

### 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

March 12, 2015

### WELL WORK PERMIT

### Horizontal 6A Well

This permit, API Well Number: 47-1706707, 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.

James Martin

Chief

Operator's Well No: 515940

Farm Name: COGAR, ARDEN & CAROL

API Well Number: 47-1706707

Permit Type: Horizontal 6A Well

Date Issued: 03/12/2015

API Number: 4701706707

### **PERMIT CONDITIONS**

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

### **CONDITIONS**

- 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 fifty (50) 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. Operator shall provide the Office of Oil & Gas notification of the date that drilling commenced on this well. Such notice shall be provided by sending an email to DEPOOGNotify@wv.gov within 30 days of commencement of drilling.

| API NO.  | <u>47</u> |       | 017 | - | 06707  |
|----------|-----------|-------|-----|---|--------|
| OPERATO  | R WEL     | L NO. |     |   | 515940 |
| Wall Dad | l Non     | 201   |     |   | OWE    |

# STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS 7 0 1 7 0 6 7 0 7 W.VA. CODE §22-6A - WELL WORK PERMIT APPLICATION

| 1) Well Operator:                     | EQT Product     | ion Company     |                   | 306686           | 017                                     | 7               | 526              |
|---------------------------------------|-----------------|-----------------|-------------------|------------------|---|-----------------|------------------|
|                                       |                 |                 |                   | Operator ID      | County                                  | District        | Quadrangle       |
| 2) Operator's Well                    | Number:         |                 | 515946<br>515939- |                  | _Well Pad Nam                           | ne:             | OXF44            |
| 3) Farm Name/Sur                      | face Owner : _  | Ar              | den & Carol C     | ogar             | Public Road A                           | ccess:          | 52/3             |
| 4) Elevation, curre                   | nt ground:      | 1,170.0         | Eleva             | tion, proposed p | ost-construction                        | :1,170.         | 0                |
| 5) Well Type: (a) G                   | ias             | Oil             | Ur                | nderground Stora | age                                     |                 |                  |
| C                                     | Other           |                 |                   |                  |   |                 |                  |
| (b                                    | ) If Gas:       | Shallow         | •                 | Deep             |   |                 | /                |
|                                       |                 | Horizontal      |                   |                  |   |                 | DCW 12.20        |
| 6) Existing Pad? Y                    | es or No:       | Yes             |                   |                  |   |                 | 12.27            |
| 7) Proposed Targe Target formation is |                 |                 |                   |                  | ociated Pressure<br>e 54 feet and antic | • •             | sure of 2951 PSI |
| 8) Proposed Total                     | Vertical Depth: |                 |                   |                  | 6579                                    |                 |                  |
| 9) Formation at To                    |                 |                 |                   |                  | Marcellus                               |                 |                  |
| 10) Proposed Tota                     |                 | oth.            |                   |                  | 12,233                                  |                 |                  |
| 11) Proposed Horiz                    | zontal Leg Leng | •               |                   |                  | 4,130                                   |                 |                  |
| 12) Approximate F                     | resh Water Stra | ata Depths:     |                   | 4, 93, 13        | 0, 244, 285, 328,                       | , 596, 919, & 1 | 139              |
| 13) Method to Dete                    | ermine Fresh W  | ater Depth:     |                   |                  | By offset w                             | ells            |                  |
| 14) Approximate S                     | •               |                 |                   |                  | 1,821                                   |                 |                  |
| <ol><li>15) Approximate C</li></ol>   | •               |                 |                   |                  | None Reported                           |                 |                  |
| 16) Approximate D                     |                 |                 |                   |                  |   | None rep        | orted            |
| 17)Does proposed                      |                 | ontain coal sea | ims directly o    |                  |   |                 |                  |
| adjacent to an                        |                 |                 |                   |                  | es                                      | No              |                  |
| (a) If Yes, prov                      | ride Mine Info: |                 |                   |                  |   |                 |                  |
|                                       |                 | Depth:          |                   |                  |   |                 |                  |
|                                       |                 | Seam:           |                   | <del></del>      | <del></del>                             |                 |                  |
|                                       |                 | Owner:          |                   |                  |   |                 |                  |

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API NO. <u>47</u> - <u>017</u> -

