

#### 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 08, 2014

#### WELL WORK PERMIT

#### Horizontal 6A Well

This permit, API Well Number: 47-10303042, 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: 513918

Farm Name: DALLISON, RICHARD ET AL

API Well Number: 47-10303042

Permit Type: Horizontal 6A Well

Date Issued: 12/08/2014

API Number: 47 1 0 3 0 3 0 4 2

### PERMIT CONDITIONS

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

#### **CONDITIONS**

- 1. The entire well pad shall be bermed, including a mountable berm at the well pad entrances, to prevent runoff from leaving the pad during drilling and completion operations.
- 2. 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.
- 3. 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.
- 4. 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.
- 5. 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.
- 6. 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.
- 7. 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.
- 8. 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.
- 9. 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.
- 10. 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.
  12/12/14

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

| ) Well Operator: EQT Production  | Company        | 1                               |           | 103              | 4        | 254        |  |  |
|--|----------------|---------------------------------|-----------|------------------|----------|------------|--|--|
| ) Well Operator. <u>EQT Floduction</u>   | Toompany       | Opera                           | tor ID    | County           | District | Quadrangle |  |  |
| 2) Operator's Well Number:   |                | 513918                          |           | _Well Pad Nam    | ne:      | BIG192     |  |  |
| s) Farm Name/Surface Owner :   |                | Dallison                        |           | _Public Road A   | ccess: _ | 7/6        |  |  |
| Elevation, current ground:   | 1,452.0        | Elevation, pro                  | posed p   | ost-construction | :        | 450.0      |  |  |
| s) Well Type: (a) Gas  | _ Oil          | Undergro                        | und Stora | age              |          |            |  |  |
| Other  |                |                                 | _         |                  |          |            |  |  |
| (b) If Gas:  | Shallow        | • De                            | ер        |                  |          |            |  |  |
| н  | orizontal      |                                 |           |                  |          |            |  |  |
| 6) Existing Pad? Yes or No:  | Yes            |                                 |           |                  |          |            |  |  |
| a) Book and Total Vertical Donth   |                |                                 |           | 7655             |          |            |  |  |
| 8) Proposed Total Vertical Depth:  |                |                                 |           | 7655             |          |            |  |  |
| <ol><li>Formation at Total Vertical Depth</li></ol>  |                |                                 |           | Marcellus        |          |            |  |  |
| <ol><li>Proposed Total Measured Dept</li></ol>   |                | 14817<br>5,800<br>549, 581, 780 |           |                  |          |            |  |  |
| <ol> <li>Proposed Horizontal Leg Lengt</li> </ol>  |                |                                 |           |                  |          |            |  |  |
| 12) Approximate Fresh Water Strat  |                | _                               |           | By offset        |          |            |  |  |
| 13) Method to Determine Fresh Wa   |                |                                 |           | 2257, 2370       | Wells    |            |  |  |
| 14) Approximate Saltwater Depths:  |                |                                 | 7/12      | 804, 919, 1009   | 1240     |            |  |  |
| 15) Approximate Coal Seam Depth  |                | as karet other):                | 7-10      | , 604, 515, 1005 |          | e reported |  |  |
| 16) Approximate Depth to Possible<br>17)Does proposed well location<br>adjacent to an active mine? | contain coal s | seams directly over             |           |                  |          |            |  |  |
| (a) If Yes, provide Mine Info:   |                |                                 |           |                  |          |            |  |  |
|  |                |                                 |           |                  |          |            |  |  |
|  |                |                                 |           |                  |          |            |  |  |
|  | Owner:         |                                 |           |                  |          |            |  |  |
|  |                |                                 | DI        | nH               |          |            |  |  |

9-10-17

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#### CASING AND TUBING PROGRAM

