             | CNG Transmission Corp.                |             | Name Chg        |
|        | CNG Transmission Corp.                          | Eastern States Oil & Gas, Inc.        |             | LB76A/232       |
|        | Eastern States Oil & Gas, Inc.                  | Blazer Energy Corp.                   |             | CB12/253        |
|        | Blazer Energy Corp.                             | Eastern States Oil & Gas, Inc.        |             | CB12/259        |
|        | Eastern States Oil & Gas Company                | Equitable Production - Eastern States | : Oil & Gas | CB13/14         |
|        | Equitable Production - Eastern States Oil & Gas | Equitable Production Co.              |             | CB13/14         |
|        | Equitable Production Co.                        | EQT Production Company                |             | CB13/14         |
|        |   |                                       |             |                 |

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

Office of Oil & Gas

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.

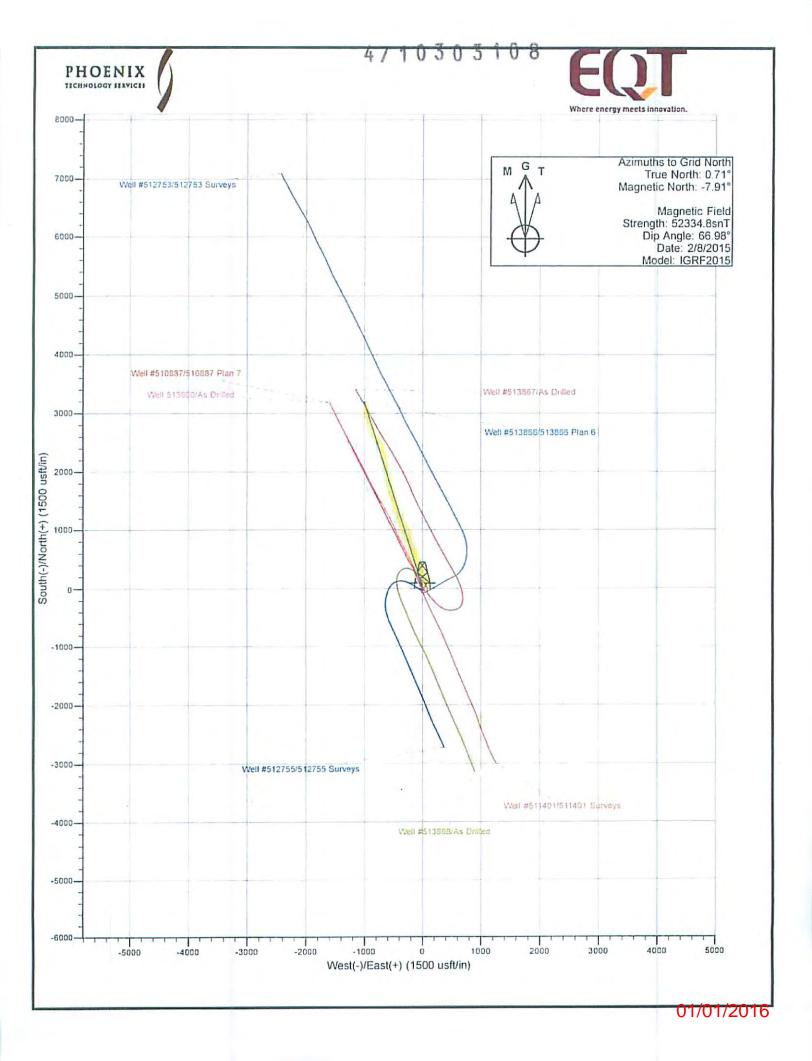
Well Operator:

EOT Production Company

By:

Its: Permitting Supervisor

Page 1 of 1



# 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

#### 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

#### **BROAD STREET ENERGY LLC**

37 West Broad Street
Suite 1100
Columbus, Ohio 43215
740-516-5381
Washington County/Belpre Twp.
Permit # 8462

#### **TRIAD ENERGY**

P.O. Box 430 Reno, OH 45773 740-516-6021 Well 740-374-2940 Reno Office Jennifer Nobel County/Jackson Township Permit # 4037

#### KING EXCAVATING CO.

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

47<sub>10303103</sub>

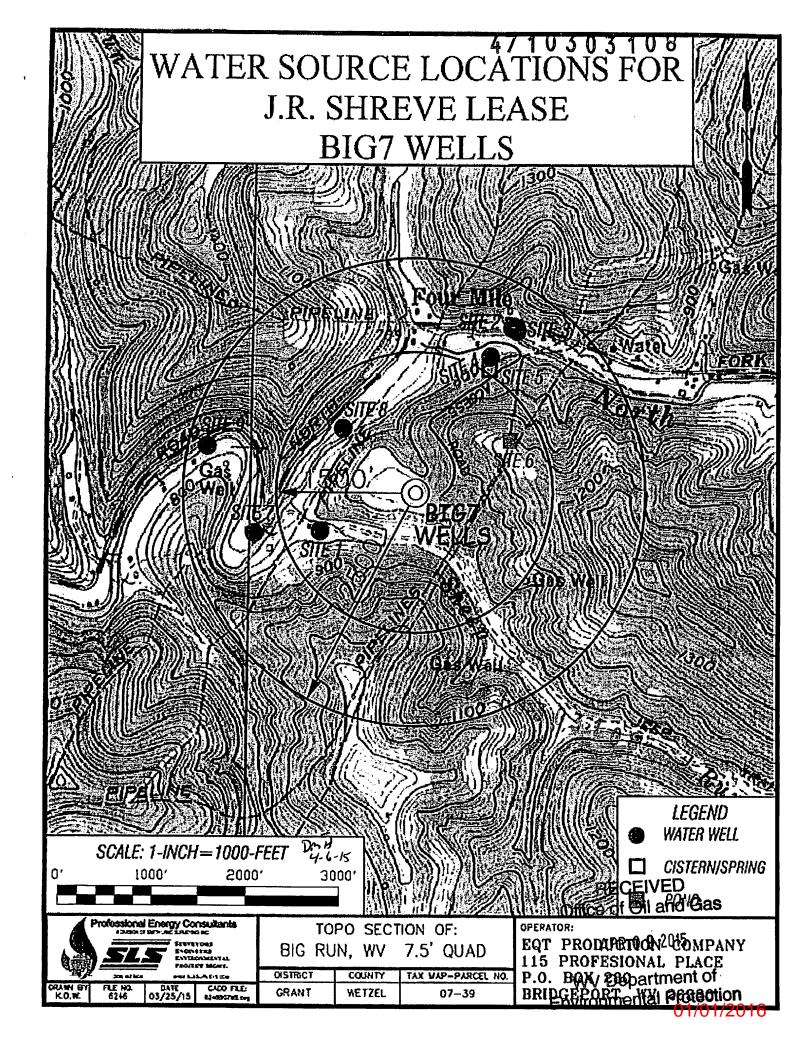
Dm4 4-6-15

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WV Department of Environmental Protection 01/01/2016

4710303108 page of Form WW-9 J.R. SHREVE LEASE (100) PIRELINE NOTE: SEE SITE PLAN **BIG7 FOR COMPLETE CONSTRUCTION & EROSION & SEDIMENT** SCALE: 1"=500' CONTROL DETAILS. 0, 500' 1000 Detail Sketch for Proposed BIG7 Well No.s WV 513866 NOTE: SEE SITE PLAN **BIG7 FOR COMPLETE CONSTRUCTION & EROSION & SEDIMENT** CONTROL DETAILS. CEMETERY DAH Office of Off and Gas 4-6-15 STOCKPILE AREA APR 1 9 2015 Professional Energy Consultants NURVEYORK ENGINEERS ENVIRONMENTAL PROJECT MUMT. My Depayment of TOPO SECTIONS OF BIG RUN VITO THE TIME PERCHAPO 16
TOPO QUADRANGLE CADD FILE: FILE NO. 6246 DATE 03-11-15 Not To Scale





## 

| Material              | <u>Ingredient</u>                        | 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 | Propargyl Alcohol                        | 7647-01-0  |
| Corrosion Inhibitor   | Methanol                                 | 107-19-7   |
| Corrosion Inhibitor   | Guar Gum                                 | 67-56-1    |
| Gelling Agent         | Sodium Persulfate                        | 9000-30-0  |
| Oxidizing Breaker     | Potassium Carbonate                      | 7775-27-1  |
| Buffering Agent       |  | 584-08-7   |

DMH 4-6-15

4710303109

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Office of Oil and Gas

APR 0 9 2015

WV Department of Environmental Protection 01/01/2016

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

|   | ice Certification: MAK  | <b>27</b> 2015   | API No. 47 Operator's Well No.   | 513866  |
|---|---|--|--|---|
|   |   |  | Well Pad Name:   | BIG7  |
| Pursuant to t<br>below for the<br>State:<br>County:<br>District:<br>Quadrangle:<br>Watershed: | tract of land as follows:  WV  Wetzel  Grant  Big Run  Sheep Run and North Fork Fish  West Virginia Code § 22-6A-7(b), ev   | UTM NAD 83 Easting: UTM NAD 83 Easting: UTM NAD 83 Northing: Public Road Access: Generally used farm name: ning Creek Very permit application filed under this   | 47103031 section shall be on a form as   | 532,749.20<br>4,381,466.00<br>Route 15<br>Edgell            |
| information re<br>of giving the<br>requirements<br>Virginia Code<br>of this article           | equired by subsections (b) and (c), surface owner notice of entry to surface of subsection (b), section sixteen of § 22-6A-11(b), the applicant shall have been completed by the applic | ped in subdivisions (1), (2) and (4), su<br>section sixteen of this article; (ii) that it<br>vey pursuant to subsection (a), section<br>of this article were waived in writing by<br>tender proof of and certify to the secre-<br>ant. | the requirement was deemed<br>in ten of this article six-a; or (<br>in the surface owner; and Purs<br>etary that the notice requirem | I satisfied as a result<br>iii) the notice<br>suant to West |
|   | rator has properly served the require   |  |  |   |
|   |   |  |  | OOG OFFICE USE<br>ONLY                                      |
|   |   | NOTICE NOT REQUIRED BECA<br>SEISMIC ACTIVITY WAS COND  | USE NO   |   |
| NOTICE  | OF SEISMIC ACTIVITY or 🔽  |  | USE NO<br>UCTED  | ONLY<br>RECEIVED/NOT  |
| □ NOTICE  | OF SEISMIC ACTIVITY or 🔽  | SEISMIC ACTIVITY WAS COND  | USE NO UCTED AS CONDUCTED  | ONLY RECEIVED/NOT REQUIRED                                  |
| ☐ NOTICE  | OF SEISMIC ACTIVITY or  OF ENTRY FOR PLAT SURVI   | SEISMIC ACTIVITY WAS COND<br>EY or VO PLAT SURVEY W<br>NOTICE NOT REQUIRED BECA<br>NOTICE OF ENTRY FOR PLAT  | USE NO<br>DUCTED<br>AS CONDUCTED<br>LUSE<br>SURVEY   | ONLY RECEIVED/NOT RECEIVED RECEIVED                         |

#### **Required Attachments:**

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

WW-6AC (1/12)

| Certification | of | Noticels | herehve | given: |
|---------------|----|----------|---------|--------|
| Certification | OI | MOTICAIS | negeby  | gryen. |