OPERATOR WELL NO. 515940
Well Pad Name: OXF44

### **CASING AND TUBING PROGRAM**

4701706707

| TYPE         | Cina        | Name        |       | T              | T                    |                   | .,,,,,,,                           |
|--------------|-------------|-------------|-------|----------------|----------------------|-------------------|------------------------------------|
| 1175         | <u>Size</u> | <u>New</u>  | Grade | Weight per ft. | FOOTAGE: For         | <b>INTERVALS:</b> | CEMENT:                            |
|              | <u>(in)</u> | <u>or</u>   |       | (lb/ft)        | <u>Drilling (ft)</u> | Left in Well      | Fill- up (Cu.Ft.)                  |
|              |             | <u>Used</u> |       |                |                      | (ft)              |                                    |
| Conductor    | 20          | New         | MC-50 | 81             | 40                   | 40                | 38 C.T.S.                          |
| Fresh Water  | 13 3/8      | New         | MC-50 | 54             | 1,153                | 1,153             | 996 C.T.S.                         |
| Coal         | _           | -           | _     | _              | _                    | _                 | _                                  |
| Intermediate | 9 5/8       | New         | MC-50 | 40             | 3,031                | 3,031             | 1,197 C.T.S.                       |
| Production   | 5 1/2       | New         | P-110 | 20             | 12,233               | 12,233            | See Note 1                         |
| Tubing       | 2 3/8       |             | J-55  | 4.6            |                      |                   | May not be run, if run will be set |
| Liners       |             |             |       |                |                      |                   |                                    |

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

### <u>Packers</u>

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

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

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

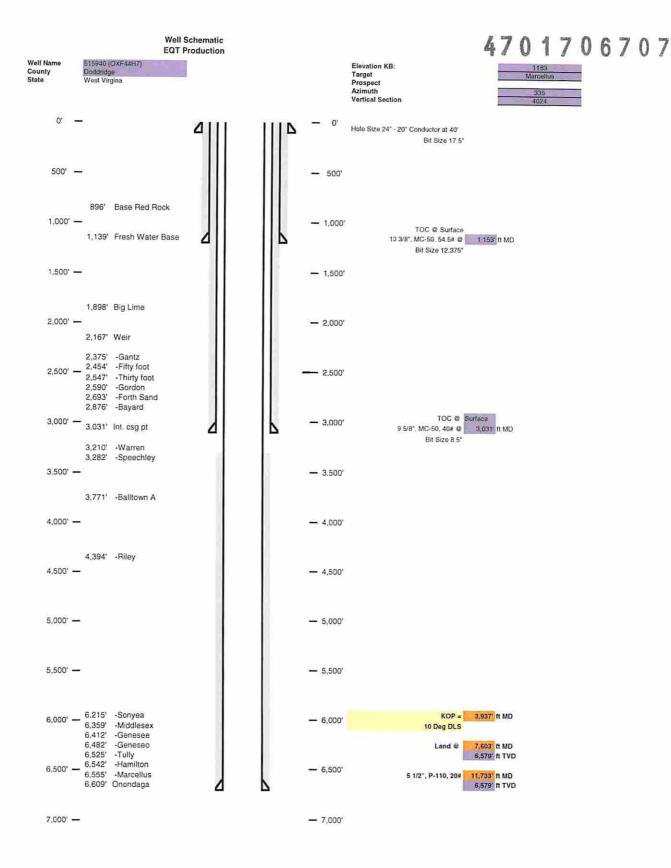
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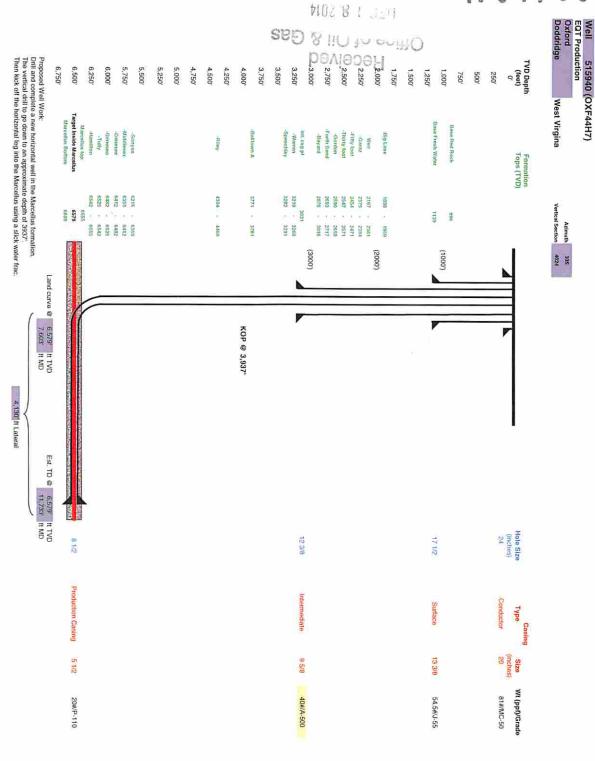
| API NO.  | <u>47</u> |      | 017 | - |        |
|----------|-----------|------|-----|---|--------|
| OPERATO  | R WEL     | L NO |     |   | 515940 |
| Well Pad | Nan       | ne:  |     |   | OXF44  |