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|------------|
| <br>٠,     |

| 18)          |             |                          |       |                                 |                          | 3 NO. 20 THE 2             | 0 = 1 (= 1 = 1  |
|--------------|-------------|--------------------------|-------|---------------------------------|--------------------------|----------------------------|---|
| TYPE         | <u>Size</u> | <u>New</u><br>or<br>Used | Grade | <u>Weight per</u><br><u>ft.</u> | FOOTAGE:<br>for Drilling | INTERVALS:<br>Left in Well | CEMENT:<br>Fill- up (Cu.Ft.)                            |
| Conductor    | 26          | New                      | MC-50 | Varies                          | 80                       | 80                         | 98 C.T.S.   |
| Fresh Water  | 13 3/8      | New                      | MC-50 | 54                              | 1,000                    | 1,000                      | 868 C.T.S.  |
| Coal         | ( - C= C )  | <u>-</u>                 | -     | = -                             | -                        |                            | -   |
| Intermediate | 9 5/8       | New                      | MC-50 | 40                              | 2,765                    | 2,765                      | 1,079 C.T.S.  |
| Production   | 5 1/2       | New                      | P-110 | 20                              | 14,817                   | 14,817                     | See Note 1  |
| Tubing       | 2 3/8       |                          | J-55  | 4.6                             |                          |                            | May not be run, if run will be set<br>100' less than TD |
| Liners       |             |                          |       |                                 |                          |                            |   |

| TYPE         | Size   | Wellbore<br>Diameter | <u>Wall</u><br><u>Thickness</u> | Burst<br>Pressure | <u>Cement</u><br><u>Type</u> | Cement Yield<br>(cu. ft./k) |
|--------------|--------|----------------------|---------------------------------|-------------------|------------------------------|-----------------------------|
| Conductor    | 26     | 30                   | 0.5                             |                   | Construction                 | 1.18                        |
| Fresh Water  | 13 3/8 | 17 1/2               | 0.38                            | 2,480             | * See Note 2                 | 1.21                        |
| Coal         |        |                      |                                 |                   |                              |                             |
| Intermediate | 9 5/8  | 12 3/8               | 0.395                           | 3,590             | * See Note 2                 | 1.21                        |
| Production   | 5 1/2  | 8 1/2                | 0.361                           | 12,640            |                              | 1.27/1.86                   |
| Tubing       |        |                      |                                 |                   | 1 = 1                        |                             |
| Liners       |        |                      |                                 |                   |                              |                             |

#### **Packers**

| 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)

DMH 9-10-14

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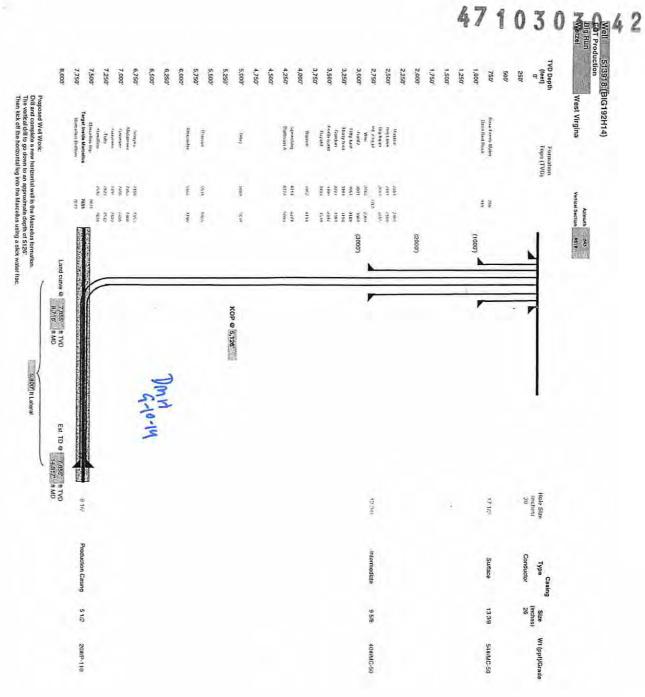
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SEP 15 2014

