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**west virginia** department of environmental protection

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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

August 18, 2015

**WELL WORK PERMIT**

**Horizontal 6A Well**

This permit, API Well Number: 47-10303122, 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: 513921  
Farm Name: DALLISON, RICHARD  
**API Well Number: 47-10303122**  
**Permit Type: Horizontal 6A Well**  
Date Issued: 08/18/2015

**Promoting a healthy environment.**

# PERMIT CONDITIONS

4710303122

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

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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. 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](mailto:DEPOOGNotify@wv.gov) within 30 days of commencement of drilling.

47 10303122

API NO. 47 - 103 - 03122  
OPERATOR WELL NO. 513921  
Well Pad Name: Big192

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

1) Well Operator: EQT Production Company

306686	103	4	254
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Operator ID      County      District      Quadrangle

2) Operator's Well Number: 513921      Well Pad Name Big192

3) Farm Name/Surface Owner : Richard Dallison et al      Public Road Access: RT 20

4) Elevation, current ground 1,452.0      Elevation, proposed post-construction: 1,452.0

5) Well Type: (a) Gas       Oil       Underground Storage

Other \_\_\_\_\_

(b) If Gas:      Shallow       Deep

Horizontal

6) Existing Pad? Yes or No: Yes

*Dm H*  
*8-3-15*

7) Proposed Target Formation(s), Depth(s), Anticipated Thicknesses and Associated Pressure(s):

Target formation is Marcellus at a depth of 7655 with the anticipated thickness to be 53 feet and anticipated target pressure of 2620 PSI

8) Proposed Total Vertical Depth: 7655

9) Formation at Total Vertical Depth: Marcellus

10) Proposed Total Measured Depth: 12622

11) Proposed Horizontal Leg Length 4,475

12) Approximate Fresh Water Strata Depths: 549, 581, 780

13) Method to Determine Fresh Water Depth: By offset wells

14) Approximate Saltwater Depths: 2257, 2370

15) Approximate Coal Seam Depths: 743, 804, 919, 1009, 1240,

16) Approximate Depth to Possible Void (coal mine, karst, other): None reported

17) Does proposed well location contain coal seams directly overlying or adjacent to an active mine?      Yes \_\_\_\_\_      No x

(a) If Yes, provide Mine Info:      Name: \_\_\_\_\_

Depth: \_\_\_\_\_

Seam: \_\_\_\_\_

Owner: \_\_\_\_\_

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**Office of Oil & Gas**  
**AUG 10 2015**

47 10303122

WW - 6B  
(3/13)

API NO. 47 - 103 - 03122  
 OPERATOR WELL NO. 513921  
 Well Pad Name: BIG192

**CASING AND TUBING PROGRAM**

18)

TYPE	Size (in)	New or Used	Grade	Weight per ft. (lb/ft)	FOOTAGE: For Drilling (ft)	INTERVALS: Left in Well (ft)	CEMENT: Fill- up (Cu.Ft.)
Conductor	26	New	MC-50	77	40	40	49 C.T.S.
Fresh Water	13 3/8	New	J-55	54.5	974	974	847 C.T.S.
Coal	-	-	-	-	-	-	-
Intermediate	9 5/8	New	A-500	40	2,765	2,765	1,079 C.T.S.
Production	5 1/2	New	P-110	20	12,622	12,622	See Note 1
Tubing	2 3/8		J-55	4.6			May not be run, if run will be set 100' less than TD
Liners							

DMH 8-3-15

TYPE	Size (in)	Wellbore Diameter (in)	Wall Thickness (in)	Burst Pressure (psi)	Anticipated Max. Internal Pressure (psi)	Cement Type	Cement Yield (cu. ft./k)
Conductor	26	30	0.312	-	18	Construction	1.18
Fresh Water	13 3/8	17 1/2	0.38	2,730	2184	* See Note 2	1.21
Coal							
Intermediate	9 5/8	12 3/8	0.395	3,950	3160	* See Note 2	1.21
Production	5 1/2	8 1/2	0.361	12,640	10112	-	1.27/1.86
Tubing							
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)

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

Drill and complete a new horizontal well in the Marcellus formation. The vertical to go down to an approximate depth of 8822. 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:

Hydraulic fracturing is completed in accordance with state regulations using water recycled from previously fractured wells and obtained from freshwater sources. This water is mixed with sand and a small percentage (less than 0.3%) of chemicals (including 15% Hydrochloric acid, gelling agent, gel breaker, friction reducer, biocide, and scale inhibitor), referred to in the industry as a "slickwater" completion. Maximum anticipated internal casing pressure is expected to average approximately 8500 psi, maximum anticipated treating rates are expected to average approximately 100 bpm. Stage lengths vary from 150 to 300 feet. Average approximately 200,000 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): 0.15

22) Area to be disturbed for well pad only, less access road (acres): No Additional

23) Describe centralizer placement for each casing string.

- Surface: Bow spring centralizers – One at the shoe and one spaced every 500'.
- Intermediate: Bow spring centralizers– One cent at the shoe and one spaced every 500'.
- 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 cement slurry to a thief zone.

Intermediate (Type 1 Cement): 0-3% Calcium Chloride. Salt is used in shallow, low temperature formations to speed the setting of cement slurries. 0.4% flake. Loss Circulation Material (LCM) is used to combat the loss of whole drilling fluid or cement slurry (not filtrate) to a thief zone.

Production:

DMH  
8-3-15

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 % Caluim Carbonate. Acid solubility.

0.4-0.6% Halad (fluid loss). Reduces amount of water lost to formation.

25) Proposed borehole conditioning procedures. Surface: Circulate hole clean (Approximately 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. To ensure that there is no fill, short trip two stands with no circulation. If there is fill, bring compressors back on and circulate hole clean. A constant rate of higher than expected cuttings volume likely indicates washouts that will not clean up.

Intermediate: Circulate hole clean (Approximately 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. If foam drilling, to enhance hole cleaning use a soap sweep or increase injection rate & foam concentration.

Production: Pump marker sweep with nut plug to determine actual hole washout. Calculate a gauge 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.

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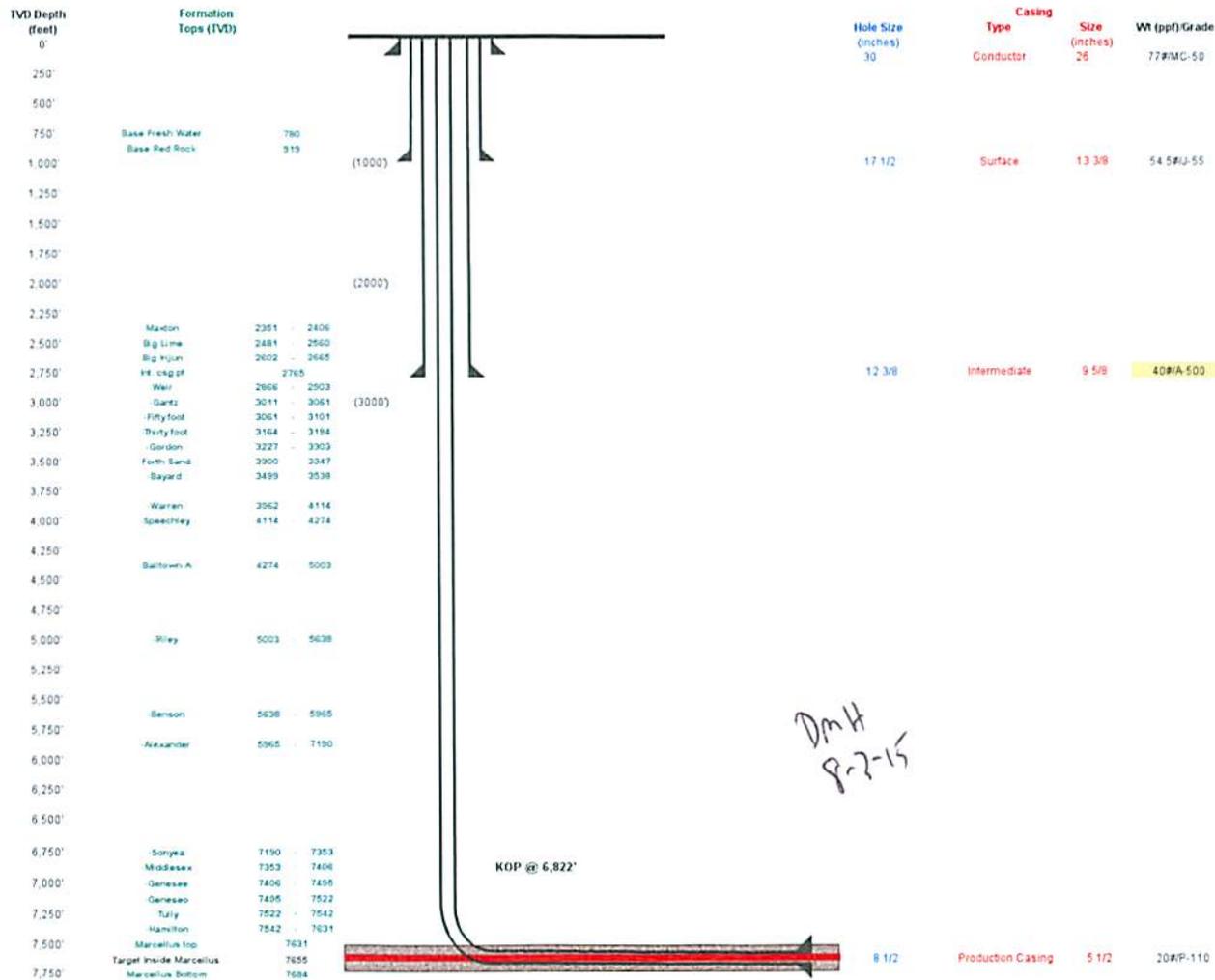
\*Note: Attach additional sheets as needed.

Well 513921 (BIG192H17)  
 EQT Production  
 Big Run  
 Wetzel West Virginia

Azimuth 144.42  
 Vertical Section 5155

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 Office of Oil & Gas  
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4710303122



DmH  
 8-7-15

KOP @ 6,822'

Land curve @ 7,655' TVD  
 8,147' MD  
 Est TD @ 7,655' TVD  
 12,622' MD  
 4.475' Lateral

Proposed Well Work  
 Drill and complete a new horizontal well in the Marcellus formation  
 The vertical drill to go down to an approximate depth of 6822'  
 Then kick off the horizontal leg into the Marcellus using a slick water frac

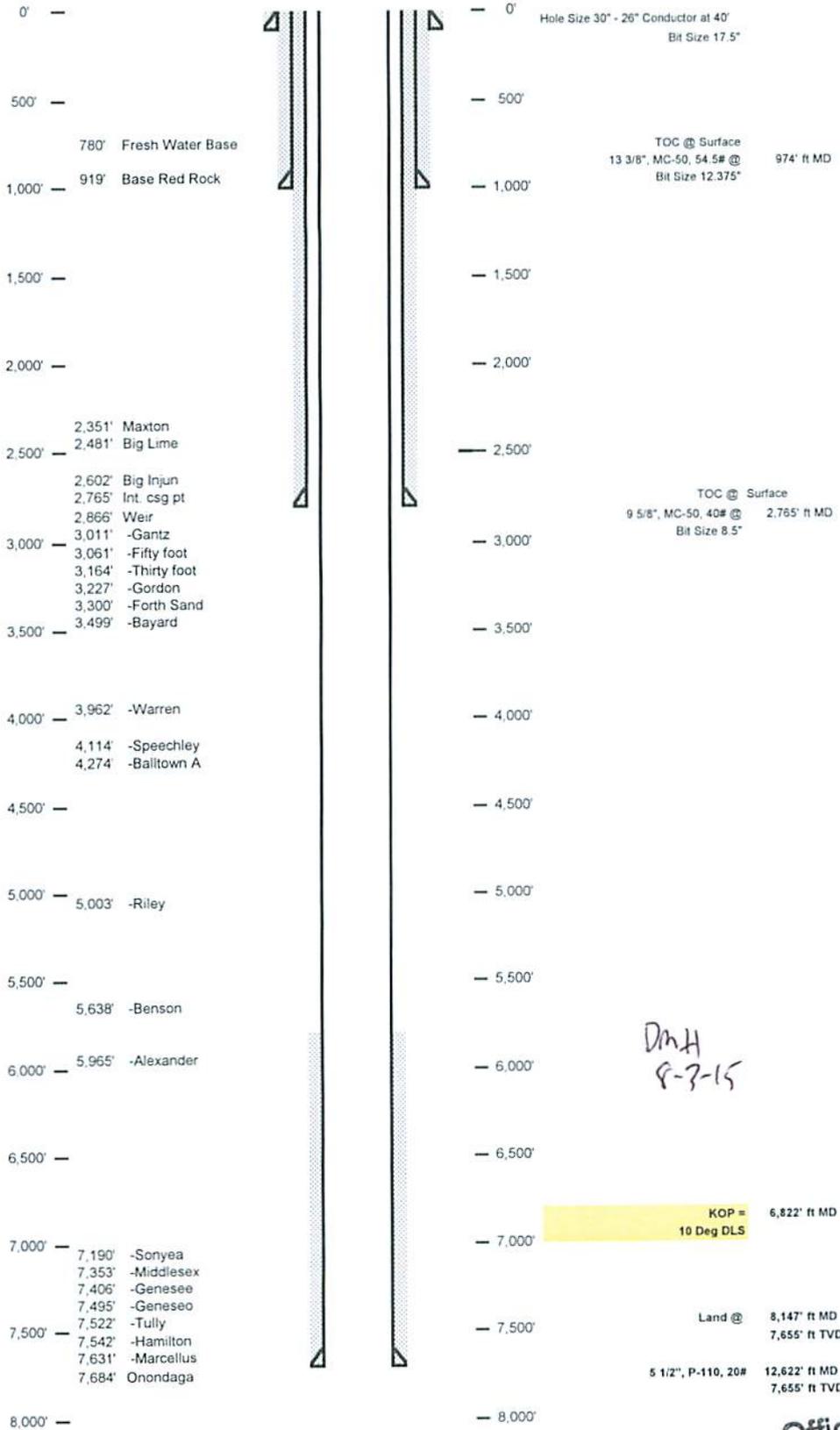
# 47 10303122

Well Schematic  
EQT Production

Well Name 513921 (BIG192H17)  
County Wetzel  
State West Virginia

Elevation KB:  
Target  
Prospect  
Azimuth  
Vertical Section

1465
Marcellus
144.42
5155



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47 10 303 1 2 2

west virginia department of environmental protection

Office of Oil and Gas  
601 57<sup>th</sup> Street, SE  
Charleston, WV 25304  
(304) 928-0450  
(304) 928-0452 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

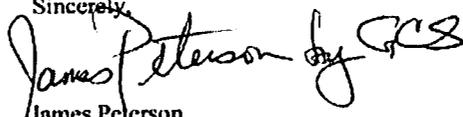
Re: Cement Variance Request

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 Flakc-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,  
  
James Peterson  
Environmental Resources Specialist / Permitting

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Received  
Office of Oil & Gas  
JUN 08 2015



47 10303122

west virginia department of environmental protection

Office of Oil and Gas  
601 57<sup>th</sup> Street, SE  
Charleston, WV 25304  
(304) 928-0450  
(304) 928-0452 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

2.) Laboratory testing results indicate that the blend listed in Fact No.1 will achieve a 500 psi compressive strength within 6 hours and a 2,435 psi compressive strength within 24 hours.