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

 Well Operator:
 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.c

Bridgeport, WV 26330
Facsimile: 304-848-0040
Email: vroark@eqt.com



Subscribed and sworn before me this

27 day of Manch

7 ,2014

My Commission Expires

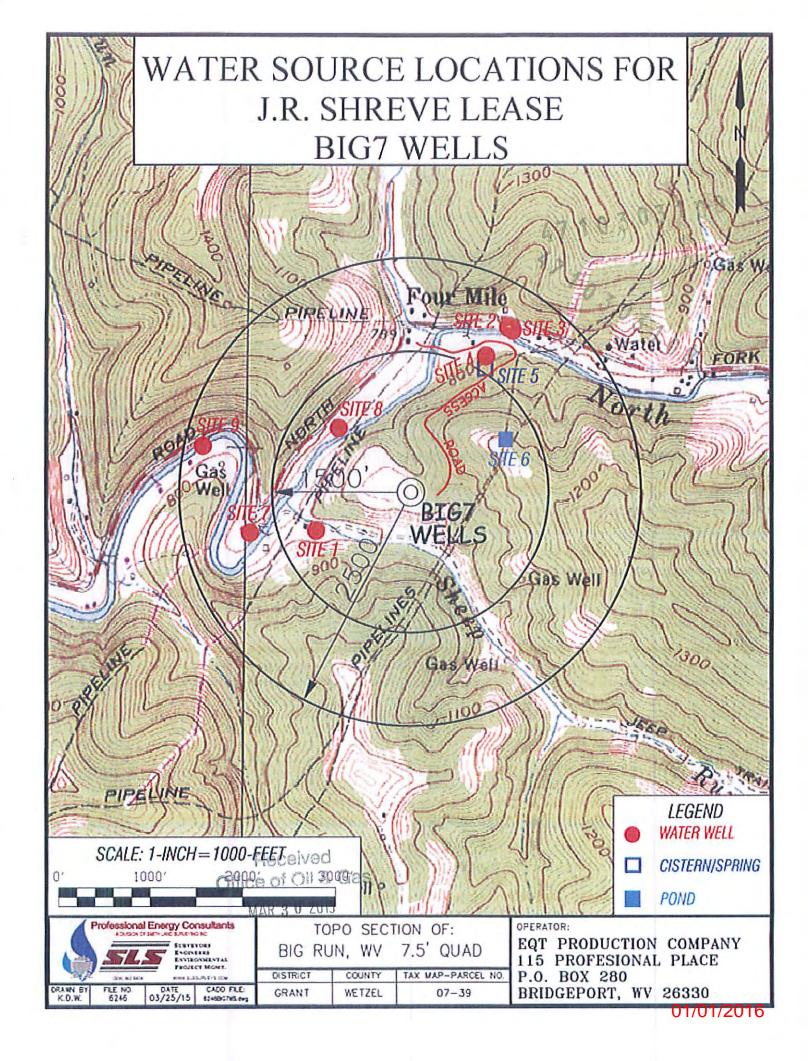
August 24, 2022

#### 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.

4710303108

Office of Oil 2 Gas MAR 3 0 2015



(304) 462-5634 • FAX 462-5858

### WELL INFORMATION AND POTENTIAL WATER WELL SAMPLE DATA SHEET

|   | *>  |
|---|---|
| OPERATOR: EQT Production Company  |   |
| LEASE NAME AND NUMBER:BIG-7 Well F  | ad O  |
| COMMI   | ENTS 47 9 0 3 0 3 1 3 2   |
| The initial field and/or mapping review of the area solisted surface owner(s) that were potentially utilizing | urrounding the proposed well site revealed the below groundwater (potable) for Human Consumption or |
| other purposes within 2500' of the proposed well site.  | (For location of each site see attached area map.)  |
| INDIVIDUAL CONTA  | CTED OR NOTIFIED  |
| Sile: / Spacing ///0' Owner/Occupa  | nl: Gregory Coen  |
| Address: 5477 N. fork Rd. Pine Grove, WV 26419  | Ph: (304)-889-3408  |
| Field Contact Date: 03/12/2014 Located: Yes   |   |
|   | : 1st 03/12/2015 2nd N/A Certified (3rd) 3/13/2015  |
| Comments: Tax Map 12, Parcels 4, 4.1 and 6.1  |   |
| Lat: 39.581138  |   |
| Long: 80.622288   |   |
|   |   |
| Site: 2 Spacing 2060' Owner/Occupa  | nt: Lester Bickerstaff  |
| Address: HC 62 Box 50 Pine Grove, WV 26419  | Ph: (304)-889-2341  |
| Field Contact Date: 03/17/2015 Located: Yes   | Date Located: 03/17/2015 Source: Water Well   |
|   | 1st 03/12/2015 2nd 03/17/2015 Certified (3rd) 3/13/2015   |
| Comments: Tax Map 7, Parcels 25 and 26  |   |
| Lat: 39.587164  |   |
| Long: 80.614977   |   |
| Long. Color 177   |   |
| Sile: 3 Spacing 2060' Owner/Occupa  | nt: Lester Bickerstaff  |
| Address: HC 62 Box 50 Pine Grove, WV 26419  | Ph: (304)-889-2341  |
| Field Contact Date: 03/17/2015 Located: Yes   | Date Located: 03/17/2015 Source: Water Well   |
| If No, declined by who Letter/Notice Date   | 1st 03/12/2015 2nd 03/17/2015 Certified (3rd) 3/13/2015   |
| Comments: Tax Map 7, Parcels 25 and 26  |   |
| Lat: 39.587079  |   |
| Long: 80.614762   |   |
|   |   |
| Site: SpacingOwner/Occupa   | nt: Robert Wildman  |
| Address: 6642 North Fork Rd. Pine Grove, WV 2641  | 9 Ph: (304)-889-2070  |
| Field Contact Date: 03/18/2015 Located: Yes   | Date Located: 03/18/2015 Source: Water Well   |
|   | 1st 03/12/2015 2nd 03/17/2015 Certified (3rd) 3/13/2015   |
| Comments: Tax Map 7, Parcel 41  |   |
| Lat: 39.586311  |   |
| Long: 80.615824   | Received  |
|   |   |
|   | Office of Oil & Gas   |
| 6246 BIG.7 EQT water final pg 1   | 1110 a A 2015   |

MAR 3 0 2015

| Site:                | 5                                       | Spacing    | 1550'       | Owner/Occupa                          | nt:             | Robert Wildn  | nan             |               |                                       |      |
|----------------------|---|------------|-------------|---------------------------------------|-----------------|---------------|-----------------|---------------|---------------------------------------|------|
| Address              |   | •          |             | _<br>ine Grove, WV 2641               |                 |               | Ph:             | (304)-88      | \$9-2070                              |      |
| Field Co             | ontact                                  | Date: 0    | //8/2015 L  | ocated: Yes                           | Date            | Located: 03/1 | 8/2015          | Source:       | Spring                                |      |
| If No. dec           | dined b                                 | y who      |             | _ Letter/Notice Date:                 | 1st 03          | 1/12/2015 2nd | 03/17/2         | 015 Certifie  | ed (3rd) 3/13/                        | 2015 |
| Commer               | nts:                                    | Tax Map 7  | , Parcel 41 |                                       |                 |               |                 |               |                                       |      |
|                      |   | Lat: 39.58 | 5951        |                                       |                 |               |                 |               |                                       |      |
|                      |   | Long: 80.6 | 15856       |                                       |                 |               |                 |               |                                       |      |
| Sile,                | 4                                       | Spacing    | 1150'       | Owner/Occupa                          | nt·             | Pobou Wilde   | n1/121          |               |                                       |      |
| Address              |   |            |             | Officer Occupa<br>Pine Grove, WV 2641 |                 |               | Ph:             | 8-(103)       | 89-2070                               |      |
|                      |   |            |             | ocated: Yes                           |                 |               |                 | 122.7         |                                       |      |
|                      |   |            |             | _ Letter/Notice Date                  | _               |               |                 |               |                                       |      |
|                      |   | Tax Map    |             |                                       | . 101           | 210           |                 |               | , , , , , , , , , , , , , , , , , , , |      |
|                      |   | Lat: 39,58 |             |                                       |                 |               |                 |               |                                       |      |
|                      |   | Long: 80.  |             |                                       |                 |               |                 |               |                                       |      |
| Sito.                | 7                                       | Spacing    | 1000        | Owner/Occupa                          | nt.             | Varan Fatan   | .i.s <b>i</b> . |               |                                       |      |
|                      |   |            |             | ove. IIV 26419                        |                 |               | Ph:             | 1304)-8       | 89-2863                               |      |
|                      |   |            |             | ocated: Yes                           |                 |               | _               |               |                                       |      |
|                      |   |            |             | _ Letter/Notice Date                  |                 |               |                 |               |                                       |      |
|                      |   |            |             | *NOTE* this water                     |                 |               |                 |               |                                       |      |
|                      |   | Lat: 39.58 |             |                                       |                 |               |                 | 17            |                                       |      |
|                      |   | Long: 80.  |             |                                       |                 |               |                 | 70            |                                       |      |
|                      |   | 2018. 00.  | -           |                                       |                 |               | _               | -             | 302                                   |      |
| Site:                | 8                                       | Spacing    | 1045'       | _ Owner/Occupa                        | nt:             | Karen Fotov   | ich             |               | 05                                    | 7    |
|                      |   |            |             | ove, II'I' 26419                      |                 |               | _ Ph: _         | (304)-8       |                                       | 0,8  |
|                      |   |            |             | .ocated: Yes                          |                 |               |                 |               |                                       |      |
|                      |   |            |             | _ Letter/Notice Date                  | : 1st <u>0.</u> | 3/12/2015 2nd | 03/17/2         | 2015 Certific | ed (3rd) 3/13                         | 2013 |
| Comme                | nts:                                    | Tax Map    |             |                                       |                 |               |                 |               |                                       |      |
|                      |   | Lat: 39.58 |             |                                       |                 |               |                 |               |                                       |      |
|                      |   | Long: 80.  | 521464      |                                       |                 |               |                 |               |                                       |      |
| Site:                | Q                                       | Spacino    | 2305'       | Owner/Occupa                          | nt:             | John Titus in | care of         | Shelby Titu   | 5                                     |      |
| Address              |   |            |             | Grove, WV 26419                       |                 |               | Ph:             |               |                                       |      |
|                      |   |            |             | ocated: Yes                           | Date            | Located: 03/2 | 24/2015         |               |                                       | 11   |
|                      |   |            |             | _ Letter/Notice Date                  |                 |               |                 |               |                                       |      |
| Comme                |   |            |             | 5.1 and 35.2                          | -               |               |                 | <del></del>   | · · · · · · · · · · · · · · · · · · · |      |
|                      |   | Lat: 39.58 |             |                                       |                 |               |                 |               |                                       |      |
|                      | *************************************** | Long: 80.6 |             |                                       |                 |               |                 |               |                                       |      |
| 0:1                  | •••                                     | Cassina    |             | OwnerlOccues                          | a.)·            |               |                 |               |                                       |      |
|                      |   | Spacing    |             | Owner/Occupa                          | ···· —          |               | Ph:             |               |                                       |      |
| Address              |   | Date:      |             |                                       | D-1-            | Looplad       | . –             | Source:       |                                       |      |
| けんし せっこ              | Jinad L                                 |            |             | ocated:                               | Date<br>1et     | Locateo       |                 | Cartific      | r4 (3.4)                              |      |
| ii no, dec<br>Commei |   | у wно      |             | _ Lettermonce Date.                   | 151             | 2/10          | -               | Ceruire       | u (3/u)                               |      |
|                      |   |            |             |                                       |                 |               |                 |               |                                       |      |
|                      |   |            |             |                                       |                 |               |                 |               | d                                     |      |
|                      |   |            |             |                                       |                 |               | Office          | of Oil a      | % Gas                                 |      |

6246 BIG 7 EQ1 water final pg 2

MAR 3 0 2015

WW-6A (9-13)

| API NO.  | 47    | -     | 103 | - |        |
|----------|-------|-------|-----|---|--------|
| OPERATOR | R WEL | L NO. |     |   | 513866 |
| Well Pad | Nam   | e:    |     |   | BIG7   |

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

| Notice Time Requirement:   | notice shall be provided no later that  | in the filing date of permit application.   |  |
|--|---|---|--|
| D. CM.   | D D   |   | 2015   |
| MIT  | 1 2 7 20 15 Permit Ap   | TAIL SI   | 7510   |
| Notice of:   | 11 6 8 20 10  |   | 4710303  |
|  |   |   | 10 > -   |
| PERMIT FOR ANY   | ☐ CERTIFICATE   | OF APPROVAL FOR THE   | 205  |
| WELL WORK  |   | ION OF AN IMPOUNDMENT OR PIT  |  |
| WELL WORK  | CONSTRUCTI  | ON OF AN IMPOUNDMENT OR FIT   |  |
| Delivery method pursuant   | to West Virginia Code § 22-6A-  | 10(b)   |  |
| PERSONAL   | REGISTERED  | ☑ METHOD OF DELIVERY T  | 'HAT REQUIRES A  |
| SERVICE  | MAIL  | RECEIPT OR SIGNATURE  | CONFIRMATION   |
|  |   |   |  |
| for the construction of requires a receipt or sigplat to each of the folk the surface tract or trace disturbance as described lessee, in the event the record of the surface trace trace of the surface trace trace of the surface trace trace of the surface of the surfac | an impoundment or pit as regnature confirmation, copies owing persons: (1) The owne ets overlying the oil and gas led in the erosion and sedimer tract of land on which the water of tracts overlying the oil ent, alteration, repair, remove known to the applicant to have led water for consumption by place. (c)(1) If more than the ant may serve the documents ven-a of this code. (2) Notwist the landowner. W. Va. Code | quired by this article shall delive of the application, the erosion are of record of the surface of the easehold being developed by the nt control plan submitted pursual ell proposed to be drilled is local and gas leasehold being developal or abandonment of any impourve a water well, spring or water humans or domestic animals; an ree tenants in common or other of required upon the person description of this de R. § 35-8-5.7.a requires, in pa | con, the applicant for a permit for any well work or er, by personal service or by registered mail or by a and sediment control plan required by section seven a tract on which the well is or is proposed to be loced proposed well work, if the surface tract is to be usen to subsection (c), section seven of this article; (3 ted [sic] is known to be underlain by one or more of ped by the proposed well work, if the surface tract undment or pit as described in section nine of this supply source located within one thousand five ad (6) The operator of any natural gas storage field co-owners of interests described in subsection (b) of ibed in the records of the sheriff required to be article to the contrary, notice to a lien holder is no art, that the operator shall also provide the Well Situater testing as provided in section 15 of this rule. |
| ✓ Application Notice ✓ SURFACE OWNE Name: Address:   | Lamed Lamed   | . Edgell Name: Address:   | ER OR LESSEE  Kathy S. Edgell  6251 Willey Fork Road Burton, WV 26562  |
|  | Buiton, w v   | 0   | <u> </u>   |
|  |   |   | (See attached for additional coal owners).   |
| Name:  |   | 0 COAL OPER   |  |
| Address:   |   | 0 Name:   | 0  |
|  |   | 0 Address:  | 0  |
|  |   | 0   | 0  |
| SURFACE OWNE   | ERS(s) (Road and/or Other D   | visturbance)  | 0  |
| Name:  | Kathy S.  | Edgell  |  |
| Address:   | 6251 Willey For   | k Road SURFACE O  | WNER OF WATER WELL   |
| 2. 5. 75. 14. 14. 14. 14. 14. 14. 14. 14. 14. 14   | Burton, WV  | 26562 AND/OR WATER  |  |
|  |   | tached) Name:   | Gregory Coen   |
| Name:  | 1575 111  | 0 Address:  | 5477 N. Fork Rd.   |
| Address:   |   | 0   | Pine Grove, WV 26419-8337  |
|  |   | 0   | (see attached)   |
|  |   | 0   | 11000  |
| CIDEACE OWN  | ER(s) (Impoundments/Pits)   | OPERATOR (  | OF ANY NATURAL GAS STORAGE FIELD SS  |
|  |   | F 1 11 /17  |  |
| Name:  | Kathy S.  | . Edgell Name:  | MAR 3 0 2015   |
| Address:   | 6251 Willey For   |   | WAILO  |
|  | Burton, W V   | 20502   |  |
|  | (see at   | tached)   |  |
|  |   | *Please attach addit  | tional forms if necessary  |

| WW-6A  |
|--------|
| (8-13) |

| API NO. <u>47</u> - <u>103</u> | <b>-</b> | 0      |
|--------------------------------|----------|--------|
| OPERATOR WELL NO.              |          | 513866 |
| Well Pad Name:                 |          | RIG7   |

#### 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:

This Notice Shall Include:

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

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

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

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

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

#### **Well Location Restrictions**

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

MAR 3 0 2015 structures are inadequate or otherwise require alteration to address the items

WW-6A (8-13) API NO. 47 - 103 - 0

OPERATOR WELL NO. 513866

Well Pad Name: BIG7

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 fection may contact the department to ascertain the names and locations of water testing laboratories in the subject area capable and qualified to test water supplies in accordance with standard accepted methods. In compiling that list of names the department shall consult with the state Bureau for Public Health and local health departments. A surface owner and water purveyor has an independent right to sample and analyze any water supply at his or her own expense. The laboratory utilized by the operator shall be approved by the agency as being certified and capable of performing sample analyses in accordance with this section.

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

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

#### **Written Comment:**

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

Chief, Office of Oil and Gas Department of Environmental Protection 601 57th St. SE Charleston, WV 25304 (304) 926-0450 MAR 3 0 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.