Environmental Protection 12/12/14

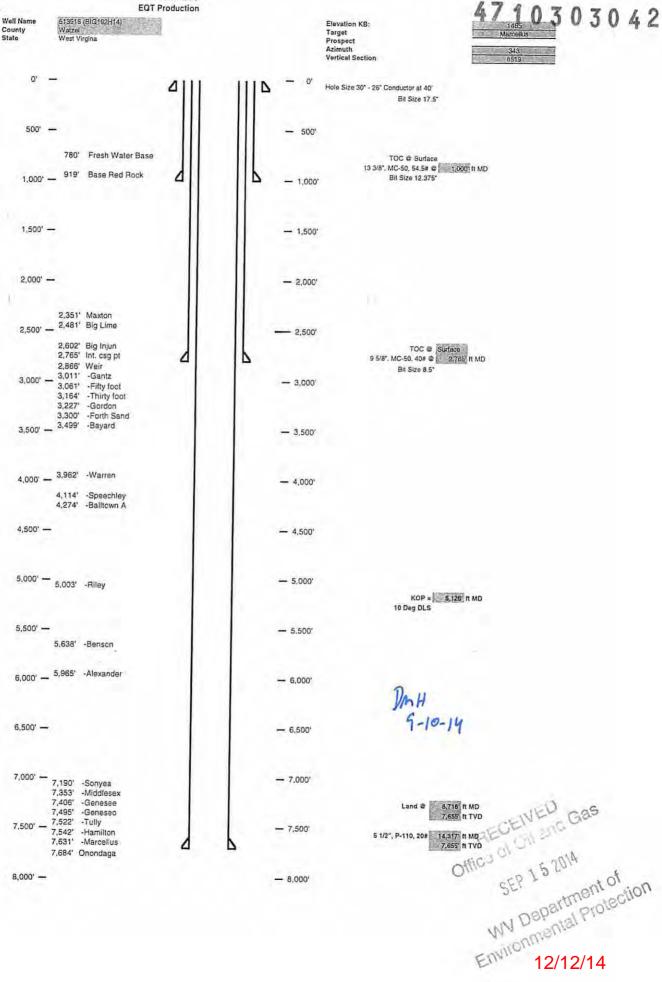
(3/13)

|  | pilot hole: 47 1 0 3 0 3 0 4 to an approximate depth of 5126   |
|--|--|
| then kick off the horizontal leg into the marcellus using a slick water frac.  |  |
| 20) Describe fracturing/stimulating methods in detail, including anticipated max   | pressure and max rate:   |
| dydraulic fracturing is completed in accordance with state regulations using water recycled from prev  |  |
| reshwater sources. This water is mixed with sand and a small percentage (less than 0.3%) of chem   | icals (including 15% Hydrochloric acid,  |
| pelling agent, gel breaker, friction reducer, biocide, and scale inhibitor), referred to in the industry as<br>anticipated treating pressures are expected to average approximately 8500 psi, maximum anticipated  |  |
| approximately 100 bpm. Stage lengths vary from 150 to 300 feet. Average approximately 200,000 l  | barrels of water per stage. Sand sizes   |
| 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 disturbance  |
| <ul><li>23) Describe centralizer placement for each casing string.</li><li>Surface: Bow spring centralizers – One at the shoe and one spaced every 500</li></ul>   | y  |
| Intermediate: Bow spring centralizers— One cent at the shoe and one spaced of  |  |
| Production: One spaced every 1000' from KOP to Int csg shoe  |  |
| 24) Describe all cement additives associated with each cement type.  | face (Type 1 Cement): 0-3% Calcium Chloride  |
| Used to speed the setting of cement slurries.  | 12 N.2 C   |
| 0.4% flake. Loss Circulation Material (LCM) is used to combat the loss of the cement sluntermediate (Type 1 Cement): 0-3% Calcium Chloride. Salt is used in shallow, low temperates.   |  |
| slurries. 0.4% flake. Loss Circulation Material (LCM) is used to combat the loss of whole  |  |
| 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.   |  |
| Tail (Type H Cement): 0.25-0.40% Lignosulfonate (Retarder). Lengthens thickening time.   |  |
| 0.2-0.3% CFR (dispersant). This is to make the cement easier to mix.   |  |
| 60 % Calcuim Carbonate. Acid solubility.   |  |
| 0.4-0.6% Halad (fluid loss). Reduces amount of water lost to formation.  |  |
|  | 1 20 AF with the Ventation P conference in   |
| <ol> <li>Proposed borehole conditioning procedures. <u>Surface</u>: Circulate hole clean (Ap</li> </ol>  |  |
|  |  |
| one full joint until cuttings diminish at surface. When cuttings returning to surface dimini   | sh, continue to circulate an additional 5  |
| one full joint until cuttings diminish at surface. When cuttings returning to surface diminiminutes. To ensure that there is no fill, short trip two stands with no circulation. If there  | sh, continue to circulate an additional 5 is fill, bring compressors back on   |
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API No. 47 - 103 - of 47 10 3 0 3 0 4 2 Operator's Well No. 513918