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Office of Oil & Gas  
JUN 03 2015**

4710303122

**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

Received  
Office of Oil & Gas  
JUN 08 2015

WW-9  
(2/15)

STATE OF WEST VIRGINIA  
DEPARTMENT OF ENVIRONMENTAL PROTECTION  
OFFICE OF OIL AND GAS  
Fluids/Cuttings Disposal & Reclamation Plan

Operator Name EQT Production Company OP Code 306686

Watershed (HUC10) Aunty Run of South Fork Fishing Creek Quadrangle Big Run 7.5

Do you anticipate using more than 5,000 bbls of water to complete the proposed well work? Yes  No

Will a pit be used? Yes:  No:

If so please describe anticipated pit waste: flowback water & residual solids

Will a synthetic liner be used in the pit? Yes  No  If so, what ml.? 60

Proposed Disposal Method For Treated Pit Wastes:

- Land Application
- Underground Injection ( UIC Permit Number 0014, 8462, 4037 )
- Reuse (at API Number Various )
- Off Site Disposal (Supply form WW-9 for disposal location)
- Other (Explain \_\_\_\_\_ )

Will closed loop system be used? Yes, The closed loop system will remove drill cuttings from the drilling fluid. The drill cuttings are then prepared for transportation to an off-site disposal facility.

Drilling medium anticipated for this well (vertical and horizontal)? Air, freshwater, oil based, etc.

Air is used to drill the top-hole sections of the wellbore (surface, intermediate, and pilot). Water based mud may be necessary depending on hole conditions to stabilize and drill the intermediate section. The pilot hole, curve, and lateral sections will be drilled with either air, water based mud, or oil based mud.

- If oil based, what type? Synthetic, petroleum, etc. Synthetic mud

Additives to be used in drilling medium? Air - biodegradable oil lubricant, detergent, defoaming, water. Water based mud - Barite, viscosifer, alkalinity control, lime, filtration control, deflocculates, biodegradable oil lubricant, defoaming, walnut shell, salt, x-cide, carbonates.

Oil based mud - synthetic base oil, emulsifier, salt, lime, viscosifer, alkalinity control, filtration control, deflocculates, biodegradable oil lubricant, defoaming, carbonates.

Drill cuttings disposal method? Leave in pit, landfill, removed offsite, etc. Landfill

- If left in pit and plan to solidify what medium will be used? (Cement, Lime, sawdust) n/a

- Landfill or offsite name/permit number? See Attached List

Permittee shall provide written notice to the Office of Oil and Gas of any load of drill cuttings or associated waste rejected at any West Virginia solid waste facility. The notice shall be provided within 24 hours of rejection and the permittee shall also disclose where it was properly disposed.

I certify that I understand and agree to the terms and conditions of the GENERAL WATER POLLUTION PERMIT issued on August 1, 2005, by the Office of Oil and Gas of the West Virginia Department of Environmental Protection. I understand that the provisions of the permit are enforceable by law. Violations of any term or condition of the general permit and/or other applicable law or regulation can lead to enforcement action.

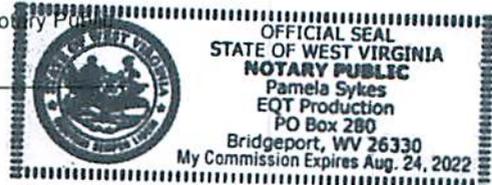
I certify under penalty of law that I have personally examined and am familiar with the information submitted on this application form and all attachments thereto and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine or imprisonment.

Company Official Signature [Signature]  
Company Official (Typed Name) Victoria J. Roark  
Company Official Title Permitting Supervisor

Received  
Office of Oil & Gas  
AUG 10 2015

Subscribed and sworn before me this 7 day of Aug, 20 15

My commission expires 8-24-22



Operator's Well No. 47

Proposed Revegetation Treatment: Acres Disturbed 0.15 Prevegetation pH 6.5

Lime 3 Tons/acre or to correct to pH 6.5

Fertilize type Granular 10-20-20

Fertilizer Amount 13 lbs/acre (500 lbs minimum)

Mulch 2 Tons/acre

Seed Mixtures

Temporary		Permanent	
Seed Type	lbs/acre	Seed Type	lbs/acre
KY-31	<u>40</u>	Orchard Grass	<u>15</u>
Alsike Clover	<u>5</u>	Alsike Clover	<u>5</u>
Annual Rye	<u>15</u>		

Attach:  
Drawing(s) of road, location, pit and proposed area for land application.

Photocopied section of involved 7.5' topographic sheet.

Plan Approved by: [Signature]

Comments: \_\_\_\_\_

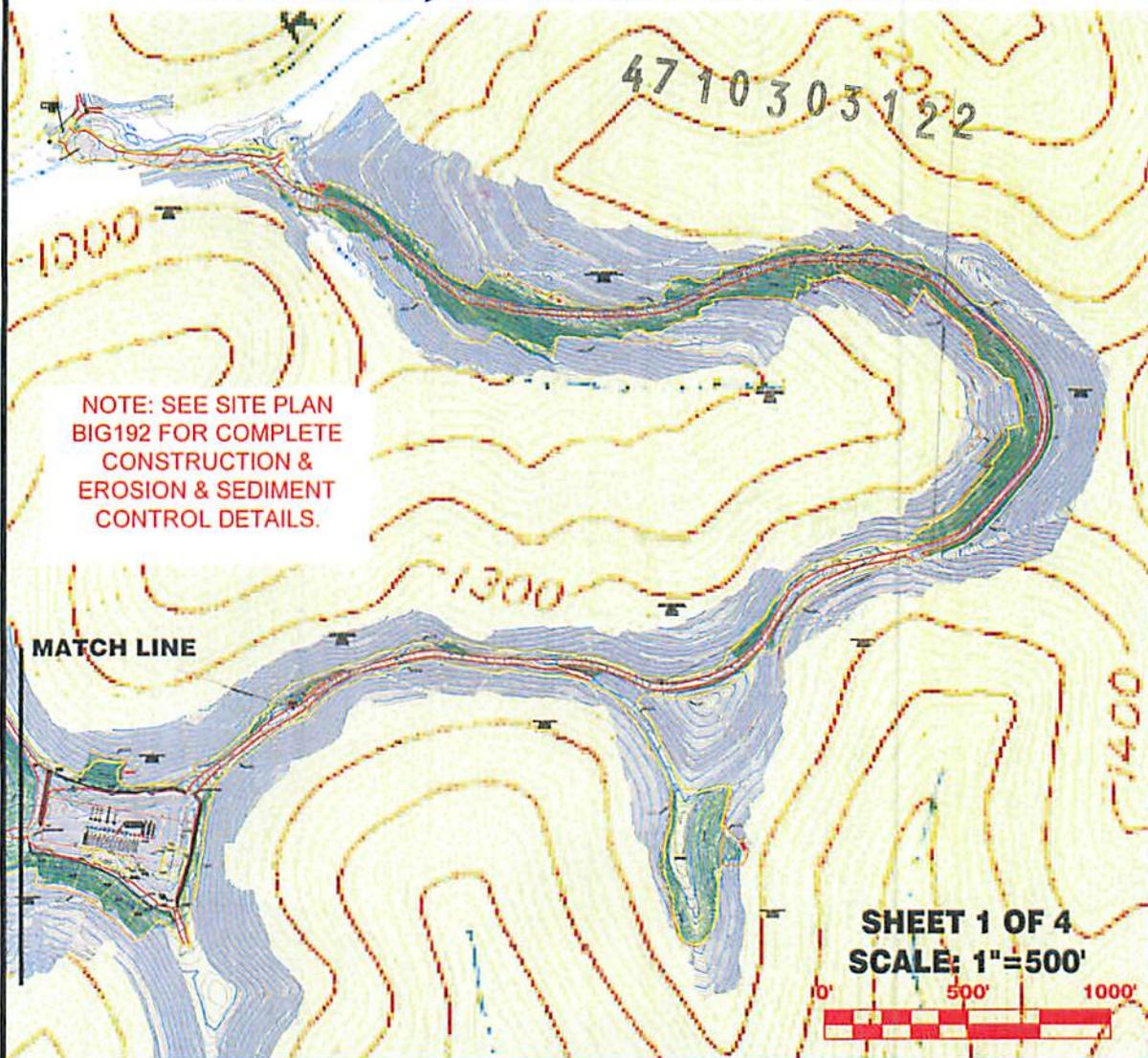
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\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Title: Oil & Gas Inspector Date: 6-1-15

Field Reviewed? (  ) Yes (  ) No

RECEIVED  
Office of Oil and Gas  
JUN 10 2015  
WV Department of  
Environmental Protection

**BIG192 WELL NO.S WV 513921, WV 513922,  
WV 515949, WV 515950 & WV 515951**

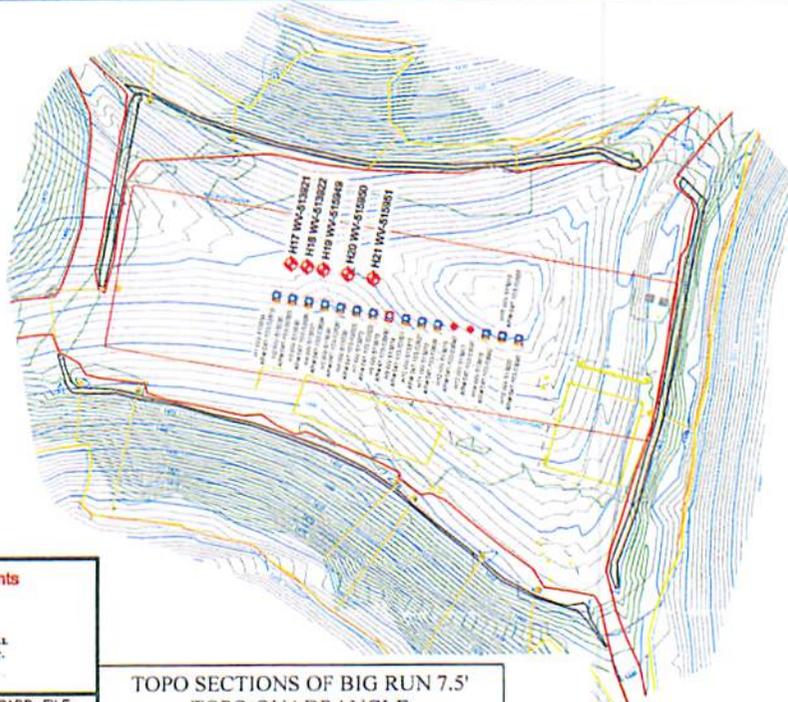


Detail Sketch for Proposed BIG192 Well No.s WV 513921, WV 513922, WV 515949, WV 515950 & WV 515951



Not To Scale

**NOTE: SEE SITE PLAN  
BIG192 FOR COMPLETE  
CONSTRUCTION &  
EROSION & SEDIMENT  
CONTROL DETAILS.**



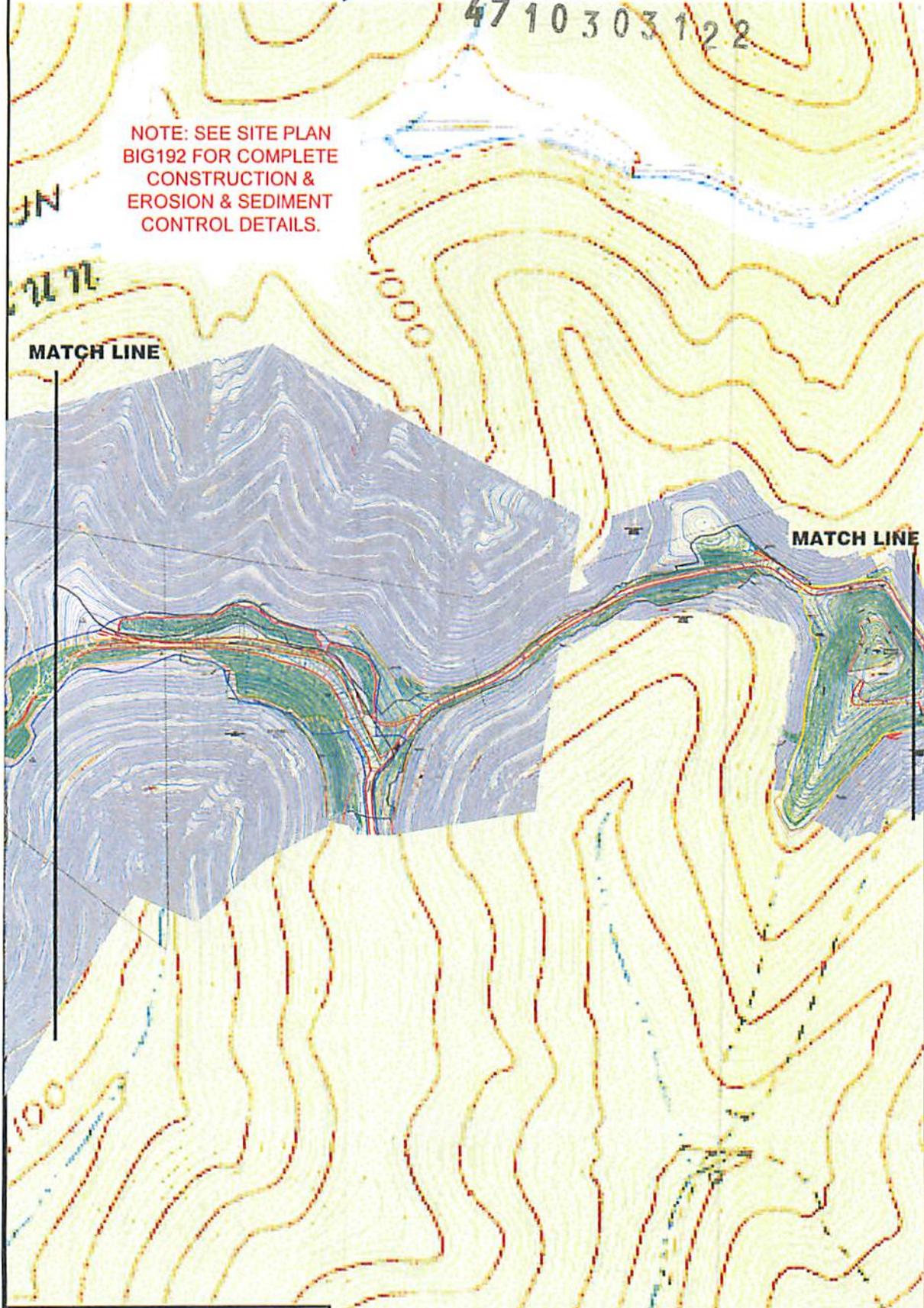
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TOPO SECTIONS OF BIG RUN 7.5'  
TOPO QUADRANGLE

**BIG192 WELL NO.S WV 513921, WV 513922,  
WV 515949, WV 515950 & WV 515951**

47 10 30 3 12.2

NOTE: SEE SITE PLAN  
BIG192 FOR COMPLETE  
CONSTRUCTION &  
EROSION & SEDIMENT  
CONTROL DETAILS.