| Drill and complete a new horizontal well in the Marcellus formation. The vertical drill to go  | down to an approximte depth of 3937'. Then kick off    |
|--|--|
| the horizontal leg into the Marcellus using a slick water frac.  |  |
| 20) Describe fracturing/stimulating methods in detail, including anticipated n   | nax pressure and max rate:                             |
| Hydraulic fracturing is completed in accordance with state regulations using water recycled from   |  |
| freshwater sources. This water is mixed with sand and a small percentage (less than 0.3%) of c<br>gelling agent, gel breaker, friction reducer, biocide, and scale inhibitor), referred to in the industr  |  |
| anticipated treating pressures are expected to average approximately 8500 psi, maximum antici  |  |
| approximately 100 bpm. Stage lengths vary from 150 to 300 feet. Average approximately 200,   |  |
| 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, (acr   | es): ±15.7 ac  |
| 22) Area to be disturbed for well pad only, less access road (acres): 23) Describe centralizer placement for each casing string.   | ±6.2 ac  |
| • Surface: Bow spring centralizers - One at the shoe and one spaced every  |  |
| Intermediate: Bow spring centralizers— One cent at the shoe and one space  | ed every 500'.   |
| Production: One spaced every 1000' from KOP to Int csg shoe  |  |
| 24) Describe all cement additives associated with each cement type.  | Surface (Type 1 Cement): 0-3% Calcium Chloride         |
| Used to speed the setting of cement slurries.  |  |
| 0.4% flake. Loss Circulation Material (LCM) is used to combat the loss of the cemen  |  |
| Intermediate (Type 1 Cement): 0-3% Calcium Chloride. Salt is used in shallow, low temps slurries. 0.4% flake. Loss Circulation Material (LCM) is used to combat the loss of with |  |
| to a thief zone.   |  |
| Production:  |  |
| Lead (Type 1 Cement): 0.2-0.7% Lignosulfonate (Retarder). Lengthens thickening time.   |  |
| 0.3% CFR (dispersant). Makes cement easier to mix.   |  |
| <u>Tail (Type H Cement)</u> : 0.25-0.40% Lignosulfonate (Retarder). Lengthens thickening time  |  |
| 0.2-0.3% CFR (dispersant). This is to make the cement easier to mix.   |  |
| 60 % Calcuim Carbonate. Acid solubility.   |  |
| 0.4-0.6% Halad (fluid loss). Reduces amount of water lost to formation.  |  |
| 25) Proposed borehole conditioning procedures. <u>Surface</u> : Circulate hole clean   | (Approximately 30-45 minutes) rotating & reciprocating |
| one full joint until cuttings diminish at surface. When cuttings returning to surface dir  | ninish, continue to circulate an additional 5          |
| minutes. To ensure that there is no fill, short trip two stands with no circulation. If the  | ere is fill, bring compressors back on                 |
| and circulate hole clean. A constant rate of higher than expected cuttings volume like   | cely indicates washouts that will not clean up.        |
| Intermediate: Circulate hole clean (Approximately 30-45 minutes) rotating & reciprocating  | g one full joint until cuttings diminish at            |
| surface. When cuttings returning to surface diminish, continue to circulate an additional surface.   | onal 5 minutes. If foam drilling, to enhance           |
| hole cleaning use a soap sweep or increase injection rate & foam concentration.  |  |
| <u>Production:</u> Pump marker sweep with nut plug to determine actual hole washout. Calcula   | te 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                 |
| the shakers every 15 minutes.  |  |

<sup>\*</sup>Note: Attach additional sheets as needed.