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

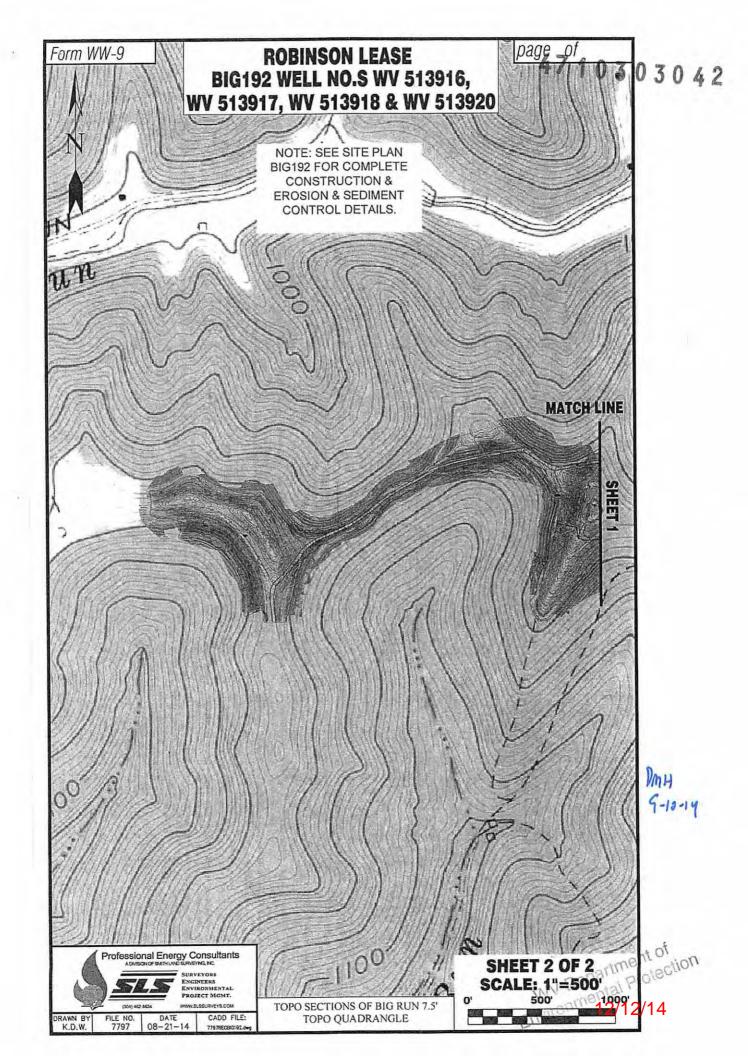
Fluids/Cuttings Disposal & Reclamation Plan