#### 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.

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@il-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 이러운 Gas MAR 3 0 2015

| Notice is hereby giv | en by:                        |            |                                     |
|----------------------|-------------------------------|------------|-------------------------------------|
| Well Operator:       | <b>EQT Production Company</b> | 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
NOTAHY PUBLIC
STATE OF WEST VIRGINIA
MARK R NEELEY
EQT Production
PO Box 280
Bridgeport, WV 26330
ly commission expires Aug. 24, 2022

By: Victoria Roark

Its: Permitting Supervisor

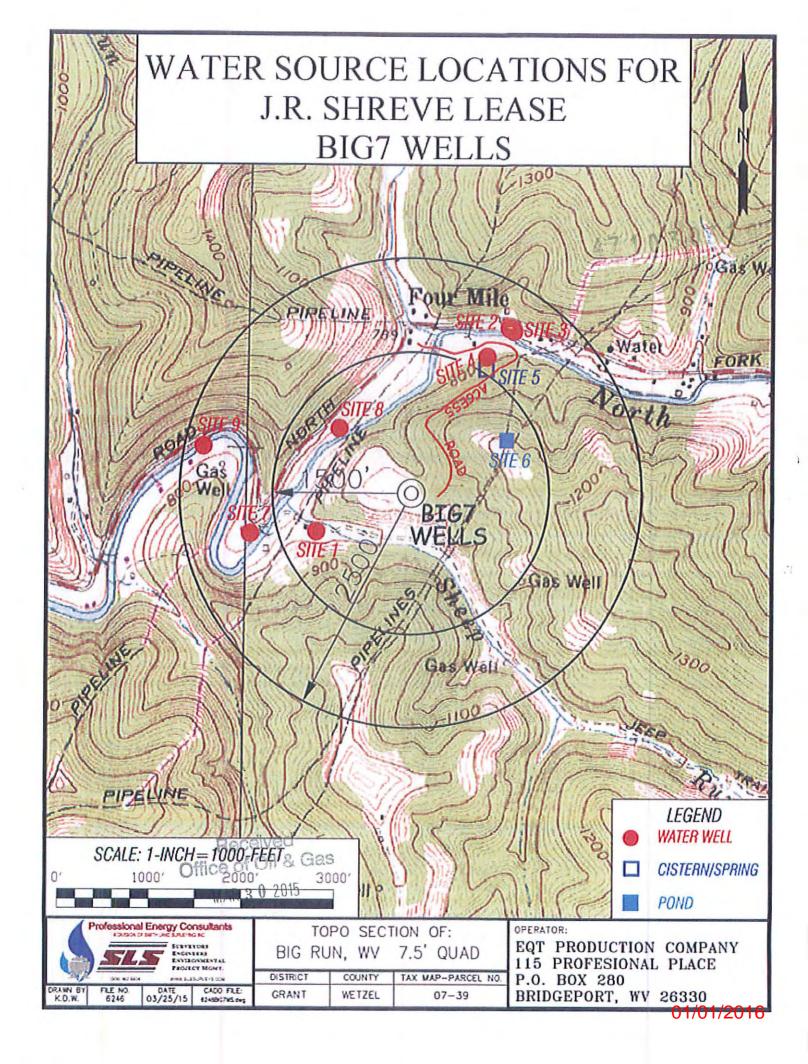
Subscribed and sworn before p 27 d

Notary Pub

My Commission Expir

4710303108

Received
Office of Oil & Gas
MAR 3 0 2015



#### WW6-A

#### Additional Surface Owners (Road & other Disturbance)

Mary Dennison 101 Ford Avenue Weirton, WV 26062

Robert Wildman 6642 North Fork Road Pine Grove, WV 26419

Freda Delores Blake 6617 North Fork Road Pine Grove, WV 26419

Walter Bickerstaff 7006 North Fork Road Pine Grove, WV 26419

#### Additional Surface Owners (Pits or Impoundments)

Robert Wildman 6642 North Fork Road Pine Grove, WV 26419

#### **Additional Coal Owners**

CNX RCPC LLC Engineering Operations & Support Dept. Coal 1000 Consol Energy Drive Canonsburg, PA 15317-6506 Attn: Ryan Arp

CNX Land LLC CNX Center 1000 Consol Energy Drive Canonsburg, PA 15317-6506 Attn: Ryan Arp

Murray American Energy Inc OH C/O Murray Energy Corporation 46226 National Road St. Clairsville, OH 43950

Murray American Energy Inc. WV C/O Murray American Energy 1 Bridge Street Monongah, WV 26554 4710303108

Office of Oil & Gas MAR 3 0 2015

#### **CBM Owner**

CNX Gas Company LLC Engineering Operations Support Dept. Coal 1000 Consol Energy Drive Canonsburg, PA 15317-6506 Attn: Ryan Arp

#### **Water Purveyors**

Robert Wildman 6642 North Fork Rd. Pine Grove, WV 26419

Karen Fotovich P.O. Box 465 Pine Grove, WV 26419

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Office of the 9 Gas MAR 3 0 2015

513866

# 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<br>Date of Notice  | equirement: Notice shall be pressed at 3/17/2015  | ovided at least TEN (10)  Date Permit Ap  |   | ermit application.<br>3/27/15  |  |                   |
|--|---|---|---|--|--|-------------------|
|  |   |   |   | *  |  |                   |
| Delivery meth  | od pursuant to West Virginia  | Code § 22-6A-16(b)  |   |  |  |                   |
| _ HAND   | _ CERT  | TFIED MAIL RETU   | RN  |  |  |                   |
| DELIVE   | RY RECE   | TIFIED MAIL RETU<br>EIPT REQUESTED  |   |  |  |                   |
| receipt reques<br>drilling a horiz<br>of this subsect<br>subsection ma | . Va. Code § 22-6A-16(b), at lead or hand delivery, give the sontal well: Provided, That notice we have a softhe date the notice we have a waived in writing by the se, facsimile number and electrons. | ourface owner notice of<br>the given pursuant to sub<br>as provided to the surfa<br>urface owner. The notic             | its intent to enter upor<br>osection (a), section ten<br>ice owner: Provided, ho<br>ie, if required, shall incl | the surface owner's land<br>of this article satisfies the<br>owever, That the notice re<br>ude the name, address, te | for the purpose of<br>e requirements<br>quirements of this<br>elephone number, |                   |
|  | by provided to the SURFACE O  |   | Name  |  | 4100 400 1000  |                   |
| Name:<br>Address:  |   | Kathy S. Edgell<br>6251 Willey Fork Road  | Name:   |  | Mary Dennison<br>101 Ford Avenue   |                   |
| Addi C33.  | -   | Burton, WV 26562  | Address.  |  | Weirton, WV 26062  |                   |
|  | by given:<br>est Virginia Code § 22-6A-16(b<br>vner's land for the purpose of c   |   |   | follows:   |  | n 8               |
| State:   |   | wv  |   | Easting  | 03031  | 532,749.20        |
| County:  | 7   | Wetzel  | UTM NAD 83  | Northing   |  | 4,381,466.00      |
| District:  |   | Grant   | Pu  | blic Road Access:  |  | Route 15          |
| Quadrangle:  |   | Big Run   | Generally   | used farm name:  |  | Edgell            |
| Watershed:   | Sheep Run and North For   | k Fishing Creek   |   |  |  |                   |
| facsimile num<br>related to hori                                       | est Virginia Code § 22-6A-16(b<br>per and electronic mail address<br>zontal drilling may be obtained<br>57th Street, SE, Charleston, W<br>by given by:<br>EQT Po<br>115 Professiona                     | of the operator and the<br>I from the Secretary, at<br>V 25304 (304-926-0450<br>coduction Company<br>Place, P.O Box 280 | e operator's authorized<br>the WV Department of   | representative. Addition<br>Environmental Protection<br>p.wv.gov/oil-and-gas/pag                                     | al information<br>n headquarters,<br>es/default.aspx<br>115 Professional P     |                   |
|  | Bri   | dgeport, WV 26330   |   |  | Brid   | dgeport, WV 26330 |
| Telephone:   |   | 304-848-0076  | Telephone:  |  |  | 304-848-0076      |
| Email:   |   | vroark@eqt.com  | Email:  |  | <u></u>  | roark@eqt.com     |
| Facsimile:   |   | 304-848-0041  | Facsimile:  | Manning  |  | 304-848-0041      |
| duties. Your po<br>needed to con                                       | ivacy Notice:  Oil and Gas processes your persersonal information may be disoply with statutory or regulators secure your personal information  | closed to other State ag<br>ry requirements, includi  | as name, address and to<br>gencies or third parties i<br>ng Freedom of Informa                                  | n the normal course of but<br>tion Act requests. Our off   | usiness or as<br>lice will   |                   |

01/01/2016

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

# 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 F   | Requirement: Notice shall be provided at least TEN (10  | ) days prior to filing a per  | mit application.  |                                      |
|---|---|---|---|--------------------------------------|
| Date of Notic   |   | plication Filed:  | 3/27/15   |                                      |
| Delivery met  | hod pursuant to West Virginia Code § 22-6A-16(b)  |   |   |                                      |
| □ HAND<br>DELIVE  | RY CERTIFIED MAIL RETURN RECEIPT REQUESTED  | JRN<br>)  |   |                                      |
| receipt reque<br>drilling a hori:<br>of this subsec<br>subsection m<br>and if availab | V. Va. Code § 22-6A-16(b), at least ten days prior to fili sted or hand delivery, give the surface owner notice or zontal well: Provided, That notice given pursuant to surtion as of the date the notice was provided to the surfay be waived in writing by the surface owner. The notile, facsimile number and electronic mail address of the | f its intent to enter upon t<br>bsection (a), section ten c<br>ace owner: Provided, hov<br>ce, if required, shall inclu | the surface owner's land for the purpose of<br>of this article satisfies the requirements<br>vever, That the notice requirements of this<br>de the name, address, telephone number, |                                      |
| Notice is here Name:  | eby provided to the SURFACE OWNER(s):  Robert Wildman   | Name:   | Freda Delores Blak  |                                      |
| Address:  | 6642 North Fork Road  | Address:  | 6617 North Fork Roa   | _ /                                  |
| Address.  | Pine Grove, WV 26419  | / Address.  | Pine Grove, WV 2641   | -                                    |
|   | Vest Virginia Code § 22-6A-16(b), notice is hereby give wner's land for the purpose of drilling a horizontal wel  | l on the tract of land as fo  |   | 532,749.20                           |
| County:   | Wetzel  | UTM NAD 83  | Northing  | 4,381,466.00                         |
| District:   | Grant   | Pub   | lic Road Access:  | Route 15                             |
| Quadrangle:   | Big Run   | Generally u   | ised farm name:   | Edgell                               |
| Watershed:  | Sheep Run and North Fork Fishing Creek  | 4.000   |   |                                      |
| facsimile num<br>related to ho  | hall Include:<br>Vest Virginia Code § 22-6A-16(b), this notice shall inclunter and electronic mail address of the operator and the rizontal drilling may be obtained from the Secretary, as 1 57th Street, SE, Charleston, WV 25304 (304-926-045)   | ne operator's authorized of the WV Department of E  | representative. Additional information Invironmental Protection headquarters,   | 3108                                 |
|   | eby given by:   |   | Artis   | Victoria Poarl                       |
| Well Operator:  | EQT Production Company<br>115 Professional Place, P.O Box 280   | Authorized Representa   |   | Victoria Roarl<br>Place, P.O Box 280 |
| Address:  | Bridgeport, WV 26330  | Address:  |   | Bridgeport, WV 26330                 |
| Telephone:  | 304-848-0076  | Telephone:  |   | 304-848-0076                         |
| Email:  | vroark@egt.com  | Email:  |   | vroark@eqt.com                       |
| Facsimile:  | 304-848-0041  | Facsimile:  |   | 304-848-0042                         |

#### 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.

MAR 3 0 2015

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|---|-----|-----|-----|----|------|---|
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|   |     |     |     |    |      |   |

513866

# 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 Requirement: Notice shall be provided at least TEN (10) days prior to filing a permit application. Date of Notice: 3/17/2015 Date Permit Application Filed: Delivery method pursuant to West Virginia Code § 22-6A-16(b) CERTIFIED MAIL RETURN RECEIPT REQUESTED HAND DELIVERY Pursuant to W. Va. Code § 22-6A-16(b), at least ten days prior to filing a permit application, an operator shall, by certified mail return receipt requested or hand delivery, give the surface owner notice of its intent to enter upon the surface owner's land for the purpose of drilling a horizontal well: Provided, That notice given pursuant to subsection (a), section ten of this article satisfies the requirements of this subsection as of the date the notice was provided to the surface owner: Provided, however, That the notice requirements of this subsection may be waived in writing by the surface owner. The notice, if required, shall include the name, address, telephone number, and if available, facsimile number and electronic mail address of the operator and the operator's authorized representative. Notice is hereby provided to the SURFACE OWNER(s): Name: Walter Bickerstaff Name: Address: Address: 7006 North Fork Road 0 Pine Grove, WV 26419 Notice is hereby given: Pursuant to West Virginia Code § 22-6A-16(b), notice is hereby given that the undersigned well operator has an intent to enter upon the surface owner's land for the purpose of drilling a horizontal well on the tract of land as follows: WV State: 532,749.20 UTM NAD 83 Wetzel 4,381,466.00 County: Northing District: Grant Public Road Access: Route 15 Big Run Generally used farm name: Quadrangle: Edgell Sheep Run and North Fork Fishing Creek Watershed: This Notice Shall Include: Pursuant to West Virginia Code § 22-6A-16(b), this notice shall include the name, address, telephone number, and if available, facsimile number and electronic mail address of the operator and the operator's authorized representative. Additional information related to horizontal drilling may be obtained from the Secretary, at the WV Department of Environmental Protection headquarters, located at 601 57th Street, SE, Charleston, WV 25304 (304-926-0450) or by visiting www.dep.wv.gov/oil-and-gas/pages/default.aspx Notice is hereby given by: **EQT Production Company** Victoria Roark Well Operator: Authorized Representative: 115 Professional Place, P.O Box 280 115 Professional Place, P.O Box 280 Address: Address: Bridgeport, WV 26330 Bridgeport, WV 26330 304-848-0076 304-848-0076 Telephone: Telephone: vroark@egt.com vroark@egt.com Email: Email: 304-848-0041 304-848-0041 Facsimile: Facsimile:

#### 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.

Office of Oil & Gas

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

#### Operator Well No.

513866

#### STATE OF WEST VIRGINIA

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

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

| Date of  | Notice:  | 7AK 27 2015   | _ Date Peri   | mit Applica  | tion Filed:  | MAR  | 211   |  |                               |
|--|--|---|---|--|--|--|---|--|-------------------------------|
| Delivery   | method pursuant  | to West Virginia Code §   | 22-6A-16(c)   |  |  |  |   |  |                               |
| [4]  | CERTIFIED MAIL<br>RETURN RECEIF  | T REQUESTED   | HAND<br>DELIVERY  |  |  |  |   |  |                               |
| return red<br>the plann<br>required t<br>drilling of<br>damages  | ceipt requested or ha<br>ned operation. The no<br>to be provided by su<br>f a horizontal well; ar<br>to the surface affect<br>otices required by th  | 5A-16(c), no later than the or<br>and delivery, give the surface<br>tice required by this subsect<br>assection (b), section ten of the<br>d (3) A proposed surface used<br>by oil and gas operations<br>as section shall be given to the  | te owner whose loction shall includ<br>this article to a single to the extent the compensations and the extent the compensations are the compensations and the extent the compensations are single to the compensations are sincluded as a singl | and will be u<br>e: (1) A copy<br>urface owner<br>tion agreem<br>e damages a   | sed for the dri<br>of this code se<br>whose land w<br>ent containing<br>re compensab   | illing of a hection; (2) vill be used g an offer o   | orizontal we<br>The informat<br>I in conjuncti<br>If compensat<br>rticle six-b of                   | Il notice of<br>ion<br>on with the<br>ion for<br>this chapter. |                               |
| Notice is  | hereby provided to   | he SURFACE OWNER(s)   |   |  |  |  |   |  |                               |
|  | ldress listed in the re  | cords of the sheriff at the ti  |   | /  |  |  |   |  | 0                             |
| Name: _  |  |   | Kathy S. Edgell   | Name:<br>Address:  |  |  |   |  | 0                             |
| Address:   |  |   | Villey Fork Road  | Address.   | -  |  |   |  |                               |
| Pursuant   |  | e § 22-6A-16(c), notice is he   |   |  |  |  |   | anned  | 0                             |
| Pursuant operation State:  | to West Virginia Cod   | e § 22-6A-16(c), notice is he<br>er's land for the purpose of   | ereby given that  |  |  |  |   | anned<br>532,74<br>4,381,46                                    | 9.20                          |
| Pursuant operation   | to West Virginia Cod   | e § 22-6A-16(c), notice is he<br>er's land for the purpose of<br>W  | ereby given that<br>drilling a horizon<br>WV UTM I<br>Vetzel  | ntal well on t   | he tract of land<br>Easting:<br>Northing:  |  |   | 532,74   | 9.20                          |
| Pursuant<br>operation<br>State:<br>County:   | to West Virginia Cod<br>n on the surface own   | e § 22-6A-16(c), notice is he<br>er's land for the purpose of<br>W  | ereby given that<br>drilling a horizon<br>WV UTM I<br>Vetzel<br>Grant Public  | ntal well on t<br>NAD 83   | he tract of land<br>Easting:<br>Northing:<br>s:  |  |   | 532,74<br>4,381,46<br>Rout                                     | 9.20                          |
| Pursuant<br>operation<br>State:<br>County:<br>District:  | to West Virginia Cod<br>n on the surface own<br><br>gle:   | e § 22-6A-16(c), notice is he<br>er's land for the purpose of<br>W  | ereby given that<br>drilling a horizon<br>WV UTM I<br>Vetzel<br>Grant Public<br>g Run Gener   | ntal well on t<br>NAD 83<br>Road Access  | he tract of land<br>Easting:<br>Northing:<br>s:  |  |   | 532,74<br>4,381,46<br>Rout                                     | 9.20<br>6.00<br>e 15          |
| Pursuant operation State: County: District: Quadrang Watershe This Noti Pursuant to be prohorizonta surface a informati headquare                  | gle: sed: Sheep Run ice Shall Include: to West Virginia Cod ovided by W. Va. Cod al well; and (3) A proj ffected by oil and gas ion related to horizon   | e § 22-6A-16(c), notice is he<br>er's land for the purpose of<br>W<br>(<br>Big  | ereby given that furilling a horizor WV UTM I Vetzel Grant Public g Run Gener ek eshall include: (1 e owner whose la pensation agreer he damages are of   | Road Access ally used far Accepy of the and will be used the contain compensable tary, at the V  | he tract of land Easting: Northing: :: m name: is code section sed in conjunct ing an offer of e under article: VV Departmen                     | n; (2) The intion with the compensation of the compensation of the compensation of Environment o | nformation re<br>he drilling of<br>ation for dam<br>is chapter. Ac<br>onmental Pro                  | 532,74 4,381,46 Rout Eduired a ages to the Editional tection   | 9.20<br>5.00<br>e 15<br>Igell |
| Pursuant operation State: County: District: Quadrang Watershe This Noti Pursuant to be prohorizonta surface a informati headquai pages/de Well Ope | gle: gle: gle: sheep Run ice Shall Include: to West Virginia Coc ovided by W. Va. Cod al well; and (3) A proj ffected by oil and ga- ion related to horizon rters, located at 601 efault.aspx. erator: EQT Produ | e § 22-6A-16(c), notice is her's land for the purpose of  W  G  Big  and North Fork Fishing Cree  e § 22-6A-16(c), this notice  e § 22-6A-10(b) to a surface  sosed surface use and comp  operations to the extent the  atal drilling may be obtained  57th Street, SE, Charleston, | ereby given that idrilling a horizon WV UTM I Vetzel Grant Public g Run Gener ek e shall include: (1 e owner whose la pensation agreer he damages are of from the Secre , WV 25304 (304-  | Road Access ally used far on the NAD 83  Road Access ally used far on the NAD 83  A copy of the nad will be used to the NAD 83  Compensable tary, at the NAD 926-0450) on the NAD 84  Address: 1   | he tract of land Easting: Northing: S: m name: is code section sed in conjunct ing an offer of the under article: VV Departmen r by visiting was | d as follow<br>n; (2) The in<br>tion with the<br>compensa<br>six-b of the<br>nt of Environ<br>ww.dep.wy  | nformation re<br>he drilling of<br>ition for dam<br>is chapter. Ac<br>onmental Pro<br>v.gov/oil-and | 532,74 4,381,46 Rout Editional tection                         | 9.20<br>5.00<br>e 15<br>Igell |
| Pursuant operation State: County: District: Quadrang Watershe This Noti Pursuant to be prohorizonta surface a informati headqual pages/de          | gle: gle: gle: sheep Run ice Shall Include: to West Virginia Coc ovided by W. Va. Cod al well; and (3) A proj ffected by oil and ga- ion related to horizon rters, located at 601 efault.aspx. erator: EQT Produ | e § 22-6A-16(c), notice is her's land for the purpose of  W  G  Big  and North Fork Fishing Cree  e § 22-6A-16(c), this notice  e § 22-6A-10(b) to a surface  society of the extent the stall drilling may be obtained  both Street, SE, Charleston,  ction Company                 | ereby given that furilling a horizor WV UTM I Vetzel Grant Public g Run Gener ek e shall include: (1 e owner whose la pensation agreer he damages are of d from the Secre , WV 25304 (304-  | Road Access ally used far on the control of the compensable tary, at the version of the compensable tary at the version of t | he tract of land Easting: Northing: S: m name: is code section sed in conjunct ing an offer of the under article: VV Departmen r by visiting was | d as follow<br>n; (2) The in<br>tion with the<br>compensa<br>six-b of the<br>nt of Environ<br>ww.dep.wy  | nformation re<br>he drilling of<br>ition for dam<br>is chapter. Ac<br>onmental Pro<br>v.gov/oil-and | 532,74 4,381,46 Rout Eduired a ages to the Editional tection   | 9.20<br>5.00<br>e 15<br>Igell |

#### 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 <a href="mailto:deprivacyofficer@wv.gov.">deprivacyofficer@wv.gov.</a>

513866

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

Netics Time Barrier anti-section shall be provided as later than the filing date of permit application

#### NOTICE OF PLANNED OPERATION

| Date of Notice  | MAK <b>27</b> 2015 D  |  |  |   |
|---|---|--|--|---|
| Delivery metho  | od pursuant to West Virginia Code § 22-6A-  | -16(c)   |  |   |
|   | FIED MAIL HAN RN RECEIPT REQUESTED DEL  | ID<br>IVERY  |  |   |
| return receipt re<br>the planned ope<br>required to be po<br>drilling of a horiz<br>damages to the s  | (a. Code § 22-6A-16(c), no later than the date for quested or hand delivery, give the surface owneration. The notice required by this subsection shows the subsection (b), section ten of this artice contal well; and (3) A proposed surface use and contains affected by oil and gas operations to the equired by this section shall be given to the surface.   | r whose land will b<br>all include: (1) A co<br>cle to a surface ow<br>ompensation agree<br>extent the damage  | e used for the opy of this code<br>ner whose land<br>ement containing<br>s are compense  | drilling of a horizontal well notice of section; (2) The information will be used in conjunction with the ng an offer of compensation for able under article six-b of this chapter.   |
| Notice is hereby  | provided to the SURFACE OWNER(s)  |  |  |   |
|   | sted in the records of the sheriff at the time of n   |  |  | 2   |
| Name:   | Mary De   |  |  | Robert Wildman  |
| Address:  | 101 Ford A<br>Weirton, WV   |  | s:   | 6642 North Fork Road Pine Grove, WV 26419   |
| Pursuant to Wes   | given:<br>t Virginia Code § 22-6A-16(c), notice is hereby giv   | ven that the under   |  |   |
| Pursuant to Wes operation on the  | given:<br>t Virginia Code § 22-6A-16(c), notice is hereby gi<br>surface owner's land for the purpose of drilling  | ven that the under<br>a horizontal well o  | n the tract of la  | and as follows:   |
| Pursuant to Wes<br>operation on the<br>State:   | given:<br>t Virginia Code § 22-6A-16(c), notice is hereby gi<br>e surface owner's land for the purpose of drilling<br>WV  | ven that the under   | n the tract of la<br>Easting:  | and as follows: 532,749.20  |
| Pursuant to Wes<br>operation on the<br>State:<br>County:  | given:<br>t Virginia Code § 22-6A-16(c), notice is hereby gives<br>s surface owner's land for the purpose of drilling<br>WV<br>Wetzel   | ven that the under<br>a horizontal well o<br>UTM NAD 83  | n the tract of la<br>Easting:<br>Northing:   | 532,749.20<br>4,381,466.00  |
| Pursuant to Wes<br>operation on the<br>State:<br>County:<br>District:   | given:<br>t Virginia Code § 22-6A-16(c), notice is hereby gi<br>e surface owner's land for the purpose of drilling<br>WV  | ven that the unders<br>a horizontal well of<br>UTM NAD 83<br>Public Road Acce  | n the tract of la<br>Easting:<br>Northing:<br>ess:   | 532,749.20<br>4,381,466.00<br>Route 15  |
|   | given:<br>t Virginia Code § 22-6A-16(c), notice is hereby gives surface owner's land for the purpose of drilling<br>WV<br>Wetzel<br>Grant   | ven that the under<br>a horizontal well o<br>UTM NAD 83  | n the tract of la<br>Easting:<br>Northing:<br>ess:   | 532,749.20<br>4,381,466.00  |
| Pursuant to Wes operation on the State: County: District: Quadrangle: Watershed:  | given: t Virginia Code § 22-6A-16(c), notice is hereby given: surface owner's land for the purpose of drilling WV Wetzel Grant Big Run Sheep Run and North Fork Fishing Creek   | ven that the unders<br>a horizontal well of<br>UTM NAD 83<br>Public Road Acce  | n the tract of la<br>Easting:<br>Northing:<br>ess:   | 532,749.20<br>4,381,466.00<br>Route 15  |
| Pursuant to Wes operation on the State: County: District: Quadrangle: Watershed: This Notice Shall  | given: t Virginia Code § 22-6A-16(c), notice is hereby given: surface owner's land for the purpose of drilling WV Wetzel Grant Big Run Sheep Run and North Fork Fishing Creek   | ven that the under<br>a horizontal well of<br>UTM NAD 83<br>Public Road Acco<br>Generally used f   | n the tract of la<br>Easting:<br>Northing:<br>ess:<br>arm name:  | 532,749.20<br>4,381,466.00<br>Route 15  |
| Pursuant to Wes operation on the State: County: District: Quadrangle: Watershed: This Notice Shall Pursuant to Wes  | given: t Virginia Code § 22-6A-16(c), notice is hereby given: surface owner's land for the purpose of drilling  WV  Wetzel  Grant  Big Run  Sheep Run and North Fork Fishing Creek  | ven that the unders<br>a horizontal well of<br>UTM NAD 83<br>Public Road Acco<br>Generally used f  | n the tract of la<br>Easting:<br>Northing:<br>ess:<br>earm name:   | 532,749.20<br>4,381,466.00<br>Route 15<br>Edgell<br>on; (2) The information required  |
| Pursuant to Wes operation on the State: County: District: Quadrangle: Watershed: This Notice Shall Pursuant to Wes to be provided b horizontal well; a  | given: t Virginia Code § 22-6A-16(c), notice is hereby given: surface owner's land for the purpose of drilling  WV  Wetzel  Grant  Big Run  Sheep Run and North Fork Fishing Creek  I Include: t Virginia Code § 22-6A-16(c), this notice shall include; y W. Va. Code § 22-6A-10(b) to a surface owner and (3) A proposed surface use and compensatio  | ven that the under<br>a horizontal well or<br>UTM NAD 83<br>Public Road Acco<br>Generally used f<br>clude: (1)A copy of<br>whose land will be<br>n agreement conta   | n the tract of la Easting: Northing: ess: arm name: this code section used in conjuntining an offer of   | 532,749.20 4,381,466.00 Route 15 A Bedgell  on; (2) The information required action with the drilling of a of compensation for damages to the   |
| Pursuant to Wes operation on the State: County: District: Quadrangle: Watershed: This Notice Shall Pursuant to Wes to be provided b horizontal well; a surface affected   | given: t Virginia Code § 22-6A-16(c), notice is hereby given: surface owner's land for the purpose of drilling  WV  Wetzel  Grant  Big Run  Sheep Run and North Fork Fishing Creek  I Include: t Virginia Code § 22-6A-16(c), this notice shall include; y W. Va. Code § 22-6A-10(b) to a surface owner and (3) A proposed surface use and compensatio by oil and gas operations to the extent the dama   | ven that the under<br>a horizontal well of<br>UTM NAD 83<br>Public Road Acco<br>Generally used f<br>clude: (1)A copy of<br>whose land will be<br>n agreement conta   | n the tract of la Easting: Northing: ess: arm name: this code section used in conjunt ining an offer coole under article   | 532,749.20 4,381,466.00 Route 15 Fdgell  on; (2) The information required action with the drilling of a of compensation for damages to the e six-b of this chapter. Additional  |
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| Pursuant to Wes operation on the State: County: District: Quadrangle: Watershed:  This Notice Shall Pursuant to Wes to be provided b horizontal well; a surface affected information relatheadquarters, lo  | given: t Virginia Code § 22-6A-16(c), notice is hereby given: surface owner's land for the purpose of drilling  WV  Wetzel  Grant  Big Run  Sheep Run and North Fork Fishing Creek  I Include: t Virginia Code § 22-6A-16(c), this notice shall include: y W. Va. Code § 22-6A-10(b) to a surface owner and (3) A proposed surface use and compensatio 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                              | ven that the under a horizontal well of UTM NAD 83  Public Road According Generally used for the clude: (1)A copy of whose land will be a greement contained are compensal the Secretary, at the   | n the tract of la Easting: Northing: ess: arm name: this code section used in conjunt ining an offer coole under article www Department  | 532,749.20 4,381,466.00 Route 15 Fdgell  on; (2) The information required action with the drilling of a of compensation for damages to the e six-b of this chapter. Additional ent of Environmental Protection  |
| Pursuant to Wes operation on the State: County: District: Quadrangle: Watershed:  This Notice Shall Pursuant to Wes to be provided b horizontal well; a surface affected information relationed beadquarters, lo pages/default.as                                 | given: t Virginia Code § 22-6A-16(c), notice is hereby given: surface owner's land for the purpose of drilling  WV  Wetzel  Grant  Big Run  Sheep Run and North Fork Fishing Creek  I Include: t Virginia Code § 22-6A-16(c), this notice shall include: y W. Va. Code § 22-6A-10(b) to a surface owner and (3) A proposed surface use and compensatio 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 (px.)                        | ven that the undersa horizontal well of UTM NAD 83  Public Road According Generally used for whose land will be a greement contained are compensal the Secretary, at the 1004 (304-926-0450)   | the tract of la Easting: Northing: ess: earm name: this code section used in conjunt ining an offer of the under article www Department or by visiting years   | 532,749.20 4,381,466.00 Route 15 Edgell  on; (2) The information required action with the drilling of a of compensation for damages to the e six-b of this chapter. Additional ent of Environmental Protection www.dep.wv.gov/oil-and-gas/  |
| Pursuant to Wes operation on the State: County: District: Quadrangle: Watershed:  This Notice Shall Pursuant to Wes to be provided b 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  WV  Wetzel  Grant  Big Run  Sheep Run and North Fork Fishing Creek  I Include: t Virginia Code § 22-6A-16(c), this notice shall include: y W. Va. Code § 22-6A-10(b) to a surface owner and (3) A proposed surface use and compensatio 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                              | ven that the undersa horizontal well of UTM NAD 83  Public Road According Generally used for the clude: (1)A copy of whose land will be a greement containes are compensal the Secretary, at the source of the compensal for the Secretary of the compensal for the compensal for the Secretary of the compensal for the Secretary of the compensal for the compen | this code sections and the tract of late the Easting: Northing: Sess: Se | sind as follows:  532,749.20 4,381,466.00 Route 15 Edgell  on; (2) The information required action with the drilling of a of compensation for damages to the e six-b of this chapter. Additional ent of Environmental Protection  |
| Pursuant to Wes operation on the State: County: District: Quadrangle: Watershed:  This Notice Shall Pursuant to Wes to be provided b horizontal well; a surface affected information relation headquarters, lo pages/default.as                                   | given: t Virginia Code § 22-6A-16(c), notice is hereby given: surface owner's land for the purpose of drilling  WV  Wetzel  Grant  Big Run  Sheep Run and North Fork Fishing Creek  I Include: t Virginia Code § 22-6A-16(c), this notice shall include: y W. Va. Code § 22-6A-10(b) to a surface owner and (3) A proposed surface use and compensatio 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 253-10x.  EQT Production Company | ven that the undersa horizontal well of UTM NAD 83  Public Road According Generally used for whose land will be a greement contained are compensal the Secretary, at the 1004 (304-926-0450)   | this code sections and the tract of late the Easting: Northing: Sess: Se | sind as follows:  532,749.20 4,381,466.00 Route 15 7 7 7 7 7 7 7 7 7 8 8 8 8 8 8 8 8 8 8 8  |
| Pursuant to Wes operation on the State: County: District: Quadrangle: Watershed:  This Notice Shall Pursuant to Wes to be provided b horizontal well; a surface affected information relations and the sadquarters, lopages/default.as  Well Operator: Telephone: | given: t Virginia Code § 22-6A-16(c), notice is hereby given: surface owner's land for the purpose of drilling  WV  Wetzel  Grant  Big Run  Sheep Run and North Fork Fishing Creek  I Include: t Virginia Code § 22-6A-16(c), this notice shall include: 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  EQT Production Company 304-848-0082  Vroark@eqt.com                       | ven that the undersa horizontal well of UTM NAD 83  Public Road According Generally used for whose land will be a greement containes are compensal he Secretary, at the 104 (304-926-0450).  Address: Bridgeport,  | n the tract of la Easting: Northing: ess: earm name: this code section used in conjunt ining an offer of the under article www Department or by visiting years 115 Profession www 26330  | sind as follows:  532,749.20 4,381,466.00 Route 15 Fedgell  2007; (2) The information required action with the drilling of a of compensation for damages to the e six-b of this chapter. Additional ent of Environmental Protection www.dep.wv.gov/oil-and-gas/  and Place, P.O. Box 280 Peceived |