MATCH LINE

MATCH LINE

**Professional Energy Consultants**  
A DIVISION OF BATHURST SURVEYING PC.



**SLS** SURVEYORS  
ENGINEERS  
ENVIRONMENTAL  
PROJECT MGMT.

**SHEET 2 OF 4**  
**SCALE: 1"=500'**



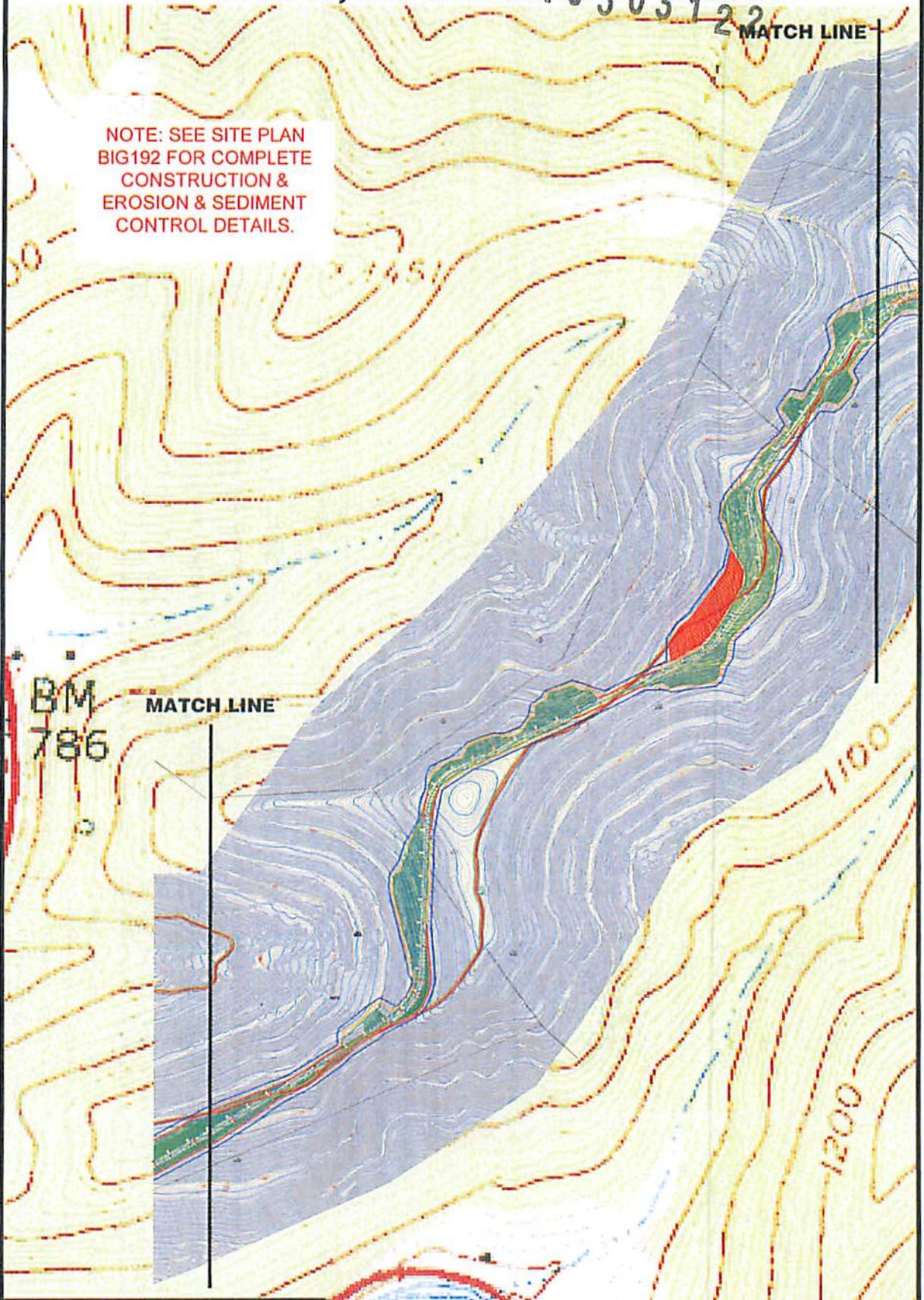
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TOPO SECTIONS OF BIG RUN 7.5'  
TOPO QUADRANGLE

**BIG192 WELL NO.S WV 513921, WV 513922,  
WV 515949, WV 515950 & WV 515951**

MATCH LINE

NOTE: SEE SITE PLAN  
BIG192 FOR COMPLETE  
CONSTRUCTION &  
EROSION & SEDIMENT  
CONTROL DETAILS.



BM  
786

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A DIVISION OF BETHLEHEM SURVEYING, INC.



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PROJECT MGMT.

**SHEET 3 OF 4**  
**SCALE: 1"=500'**

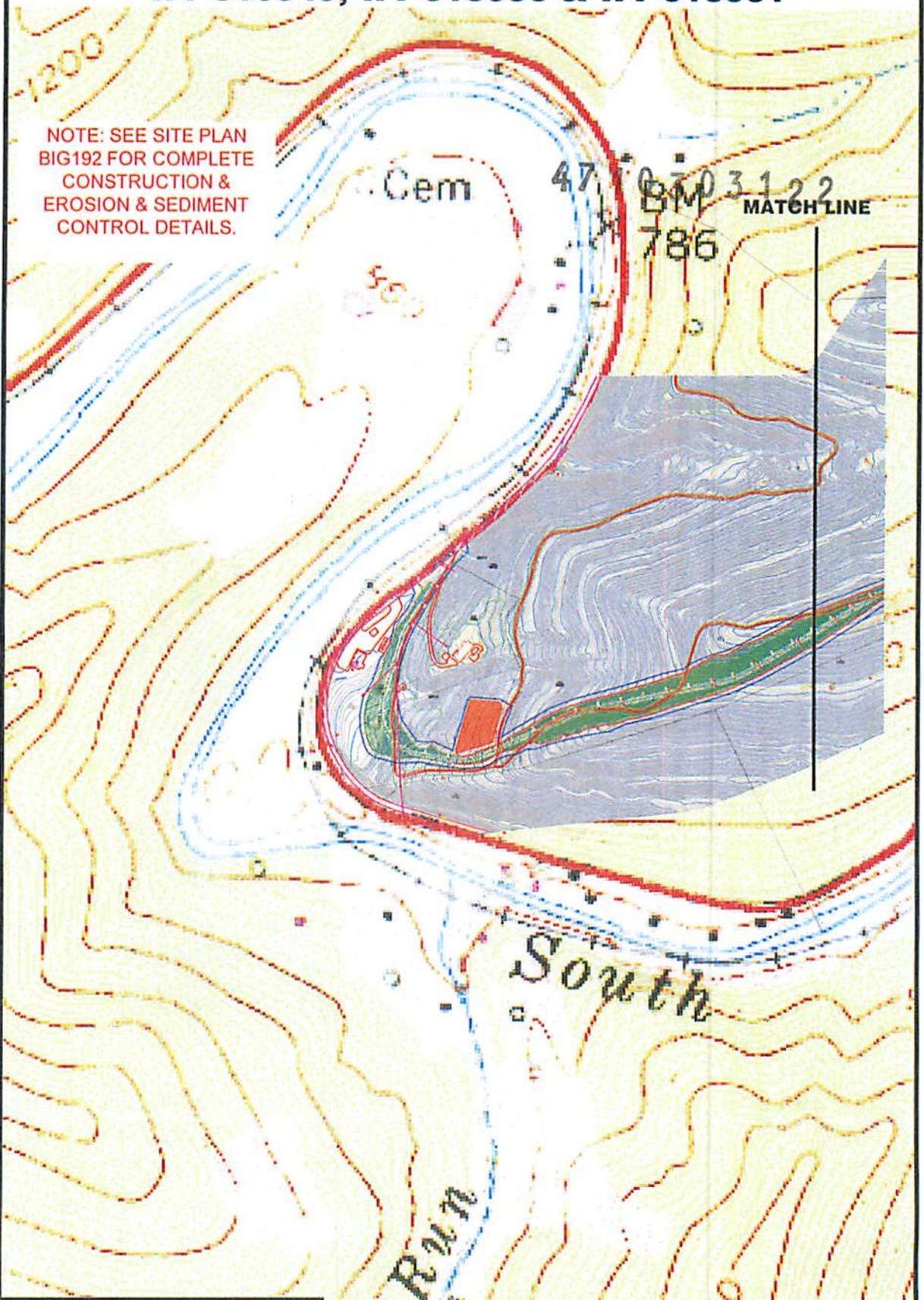


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TOPO SECTIONS OF BIG RUN 7.5'  
TOPO QUADRANGLE

**BIG192 WELL NO.S WV 513921, WV 513922,  
WV 515949, WV 515950 & WV 515951**

NOTE: SEE SITE PLAN  
BIG192 FOR COMPLETE  
CONSTRUCTION &  
EROSION & SEDIMENT  
CONTROL DETAILS.



**Professional Energy Consultants**  
A DIVISION OF GAITHERLAND ASSOCIATES, INC.



**SURVEYORS  
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DRAWN BY: K.D.W. FILE NO.: 7797 DATE: 05-19-15 CADD FILE: 7797REC0192-R2.dwg

**SHEET 4 OF 4**  
**SCALE: 1"=500'**



TOPO SECTIONS OF BIG RUN 7.5'  
TOPO QUADRANGLE

**WEST VIRGINIA GEOLOGICAL PROGNOSIS**

Horizontal Well  
513921 (BIG192H17)

v 2015.1

**Drilling Objectives:** Marcellus  
**County:** Wetzel  
**Quad:** Big Run  
**Elevation:** 1465 KB 1452 GL  
**Surface location** Northing: 376142.08 Easting: 1694574.82  
**Landing Point** Northing: 375893.44 Easting: 1695355.26  
**Toe location** Northing: 372254.1 Easting: 1697959.26  
**Recommended Azimuth** 144.42 Degrees Recommended LP to TD:

4710303122

TVD: 7655  
TVD: 7655  
4,475'

**Proposed Logging Suite:** Formation top depths based on open hole log run on pilot hole well 513538  
Mudloggers to be on location at kickoff point to run samples and measure gas thru both the curve and lateral sections.

**Recommended Gas Tests:** 1800, 2050, 2600, Intm Csg. Pt., 3400, 4900, 5250, KOP, (Gas test at any mine void)  
Gas test during any trip or significant downtime while drilling the lateral section.

**ESTIMATED FORMATION TOPS**

Formation	Top (TVD)	Base (TVD)	Lithology	Comments	Top RR	Base RR
Fresh Water Zone	1	780		FW @ 549,581,780,...	73	919
Washington	743	745	Coal			
Coal	804	814	Coal			
Coal	919	924	Coal			
Coal	1009	1019	Coal			
Pittsburgh	1240	1245	Coal	No past, active, or planned mining in Pittsburgh seam		
Maxton	2351	2406	Sandstone	SW @ 2257,2370,...		
Big Lime	2481	2560	Limestone			
Big Injun	2602	2665	Sandstone	Storage is not of concern		
Int. csg pt	2765					
Weir	2866	2903	Sandstone			
Top Devonian	3011					
-Gantz	3011	3061	Silty Sand			
-Fifty foot	3061	3101	Silty Sand			
-Thirty foot	3164	3194	Silty Sand			
-Gordon	3227	3303	Silty Sand			
-Forth Sand	3300	3347	Silty Sand			
-Bayard	3499	3538	Silty Sand			
-Warren	3962	4114	Silty Sand			
-Spechley	4114	4274	Silty Sand			
-Balltown A	4274	5003	Silty Sand			
-Riley	5003	5638	Silty Sand			
-Benson	5638	5965	Silty Sand			
-Alexander	5965	7190	Silty Sand			
-Elks	7190	7190	Gray Shales and Silts			
-Sonyea	7190	7353	Gray shale			
-Middlesex	7353	7406	Shale			
-Genesee	7406	7495	with black shale			
-Genesee	7495	7522	Black Shale			
-Tully	7522	7542	Limestone			
-Hamilton	7542	7631	calcareous shales			
-Marcellus	7631	7684	Black Shale			
-Purcell	7641	7644	Limestone			
<b>-Lateral Zone</b>	<b>7655</b>	<b>7655</b>		Start Lateral at 7655 ft, drill to 7655 ft		
-Cherry Valley	7660	7664	Limestone			
Onondaga	7684		Limestone			

Target Thickness 53 feet  
Max Anticipated Rock Pressure 2620 PSI

**Comments:**

Note that this is a TVD prog for a horizontal well (azimuth of 144.42 degrees; target formation = Marcellus). All measurements taken from estimated KB elevation. Water and coal information estimated from surrounding well data.

Intermediate casing point is recommended 100' beneath the Big Injun to shut off any water production from the Upper Devonian sands. Intermediate casing should be cemented into the surface string, per WV regulations.

The estimated TD is the TVD landing point for the horizontal section of well, with the plan to then drill to a final TVD of 7655' at the toe of the lateral. The geologic structure is unknown at this time.

**Red rock information updated using offsetting wells in addition to subsea red rock encountered while drilling nearby laterals of the BIG190 pad.**

**LATERAL DRILLING TOLERANCES**

**Mapview - Left of borehole:** Deviate as little as possible left to avoid drilled lateral 513538  
**Mapview - Right of borehole:** Deviate as little as possible right to avoid drilled lateral 513534  
**Mapview - TD:** DO NOT EXTEND beyond recommended wellbore to avoid lease line

**RECOMMENDED CASING POINTS**

**Fresh Water/Coal** CSG OD 13 3/8 CSG DEPTH: 974  
**Intermediate 1:** CSG OD 9 5/8 CSG DEPTH: 2765  
**Production:** CSG OD 5 1/2 CSG DEPTH: @ TD

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J. Dereume/ E. Glick Author Date Created Plat Date  
 Prog created: JMD 2/3/2015 9/7/2014  
 updated: EVG 3/5/2015 2/23/2015  
 revised surface casing to 50' below EVG 7/8/2015  
 revised TD: EVG 7/21/2015 7/16/2015

- COAL
- PILOT HOLE
- CASING PROGRAM
- STORAGE

4710303122

Well Number: 513921 (BIG192H17)

Casing and Cementing		Deepest Fresh Water: 780'		
Type	Conductor	Surface	Intermediate	Production
Hole Size, In.	30	17 1/2	12 3/8	8 1/2
Casing Size, OD In.	26	13 3/8	9 5/8	5 1/2
Casing Wall Thickness, In.	0.312	0.380	0.395	0.361
Depth, MD	40'	974'	2,765'	12,622'
Depth, TVD	40'	974'	2,765'	7,655'
Centralizers Used	Yes	Yes	Yes	Yes
Weight/Grade	77#/MC-50	54.5#/J-55	40#/A-500	20#/P-110
New or Used	New	New	New	New
Pressure Testing	-	20% Greater than exp. Pressure	20% Greater than exp. Pressure	20% greater than exp. fracture pressure
After Fracture Pressure Testing	-	-	-	20% greater than exp. shut pressure
ID, in	25.376	12.615	8.835	4.778
Burst (psi)	-	2,730	3,950	12,640
Collapse (psi)	-	1,130	2,570	11,100
Tension (mlbs)	-	514	493	587
Cement Class	-	-	-	H
Cement Type	Construction	1	1	-
Cement Yield	1.18	1.21	1.21	1.27/1.86
Meets API Standards	-	Yes	Yes	Yes
WOC Time	-	Min. 8 hrs	Min. 8 hrs	Min. 8 hrs
Top of Cement (Planned)	Surface	Surface	Surface	5,822'
Fill (ft.)	40'	974'	2,765'	6,800'
Percent Excess	-	20	20	10
Est. Volume (cu ft)	49	847	1,079	1,739
Est. Volume (BBLs)	9	151	192	310

DMH

8-3-15

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AUG 10 2015



6/3

June 8, 2015

47 10 303 122

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

Re: Revision to 47-103-03122, 103-03110 & 103-03111

Dear Mr. Smith,

Enclosed is an updated WW-6A, Notice of Application, additional WW-6A4, Notice of Intent to Drill, and WW-6A5, Planned Operations and the mail receipts. There were 3 surface owners omitted when we mailed the original application. We have since mailed them copies of the permit application. Please replace these pages in the application and re-start the 30 day clock.

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

Sincerely,

Vicki Roark  
Permitting Supervisor-WV

Enc.

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Office of Oil and Gas  
JUN 10 2015  
WV Department of  
Environmental Protection



47 10303122

April 10, 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 (BIG192)

Dear Mr. Smith,

EQT is requesting the 13-3/8" surface casing be set at 930' KB, 150' below the deepest fresh water. The previous wells drilled on this pad set 13-3/8" casing at approximately 1000' KB. This will cover up red rock formations that have given EQT drilling issues in the past. We will set the 9-5/8" intermediate string at 2765' KB, below the porosity zone in the Big Injun formation.