| Operator Name   | EQT P  | roduction Co.   |   | OP Code  |   | <u>-</u> .  |
|---|--|---|---|--|---|---|
| Watershed (HUC10)   | Aunty Run of Sout  | h Fork Fishing Cr   | eek Quad  | Irangle  | Big Run 7.5   | <u> </u>  |
| Elevation   | 1450.0   | _County   | Wetzel  | District   | Grant   | _   |
| Do you anticipate usin<br>Will a pit be used ? Ye   |  |   | to complete the p   | roposed well wor   | k? Yes <u>x</u> No _  | _   |
|   | scribe anticipated pi  |   |   |  |   |   |
|   | liner be used in the   |   | No _  | X If so,   | what ml.?60   | 5   |
| Proposed Dis  |  | cation<br>nd Injection<br>API Number<br>sposal (Su  | ( UIC Permit N  | lumber 001   |   | <u>)</u><br><u>)</u>  |
| Will closed loop syste fluid. The drill cuttings  |  |   |   |  | om the drilling   | - DAH   |
| Drilling medium anti  |  |   |   |  | top-hole sections of the wellbore,<br>, and Pilot hole sections, water base<br>e curve and lateral. | 9-10-14   |
|   | I, what type? Synti  |   |   | Control Lime Chloride  | Salts,Rate Filtration Control   | ol,   |
| Deflocculant, Lubricant, D  |  |   |   |  |   |   |
| generally used when drillin   |  |   |   |  |   | _   |
| viscosifer, alkalinity control  | , lime, chloride salts, ra   | ate filtration contr  | ol, deflocculant, lubric  | ant, detergent, defor  | aming, walnut shell,  | _   |
| x-cide, SOLTEX terra  |  |   |   |  | ( altii   |   |
| Drill cuttings disposa  |  |   |   |  | Landfill<br>n/a   | =   |
|   | and plan to solidify who   |   | used? (Cement, Line   | See Attached L   |   | <del>-</del>  |
| on August 1, 2005, by the provisions of the permit and or regulation can lead to each of the least to each of the least to the information, I believe the submitting false information. Company Official Sig Company Official (Ty | e enforceable by law. Vanforcement action.  Ity of law that I have pe achments thereto and that the information is transition, including the possibuture | f the West Virgini<br>iolations of any to<br>rsonally examine<br>that, based on mo<br>ue, accurate, and | a Department of Enverm or condition of the d and am familiar with a inquiry of those individually complete. I am award is complete. I am award visconment | ronmental Protection a general permit and/ n the information sub- viduals immediately r e that there are signi | i. I understand that the for other applicable law mitted on this esponsible for obtaining           |   |
| Company Official Titl  Subscribed and swor  |  | 5   | Permitting day of   | Sept   | , 20 19   | STORES STORES   |
| Subscribed and swol   | ///  |   |   |  | Notary Public   | 52019   |
| My commission expir   | res  | 3   | 2.24-22   |  | *********************   | OFFICIAL SEAL OF WEST VIRGINIA OTARY PUBLIC Pamela Sykes EQT Production PO Box 280 geport, Wy 26330 sign/Epipes Aud, 24, 2022 |

Field Reviewed?

| Proposed Revegetation Treatme   | nt: Acres Disturbed | no additional disturbance  | Prevegetation | <b>4</b> ₹13 <b>€</b> 18 |   |  | 7 4 |
|---|---------------------|----------------------------|---------------|--------------------------|---|--|-----|
| Lime3   |                     | to correct to pH           |               | All the week             |   |  |     |
| Fertilize type  |                     |                            |               |                          |   |  |     |
| Fertilizer Amount   | 1/3lb               | s/acre (500 lbs minimum)   |               |                          |   |  |     |
| Mulch   | 2                   | Tons/acre                  |               |                          |   |  |     |
|   |                     | Seed Mixtures              |               |                          |   |  |     |
| Temporary<br>Seed Type<br>KY-31                                       | lbs/acre<br>40      | Seed Type<br>Orchard Grass | Permanent     | lbs/acre<br>15           |   |  |     |
| Alsike Clover   | 5                   | Alsike Clover              |               | 5                        |   |  |     |
| Annual Rye  | 15                  |                            |               |                          |   |  |     |
| Drawing(s) of road, location,pit a<br>Photocopied section of involved |                     |                            |               |                          |   |  |     |
| Plan Approved by:   | -                   |                            |               |                          |   |  |     |
| Comments:   |                     |                            |               |                          |   |  |     |
|   |                     |                            |               |                          |   |  |     |
|   |                     |                            |               |                          |   |  |     |
|   |                     |                            |               |                          |   |  |     |
|   |                     |                            |               |                          | - |  |     |
| Title: Oil + Ggr I  | spe ctor            | Date: <b>9</b> -10         | -14           |                          |   |  |     |
| Field Reviewed? (   | /                   | Yes (                      | ) No          |                          |   |  |     |

WV Department of Environmental Protection 12/12/14



# EQT Production Water plan Offsite disposals for Marcellus wells

4710303042

#### 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

PMH 6-10-14

Offic . . Gas

SEP 1 5 2014

WV Department of Environmental Protection



# Site Specific Safety Plan

# EQT BIG 192 Pad

<u>Jacksonburg</u>

Wetzel County, WV

| 513916                               | 513917  | For Wells:<br>513918_ | 513920                                    |   |
|--------------------------------------|---------|-----------------------|---|---|
|                                      |         |                       |   |   |
| EQT Production                       | Date F  | Prepared:             | August 21, 2014  WV Oil and Gas Inspector | - |
| Permitting Sy<br>Title 94-14<br>Date | perusor |                       | Title  G-10-19  Date                      | _ |