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 <a href="mailto:depprivacyofficer@wv.gov.">depprivacyofficer@wv.gov.</a>

513866

#### STATE OF WEST VIRGINIA

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

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

|   | 1141 6 1 2019   | Date Permit Appli   | cation Filed:  | 201 V 1  | 27701   |  |
|---|---|---|--|--|---|--|
| Delivery method   | pursuant to West Virginia Code § 22-6A  | -16(c)  |  |  | æ 1 20 10   | 9  |
| CERTIFI<br>RETURN   |   | ND<br>LIVERY  |  |  |   |  |
| return receipt requ<br>the planned operat<br>required to be prov<br>drilling of a horizor<br>damages to the sur   | Code § 22-6A-16(c), no later than the date for ested or hand delivery, give the surface owner ion. The notice required by this subsection should be subsection (b), section ten of this artestal well; and (3) A proposed surface use and offace affected by oil and gas operations to the uired by this section shall be given to the surface.   | er whose land will be all include: (1) A colicle to a surface own compensation agreement the damage   | e used for the drilli<br>py of this code sec<br>ner whose land wil<br>ment containing a<br>s are compensable   | ing of a horiz<br>tion; (2) The<br>I be used in c<br>an offer of co<br>under articl  | contal well noti<br>information<br>conjunction wit<br>mpensation fo<br>e six-b of this c                    | ce of<br>th the<br>r<br>rhapter.                 |
| Notice is hereby p  | rovided to the SURFACE OWNER(s)   |   |  |  |   |  |
| (at the address liste   | ed in the records of the sheriff at the time of r   | notice):  |  |  |   |  |
| Name:   | Freda Delore  | s Blake / Name:   |  |  | V   | /alter Bickerstaff                               |
|   | 6617 North Fo   | rk Road Addres  | s:   |  | 7006  | North Fork Road                                  |
| Address:  |   | in mode   |  |  | Di  | Grove, WV 26419                                  |
| Notice is hereby gi<br>Pursuant to West V<br>operation on the su  | /irginia Code § 22-6A-16(c), notice is hereby g<br>urface owner's land for the purpose of drilling  | iven that the under   | the tract of land  |  |   | ı  |
| Notice is hereby gi<br>Pursuant to West V<br>operation on the so<br>State:<br>County:   | ven:<br>/irginia Code § 22-6A-16(c), notice is hereby g<br>urface owner's land for the purpose of drilling<br>WV<br>Wetzel  | iven that the under<br>a horizontal well o<br>UTM NAD 83  | the tract of land a<br>Easting:<br>Northing:   |  |   | 532,749.20<br>4,381,466.00                       |
| Notice is hereby gi<br>Pursuant to West V<br>operation on the st<br>State:<br>County:   | ven:<br>/irginia Code § 22-6A-16(c), notice is hereby g<br>urface owner's land for the purpose of drilling<br>WV<br>Wetzel<br>Grant   | iven that the under<br>a horizontal well o<br>UTM NAD 83<br>Public Road Acc   | Easting: Northing:   |  |   | 532,749.20<br>4,381,466.00<br>Route 15           |
| Notice is hereby gi<br>Pursuant to West V<br>operation on the su<br>State:<br>County:<br>District:  | ven:<br>/irginia Code § 22-6A-16(c), notice is hereby g<br>urface owner's land for the purpose of drilling<br>WV<br>Wetzel  | iven that the under<br>a horizontal well o<br>UTM NAD 83  | Easting: Northing:   |  |   | 532,749.20<br>4,381,466.00                       |
| Notice is hereby gi<br>Pursuant to West V<br>operation on the st<br>State:<br>County:<br>District:<br>Quadrangle:<br>Watershed:<br>This Notice Shall In<br>Pursuant to West V<br>to be provided by V<br>horizontal well; and<br>surface affected by<br>information related<br>headquarters, local | ven:  //irginia Code § 22-6A-16(c), notice is hereby gurface owner's land for the purpose of drilling  WV  Wetzel  Grant  Big Run  Sheep Run and North Fork Fishing Creek  //irginia Code § 22-6A-16(c), this notice shall in  W. Va. Code § 22-6A-10(b) to a surface owner  d (3) A proposed surface use and compensation oil and gas operations to the extent the damed to horizontal drilling may be obtained from ted at 601 57th Street, SE, Charleston, WV 25   | iven that the under to a horizontal well o UTM NAD 83  Public Road Acc Generally used to acclude: (1)A copy of the whose land will be ton agreement conta                                     | Easting:  Northing:  Sess:  arm name:  this code section; used in conjunction ining an offer of coole under article size WV Department                                       | (2) The information with the dompensation x-b of this choof Environments             | mation require<br>Irilling of a<br>Infor damages t<br>Inapter. Addition                                     | 532,749.20<br>4,381,466.00<br>Route 15<br>Edgell |
| Notice is hereby gi Pursuant to West V operation on the st State: County: District: Quadrangle: Watershed:  This Notice Shall Ir Pursuant to West V to be provided by V horizontal well; and surface affected by information related headquarters, local pages/default.aspx                       | ven:  Virginia Code § 22-6A-16(c), notice is hereby gurface owner's land for the purpose of drilling  WV  Wetzel  Grant  Big Run  Sheep Run and North Fork Fishing Creek  Virginia Code § 22-6A-16(c), this notice shall in  W. Va. Code § 22-6A-10(b) to a surface owner  d (3) A proposed surface use and compensation  oil and gas operations to the extent the dame  d to horizontal drilling may be obtained from  ted at 601 57th Street, SE, Charleston, WV 25 | iven that the under a horizontal well o UTM NAD 83  Public Road Acc Generally used to a local decrease and will be on agreement contages are compensathe Secretary, at the 304 (304-926-0450) | the tract of land a Easting: Northing: Sess: Farm name:  this code section; used in conjunction ining an offer of coole under article size WV Department or by visiting www. | (2) The information with the dompensation x-b of this chof Environmental w.dep.wv.go | mation require<br>frilling of a<br>n for damages t<br>napter. Addition<br>ental Protectio<br>v/oil-and-gas/ | 532,749.20<br>4,381,466.00<br>Route 15<br>Edgell |
| Notice is hereby gi Pursuant to West V operation on the si State: County: District: Quadrangle: Watershed:  This Notice Shall Ir Pursuant to West V to be provided by V horizontal well; and surface affected by information related headquarters, local pages/default.aspx Well Operator:        | ven:  //irginia Code § 22-6A-16(c), notice is hereby gurface owner's land for the purpose of drilling  WV  Wetzel  Grant  Big Run  Sheep Run and North Fork Fishing Creek  //irginia Code § 22-6A-16(c), this notice shall in  W. Va. Code § 22-6A-10(b) to a surface owner  d (3) A proposed surface use and compensation oil and gas operations to the extent the damed to horizontal drilling may be obtained from ted at 601 57th Street, SE, Charleston, WV 25   | iven that the under to a horizontal well o UTM NAD 83  Public Road Acc Generally used to acclude: (1)A copy of the whose land will be ton agreement conta                                     | Easting: Northing: Sess: Earm name:  this code section; used in conjunction ining an offer of coole under article size WV Department or by visiting www.                     | (2) The information with the dompensation x-b of this chof Environmental w.dep.wv.go | mation require<br>frilling of a<br>n for damages t<br>napter. Addition<br>ental Protectio<br>v/oil-and-gas/ | 532,749.20<br>4,381,466.00<br>Route 15<br>Edgell |

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

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

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



#### WEST VIRGINIA DEPARTMENT OF TRANSPORTATION

Earl Ray Tomblin Governor

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

April 29, 2013

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

4710303108

**BIG7 Well Site Wetzel County** Subject: DOH Permit for the

BIG7H4 512753 BIG7H2 511401 BIG7H3 512752 BIG7H1 510887 BIG7H7 513860 BIG7H8 513861 BIG7H6 512755 BIG7H5 512754 BIG7H11 513864 BIG7H12 513865 BIG7H9 513862 BIG7H10 513863 BIG7H15 513868 BIG7H16 513869 BIG7H14 513867 BIG7H13 513866

BIG7H18 513871 BIG7H17 513870

Dear Dr. Martin,

Please find a revised list of well sites that are existing or proposed for the BIG7 Pad in Wetzel County and will be accessed from existing Permit # 06-12-0359 issued to EQT Production Company for access to the State Road for a well site located off of Wetzel County Route 15 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

Nick Bumgardner

**EOT Production Company** 

CH, CHH, OM, D-6

File

E.E.O./AFFIRMATIVE ACTION EMPLOYER

Received Office of Oil & Gas MAR 3 0 2015

# Anticipated Frac Additives Chemical Names and CAS numbers

4710303108

| Material              | Ingredient                               | CAS Number   |
|-----------------------|--|--------------|
| iviaterial            | ingredient                               | CAS Hallibel |
|                       |  |              |
| 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 | Propargyl Alcohol                        | 7647-01-0    |
| Corrosion Inhibitor   | Methanol                                 | 107-19-7     |
| Corrosion Inhibitor   | Guar Gum                                 | 67-56-1      |
| Gelling Agent         | Sodium Persulfate                        | 9000-30-0    |
| Oxidizing Breaker     | Potassium Carbonate                      | 7775-27-1    |
| Buffering Agent       |  | 584-08-7     |

Received Office of Oil & Gas MAR 3 0 2015

## BIG 7 AS-BUILT SITE PLAN **EQT PRODUCTION COMPANY**

API NO. 47-103-02802, 47-103-02806, 47-103-02807, 47-103-02808, 47-103-02871, 47-103-02897, 47-103-02899, & 47-103-02898. PROPOSED WELL H13 WV513866

SITUATE ON THE WATERS OF SHEEP RUN AND NORTH FORK FISHING CREEK IN GRANT DISTRICT, WETZEL COUNTY, WEST VIRGINIA.

LOCATION MAP

1 - COVER SHEET 2 - CONSTRUCTION NOTES 3 - INDEX SHEET 4 - WELL PAD AS-BUILT 6- ASSOCIATED PIT AS-BUILT 7- BIG 7 ACCESS ROAD A . RIG 7 ACCESS DOAD 9 - BIG 7 ACCESS ROAD 10- BIG 7 PIT RECLAMATION 11 - BIG 7 ROAD PROFILE 13 - CONSTRUCTION DETAILS 14 - CONSTRUCTION DETAILS 15 - CONSTRUCTION DETAILS 16- CONSTRUCTION DETAILS

FINITE OF BELLE

Dn#

4-6-15

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CAS SELL RESERVE THEE RESERVE THEE

PEPELINE MARKET X ESP RAP

SHEET INDEX

BIG 7 AS-BUILT SITE PLAN

DATE 03-25-2915 SCALE 1'-2000 DESTRUKED BY KILH FELE NO 8246 SMEET 1 OF 16

PINE GROVE QUAD

SCALE: 1-2000

MC Utility of West Virg #1-800-745-4848 #st Virginia State Low (Sacion Viv: Chapter 74-0 equire tradyou cell two gays boorgrou did Utility of West Virginia ion XIV: Chapter 24-C)
that you call two business
or you dig in the state of
that Virginia.
THE LAW!! XIV: Chapter 24-C) m

THE MELL PAD. ASSOCIATED PIT, & ASSOCIATED IMPOUNDMENT HAVE MEEN CONSTRUCTED TO ACC IN THE DEVELOPMENT OF INDIVIDUAL MARCELLUS SHALE GAS WELLS.