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

Sincerely,

Vicki Roark  
Permitting Supervisor

Enc.

*Dmit  
6-1-15*

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47 1 0 3 0 3 1 2 2

**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

**BROAD STREET ENERGY LLC**

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

**LAD LIQUID ASSETS DISPOSAL INC.**

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

**TRIAD ENERGY**

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

**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

**KING EXCAVATING CO.**

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

**Waste Management - Meadowfill Landfill**

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

*DMH*  
*6-1-15*

**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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4710303122

Where energy meets innovation.™

# Site Specific Safety Plan

EQT BIG 192 Pad

Jacksonburg

Wetzel County, WV

513921 \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

For Wells:

[Signature]  
EQT Production  
Permitting Supervisor  
Title  
5/27/15  
Date

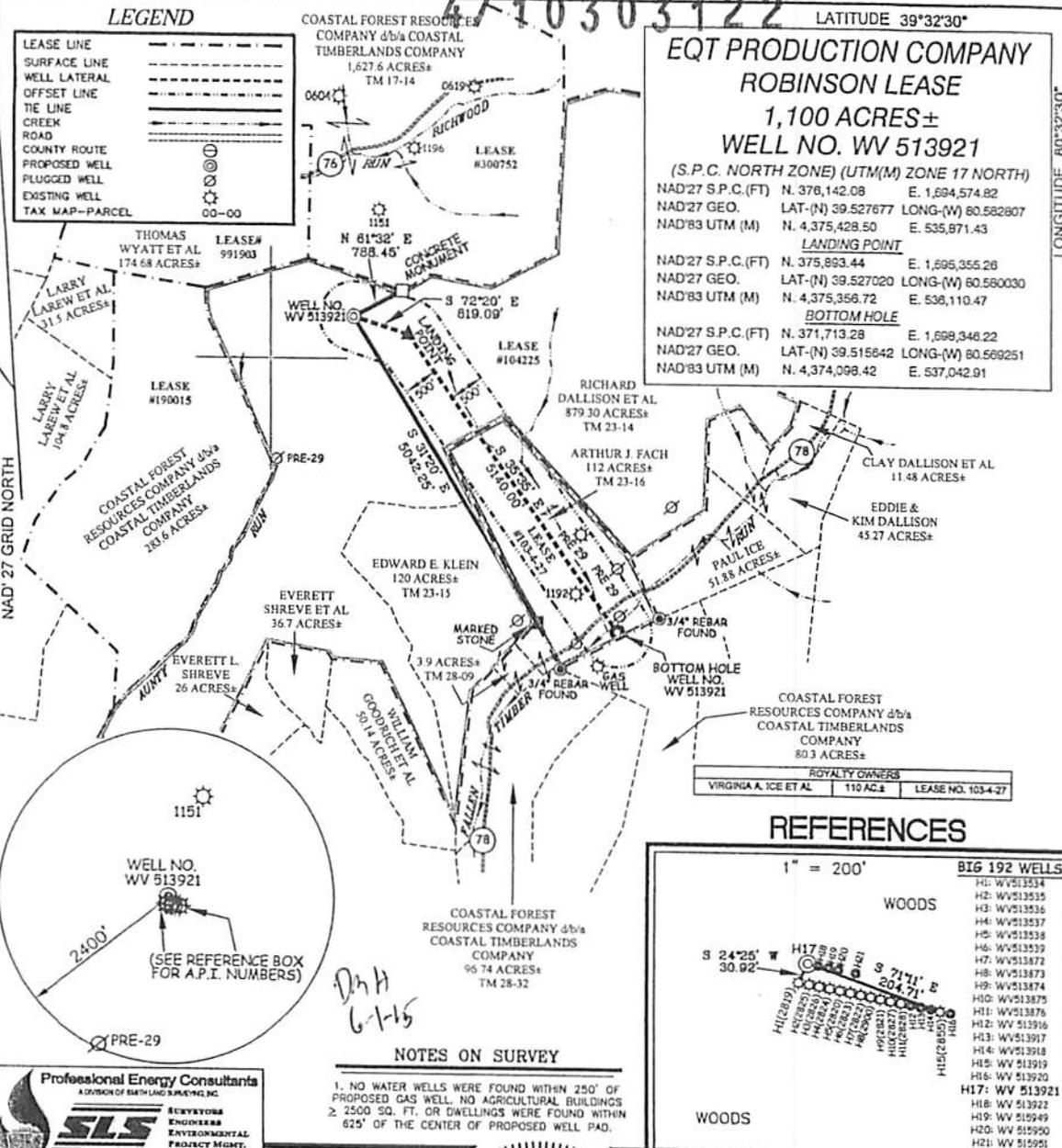
Date Prepared:

August 21, 2014

[Signature]  
WV Oil and Gas Inspector  
Oil & Gas Inspector  
Title  
6-1-15  
Date

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JUN 10 2015  
WV Department of  
Environmental Protection

47-10303122



**Professional Energy Consultants**  
A DIVISION OF BATH LAND & REALTY, INC.  
**SLS**  
SURVEYORS  
ENGINEERS  
ENVIRONMENTAL  
PROJECT MGMT.  
(304) 487-8834  
WWW.SLSURVEYS.COM

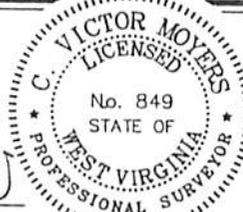
**NOTES ON SURVEY**  
1. NO WATER WELLS WERE FOUND WITHIN 250' OF PROPOSED GAS WELL. NO AGRICULTURAL BUILDINGS  
2. 2500 SQ. FT. OR DWELLINGS WERE FOUND WITHIN 625' OF THE CENTER OF PROPOSED WELL PAD.

**REFERENCES**  
1" = 200'

WELL NO.	WELL NAME
H1	WV513534
H2	WV513535
H3	WV513536
H4	WV513537
H5	WV513538
H6	WV513539
H7	WV513572
H8	WV513873
H9	WV513874
H10	WV513875
H11	WV513876
H12	WV 513916
H13	WV513917
H14	WV513918
H15	WV 513919
H16	WV 513920
H17	WV 513921

I THE UNDERSIGNED, HEREBY CERTIFY THAT THIS PLAN IS CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF AND SHOWS ALL THE INFORMATION REQUIRED BY LAW AND THE REGULATIONS ISSUED AND PRESCRIBED BY THE DIVISION OF ENVIRONMENTAL PROTECTION.

P.S. 849 *C. Victor Moyers*



(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS.  
DATE MAY 05 20 15  
REVISED \_\_\_\_\_  
OPERATORS WELL NO. WV 513921  
API WELL NO. 47  
STATE WV COUNTY WETZEL PERMIT \_\_\_\_\_

MINIMUM DEGREE OF ACCURACY 1/200 FILE NO. 7797P513921  
HORIZONTAL & VERTICAL CONTROL DETERMINED BY DGPS (SURVEY GRADE TIE TO CORS NETWORK) SCALE 1" = 2000'

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

WELL TYPE: OIL  GAS  LIQUID INJECTION  WASTE DISPOSAL  IF "GAS" PRODUCTION  STORAGE  DEEP  SHALLOW

LOCATION: ELEVATION 1,452' (PAD ELEVATION) WATERSHED AUNTY RUN OF SOUTH FORK FISHING CREEK  
DISTRICT GRANT COUNTY WETZEL QUADRANGLE BIG RUN 7.5  
SURFACE OWNER RICHARD DALLISON ET AL ACREAGE 879.305  
ROYALTY OWNER ED BROOME, INC ET AL ACREAGE 1,100±

PROPOSED WORK: DRILL  CONVERT  DRILL DEEPER  REDRILL  FRACTURE OR STIMULATE  PLUG OFF OLD   
FORMATION  PERFORATE NEW FORMATION  PLUG AND ABANDON  CLEAN OUT AND REPLUG  OTHER

PHYSICAL CHANGE IN WELL (SPECIFY) \_\_\_\_\_ TARGET FORMATION MARCELLUS  
ESTIMATED DEPTH TVD 7,631'

WELL OPERATOR EQT PRODUCTION COMPANY DESIGNATED AGENT REX C. RAY  
ADDRESS 115 PROFESSIONAL PLACE P.O. BOX 280 BRIDGEPORT, WV 26330 ADDRESS 115 PROFESSIONAL PLACE P.O. BOX 280 BRIDGEPORT, WV 26330

LONGITUDE 80°32'30"

COUNTY NAME

PERMIT

47 10303122

**Anticipated Frac Additives**  
**Chemical Names and CAS numbers**

<u>Material</u>	<u>Ingredient</u>	<u>CAS Number</u>
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*  
*6-1-15*

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Environmental Protection

**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

47 10305722  
**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



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

OPERATOR: EQT Production Company

LEASE NAME AND NUMBER: BIG-192 Well Pad 4710303122

COMMENTS

The initial field and/or mapping review of the area surrounding the proposed well site revealed the below listed surface owner(s) that were potentially utilizing 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 CONTACTED OR NOTIFIED

Site 1 Spacing 7250' Owner/Occupant: Susan Goodrich  
 Address: P.O. Box 43, Jacksonburg, WV 26377 Ph: (304)-889-2748  
 Field Contact Date: 09/08/2014 Located: Yes Date Located: 09/08/2014 Source: Water Well  
 If No, declined by who \_\_\_\_\_ Letter/Notice Date: 1st N/A 2nd N/A Certified (3rd) N/A  
 Comments Northing: 39.533458  
Easting: 80.605796

Site 2 Spacing 6975' Owner/Occupant: Harry Goodrich  
 Address: P.O. Box 144, Jacksonburg, WV 26377 Ph: (304)-889-2709  
 Field Contact Date: 09/08/2014 Located: Yes Date Located: 09/08/2014 Source: Water Well  
 If No, declined by who \_\_\_\_\_ Letter/Notice Date: 1st N/A 2nd N/A Certified (3rd) N/A  
 Comments Northing: 39.533377  
Easting: 80.607097

Site 3 Spacing 7315' Owner/Occupant: Susan Goodrich  
 Address: P.O. Box 43, Jacksonburg, WV 26377 Ph: (304)-889-2748  
 Field Contact Date: 09/08/2014 Located: Yes Date Located: 09/08/2014 Source: Creek  
 If No, declined by who \_\_\_\_\_ Letter/Notice Date: 1st N/A 2nd N/A Certified (3rd) N/A  
 Comments Northing: 39.533745  
Easting: 80.606700

Site 4 Spacing \_\_\_\_\_ Owner/Occupant: Coastal Timberland CO.  
 Address: P.O. Box 709 Buckhannon, WV 26201 Ph: \_\_\_\_\_  
 Field Contact Date: N/A Located: No Date Located: N/A Source: Unknown  
 If No, declined by who \_\_\_\_\_ Letter/Notice Date: 1st 09/08/2014 2nd N/A Certified (3rd) 08/15/2014  
 Comments Tax Map 23, Parcel 13 and Tax Map 17, Parcel 14  
No response to certified letter us of 09/18/2014

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JUN 03 2015

Site 5 Spacing \_\_\_\_\_ Owner/Occupant Richard, Jaynee, Thomas & Trenton Dallison  
Address RT. 1 box 41 Folsom, WI 26348 Ph: \_\_\_\_\_  
Field Contact Date N/A Located: No Date Located. N/A Source Unknown  
If No, declined by who Richard Dallison Letter/Notice Date 1st 09/08/2014 2nd N/A Certified (3rd) 08/15/2014  
Comments Tax Map 23, Parcel 14  
Letter of refusal signed 08/16, 2014

Site 6 Spacing \_\_\_\_\_ Owner/Occupant Thomas E. Wyatt  
Address P.O. Box 14, Jacksonburg, WI 26377 Ph: \_\_\_\_\_  
Field Contact Date: N/A Located: No Date Located. N/A Source Unknown  
If No, declined by who \_\_\_\_\_ Letter/Notice Date 1st 09/08/2014 2nd N/A Certified (3rd) 08/15/2014  
Comments: Tax Map 23, Parcel 5  
No response to certified letter as of 09/18/2014

Site 7 Spacing \_\_\_\_\_ Owner/Occupant Arthur J. Fach  
Address 7625 orchard view DR, SE East Canton, Ohio 44730 Ph: \_\_\_\_\_  
Field Contact Date: N/A Located: No Date Located. N/A Source: Unknown  
If No, declined by who \_\_\_\_\_ Letter/Notice Date 1st 09/08/2014 2nd N/A Certified (3rd) 08/15/2014  
Comments Tax Map 23, Parcel 16  
No response to certified letter as of 09/18/2014

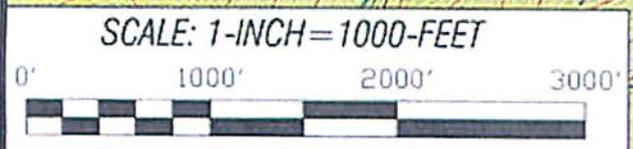
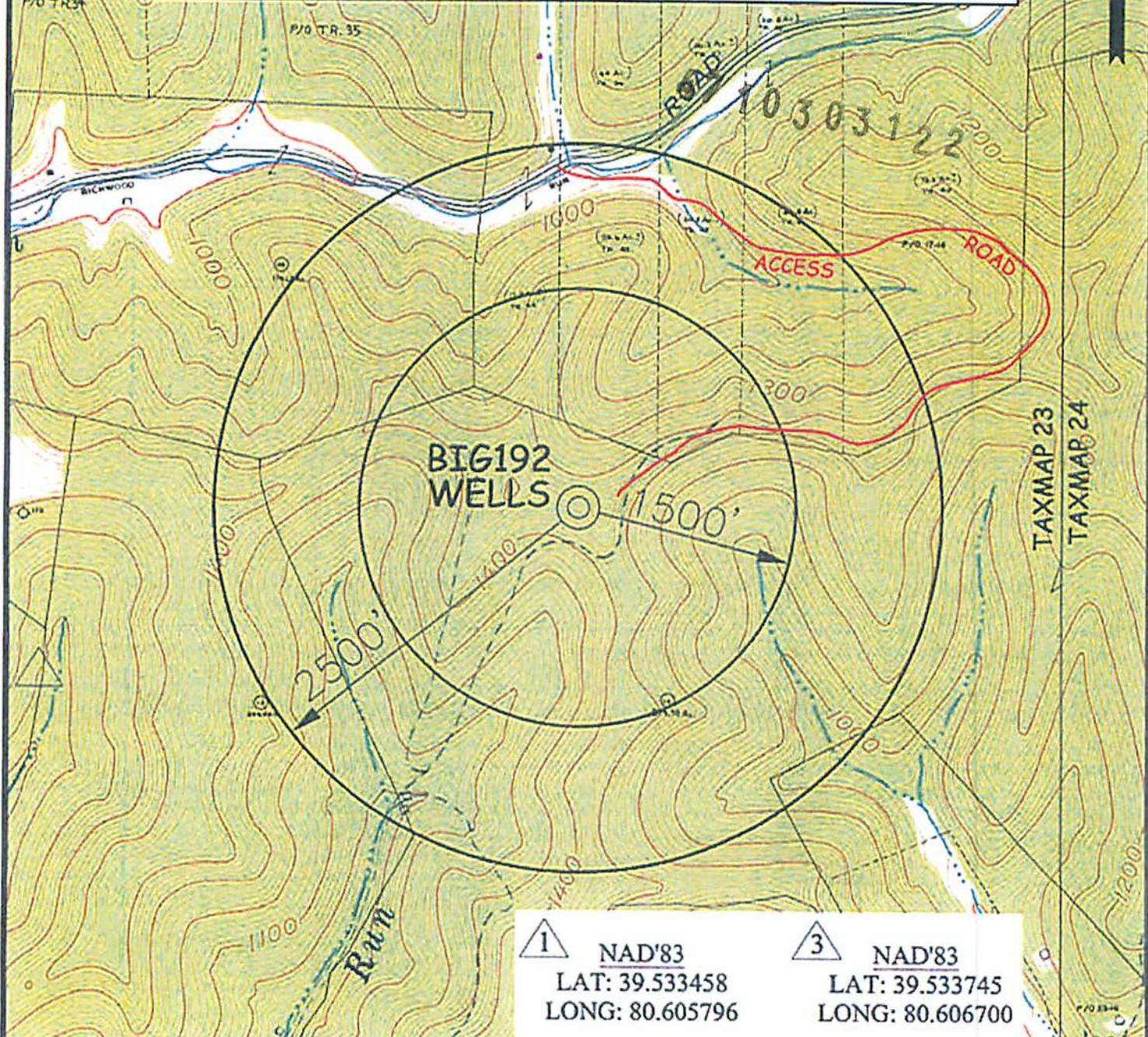
Site 8 Spacing \_\_\_\_\_ Owner/Occupant \_\_\_\_\_  
Address: \_\_\_\_\_ Ph \_\_\_\_\_  
Field Contact Date \_\_\_\_\_ Located: \_\_\_\_\_ Date Located \_\_\_\_\_ Source \_\_\_\_\_  
If No, declined by who \_\_\_\_\_ Letter/Notice Date 1st \_\_\_\_\_ 2nd \_\_\_\_\_ Certified (3rd) \_\_\_\_\_  
Comments \_\_\_\_\_