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Office of Oil & Gas
DEC 1 8 2014





December 10, 2014

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

Re: Casing plan on Wells (OXF44)

Dear Mr. Smith,

EQT is requesting the 13-3/8" surface casing be set at 1153' KB, below the Fresh Water zone. We will set the 9-5/8" intermediate string at 3031' KB, below the base of the Bayard formation. This casing plan is the same at the previous wells drilled by EQT on this pad.

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 25304 (304) 926-0450 (304) 926-0452 fax Earl Ray Tomblin, Governor Randy C. Huffman, Cabinet Secretary dep.wv.gov

March 18, 2014

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

Re: Cement Variance Request

Dear Sir or Madam.

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

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

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

anes ~

Environmental Resources Specialist / Permitting

Promoting a healthy environment.

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DEC 1 8 2014





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 casing of oil and gas wells.

### FINDINGS OF FACT

- 1.) Nabors Completion & Production Services Co. proposes the following cement blend:
  - 2% Calcium Chloride (Accelerator)
  - 0.25 % Super Flake (Lost Circulation)
  - 94% Type "1" Cement
  - 5.20 % Water
- 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.

Received Office of Oil & Gas

#### **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

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DEC 1 8 2014

WW-9 (5/13)

|              | Page     | 1   | of | 2    |       |
|--------------|----------|-----|----|------|-------|
| API No. 47   | 017      | 7 - |    |      | 06207 |
| Operator's \ | Well No. | _   |    | 5159 |       |

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

Fluids/Cuttings Disposal & Reclamation Plan

| Operator Name  | EQT Pro  | duction Compa   | ny               | OP Code  | 306                                       | 686   |  |
|--|--|---|------------------|--|---|---|--|
| Watershed (HUC10) _  | Tributary  | of Straight Fork  |                  | Quadrangle                                     | Oxford                                    |   | -  |
| Elevation  | 1170.0   |   |                  |  |   | thwest  | -  |
| Do you anticipate using  |  |   | to complete      | the proposed wel                               | l work? Ye                                | es x No   | <b>-</b> s   |
| Will a pit be used? Ye   |  |   |                  |  |   |   |  |
|  | scribe anticipated p   | -   |                  | flowback water &                               | residual solid                            | S   | _  |
|  | liner be used in the   | -   |                  | NoI  | f so, what ml.?                           | 60  | _  |
| Proposed Dis   |  | ication<br>ınd Injection<br>t API Number_<br>sposal (Su | ( UIC Perr       | nit Number<br>Variou:<br>W-9 for disposal I    | S   | 037 )   | DCN 20   |
| Will closed loop systen<br>fluid. The drill cuttings a   | be used ? Ye   | s, The closed lo  | op system will   | remove drill cutting                           | gs from the drilli                        | ng  |  |
| Drilling medium antic  |  |   |                  | 1 12   | rill the top-hole sections                | of the wellbore,  |  |
|  |  |   |                  | Surface, Interm                                | ediate, and Pilot hole s                  | ections, water based  | •  |
| H - 11 1 1   |  | r   |                  | mud is used to                                 | drill the curve and latera                | al.   | •(   |
|  | what type? Synth   |   |                  |  |   |   | <u> </u>   |
| Additives to be used in  |  |   |                  | ity Control, Lime, Chl                         |   |   | •5   |
| Deflocculant, Lubricant, Det   |  |   |                  |  |   |   | •  |
| generally used when drilling<br>viscosifer, alkalinity control, l                                |  |   |                  |  |   |   |  |
| x-cide, SOLTEX terra   | ine, chloride saits, ra  | te ilitration control                                   | denoccularit, it | ibricant, detergent, c                         | ieroaming, wainut                         | snell,  | •:   |
| Drill cuttings disposal  | —<br>method? Leave ir  | n pit. landfill. re                                     | moved offsite    | e. etc.  | Landfill                                  |   |  |
|  | d plan to solidify wha   | M 12  |                  |  | n/a                                       |   | s:   |
|  | site name/permit n   |   | Vereninger (M    | See Attache                                    | 20,000                                    |   | e.   |
| I certify that I understa  | nd and agree to the t  | erms and condition                                      | s of the GENE    | RAL WATER POLLU                                | TION PERMIT iss                           | sued  | \$<br>#  |
| on August 1, 2005, by the Of<br>provisions of the permit are e<br>or regulation can lead to enfo | fice of Oil and Gas of<br>nforceable by law. Vi<br>rcement action. | the West Virginia<br>olations of any terr               | Department of I  | Environmental Protec<br>f the general permit a | tion. I understand<br>and/or other applic | that the  |  |
| I certify under penalty  |  |   |                  |  |   |   |  |
| application form and all attac<br>the information, I believe that                                |  |   |                  |  |   |   |  |
| submitting false information,  |  |   |                  |  | grinicant penantes                        | Rec   | eived  |
| -  |  |   | 7/ -             | -///   |   |   | Oil & Gas  |
| Company Official Signa   |  |   | N                |  |   |   |  |
| Company Official (Type<br>Company Official Title   | а мате)  |   |                  | toria J Roark<br>Supervisor                    |   | JAN_0   | 6 2015   |
| - empany emoids the  | V  |   | Tommany          | COSCIVISOI                                     |   |   |  |
| Subscribed and sworn l   | perfore me this  | 16  | day of           | ELEMBER  | , 20                                      | · · · · · · · · · · · · · · · · · · ·                                     |  |
| My commission expi <del>re</del> s   |  | 7/27/3  | 2018             |  |   | OFFICIAL S<br>STATE OF WEST<br>NOTARY PU<br>Nicholas L. Bur<br>Rt. 1, Box | VIRGINIA<br>JBLIC<br>ngardner<br>k 4<br>251341, 242915 |