VED and 2015

Gas

PROJECT INFORMATION PROJECT HAME SW 28 AS BUILT SITE PLANT TAX PAPER! NAW MATCH DISTRICT MAY JUDI

SURFACE OWNER
SUC ANN SPIKEP
NEW MILTON DISTRICT
CORPOGE CONSTY, WI
TOTAL PROPERTY AREA
877 04 ACRES

LOCATION COOPDINATES

SITE LOCATION.
THE 90 7 SITE IS LOCATED ON A PONT TO THE SOUTH OF CO. PT. 15. APPROXIMATELY 1.710 FT SOUTH OF FOLH MILE

PG 7 STE (NTPANCE | LATINGE) -60 616496 (NAC 63) NOPTHING 6381953.55 (ASTING 532780 41 (I/N)) 96 7 MCC PAQ CATITUDE 39 582170 CONCITUDE -80 818429 (NAC 81) NORTHING 4381853-30 EASTING 532721-30 (UM) 8:0 7 ASSOCIATED IMPOUNDMENT LATITUDE 39:583194 (CHOTTUDE -80:518947 (MAD 83) MORTHING 4381565 47 EASTING 337A17.64 (UTW)

SITE DISTURBANCE COMPUTATIONS

TOTAL AS-RUST DISTURBUNCE + 112+ ACRES

GENERAL DESCRIPTION

**Environmental Protection** WV Department of

# BIG 7 AS-BUILT SITE PLAN CONSTRUCTION NOTES

#### CONSTRUCTION NOTES.

- I METHODS AND MATERIALS USED IN THE CONSTRUCTION OF THE APPROVEMENTS MERCIN SMALL CONFIDENT TO THE CURRENT CONSTRUCTION STRUMENT ON AND SPECIFICATIONS AND/OR CURRENT WODER EMOSION AND SPECIFICATIONS AND SPECIFICATIONS.

  WANGEVENT PRACTICE VANUE, STANDARDS AND SPECIFICATIONS.
- 2 MASURES TO CONTROL ERROCOM AND SETARDM, MICLIDING DETERMON POWDS SERVING AS SET RACKING DUPING CONSTRUCTION, MUST BE HERMONED PRICE TO ESSURANCE OF THE SETE DOCUCEPHEM FROM THE AMPRICAN OF HEST OF HEST ON HO ANY PEUMS. HE DOCUCEPHE OF HIS ACTION OF HE PESSON-SBUTES CONTAINED IN THE MOTHER FROSCH AND STRUCTION CONTROL BEST MANASCHIEF MOTHER DIVINITION.
- 3 AN APPROVED SET OF PLANS AND ALL APPLICABLE PERMITS MUST BE AVAILABLE AT THE CONSTRUCTION SHE ALSO, A REPRESENTATIVE OF THE DEVELOPER MUST BE AVAILABLE AT ALL THES
- 4. THE CONTRACTOR SHALL ENGINEE ADDOLATE WEAKS OF CLEANING MUD FROM TRICKS AND/OR OTHER COLFERNAT FROM TO ENTERAD PUBLIC STREETS, AND IT STITLE COMMENCENCY RESPONSANT TO CLEAN STREETS ALLY DOES, AND ITS THE MATERIAL MARKETS APPLICATION OF A CLEAN, WASHES APPLICATIONAL TO CLEANING THE STREETS ARE MAINTAINED IN A CLEAN, WAD AND DOST FREE COMPONENT ALL THROUGH AND TO STREET AND THE STREETS.
- 5 NOTIFICATION STRULT BE CIVEN TO THE APPROPRIATE UTILITY COMPANY PRIOR TO CONSTRUCTION OF MATER AND/ON CAS PIET LINES. INFOPMATION SHOULD ALSO RE OBTANGS FROM THE APPROPRIATE AUTHORITY CONCERNING PLANNIS, CUT SHEETS, AND CONNECTIONS TO EXISTING LINES.
- 5 THE LOCATION OF EASTHCLUSTLESS SHOWN IN THISS, PLANS ARE FHOW RED TOCATIONS. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERRY THE EXACT HOROZODINA, AND VIRTICAL LOCATION OF ALL EXISTING CUTERES AS REQUELY PRIOR TO CURSTRUCTION. THE CONTRACTOR SHALL INFORM THE ENGINEER OF ANY CONTLICTS. ARSING PROPOURSE CONTRACTOR VILLY VEHICLARD AND THE REPORTISED CONTRACTOR.
- 7 THE LEVELOPER MICH RESPONSE FOR ANY CAMAGE TO THE CENTRIC STREETS AND UNITED MICH SCHOOL AS A MISSEL OF HIS CONSTRUCTION PROJECT WITHIN OR CONSISTENCY TO THE PERSON FOR THE CONTROLL TO THE FOR
- 8 M-EN GRADING IS PROPOSED WITHIN EASEMENTS OF UTILITIES, LETTERS OF PERMISSION FROM ALL IMPOSES COMPANYS WIST BE OSTAINED PRIOR TO GRADING AND/OR SITE INVESTIGATION.
- 9 THE BUYELONGE ME. BE PESFONSIBLE FOR THE MELOCATION OF ANY UTUITES WHICH IS REQUERD AS A RESULT OF HIS PROJECT. THE PELOCATION SHOULD BE DONE PRICE TO CONSTRUCTION.
- 10 THE CONTRACTOR IS TO VEREY FIELD CONDITIONS PRIOR TO AND DURING CONSTRUCTION AND SHITE LAND SUPPLYMENT AT (NO.4) 467-5634 MARQUATERY OF MAY DISCREPANCIES BETWEEN ACTUAL TREAD CONDITIONS AND THE APPROPRIOR PLAN.
- 11 CONTRACTORS SHALL NOTIFE DECEATORS AND MAINTAIN LINESHED DUNG UTS IT LIVES IN.
  THE MEA OF PROPOSED EXCALATING OF BLASTACS AT LEAST THAT (2) ADPLING DAYS,
  THE MEA THE PROPOSED EXCALATING OF SECANATION.
- 12 CONTRACTOR TO CONTACT OPERATOR AND ENGINEER IF GROUNDWATER IS ENCOUNTERED
- 13 AL EPONON AND SEDMENT CONTROL WEASURES SMALL RE MANTANED BY THE CONTRACTOR DALY AND OFFICED WITHE EVERY BALVARLE. ALL DRAW MILES SMALL BY FREE CONSENSION AND DEFINES WETTERN'S MAGNES SMALL BY MEMOLES AND SEMENTATION AND DEFINES WETTERN'S MAGNES SMALL BY MEMOLES AND ASSETTING MACHINES.
- 14 THE CONTRACTOR SHALL SCHEDULE & PRE-CONSTRUCTION WEETING WITH THE EPOSION AND STOLMENT CONTROL INSPECTOR, 2 DAYS PRIOR TO THE START OF CONSTRUCTION

#### SITE CLEANUP & RECYCLE PROGRAM

- 1 CARBACE FUELS OF MAY SUBSTANCE HARMFUL TO HUMAN, AQUATE OR FISH LEF. SHALL BE REVENITED FROM ENTERING SPRINGS STREAMS FONCS LIMES, BETLANGS OR MAY BATER COUNTS OF MAY BE ROOT
- 7 CHS. FUELS, EUBRICANTS AND COOLANTS SHALL BE PLACED IN SURTABLE CONTAINERS AND DISPOSED PROPERLY
- 3 ALL THASH AND CARBAGE WILL BE COLLECTED AND DISPOSED PROPERLY.
- 4 ALL SECURENT PERIONED FPON SECURENT CAPTURING DEVICEN SHILL RE INJUICE AT AN AREA IN THE PLANT (4 MCE ROUND 18 P). THEN SECIED AND MILECHED

#### MAINTENANCE PROGRAM

ALL MANIEMANCE ACTIVITIES MILL BE PERFORMED BY THE COMPACTOR BURING THE ACTUE CONSTRUCTION PHASE OF THE PROJECT UPON COMPLETON OF THE ACTUE CONSTRUCTION PHASE, HELD PHONEER/OPERATOR WILL PERFORM MANIEMANCE ACTIVITIES.

- 1 SUP'S WILL BE INSPECTED ON A WEEKLY BASIS AND AFTER EACH WEASURABLE HAMFALL EVENT DURING THE ACTUS CONSTRUCTION PHASE OF THE PROJECT.
- 2 ALL PEVECETATED ACCESS ROADS AND FACRITIES ARE TO BE MAINTAINED THROUGHOUT THE LAFE OF EACH NIMIDETUFE.
- 3 CULVERTS, ROAD DITCHES, BROAD-HAND DWS, DIVERSION OFFCHES, AND POOR CHECK DAMS WUST BE MANTANED IN PROPER WORKING ORDER AND WILL BE CLEWED OUT REPARED, OR PEPARED AS NECESSARY.
- 4 FUTER STRIPS AND/OR SHIT HENCE AND BE WANTAMED.
- 5 ALL AREAS OF EARTH DISTURBANCE WILL HE HEHARFD WHERE SIGNS OF ACCELERATED EROSION ARE DETECTED.
- 8 SEEDING AND WINCHING WILL BE REFEATED IN THOSE AREAS THAT APPEAR TO BE FANING OR HAVE FAILED

#### CONSTRUCTION SEQUENCE

THE OPERIORIENT OF THIS STEET SHALL BE CONSISTENT WITH THE FOLLOWING CENERAL SECURICE OF CONSTRUCTION. THE CONTINCTION SHALL INDICIDENT WARRAN AND CREATE ALL PROPOSED RESOURCE CONTINUE MEASUREST OF CITYCHTON, WHICH HE HANDRO OF THE PROPOSED RESOURCE CONTINUE MEASUREST OF THE PROPOSED RESOURCE SHALL BE EXECUTED BY THE PROPOSED'S SHALL BE MOREOURCED TO CHARACTE AND CONTINUE PROPOSED. THE MOREOURCE OF THE PROPOSED THE MOREOURCE OF THE MORE OFFICE OFF

- I THE EXISTING WELL PAC MID ACCESS ROAD MRI MOSTLY STABLICED WITH VEGETATION MAY AND ALL MAY AND ACCESS HOLD WITHOUT THE CRILING PROCESS SHALL HE ACCOUNTERS AND ACCOU
- 2 ADEQUATE DUTLET PROTECTION SHALL BE INSTALLED AT ALL EXISTING CITIVERTS.
- 3 POCH CHECK DAVIS SHALL HE INSTALLED IN ALL EXISTING DITCH LINES, AS NECESSARY
- 4 ADDITIONAL CHAVE: SHALL BE PLACED ON THE MELL PAD AND ACCESS FOAD, AS NECESSARY
- IS ANY EXISTING BUT FENCE ALONG THE TOP OF SLOPE SHALL BE PREPARED, AS INTO START