Site 9 Spacing \_\_\_\_\_ Owner/Occupant \_\_\_\_\_  
Address \_\_\_\_\_ Ph \_\_\_\_\_  
Field Contact Date \_\_\_\_\_ Located: \_\_\_\_\_ Date Located \_\_\_\_\_ Source \_\_\_\_\_  
If No, declined by who \_\_\_\_\_ Letter/Notice Date 1st \_\_\_\_\_ 2nd \_\_\_\_\_ Certified (3rd) \_\_\_\_\_  
Comments \_\_\_\_\_

Site 10 Spacing \_\_\_\_\_ Owner/Occupant \_\_\_\_\_  
Address \_\_\_\_\_ Ph \_\_\_\_\_  
Field Contact Date \_\_\_\_\_ Located: \_\_\_\_\_ Date Located \_\_\_\_\_ Source \_\_\_\_\_  
If No, declined by who \_\_\_\_\_ Letter/Notice Date 1st \_\_\_\_\_ 2nd \_\_\_\_\_ Certified (3rd) \_\_\_\_\_  
Comments \_\_\_\_\_

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JUN 03 2015

# WATER SOURCE LOCATIONS FOR ROBINSON LEASE BIG192 WELLS



- |  |  |
|--|--|
| <p>① NAD'83<br/>LAT: 39.533458<br/>LONG: 80.605796</p> | <p>③ NAD'83<br/>LAT: 39.533745<br/>LONG: 80.606700</p> |
| <p>② NAD'83<br/>LAT: 39.533377<br/>LONG: 80.607097</p> |  |

Received  
Office of Oil & Gas  
JUN 03 2015

 <p><b>Professional Energy Consultants</b> A DIVISION OF SMITH LAND SURVEYING, INC. SURVEYORS ENGINEERS ENVIRONMENTAL PROJECT MGMT.</p>	TOPO SECTION OF: BIG RUN, WV 7.5' QUAD			OPERATOR: EQT PRODUCTION COMPANY 115 PROFESSIONAL PLACE P.O. BOX 280 BRIDGEPORT, WV 26330		
	DRAWN BY: K.E.S. FILE NO: 7797 DATE: 02/27/15 CADD FILE: 7797BIG192WATER.dwg	DISTRICT: GRANT COUNTY: WETZEL	TAX MAP-PARCEL NO.: 23-14			

**LEGEND**

LEASE LINE	---
SURFACE LINE	----
WELL LATERAL	-----
OFFSET LINE	-----
TIE LINE	-----
CREEK	~~~~~
ROAD	=====
COUNTY ROUTE	⊕
PROPOSED WELL	⊙
PLUGGED WELL	⊙
EXISTING WELL	⊙
TAX MAP-PARCEL	00-00

COASTAL FOREST RESOURCES COMPANY d/b/a COASTAL TIMBERLANDS COMPANY  
1,627.6 ACRES±  
TM 17-14

**EQT PRODUCTION COMPANY  
ROBINSON LEASE  
1,100 ACRES±  
WELL NO. WV 513921**

(S.P.C. NORTH ZONE) (UTM(M) ZONE 17 NORTH)

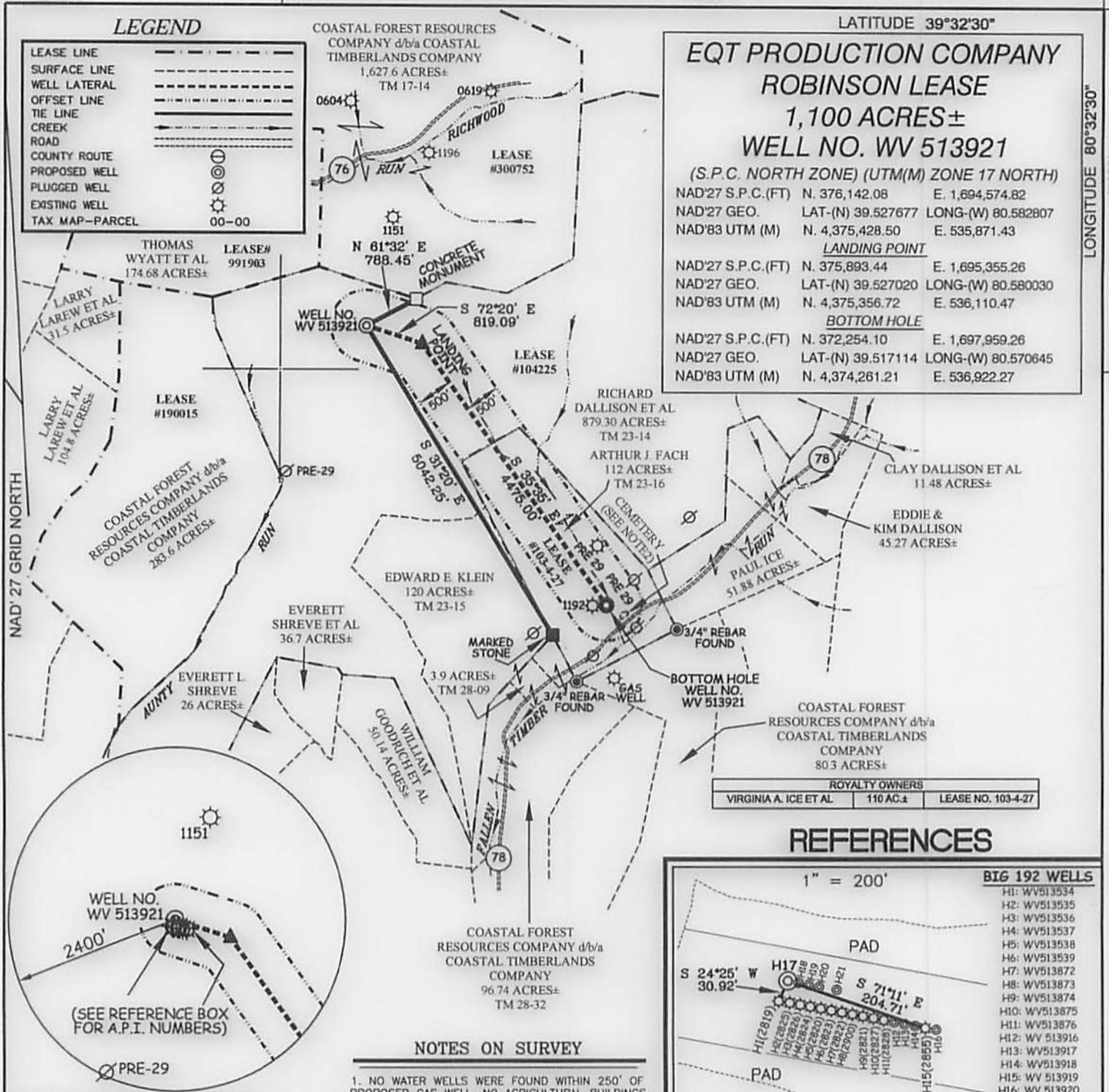
NAD'27 S.P.C.(FT)	N. 376,142.08	E. 1,694,574.82
NAD'27 GEO.	LAT-(N) 39.527677	LONG-(W) 80.582807
NAD'83 UTM (M)	N. 4,375,428.50	E. 535,871.43

**LANDING POINT**

NAD'27 S.P.C.(FT)	N. 375,893.44	E. 1,695,355.26
NAD'27 GEO.	LAT-(N) 39.527020	LONG-(W) 80.580030
NAD'83 UTM (M)	N. 4,375,356.72	E. 536,110.47

**BOTTOM HOLE**

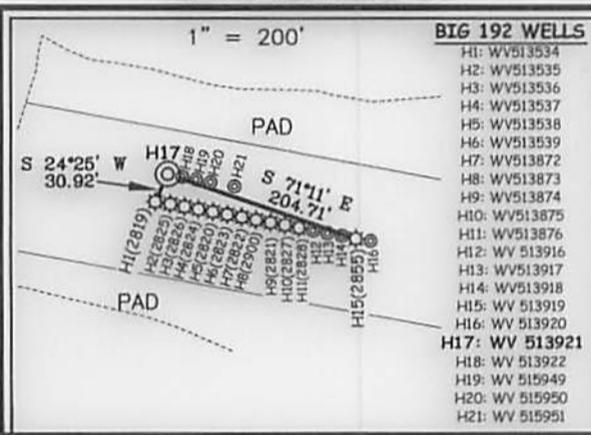
NAD'27 S.P.C.(FT)	N. 372,254.10	E. 1,697,959.26
NAD'27 GEO.	LAT-(N) 39.517114	LONG-(W) 80.570645
NAD'83 UTM (M)	N. 4,374,261.21	E. 536,922.27



**ROYALTY OWNERS**

VIRGINIA A. ICE ET AL	110 AC.±	LEASE NO. 103-4-27
-----------------------	----------	--------------------

**REFERENCES**



**NOTES ON SURVEY**

1. NO WATER WELLS WERE FOUND WITHIN 250' OF PROPOSED GAS WELL. NO AGRICULTURAL BUILDINGS ≥ 2500 SQ. FT. OR DWELLINGS WERE FOUND WITHIN 625' OF THE CENTER OF PROPOSED WELL PAD.
2. BOTTOM HOLE IS APPROXIMATELY 225' FROM CLOSEST CORNER OF CEMETERY.

**Professional Energy Consultants**  
A DIVISION OF SMITH LAND SURVEYING, INC.  
**SLS**  
SURVEYORS  
ENGINEERS  
ENVIRONMENTAL  
PROJECT MGMT.  
(304) 482-6634 WWW.SLSURVEYS.COM

I THE UNDERSIGNED, HEREBY CERTIFY THAT THIS PLAT IS CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF AND SHOWS ALL THE INFORMATION REQUIRED BY LAW AND THE REGULATIONS ISSUED AND PRESCRIBED BY THE DIVISION OF ENVIRONMENTAL PROTECTION.

P.S. 849 *G. Victor Moyers*



(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS.  
DATE      MAY 05      20 15  
REVISED      JULY 21      20 15  
OPERATORS WELL NO.      WV 513921  
API WELL NO. 47 - 103 - 03122  
STATE      COUNTY      PERMIT     

MINIMUM DEGREE OF ACCURACY 1 / 200 FILE NO. 7797P513921  
HORIZONTAL & VERTICAL CONTROL DETERMINED BY DGPS (SURVEY GRADE TIE TO CORS NETWORK) SCALE 1" = 2000'

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

WELL TYPE: OIL      GAS X INJECTION      WASTE DISPOSAL      IF "GAS" PRODUCTION X STORAGE      DEEP      SHALLOW X  
LOCATION: ELEVATION 1,452' (PAD ELEVATION) WATERSHED AUNTY RUN OF SOUTH FORK FISHING CREEK  
DISTRICT GRANT COUNTY WETZEL QUADRANGLE BIG RUN 7.5'  
SURFACE OWNER RICHARD DALLISON ET AL ACREAGE 879.30±  
ROYALTY OWNER ED BROOME, INC ET AL ACREAGE 1,100±  
PROPOSED WORK: LEASE NO. 104225  
DRILL X CONVERT      DRILL DEEPER      REDRILL      FRACTURE OR STIMULATE X PLUG OFF OLD FORMATION      PERFORATE NEW FORMATION      PLUG AND ABANDON      CLEAN OUT AND REPLUG      OTHER       
PHYSICAL CHANGE IN WELL (SPECIFY)      TARGET FORMATION MARCELLUS  
ESTIMATED DEPTH TVD 7,631'

WELL OPERATOR EQT PRODUCTION COMPANY DESIGNATED AGENT REX C. RAY  
ADDRESS 115 PROFESSIONAL PLACE P.O. BOX 280 BRIDGEPORT, WV 26330 ADDRESS 115 PROFESSIONAL PLACE P.O. BOX 280 BRIDGEPORT, WV 26330

COUNTY NAME  
PERMIT

**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 -

- 4710303122
- (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 right to extract, produce or market the oil or gas are as follows:

Lease Name or Number	Grantor, Lessor, etc.	Grantee, Le.	Book/Page
<b>104225</b>			
	L G. Robinson, etal	H. L. Smith	LB 111/452
	H. L. Smith	Philadelphia Company	LB 47A/287
	Philadelphia Company	Pittsburgh & West Virginia Gas Company	DB 146/98
	Pittsburgh & West Virgina Gas Company	Equitable Gas Company	DB 187/321
	Equitable Gas Company	Equitrans, Inc.	CB 71A/453
	Equitrans, LLC	EQT Production Company	DB 192/19 Doddridge
<b>103-4-27</b>			
	Virginia A. Ice and Virginia A. Ice Executor of E.E. Ice	N. S. Snyder	DB 4A/481
	N. S. Snyder	South Penn Oil Company	DB 168A/148
	South Penn Oil Company	South Penn Natural Gas Company	DB 33A/455
	South Penn Natural Gas Company	South Penn Oil Company	DB 215/478
	South Penn Oil Company	Pennzoil Company	Unrecorded Merger/Name Change-attached
	Pennzoil Company	Pennzoil United Inc.	DB 246/491
	Pennzoil United Inc.	W. H. Allen	DB 52A/101
	W. H. Allen	Edwin Associates, Inc.	DB 55A/134
	Edwin Associates, Inc.	Associated Minerals Inc.	DB 56A/7
	Associated Minerals Inc.	M&F Oil Company, a partnership & Lydle Martyn	DB 56A/13
	M&F Oil Company, a partnership & Lydle Martyn	Trans Energy Inc	OG 91A/755
	Trans Energy Inc	EQT Production Company	DB 153A/863

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

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

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

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

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

Well Operator: EQT Production Company  
 By:   
 Its: Permitting Supervisor

3-1-63.18 120

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ARTICLES OF MERGER  
OF  
ZAPATA PETROLEUM CORPORATION  
AND  
STETCO PETROLEUM CORPORATION  
INTO  
SOUTH PENN OIL COMPANY

In compliance with the requirements of Article IX of the Act of the General Assembly of the Commonwealth of Pennsylvania, known as the Business Corporation Law, approved May 5, 1933, P. L. 361, and amendments thereto, providing for the merger and consolidation of corporations, SOUTH PENN OIL COMPANY, a Pennsylvania corporation, ZAPATA PETROLEUM CORPORATION, a Delaware corporation, and STETCO PETROLEUM CORPORATION, a Delaware corporation, hereby certify under their respective corporate seals:

1. That it is proposed that Zapata Petroleum Corporation and Stetco Petroleum Corporation be merged into South Penn Oil Company in accordance with the provisions of a joint plan of merger entitled "Joint Plan and Agreement of Merger" and dated May 7, 1963, a copy of which is attached hereto and made a part hereof.