Field Reviewed?

| 4  | 17 | 20 | 17 | Ö | 6 | 10 | 7 |   |
|----|----|----|----|---|---|----|---|---|
| 47 | 0  | 1  | 7  | 0 | 6 | 7  | 0 | 7 |

|  |                           | Operat                     | or's Well No.            | 51594 |
|--|---------------------------|----------------------------|--------------------------|-------|
| Proposed Revegetation                                | Treatment: Acres Disturb  | ped±15.7 ac                | Prevegetation pH         | 6.5   |
| Lime   | 3 Tons/acre               | e or to correct to pH      | 6.5                      |       |
| Fertilize type                                       |                           |                            |                          |       |
| Fertilizer Amou                                      | nt1/3                     | lbs/acre (500 lbs minimum) |                          |       |
| Mulch  | 2                         | Tons/acre                  |                          |       |
|  |                           | Seed Mixtures              |                          |       |
| Ten<br>Seed Type<br>KY-31                            | nporary<br>Ibs/acre<br>40 | Seed Type<br>Orchard Grass | Permanent<br>lbs/a<br>15 | cre   |
| Alsike Clover  | 5                         | Alsike Clover              | 5                        |       |
| Annual Rye   | 15                        |                            |                          |       |
| Attach:  |                           | 9                          |                          |       |
| Drawing(s) of road, locati Photocopied section of in |                           |                            |                          |       |
| Plan Approved by:                                    | Donglas Nes               | weln-                      |                          |       |
| Comments: Ins;                                       | -4                        | lations.                   |                          |       |
|  |                           |                            |                          |       |
|  |                           |                            |                          |       |
|  |                           |                            |                          |       |

Title: 01/ 5 600 100 100 100 Date: 12-23-2014

(\_\_\_\_\_) Yes (\_\_\_\_\_) No

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JAN 0 6 2015

ECOT Where energy meets innovation.™

47-017-06707 4701706707

## Site Specific Safety Plan

### EQT OXF 44 Pad

# West Union Doddridge County, WV

| _515939 <u>515940</u>                                      | For Well       | s:<br>  |
|--|----------------|---|
| EQT Production  Lenntling Spenvisor  Title  12-14-14  Date | Date Prepared: | November 26, 2014  Aungles Aluba WV Oil and Gas Inspector  Title  12: 23-2014  Date |

Received
Office of Oil & Gas

# 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

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DEC 1 8 2014

### **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