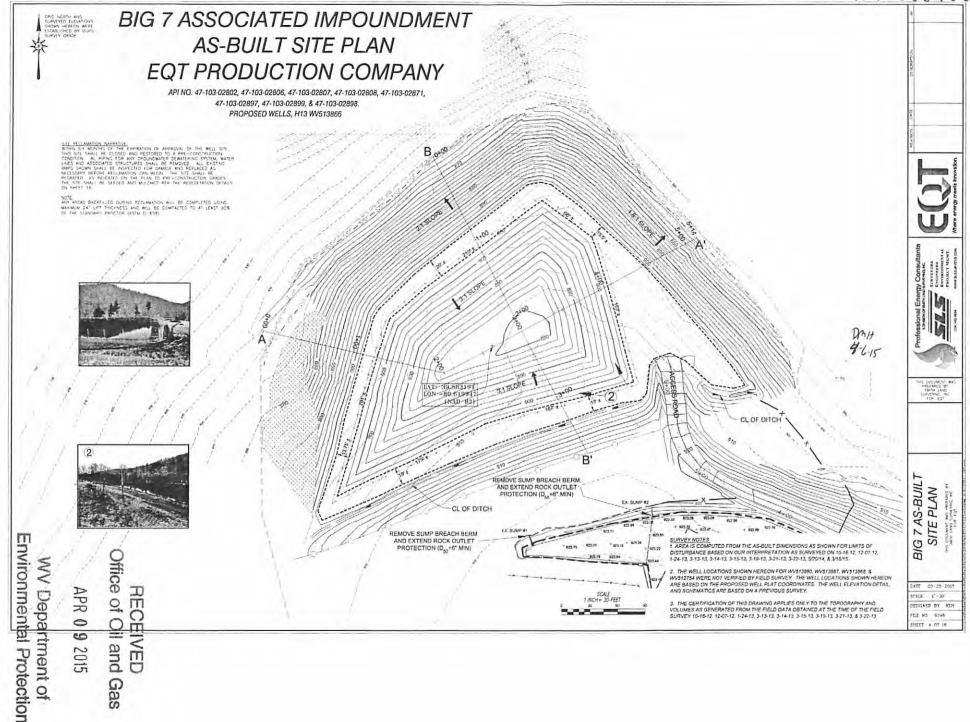


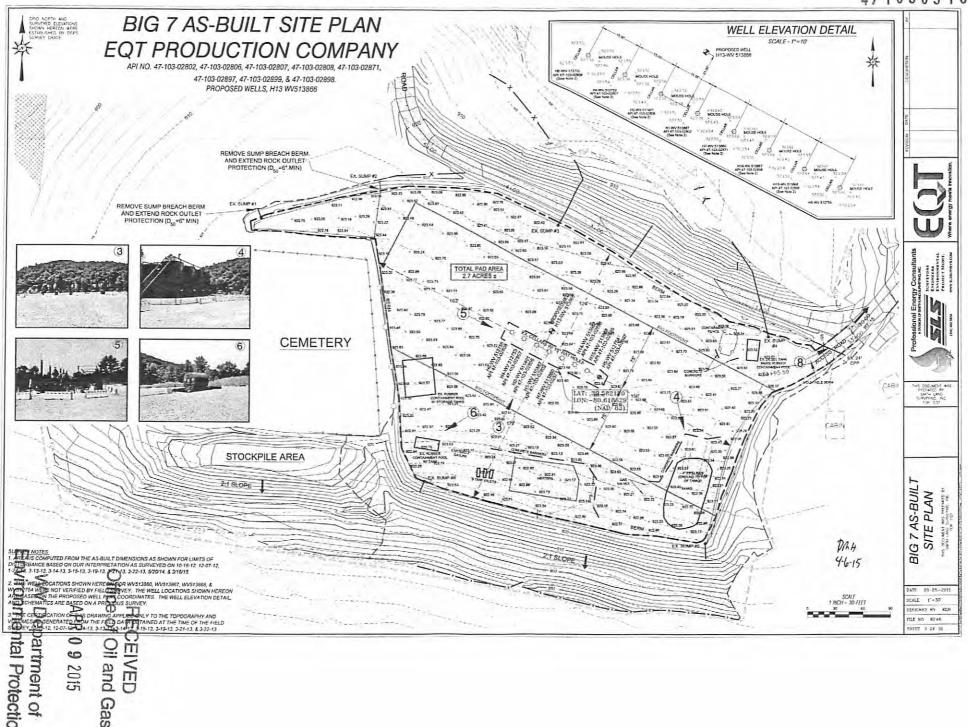
BIG 7 AS-BUILT SITE PLAN

DATE 01-25-2015

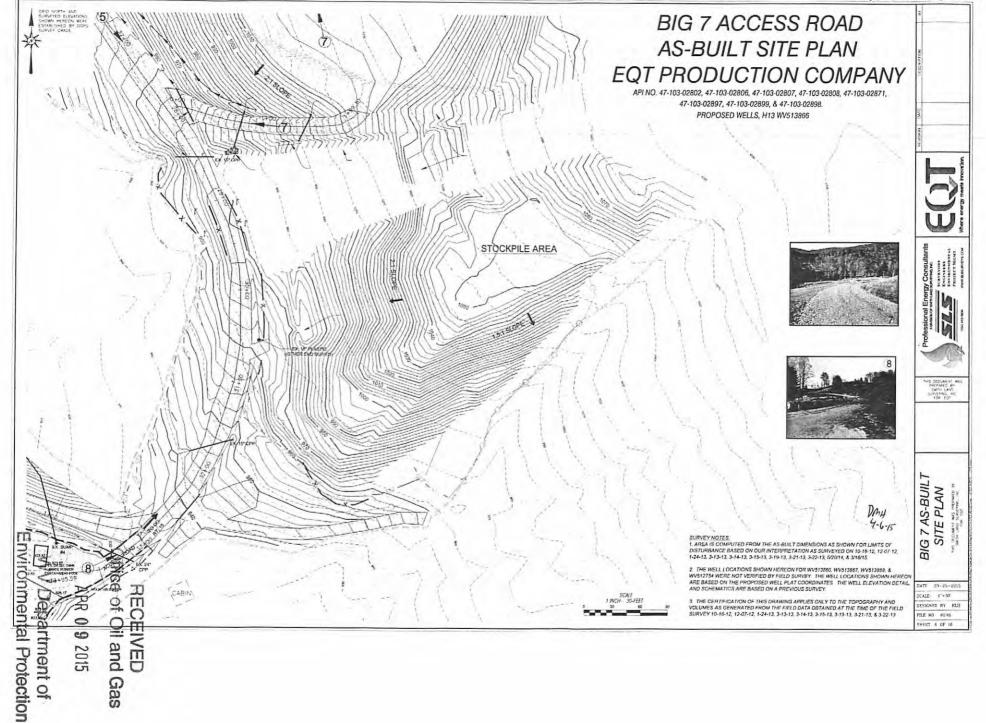
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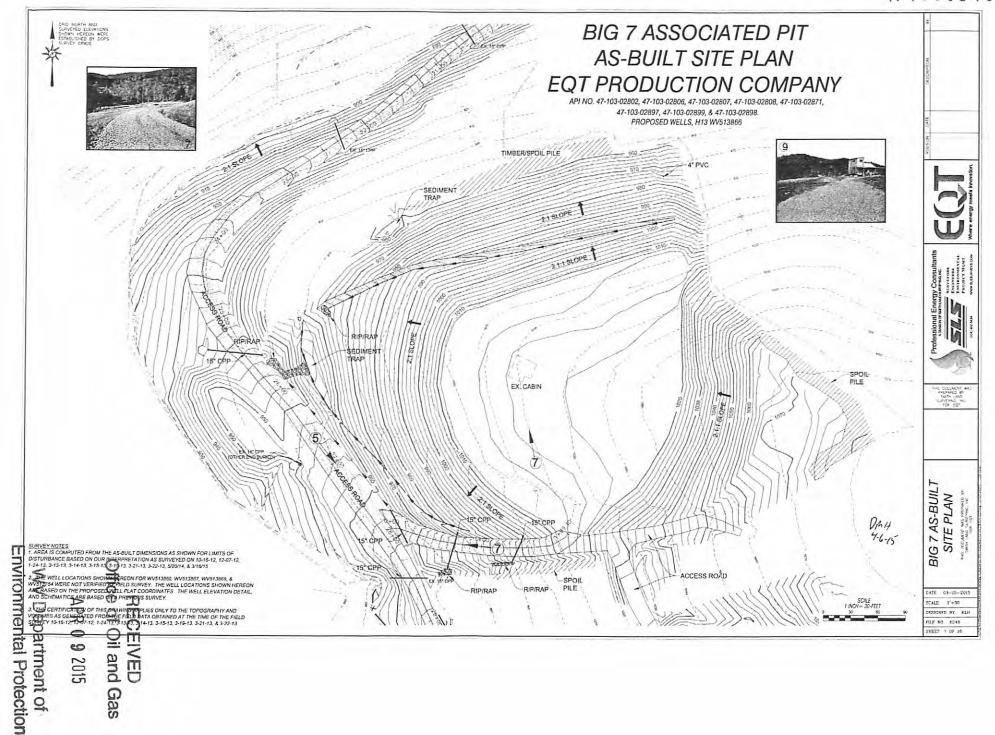
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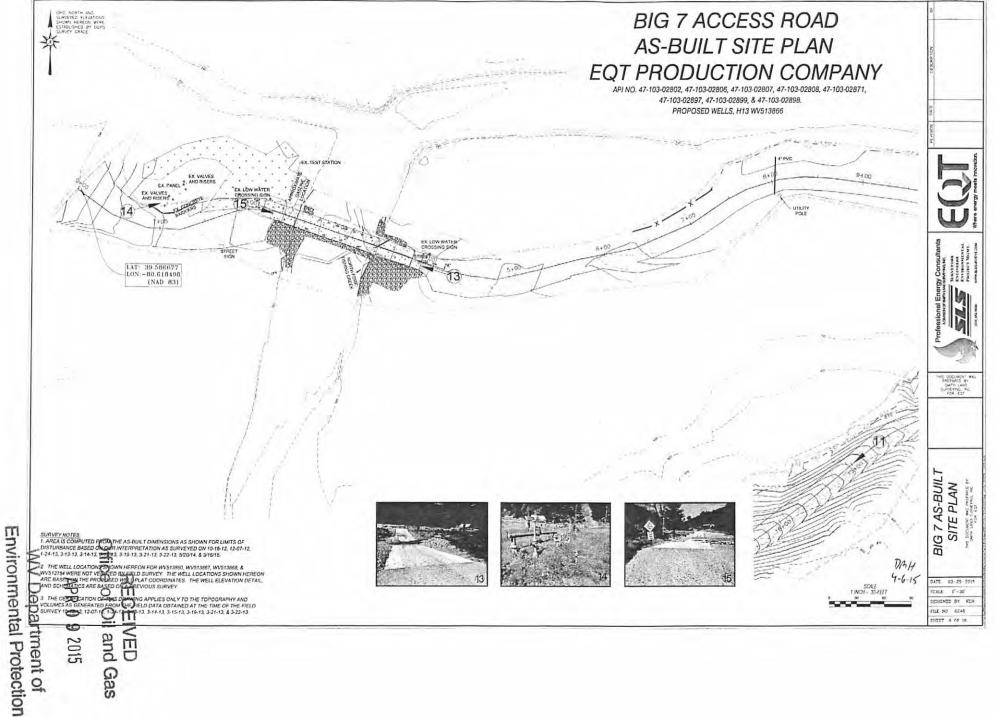


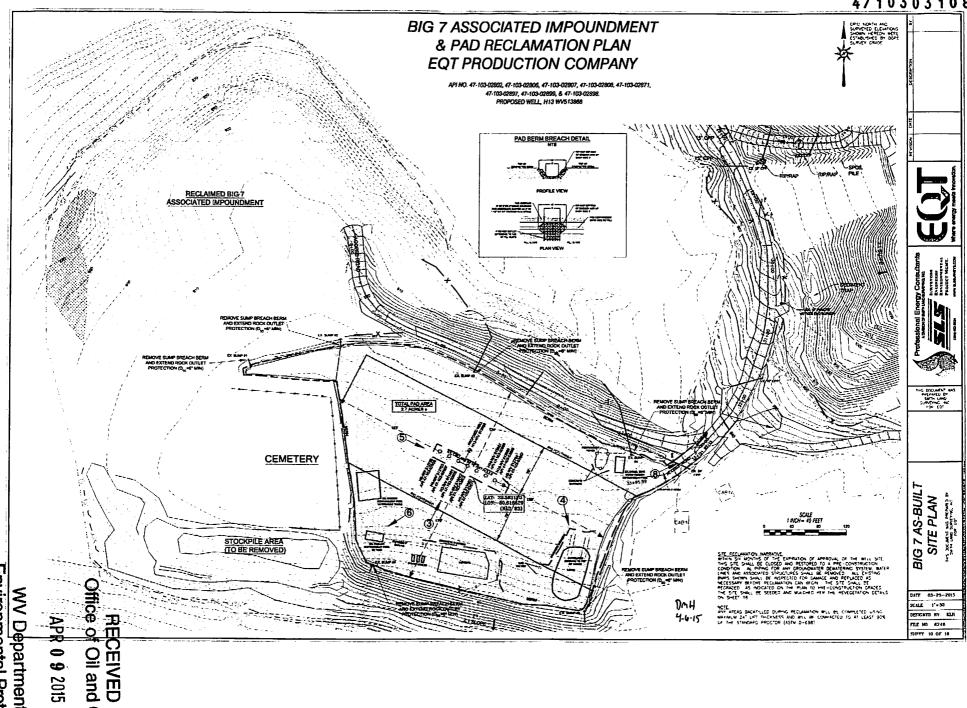


ntal Protection Gas





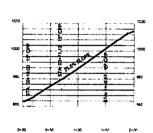




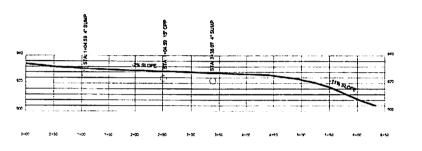
Environmental Protection WV Department of

## BIG 7 ACCESS ROAD TO RECLAIMED PIT AND ASSOCIATED IMPOUNDMENT PROFILE

ACCESS ROAD TO RECLAIMED PIT



ACCESS ROAD TO **IMPOUNDMENT** 



ACCESS ROAD TO RECLAIMED PIT PROFILE "STA 0+00 - 0+99.30" ACCESS ROAD TO IMPOUNDMENT PROFILE "SIA 0+00 - 6+33.64"

SCALE HORIZ 1" = 50" VEPT 1" - 20"

RECEIVED
Office of Oil and Gas APR 9 2015

**Environmental Protection** 

WV Department of

DNH 4-6-15

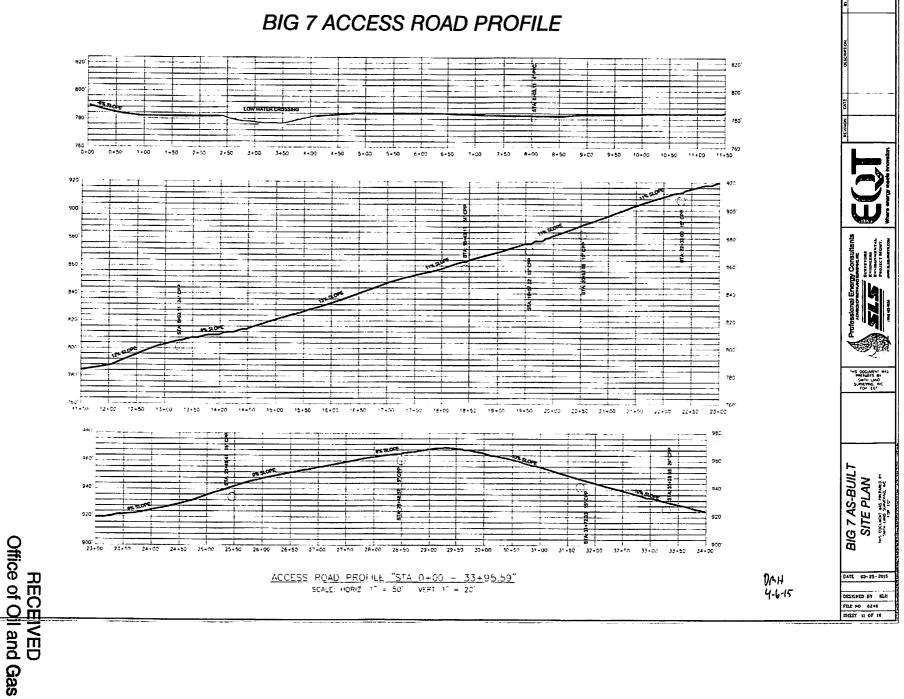






BIG 7 AS-BUILT SITE PLAN

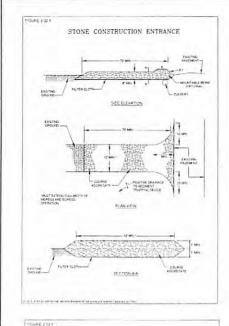
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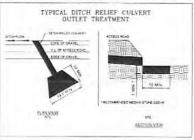
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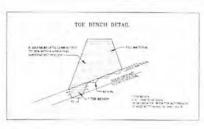
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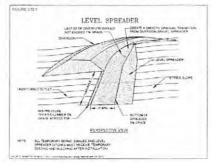
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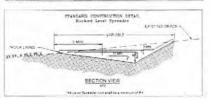


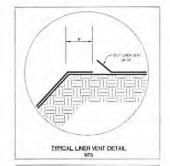
### BIG 7 AS-BUILT SITE PLAN **EQT PRODUCTION COMPANY**





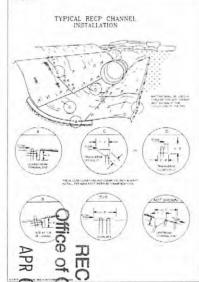












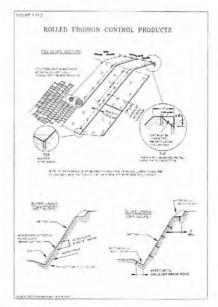
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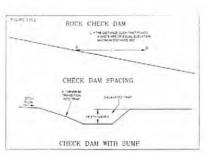
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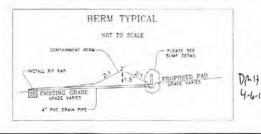
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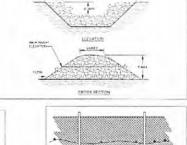
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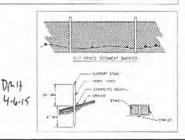