2. That the surviving corporation is South Penn Oil Company, that the name of the surviving corporation be changed to Pennzoil Company and that the location of its registered office is Drake Building, 106 Duncomb Street, Oil City, Pennsylvania.

3. That a special meeting of shareholders of South Penn Oil Company to take action upon the proposed merger was held at 10:00 o'clock A.M. on July 2, 1963, at the registered office of said corporation, Drake Building, 106 Duncomb Street, Oil City, Pennsylvania; that written notice, stating the place, day, hour and purposes of the meeting, together with a copy of said joint plan of merger and a copy of subsection A of section 903 and of subsections A, B, C and D of section 515 (rights of dissenting shareholders) of the said Pennsylvania Business Corporation Law, was mailed on June 11, 1963, to all shareholders of said corporation of record on May 28, 1963, which was fixed as the record date for determining the shareholders entitled to vote at said meeting.

4. That at the time of the special meeting of shareholders of South Penn Oil Company on July 2, 1963, the authorized number of all shares of the capital stock of said corporation was 1,715,000 shares of common stock of the par value of \$12.50 each, of which 1,589,750 shares were outstanding and were entitled to be voted at the meeting and 112,500 shares were held in the treasury of said corporation and were not entitled to be voted at the meeting; and that at said meeting said joint plan of merger was adopted and approved by the affirmative vote of the holders of 1,106,642 shares of common stock, there having been voted against the same 24,680 shares of common stock.

5. That the Joint Plan and Agreement of Merger was duly authorized, adopted and approved by Zapata Petroleum Corporation and Stetco Petroleum Corporation in accordance with the laws of the State of Delaware, the jurisdiction in which they were formed.

6. That, as provided in Section 5 of said joint plan of merger, the Articles of Incorporation of South Penn Oil Company, as heretofore amended, shall be amended and restated in their entirety by revising same to read in full as set forth in Exhibit A to said joint plan of merger.

Received  
Office of Oil & Gas  
JUN 03 2015

3-1-63, 18 121

Henceforth the "Articles" as defined in Article I of the Business Corporation Law of the Commonwealth of Pennsylvania shall not include any prior documents.

7. That the following are the names and addresses of the sixteen persons who shall constitute the first Board of Directors of the Surviving Corporation:

47 10303 122

<u>Name</u>	<u>Address</u>
D. D. Boyard	P. O. Box 2590 Tulsa, Oklahoma
Edward P. Boyle	205 Maple Avenue Oil City, Pennsylvania
George L. Coleman	1137 West Jackson Boulevard Chicago, Illinois
James G. S. Gamwell	"Inverwick" Ellersly Road Edinburgh 12, Scotland
R. H. Gjalitick, Jr.	Mellon National Bank and Trust Company Fifth Avenue Pittsburgh 19, Pennsylvania
R. W. Grunert	Drake Building 106 Dundamb Street Oil City, Pennsylvania
L. F. Johnson	2405 1/2 W. 10th Los Angeles, California
J. Hugh Liedtke	Room 410, Four Gateway Center Pittsburgh, Pennsylvania
William C. Liedtke, Jr.	First National Bank Building Midland, Texas
T. L. McDowell	McDowell, McDowell, Wick & Daly 50 Boylston Street Bradford, Pennsylvania
John B. Mitchell	12 South Kentell Avenue Bradford, Pennsylvania
Thomas O'D. Murray	Room 410, Four Gateway Center Pittsburgh, Pennsylvania
A. J. Saxe	Drake Building 20 Parkway Lane Bradford, Pennsylvania
Charles L. Suhr	P. O. Box 601 Oil City, Pennsylvania
J. Z. VanTine	50 Harbour Street Bradford, Pennsylvania
W. S. Zehrung	115 Wylls Oil City, Pennsylvania

3-1-63.18 122

IN TESTIMONY WHEREOF, South Penn Oil Company, Zapata Petroleum Corporation and Stetco Petroleum Corporation have caused these Articles of Merger to be executed under the seal of each corporation and to be signed by two duly authorized officers of each corporation, this 2nd day of July, 1963.

47 10 303 122

SOUTH PENN OIL COMPANY

Attest:

J. H. Young

Secretary

By J. HUGH LINDSEY  
President  
(Corporate Seal)

ZAPATA PETROLEUM CORPORATION

Attest:

W. M. BRUNLEY, JR.

Secretary

By W. A. HOVER  
President  
(Corporate Seal)

STETCO PETROLEUM CORPORATION

Attest:

MARINE MITCHELL

Secretary

By WILLIAM C. LINDSEY, JR.  
President  
(Corporate Seal)

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

Date of Notice Certification: \_\_\_\_\_

API No. 47 - 103 - 0  
Operator's Well No. 513921  
Well Pad Name: 303122 Big192

**Notice has been given:**

Pursuant to the provisions in West Virginia Code § 22-6A, the Operator has provided the required parties with the Notice Forms listed below for the tract of land as follows:

State: <u>WV</u>	UTM NAD 83 Easting: <u>535,871.40</u>
County: <u>Wetzel</u>	UTM NAD 83 Northing: <u>4,375,428.50</u>
District: <u>Grant</u>	Public Road Access: <u>RT 20</u>
Quadrangle: <u>Big Run 7.5'</u>	Generally used farm name: <u>Richard Dallison et al</u>
Watershed: <u>Aunty Run of South Fork Fishing Creek</u>	

Pursuant to West Virginia Code § 22-6A-7(b), every permit application filed under this section shall be on a form as may be prescribed by the secretary, shall be verified and shall contain the following information: (14) A certification from the operator that (i) it has provided the owners of the surface described in subdivisions (1), (2) and (4), subsection (b), section ten of this article, the information required by subsections (b) and (c), section sixteen of this article; (ii) that the requirement was deemed satisfied as a result of giving the surface owner notice of entry to survey pursuant to subsection (a), section ten of this article six-a; or (iii) the notice requirements of subsection (b), section sixteen of this article were waived in writing by the surface owner; and Pursuant to West Virginia Code § 22-6A-11(b), the applicant shall tender proof of and certify to the secretary that the notice requirements of section ten of this article have been completed by the applicant.

Pursuant to West Virginia Code § 22-6A, the Operator has attached proof to this Notice Certification that the Operator has properly served the required parties with the following:

\*PLEASE CHECK ALL THAT APPLY

- NOTICE OF SEISMIC ACTIVITY or  NOTICE NOT REQUIRED BECAUSE NO SEISMIC ACTIVITY WAS CONDUCTED
- NOTICE OF ENTRY FOR PLAT SURVEY or  NO PLAT SURVEY WAS CONDUCTED
- NOTICE OF INTENT TO DRILL or  NOTICE NOT REQUIRED BECAUSE NOTICE OF ENTRY FOR PLAT SURVEY WAS CONDUCTED OR
- WRITTEN WAIVER BY SURFACE OWNER (PLEASE ATTACH)
- NOTICE OF PLANNED OPERATION
- PUBLIC NOTICE
- NOTICE OF APPLICATION

**OOG OFFICE USE ONLY**

- RECEIVED/NOT REQUIRED
- RECEIVED
- RECEIVED/NOT REQUIRED
- RECEIVED
- RECEIVED
- RECEIVED

**Required Attachments:**

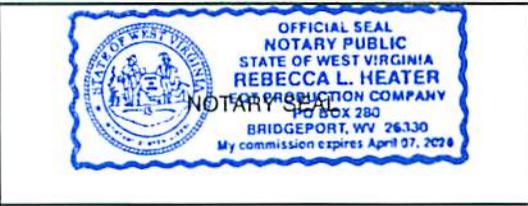
The Operator shall attach to this Notice Certification Form all Notice Forms and Certifications of Notice that have been provided to the required parties and/or any associated written waivers. For the Public Notice, the operator shall attach a copy of the Class II Legal Advertisement with publication 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 service, the return receipt card or other postal receipt for certified mailing.

**Certification of Notice is hereby given:**

THEREFORE, I *[Signature]*, 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  
By: Victoria J. Roark  
Its: Permitting Supervisor  
Telephone: 304-848-0076

Address: P.O. Box 280  
Bridgeport, WV 26330  
Facsimile: 304-848-0040  
Email: vroark@eqt.com



Subscribed and sworn before me this 28<sup>th</sup> day of May, 2014.  
*[Signature]* Notary Public  
My Commission Expires 4-7-20

**Oil and Gas Privacy Notice:**

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

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

47 10303122

Notice Time Requirement: notice shall be provided no later than the filing date of permit application.  
Date of Notice: 5/28/2015 Date Permit Application Filed: 5/28/2015

Notice of:

- PERMIT FOR ANY WELL WORK       CERTIFICATE OF APPROVAL FOR THE CONSTRUCTION OF AN IMPOUNDMENT OR PIT

Delivery method pursuant to West Virginia Code § 22-6A-10(b)

- PERSONAL SERVICE       REGISTERED MAIL       METHOD OF DELIVERY THAT REQUIRES A RECEIPT OR SIGNATURE CONFIRMATION

Pursuant to W. Va. Code § 22-6A-10(b) no later than the filing date of the application, the applicant for a permit for any well work or for a construction of an impoundment or pit as required by this article shall deliver, by personal service or by registered mail or by any requires a receipt or signature confirmation, copies of the application, the erosion and sediment control plan required by section seven of plat to each of the following persons: (1) The owners of record of the surface of the tract on which the well is or is proposed to be located; the surface tract or tracts overlying the oil and gas leasehold being developed by the proposed well work, if the surface tract is to be used disturbance as described in the erosion and sediment control plan submitted pursuant to subsection (c), section seven of this article; (3) The lessee, in the event the tract of land on which the well proposed to be drilled is located [sic] is known to be underlain by one or more coal record of the surface tract or tracts overlying the oil and gas leasehold being developed by the proposed well work, if the surface tract is to construction, enlargement, alteration, repair, removal or abandonment of any impoundment or pit as described in section nine of this water purveyor who is known to the applicant to have a water well, spring or water supply source located within one thousand five which is used to provide water for consumption by humans or domestic animals; and (6) The operator of any natural gas storage field work activity is to take place. (c)(1) If more than three tenants in common or other co-owners of interests described in subsection (b) of in the lands, the applicant may serve the documents required upon the person described in the records of the sheriff required to be article one, chapter eleven-a of this code. (2) Notwithstanding any provision of this article to the contrary, notice to a lien holder is not unless the lien holder is the landowner. W. Va. Code R. § 35-8-5.7.a requires, in part, that the operator shall also provide the Well Site the surface owner and any water purveyor or surface owner subject to notice and water testing as provided in section 15 of this rule.

- Application Notice       WSSP Notice       E&S Plan Notice       Well Plat Notice is hereby provided to:

SURFACE OWNER(s)  
Name: Richard B. and Jaynee C Dallison  
Address: 28855 Shortline Hwy.  
Folsom, WV 26348-6021

COAL OWNER OR LESSEE  
Name: CNX RCPC LLC  
Address: CNX Center  
1000 Consol Energy Dr.  
Cannonsburg PA 15317-6506  
See attached for additional coal owners.

Name: Thomas P. Dallison  
Address: 452 Trader Fork Road  
Folsom, WV 26348-6021  
See attached

COAL OPERATOR  
Name: \_\_\_\_\_  
Address: \_\_\_\_\_

SURFACE OWNERS(s) (Road and/or Other Disturbance)  
Name: Richard B. and Jaynee C Dallison  
Address: 28855 Shortline Hwy.  
Folsom, WV 26348-6021

SURFACE OWNER OF WATER WELL AND/OR WATER PURVEYOR(s)  
Name: \_\_\_\_\_  
Address: \_\_\_\_\_

Name: Thomas P. Dallison  
Address: 452 Trader Fork Road  
Folsom, WV 26348-6021  
see attached

SURFACE OWNER(s) (Impoundments/Pits)  
Name: Richard B. and Jaynee C Dallison  
Address: 28855 Shortline Hwy.  
Folsom, WV 26348-6021  
see attached

OPERATOR OF ANY NATURAL GAS STORAGE FIELD  
Name: \_\_\_\_\_  
Address: \_\_\_\_\_

\*Please attach additional forms if necessary

**Notice is hereby given:**

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

**This Notice Shall Include:**

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

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

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

Pursuant to W. Va. Code R. § 35-8-15.2.c, this notice shall: (1) contain a statement of the surface owner's and water purveyor's right to request sampling and analysis; (2) advise the surface owner and water purveyor of the rebuttable presumption for contamination or deprivation of a fresh water source or supply; advise the surface owner and water purveyor that refusal to allow the operator to conduct a 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-and-gas/pages/default.aspx](http://www.dep.wv.gov/oil-and-gas/pages/default.aspx).

**Well Location Restrictions**

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

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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 wells. The operator shall provide an analysis to such surface landowner or water purveyor at their request.

**Water Testing Laboratories:**

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

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

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

**Written Comment:**

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

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

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

**Time Limits and Methods for Filing Comments.**

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

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

**Comment Requirements**

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

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

**Permit Denial or Condition**

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

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

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

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

Notice is hereby given by:

Well Operator: EQT Production Company  
Telephone: 304-848-0082  
Email: Vroark@eqt.com

Address: 115 Professional Place P.O. Box 280  
Bridgeport, WV 26330  
Facsimile: 304-848-0041

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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](mailto: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.

*Victoria Roark*

By: Victoria Roark

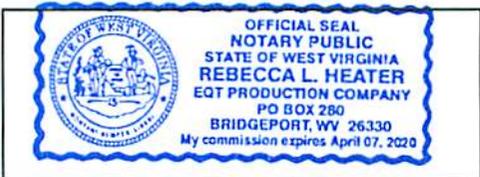
Its: Permitting Supervisor

Subscribed and sworn before on 28<sup>th</sup> day of May 2015

*Rebecca L Heater*

Notary Public

My Commission Expires 4-7-20



WW-6A  
(9-13)

API NO. 47 - 103 -  
OPERATOR WELL NO. 513921  
Well Pad Name: Big192

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 than the filing date of permit application.

Date of Notice: 6-8-15 Date Permit Application Filed: 6-8-15

Notice of:

- [X] PERMIT FOR ANY WELL WORK [ ] CERTIFICATE OF APPROVAL FOR THE CONSTRUCTION OF AN IMPOUNDMENT OR PIT

Delivery method pursuant to West Virginia Code § 22-6A-10(b)

- [ ] PERSONAL SERVICE [ ] REGISTERED MAIL [X] METHOD OF DELIVERY THAT REQUIRES A RECEIPT OR SIGNATURE CONFIRMATION

Pursuant to W. Va. Code § 22-6A-10(b) no later than the filing date of the application, the applicant for a permit for any well work or for a for the construction of an impoundment or pit as required by this article shall deliver, by personal service or by registered mail or by any requires a receipt or signature confirmation, copies of the application, the erosion and sediment control plan required by section seven of plat to each of the following persons: (1) The owners of record of the surface of the tract on which the well is or is proposed to be located; the surface tract or tracts overlying the oil and gas leasehold being developed by the proposed well work, if the surface tract is to be used disturbance as described in the erosion and sediment control plan submitted pursuant to subsection (c), section seven of this article; (3) The lessee, in the event the tract of land on which the well proposed to be drilled is located [sic] is known to be underlain by one or more coal record of the surface tract or tracts overlying the oil and gas leasehold being developed by the proposed well work, if the surface tract is to construction, enlargement, alteration, repair, removal or abandonment of any impoundment or pit as described in section nine of this water purveyor who is known to the applicant to have a water well, spring or water supply source located within one thousand five which is used to provide water for consumption by humans or domestic animals; and (6) The operator of any natural gas storage field work activity is to take place. (c)(1) If more than three tenants in common or other co-owners of interests described in subsection (b) of in the lands, the applicant may serve the documents required upon the person described in the records of the sheriff required to be article one, chapter eleven-a of this code. (2) Notwithstanding any provision of this article to the contrary, notice to a lien holder is not unless the lien holder is the landowner. W. Va. Code R. § 35-8-5.7.a requires, in part, that the operator shall also provide the Well Site the surface owner and any water purveyor or surface owner subject to notice and water testing as provided in section 15 of this rule.

- [X] Application Notice [X] WSSP Notice [X] E&S Plan Notice [X] Well Plat Notice is hereby provided to:

[X] SURFACE OWNER(s)  
Name: Richard B. and Jaynee C Dallison  
Address: 28855 Shortline Hwy.  
Folsom, WV 26348-6021

Name: Thomas P. Dallison  
Address: 452 Trader Fork Road  
Folsom, WV 26348-6021  
See attached

[X] SURFACE OWNERS(s) (Road and/or Other Disturbance)  
Name: Richard B. and Jaynee C Dallison  
Address: 28855 Shortline Hwy.  
Folsom, WV 26348-6021

Name: Thomas P. Dallison  
Address: 452 Trader Fork Road  
Folsom, WV 26348-6021  
see attached

[X] SURFACE OWNER(s) (Impoundments/Pits)  
Name: Richard B. and Jaynee C Dallison  
Address: 28855 Shortline Hwy.  
Folsom, WV 26348-6021  
see attached

[X] COAL OWNER OR LESSEE  
Name: CNX RCPC LLC  
Address: CNX Center  
1000 Consol Energy Dr.  
Cannonsburg PA 15317-6506  
See attached for additional coal owners.

[ ] COAL OPERATOR  
Name:  
Address:

[ ] SURFACE OWNER OF WATER WELL AND/OR WATER PURVEYOR(s)  
Name:  
Address:

[ ] OPERATOR OF ANY NATURAL GAS STORAGE FIELD  
Name:  
Address:

\*Please attach additional forms if necessary

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WV Department of  
Environmental Protection

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(8-13)

API NO. 47 - 103 - 0  
OPERATOR WELL NO. 513921  
Well Pad Name: Big192

**Notice is hereby given:**

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

**This Notice Shall Include:**

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

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

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

Pursuant to W. Va. Code R. § 35-8-15.2.c, this notice shall: (1) contain a statement of the surface owner's and water purveyor's right to request sampling and analysis; (2) advise the surface owner and water purveyor of the rebuttable presumption for contamination or deprivation of a fresh water source or supply; advise the surface owner and water purveyor that refusal to allow the operator to conduct a 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-and-gas/pages/default.aspx](http://www.dep.wv.gov/oil-and-gas/pages/default.aspx).

**Well Location Restrictions**

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

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WV Department of Environmental Protection

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API NO. 47 - 103 - 0  
OPERATOR WELL NO. 513921  
Well Pad Name: Big192

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

#### Water Well Testing:

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

#### Water Testing Laboratories:

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

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

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

#### Written Comment:

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

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

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.

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WV Department of  
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(8-13)

API NO. 47 - 103 - 0  
OPERATOR WELL NO. 513921  
Well Pad Name: Big192

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

**Comment Requirements**

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

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

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- (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.

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WV Department of  
Environmental Protection

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Notice is hereby given by:

Well Operator: EQT Production Company  
Telephone: 304-848-0082  
Email: Vroark@eqt.com

Address: 115 Professional Place P.O. Box 280  
Bridgeport, WV 26330  
Facsimile: 304-848-0041

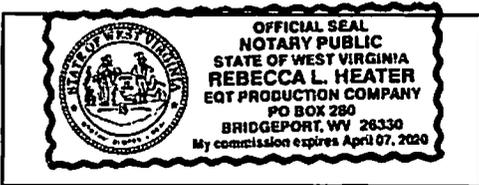
Oil and Gas Privacy Notice:

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](mailto: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.

By: Victoria Koark  
Its: Permitting Supervisor

Subscribed and sworn before me 8<sup>th</sup> day of June, 2015  
Rebecca L Heater Notary Public  
My Commission Expires 4-7-2020



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**Additional Surface Owners**

Trenton Dallison  
2975 Barker Run Road  
Pine Grove, WV 26419-8325

**Additional Surface Owner, Pit/ Impoundment**

Thomas P. Dallison  
452 Trader Fork Road  
Folsom, WV 26348-6021

Trenton Dallison  
2975 Barker Run Road  
Pine Grove, WV 26419-8325

**Additional Surface Owner Access Road**

Trenton Dallison  
2975 Barker Run Road  
Pine Grove, WV 26419-8325

Coastal Forest Resources dba  
Coastal Timberlands Company  
P.O. Box 709  
Buckhannon, WV 26201

Richard and Roxanne Funk  
4832 Fairport Road  
Newton Falls OH 44444

Larry Larew  
12750 W Middletown Road  
Salem OH 44460

Lydle M. Martyn  
PO Box 7  
Jacksonburg WV 26377

Consol Mining Company LLC  
CNX Center  
1000 Consol Energy Dr.  
Canonsburg PA 15318-6506

CNX Land LLC  
Engineer Operations Support Dept.  
Coal  
1000 Consol Energy Dr.  
Canonsburg PA 15318-6506

David Bowyer  
RT. 1 Box 4598  
Salem, WV 26426-5217

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Environmental Protection

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Murray American Energy, Inc  
1 Bridge Street  
Monongah, WV 26554

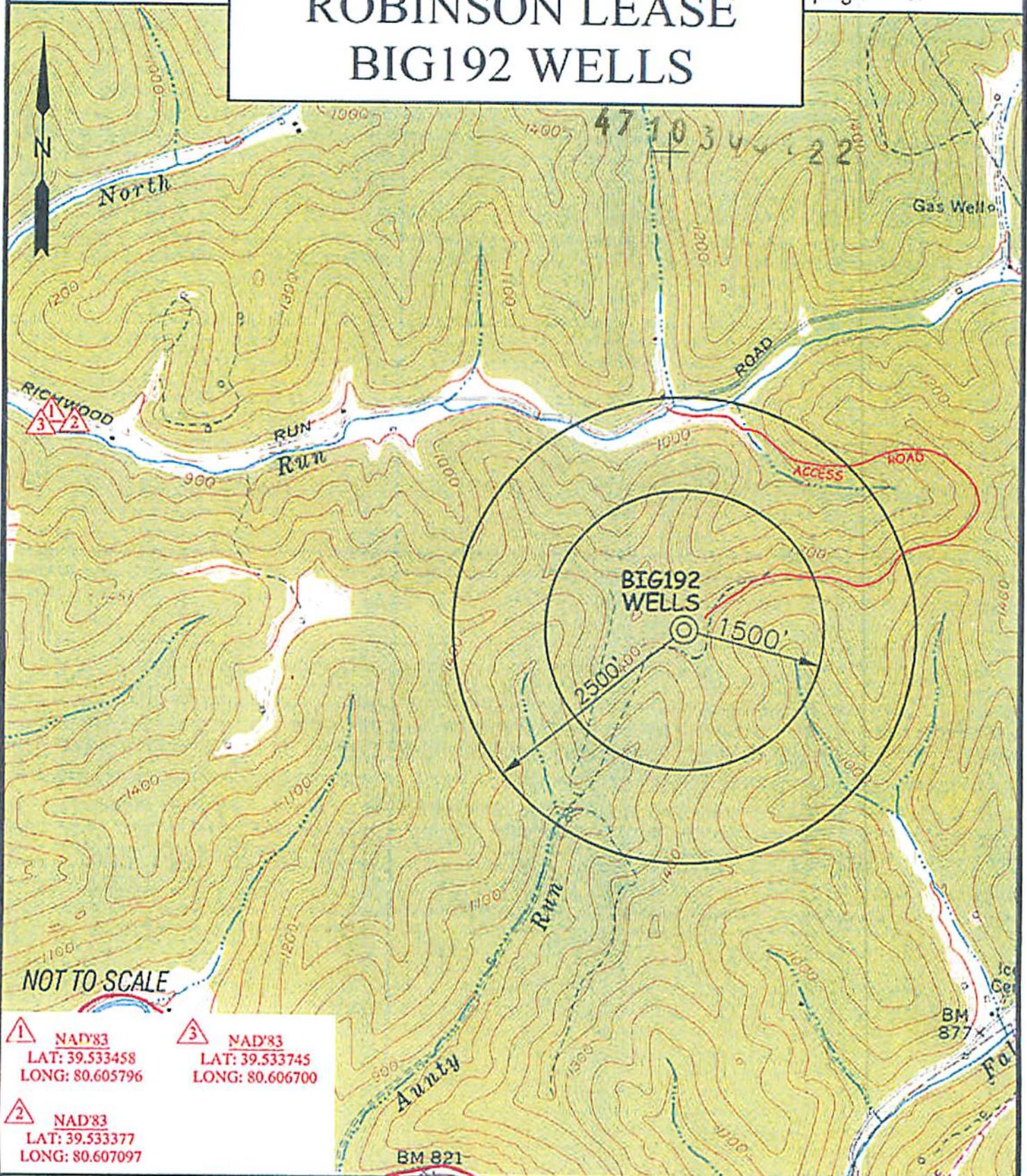
Murray American Energy Inc  
c/o Murray Energy Corporation  
46226 National Road  
St. Clairsville, OH 43950

**CBM Only**

CNX Gas Company, LLC  
CNX Center  
1000 Consol Energy Drive  
Cannonsburg, PA 15317-6506

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JUN 10 2015  
WV Department of  
Environmental Protection

# ROBINSON LEASE BIG192 WELLS



- ① NAD'83  
LAT: 39.533458  
LONG: 80.605796
- ② NAD'83  
LAT: 39.533377  
LONG: 80.607097
- ③ NAD'83  
LAT: 39.533745  
LONG: 80.606700

**Professional Energy Consultants**  
A DIVISION OF SOUTH LAND MANAGEMENT, INC.



**SLS**  
SURVEYORS  
ENGINEERS  
ENVIRONMENTAL  
PROJECT MANAGERS

DRAWN BY: K.E.S.  
FILE NO.: 7797  
DATE: 02/27/15  
CAD FILE: 77975-2wel.dwg

TOPO SECTION OF:  
BIG RUN, WV 7.5' QUAD

DISTRICT	COUNTY	TAX MAP--PARCEL NO.
GRANT	WETZEL	23-14

OPERATOR:  
EQT PRODUCTION COMPANY  
115 PROFESSIONAL PLACE  
P.O. BOX 280  
BRIDGEPORT, WV 26330

WW6-A

**Additional Surface Owners**

Trenton Dallison ✓  
2975 Barker Run Road  
Pine Grove, WV 26419-8325

**Additional Surface Owner, Pit/ Impoundment**

Thomas P. Dallison ✓  
452 Trader Fork Road  
Folsom, WV 26348-6021

Trenton Dallison ✓  
2975 Barker Run Road  
Pine Grove, WV 26419-8325

**Additional Surface Owner Access Road**

Trenton Dallison ✓  
2975 Barker Run Road  
Pine Grove, WV 26419-8325

Coastal Forest Resources dba  
Coastal Timberlands Company ✓  
P.O. Box 709  
Buckhannon, WV 26201

**Additional Coal Owners**

Consol Mining Company LLC ✓  
CNX Center  
1000 Consol Energy Dr.  
Canonsburg PA 15318-6506

CNX Land LLC ✓  
Engineer Operations Support Dept.  
Coal  
1000 Consol Energy Dr.  
Canonsburg PA 15318-6506

David Bowyer ✓  
12088 Middle Island Rd  
Alma WV 26320-7211

Murray American Energy, Inc ✓  
1 Bridge Street  
Monongah, WV 26554

Murray American Energy Inc ✓  
c/o Murray Energy Corporation  
46226 National Road  
St. Clairsville, OH 43950

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**CBM Only**

CNX Gas Company, LLC  
CNX Center  
1000 Consol Energy Drive  
Cannonsburg, PA 15317-6506



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(1/12)

Operator Well No. 513921

**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: 6/8/2015 Date Permit Application Filed: TBD

Delivery method pursuant to West Virginia Code § 22-6A-16(b)

HAND DELIVERY

CERTIFIED MAIL RETURN RECEIPT REQUESTED

47 10 303 122

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: Richard and Roxanne Funk  
Address: 4832 Fairport Road  
Newton Falls OH 44444

Name: Larry Larew  
Address: 12750 W Middletown Road  
Salem OH 44460

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:

State: <u>WV</u>	UTM NAD 83	Easting <u>535,871.40</u>
County: <u>Wetzel</u>		Northing <u>4,375,428.50</u>
District: <u>Grant</u>		Public Road Access: <u>RT 20</u>
Quadrangle: <u>Big Run 7.5</u>		Generally used farm name: <u>Richard Dallison et al</u>
Watershed: <u>Aunty Run of South Fork Fishing Creek</u>		

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](http://www.dep.wv.gov/oil-and-gas/pages/default.aspx)

Notice is hereby given by:

Well Operator: EQT Production Company  
Address: 115 Professional Place, P.O Box 280  
Bridgeport, WV 26330  
Telephone: 304-848-0076  
Email: vroark@eqt.com  
Facsimile: 304-848-0041

Authorized Representative: Victoria Roark  
Address: 115 Professional Place, P.O Box 280  
Bridgeport WV 26330  
Telephone: 304-848-0076  
Email: vroark@eqt.com  
Facsimile: 304-848-0041

RECEIVED  
Office of Oil and Gas

JUN 10 2015

WV Department of Environmental Protection

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](mailto:depprivacyofficer@wv.gov).

4710303122

WW-6A4  
(1/12)

Operator Well No. 513921

**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: 6/8/2015 Date Permit Application Filed: TBD

Delivery method pursuant to West Virginia Code § 22-6A-16(b)

HAND DELIVERY

CERTIFIED MAIL RETURN RECEIPT REQUESTED

4710303122

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: Lydle M Martyn  
Address: PO Box 7  
Jacksonburg WV 26377

Name: \_\_\_\_\_  
Address: \_\_\_\_\_

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:

State:	<u>WV</u>	UTM NAD 83	Easting	<u>535,871.40</u>
County:	<u>Wetzel</u>		Northing	<u>4,375,428.50</u>
District:	<u>Grant</u>		Public Road Access:	<u>RT 20</u>
Quadrangle:	<u>Big Run 7.5</u>		Generally used farm name:	<u>Richard Dallison et al</u>
Watershed:	<u>Aunty Run of South Fork Fishing Creek</u>			

This Notice Shall Include:

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Notice is hereby given by:

Well Operator: EQT Production Company  
Address: 115 Professional Place, P.O Box 280  
Bridgeport, WV 26330  
Telephone: 304-848-0076  
Email: vroark@eqt.com  
Facsimile: 304-848-0041

Authorized Representative: \_\_\_\_\_  
Address: 115 Professional Place, P.O Box 280  
Bridgeport, WV 26330  
Telephone: 304-848-0076  
Email: vroark@eqt.com  
Facsimile: 304-848-0041

RECEIVED  
Office of Oil and Gas  
Victoria Roark  
June 11, 2015  
WV Department of Environmental Protection  
304-848-0076  
vroark@eqt.com  
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](mailto: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 Requirement:** Notice shall be provided at least TEN (10) days prior to filing a permit application.