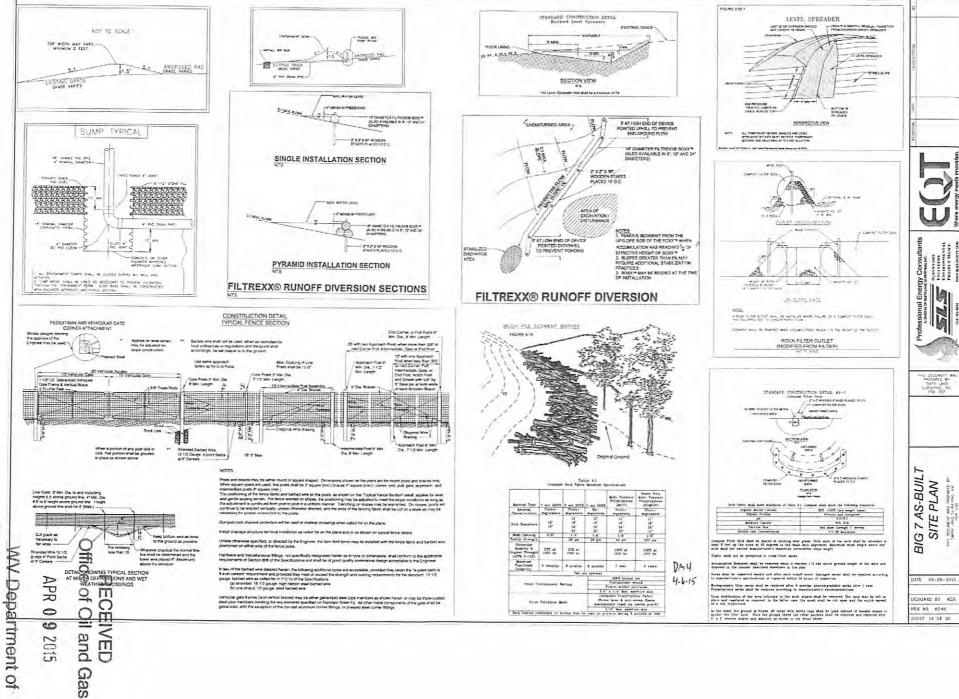




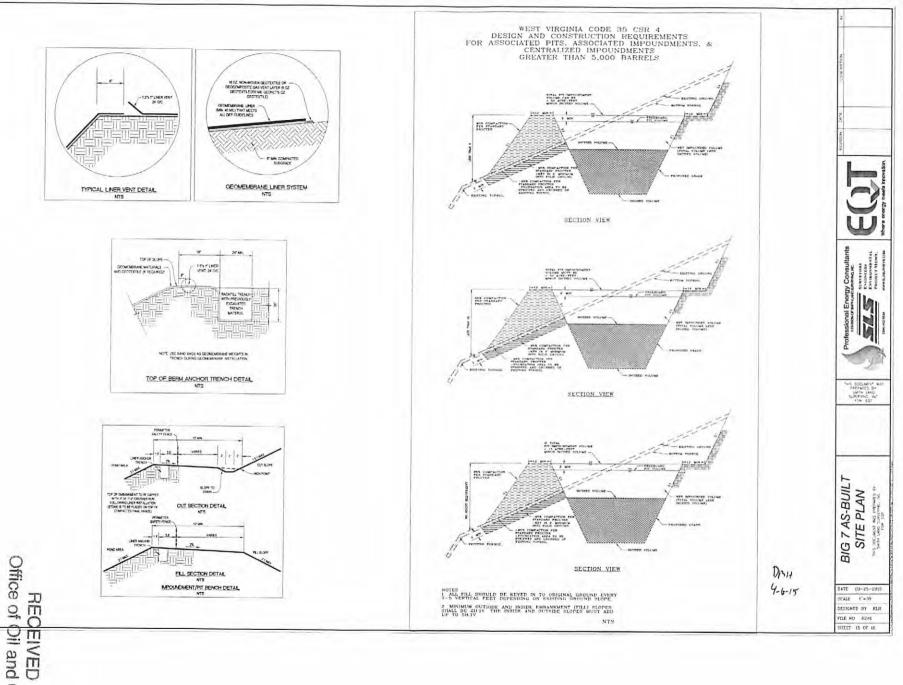
ROCK CHECK DAM







Environmental Protection



Environmental Protection

APR

9 2015

Energy Consults
SERVICE
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STE

THE DECLARATE WAS REPLACED BY SMITH LAND SUPPLYING INC. FOR EUT

SITE PLAN

DESIGNED BY KLH

FILE NO 8246

SHEET 16 OF 18

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Sufficient actions are small practice Appears 
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#### Table N/ 1

| Planting Denis                            | The state of the s |
|---|--|
| March 1 April 15 and August 1 - October 1 | Best Seeding Periods   |
| April 15 - August 1                       | HEGH RISK - monthure stress Micty  |
| October 1 - December 1                    | HGH RSC - freeze damage to young undings   |
| December 1 - March 1                      | Good seeding period. Dormans seeding   |

#### Table 2

| Acceptable Fortilization Recommendation |            |               |                         |  |  |  |
|---|------------|---------------|-------------------------|--|--|--|
| Species                                 | N (the/ac) | 7205 (fis/et) | Exemple Rec. (Ser scre) |  |  |  |
| Cool Season Grass                       | 40         | 20            | 400 lbs. 10-20-20       |  |  |  |
| CS Grass & Legume                       | 30         | 60            | 300 lbs. 10-20-20       |  |  |  |
| Temporary Cover                         | 40         | 40            | 200 Est. 19-19-19       |  |  |  |

#### Table 3

| Species - Se    | schig linte (De/scre | Options Saiding Dies - ~  | Orange (Com      | pit Range |
|-----------------|----------------------|---------------------------|------------------|-----------|
| Annual Ryegrass | 40                   | 1/1 - 6/15 or 8/15 - 9/15 | Well - Poorly    | 5.5 - 7.5 |
| Peld Bromegrass | 40                   | 3/1 · 6/15 or 8/15 · 9/15 | Well - Mod Well  | 60.70     |
| Spring Clark    | 96                   | 1/1 - 6/15                | Well Poorly      | 33-70     |
| Swidargrass     | 40                   | 5/15 - 8/15               | Well - Poorly    | \$3.75    |
| Weter fige      | 168                  | 8/15 - 10/15              | Well - Poorly    | \$5.75    |
| Water Wheat     | 180                  | <b>2/15 - 11/15</b>       | Well - Mod. Well | 55-70     |
| aparese Video   | 30                   | 6/25 8/25                 | Well             | 45 70     |
| Rectop          | 5                    | 3/1 - 6/15                | Well             | 40.75     |
| Arread Ryegrass | 26                   | 3/3 - 6/15                | Well - Poorly    | 5.5 7.5   |
| Spring Cass     | 64                   | 1/1 - 6/15                | Well - Poorty    | 55-7.5    |

Crownerch / Tall Fescus Crownerch / Processed Ryagrass 10-15 Wed - West Well 50-75 Tall Fernan Laden Clover / Servis Linguides WHI HAVE THE 45-75 Tall Fession Tall Fession / Lodge Clover / Wes-Mod Hes 50.75 Androp Crownwetch / Tall Feacuse / Well-Mod Well 50-75 Redtop Tall feacuse / Birdsfoot Trefoil / Well - Mod. Well 5.0 - 2.5 Bedrop
Sereda Lespedes
Tall Pexcue /
Redrop
Redrop
Addrop /
Tall Fracue / Wed - March Wed 45-75 50-75 Creoping Red Toll Prictic Parametal Reported / Tall Formus / 45 75

Littles Fistpen pror to seeding. For unprepared seedbeds or seeding outside the patient on terretorne and 50% more west to the

58.20

Shifteres leated in build air sweekle for one in shaded woodland settings: those in states are switche for use in filter

#### Table 45 of Farm Friendle Seed Minture

| Wilding and Farm Priency seed Mexices |                        |                          |              |  |  |
|---------------------------------------|------------------------|--------------------------|--------------|--|--|
| Special/Mixture S                     | reding Rate (the/acre) | Soll Drainage preference | " pit Kange" |  |  |
| KY Bluegrass /                        | 20                     |                          |              |  |  |
| Redtop/                               | 3                      | Well-Mod Well            | 55-75        |  |  |
| Ladino Gover or Birdyloux Trefnil     | 2/10                   |                          |              |  |  |
| Timothy /                             | 5                      | Well - Wed, Well         | £5-80        |  |  |
| Alfalla                               | 12                     | West wou. Hes            | E>- EU       |  |  |
| Timothy /                             | 5                      | Well Poorly              | 55.75        |  |  |
| Bardshoot Trefori                     |                        | With Popping             | 33 (3        |  |  |
| Orchardgross /                        | 10                     |                          |              |  |  |
| Ladeta Clover /                       | 2                      | Wed - Mad Wed            | 5.5 - 7.5    |  |  |
| Redtop                                | 3                      |                          |              |  |  |
| Orchordgross /                        | 10                     | Wed - Mod. Well          | 55-75        |  |  |
| Extina Clover                         | 2                      | MER WOOD MER             | 33.7.5       |  |  |
| Drchardyress /                        | 20                     | Mark Admit 1949          | 55-75        |  |  |
| Personnical Rymgrams                  | 10                     | MER MOD THE              | 33-73        |  |  |
| Creaping Red Fescus /                 | 30                     | Kird - Mod. Apt          | 55-75        |  |  |
| Perennial Ryegracs                    | 10                     | NEW - MOD. WE'S          | 33.73        |  |  |
| Drohatdgrass or KY Flungrass          | 20                     | Wed - Mark Wed           | 60 7.3       |  |  |
| Birdidoot Trefuil /                   | 10                     |                          |              |  |  |
| Section /                             | •                      | Well Mod Well            | \$5.75       |  |  |
| Orthordgrass                          | 20                     |                          |              |  |  |
| Lethco Ristaca */                     | 10                     | Well - Meet 1946         | 15.75        |  |  |
| Perendel Ryegrass                     | 20                     | wes - Mod. Well          | \$3.73       |  |  |
| catheo Flatpes */                     | 10                     |                          |              |  |  |
| Orcharderass                          | 20                     | Well - Mod Well          | 13 75        |  |  |

\* Latheri Flotore is potentially poisonous to some Evestock. All legumes should be planted with proper inequients prior to seeding. For unprepared weekleds or seeding outside the optimum timeframe, add SCNs more seed to the specified rate

Mixtures listed in bold are suitable for use in shaded waadland settings; those in itales are suitable for use in filter strips.

#### Table IV-5 Lime and Fertilizer Application Table

| THOMAS    | Line in Your per Acre | derticher, the per Acre (15-20-15 or Embeller) |
|-----------|-----------------------|--|
| Above 6 G | 2                     | SOC  |
| 500060    | ,                     | 500  |
| Below S.O | 4                     | 500  |
|           |                       |  |

The pH can be determined with a principle of treating bit or by sending the sail samples to a sail testing behavior When 4 tars of time per sare are applied it must be incorporated into the soil by disking, backba

#### DAY 4-6-15

#### Table IV-6

|                 |                         | MINERAL MONCH SHIP CHICA |   |
|-----------------|-------------------------|--------------------------|---|
| Activité :      | Minkroum Rates per bare | Coverage                 | Quantity 1                                |
| Hay or Scraw    | 2 to 3 Tors             | Cover 75% to 90%         | Subject to wind blowing or washing unless |
| l               | 100 to 150 bates        | of Surface               | tied down                                 |
| Wood Fiber      | 1000 to 1500 lbs        | Cover all                | For trydroseeding                         |
| Putp Fiber      |                         | Disturbed Areas          |   |
| Wood - Ordulase |                         |                          |   |
| ******          |                         |                          |   |

Tobles 1/ 1-4 teken from historia Resources Conservation Service Manual 'Critical Area Planting'

Ш nvironmental Protection

WV Department of

#### **WYDEP OOG ACCEPTED AS-BUILT**

1/h 1 7/23/2015

## BIG 7 AS-BUILT SITE PLAN **EQT PRODUCTION COMPANY**

API NO. 47-103-02802, 47-103-02806, 47-103-02807, 47-103-02808, 47-103-02871, 47-103-02897, 47-103-02899, & 47-103-02898.

PROPOSED WELL H13 WV513866

SITUATE ON THE WATERS OF SHEEP RUN AND NORTH FORK FISHING CREEK IN GRANT DISTRICT, WETZEL COUNTY, WEST VIRGINIA.

#### PROJECT INFORMATION

PROJECT NAME: SAM 26 AS DIRET SITE PLANTAX PARCEL: NEW MILTON DISTRICT MAP 3-01.

#### LOCATION COORDINATES

HIG 7 SITE ENTRANCE.
LATITUDC; 39:586677 (ONCSTUDE; -NO.618498 (NAO.8.3)
NORTHING: 4351953.55 (ASTING: 532760.43 (UTV) RG 7 WELL PAD LATITUDE: 39:58217C LUNCTUDE: -KD 618879 (NAD 83) NORTHING: 4381453.30 EASTING: 532751.30 (UTW)

BIC 7 ASSOCIATED REPOUNDMENT LATITUDE: 33:583194 LONGTUDE. -80:619947 (AAD 83) NORTHERG: 4381568.47 (ACTING. 532637.64 (UTW)

#### SITE DISTURBANCE COMPUTATIONS

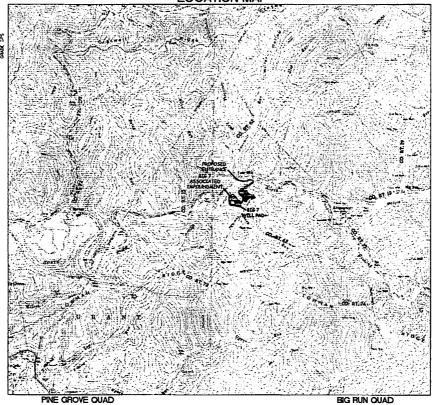
TOTAL AS-PURT DISTURBANCE + 312± ACRES

#### GENERAL DESCRIPTION

THE WELL PAD, ASSOCIATED PH, & ASSOCIATED SHPOUNDMENT HAVE BEEN CONSTRUCTED TO AD IN THE DEVELOPMENT OF INSTRUCTED SHALL DIS WELLS.

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!!





#### SHEET INDEX 1 - COVER SHEET 2 - CONSTRUCTION NOTES

3 - INDEX SHEET

4 - WELL PAD AS-BUILT ASSOCIATED PAPOUNDMENT AS-BUR

& ASSOCIATED PIT AS BUILTING

7- RIG 7 ACCESS ROAD

9 - BIG 7 ACCESS ROAD

10- RIG 7 PIT RECLAMATION 11 - BKG 7 ROAD PROFILE

13 - CONSTRUCTION DETAILS

14 - CONSTRUCTION DETAILS

15 - CONSTRUCTION DETAILS

16- CONSTRUCTION DETAILS

LEGEND O Ö



DATE: 03-25-2015 DESIGNED BY: KLH TILE NO 6245

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