**Date of Notice:** 3/10/2015 **Date Permit Application Filed:** 3/20/15

**Delivery method pursuant to West Virginia Code § 22-6A-16(b)**

**HAND DELIVERY**

**CERTIFIED MAIL RETURN RECEIPT REQUESTED**

4710303122

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:** Richard B. and Jaynee C Dallison  
**Address:** 28855 Shortline Hwy.  
Folsom, WV 26348-6021

**Name:** Thomas P. Dallison  
**Address:** 452 Trader Fork Road  
Folsom, WV 26348-6021

**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:

State:	<u>WV</u>	UTM NAD 83	Easting	<u>535,875.90</u>
County:	<u>Wetzel</u>		Northing	<u>4,375,427.70</u>
District:	<u>Grant</u>		Public Road Access:	<u>RT 20</u>
Quadrangle:	<u>Big Run 7.5'</u>		Generally used farm name:	<u>Richard Dallison et al</u>
Watershed:	<u>Aunty Run of South Fork Fishing Creek</u>			

**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](http://www.dep.wv.gov/oil-and-gas/pages/default.aspx)

**Notice is hereby given by:**

**Well Operator:** EQT Production Company  
**Address:** 115 Professional Place, P.O Box 280  
Bridgeport, WV 26330  
**Telephone:** 304-848-0076  
**Email:** [vroark@eqt.com](mailto:vroark@eqt.com)  
**Facsimile:** 304-848-0041

**Authorized Representative:** Victoria Roark  
**Address:** 115 Professional Place, P.O Box 280  
Bridgeport, WV 26330  
**Telephone:** 304-848-0076  
**Email:** [vroark@eqt.com](mailto:vroark@eqt.com)  
**Facsimile:** 304-848-0041

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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](mailto: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 Requirement:** Notice shall be provided at least TEN (10) days prior to filing a permit application.

**Date of Notice:** 3/10/2015 **Date Permit Application Filed:** 3/20/15

**Delivery method pursuant to West Virginia Code § 22-6A-16(b)**

**HAND DELIVERY**       **CERTIFIED MAIL RETURN RECEIPT REQUESTED**

4710303122

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:** Trenton Dallison  
**Address:** 2975 Barker Run Road  
Pine Grove, WV 26419-8325

**Name:** Coastal Forest Resources dba Coastal Timberlands Company  
**Address:** P.O. Box 709  
Buckhannon, WV 26201

**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:

State:	<u>WV</u>	UTM NAD 83	Eastings	<u>535,875.90</u>
County:	<u>Wetzel</u>		Northing	<u>4,375,427.70</u>
District:	<u>Grant</u>		Public Road Access:	<u>RT 20</u>
Quadrangle:	<u>Big Run 7.5</u>		Generally used farm name:	<u>Richard Dallison et al</u>
Watershed:	<u>Aunty Run of South Fork Fishing Creek</u>			

**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](http://www.dep.wv.gov/oil-and-gas/pages/default.aspx)

**Notice is hereby given by:**

**Well Operator:** EQT Production Company  
**Address:** 115 Professional Place, P.O Box 280  
Bridgeport, WV 26330  
**Telephone:** 304-848-0076  
**Email:** vroark@eqt.com  
**Facsimile:** 304-848-0041

**Authorized Representative:** Victoria Roark  
**Address:** 115 Professional Place, P.O Box 280  
Bridgeport, WV 26330  
**Telephone:** 304-848-0076  
**Email:** vroark@eqt.com  
**Facsimile:** 304-848-0041

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WW-6A5  
(1/12)

Operator Well No. 513921

**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:** 6/8/2015      **Date Permit Application Filed:** June 8, 2015

**Delivery method pursuant to West Virginia Code § 22-6A-16(c)**

**CERTIFIED MAIL**       **HAND**  
**RETURN RECEIPT REQUESTED**      **DELIVERY**

Pursuant to W. Va. Code § 22-6A-16(c), no later than the date for filing the permit application, an operator shall, by certified mail return receipt requested or hand delivery, give the surface owner whose land will be used for the drilling of a horizontal well notice of the planned operation. The notice required by this subsection shall include: (1) A copy of this code section; (2) The information required to be provided by subsection (b), section ten of this article to a surface owner whose land will be used in conjunction with the drilling of a horizontal well; and (3) A proposed surface use and compensation agreement containing an offer of compensation for damages to the surface affected by oil and gas operations to the extent the damages are compensable under article six-b of this chapter. (d) The notices required by this section shall be given to the surface owner at the address listed in the records of the sheriff at the time of notice.

**Notice is hereby provided to the SURFACE OWNER(s)**

(at the address listed in the records of the sheriff at the time of notice):

**Name:** Richard and Roxanne Funk  
**Address:** 4832 Fairport Road  
Newtown Falls OH 44444

**Name:** Larry Larew  
**Address:** 12750 W Middletown Road  
Salem OH 44460

**Notice is hereby given:**

Pursuant to West Virginia Code § 22-6A-16(c), notice is hereby given that the undersigned well operator has developed a planned operation on the surface owner's land for the purpose of drilling a horizontal well on the tract of land as follows:

State:	<u>WV</u>	UTM NAD 83	Easting:	<u>535,871.400000</u>
County:	<u>Wetzel</u>		Northing:	<u>4,375,428.500000</u>
District:	<u>Grant</u>	Public Road Access:	<u>RT 20</u>	
Quadrangle:	<u>Big Run 7.5'</u>	Generally used farm name:	<u>Richard Dallison et al</u>	
Watershed:	<u>Aunty Run of South Fork Fishing Creek</u>			

**This Notice Shall Include:**

Pursuant to West Virginia Code § 22-6A-16(c), this notice shall include: (1) A copy of this code section; (2) The information required to be provided by W. Va. Code § 22-6A-10(b) to a surface owner whose land will be used in conjunction with the drilling of a horizontal well; and (3) A proposed surface use and compensation agreement containing an offer of compensation for damages to the surface affected by oil and gas operations to the extent the damages are compensable under article six-b of this chapter. 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](http://www.dep.wv.gov/oil-and-gas/pages/default.aspx).

**Well Operator:** EQT Production Company  
**Telephone:** 304-848-0082  
**Email:** vroark@eqt.com

**Address:** 115 Professional Place, P.O. Box 280  
Bridgeport, WV 26330  
**Facsimile:** 304-848-0040

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WW-6A5  
(1/12)

Operator Well No. 513921

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: 6/8/2015 Date Permit Application Filed: June 8, 2015

Delivery method pursuant to West Virginia Code § 22-6A-16(c)

CERTIFIED MAIL RETURN RECEIPT REQUESTED  HAND DELIVERY

Pursuant to W. Va. Code § 22-6A-16(c), no later than the date for filing the permit application, an operator shall, by certified mail return receipt requested or hand delivery, give the surface owner whose land will be used for the drilling of a horizontal well notice of the planned operation. The notice required by this subsection shall include: (1) A copy of this code section; (2) The information required to be provided by subsection (b), section ten of this article to a surface owner whose land will be used in conjunction with the drilling of a horizontal well; and (3) A proposed surface use and compensation agreement containing an offer of compensation for damages to the surface affected by oil and gas operations to the extent the damages are compensable under article six-b of this chapter. (d) The notices required by this section shall be given to the surface owner at the address listed in the records of the sheriff at the time of notice.

Notice is hereby provided to the SURFACE OWNER(s)

(at the address listed in the records of the sheriff at the time of notice):

Name: Lydle M. Martyn  
Address: PO Box 7  
Jacksonburg WV 26377

Name: \_\_\_\_\_  
Address: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Notice is hereby given:

Pursuant to West Virginia Code § 22-6A-16(c), notice is hereby given that the undersigned well operator has developed a planned operation on the surface owner's land for the purpose of drilling a horizontal well on the tract of land as follows:

State: WV UTM NAD 83 Easting: 535,871.400000  
County: Wetzel Northing: 4,375,428.500000  
District: Grant Public Road Access: RT 20  
Quadrangle: Big Run 7.5' Generally used farm name: Richard Dallison et al  
Watershed: Aunty Run of South Fork Fishing Creek

This Notice Shall Include:

Pursuant to West Virginia Code § 22-6A-16(c), this notice shall include: (1) A copy of this code section; (2) The information required to be provided by W. Va. Code § 22-6A-10(b) to a surface owner whose land will be used in conjunction with the drilling of a horizontal well; and (3) A proposed surface use and compensation agreement containing an offer of compensation for damages to the surface affected by oil and gas operations to the extent the damages are compensable under article six-b of this chapter. 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](http://www.dep.wv.gov/oil-and-gas/pages/default.aspx).

Well Operator: EQT Production Company  
Telephone: 304-848-0082  
Email: vroark@eqt.com

Address: 115 Professional Place, P.O. Box 280  
Bridgeport, WV 26330  
Facsimile: 304-848-0040

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WW-6A5  
(1/12)

Operator Well No. 513921

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: 5-28-15 Date Permit Application Filed: 5-28-15

Delivery method pursuant to West Virginia Code § 22-6A-16(c)

CERTIFIED MAIL  
RETURN RECEIPT REQUESTED  HAND  
DELIVERY

4710303122

Pursuant to W. Va. Code § 22-6A-16(c), no later than the date for filing the permit application, an operator shall, by certified mail return receipt requested or hand delivery, give the surface owner whose land will be used for the drilling of a horizontal well notice of the planned operation. The notice required by this subsection shall include: (1) A copy of this code section; (2) The information required to be provided by subsection (b), section ten of this article to a surface owner whose land will be used in conjunction with the drilling of a horizontal well; and (3) A proposed surface use and compensation agreement containing an offer of compensation for damages to the surface affected by oil and gas operations to the extent the damages are compensable under article six-b of this chapter. (d) The notices required by this section shall be given to the surface owner at the address listed in the records of the sheriff at the time of notice.

Notice is hereby provided to the SURFACE OWNER(s)

(at the address listed in the records of the sheriff at the time of notice):

Name: Richard B. and Jaynee C Dallison  
Address: 28855 Shortline Hwy.  
Folsom, WV 26348-6021

Name: Thomas P. Dallison  
Address: 452 Trader Fork Road  
Folsom, WV 26348-6021

Notice is hereby given:

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State: WV UTM NAD 83 Easting: 535,871.400000  
County: Wetzel Northing: 4,375,428.500000  
District: Grant Public Road Access: RT 20  
Quadrangle: Big Run 7.5' Generally used farm name: Richard Dallison et al  
Watershed: Aunty Run of South Fork Fishing Creek

This Notice Shall Include:

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Well Operator: EQT Production Company Address: 115 Professional Place, P.O. Box 280  
Telephone: 304-848-0082 Bridgeport, WV 26330  
Email: vroark@eqt.com Facsimile: 304-848-0040

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WW-6A5  
(1/12)

Operator Well No. 513921

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: 5-28-15 Date Permit Application Filed: 5-28-15

Delivery method pursuant to West Virginia Code § 22-6A-16(c)

CERTIFIED MAIL RETURN RECEIPT REQUESTED  HAND DELIVERY

Pursuant to W. Va. Code § 22-6A-16(c), no later than the date for filing the permit application, an operator shall, by certified mail return receipt requested or hand delivery, give the surface owner whose land will be used for the drilling of a horizontal well notice of the planned operation. The notice required by this subsection shall include: (1) A copy of this code section; (2) The information required to be provided by subsection (b), section ten of this article to a surface owner whose land will be used in conjunction with the drilling of a horizontal well; and (3) A proposed surface use and compensation agreement containing an offer of compensation for damages to the surface affected by oil and gas operations to the extent the damages are compensable under article six-b of this chapter. (d) The notices required by this section shall be given to the surface owner at the address listed in the records of the sheriff at the time of notice.

Notice is hereby provided to the SURFACE OWNER(s)

(at the address listed in the records of the sheriff at the time of notice):

Name: Trenton D. Dallison  
Address: 2975 Barker Run Rd.  
Pine Grove WV 26419-8325

Name: Coastal Forest Resources dba Coastal Timberlands Company  
Address: PO Box 709  
Buckhannon WV 26201

Notice is hereby given:

Pursuant to West Virginia Code § 22-6A-16(c), notice is hereby given that the undersigned well operator has developed a planned operation on the surface owner's land for the purpose of drilling a horizontal well on the tract of land as follows:

State: WV UTM NAD 83 Easting: 535,871.400000  
County: Wetzel Northing: 4,375,428.500000  
District: Grant Public Road Access: RT 20  
Quadrangle: Big Run 7.5' Generally used farm name: Richard Dallison et al  
Watershed: Aunty Run of South Fork Fishing Creek

This Notice Shall Include:

Pursuant to West Virginia Code § 22-6A-16(c), this notice shall include: (1) A copy of this code section; (2) The information required to be provided by **W. Va. Code § 22-6A-10(b)** to a surface owner whose land will be used in conjunction with the drilling of a horizontal well; and (3) A proposed surface use and compensation agreement containing an offer of compensation for damages to the surface affected by oil and gas operations to the extent the damages are compensable under article six-b of this chapter. 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](http://www.dep.wv.gov/oil-and-gas/pages/default.aspx).

Well Operator: EQT Production Company  
Telephone: 304-848-0082  
Email: vroark@eqt.com

Address: 115 Professional Place, P.O. Box 280  
Bridgeport, WV 26330  
Facsimile: 304-848-0040

Oil and Gas Privacy Notice:

The Office of Oil and Gas processes your personal information, such as name, address and telephone number, as part of our regulatory duties. Your personal information may be disclosed to other State agencies or third parties in the normal course of business or as 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](mailto:depprivacyofficer@wv.gov).



WEST VIRGINIA DEPARTMENT OF TRANSPORTATION  
**Division of Highways**

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

Earl Ray Tomblin  
Governor

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

March 12, 2015

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

4710303122

Subject: DOH Permit for the BIG192 Pad Site, Wetzel County  
513921 BIG192H17      513922 BIG192H18      513949 BIG192H19

Dear Dr. Martin,

This well site will be accessed from existing Permit # 06-12-0519 issued to EQT Production Company for access to the State Road for a well site located off of Wetzel County Route 76 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, P.E.  
Regional Maintenance Engineer  
Central Office O&G Coordinator

Cc: Nick Bumgardner  
EQT Production Company  
CH, OM, D-6, File

**Anticipated Frac Additives**  
**Chemical Names and CAS numbers**

47 10303122

<u>Material</u>	<u>Ingredient</u>	<u>CAS Number</u>
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

# BIG 192 H1-H14 SITE PLAN EQT PRODUCTION COMPANY

(PROPOSED WELLS NO. WV 513534, WV 513535, WV 513536, WV 513537, WV 513538, WV 513539, WV 513872, WV 513873, WV 513874, WV 513875, WV 513876, WV 513916, WV 513917, WV 513918)

SITUATE ON THE WATERS OF TRIBUTARIES OF RICHWOOD RUN,  
FALLEN TIMER RUN, & AUNTY RUN  
IN GRANT DISTRICT, WETZEL COUNTY, WEST VIRGINIA.

## PROJECT INFORMATION

PROJECT NAME: BIG 192 H1-H14

TAX PARCEL:  
GRANT DISTRICT  
MAP 23-14

SURFACE OWNER:  
SICILIANO B. DALZION ET AL  
GRANT DISTRICT  
WETZEL COUNTY WV  
TOTAL PROPERTY AREA: 879.30 ± ACRES

OIL AND GAS ROYALTY OWNER:  
ED BROOK, INC ET AL  
GRANT DISTRICT  
WETZEL COUNTY WV  
TOTAL PROPERTY AREA: 1160.0 ± ACRES

SITE LOCATION:  
THE BIG 192 SITE IS LOCATED ON A RIDGE SOUTH OF CO. RT. 76,  
APPROXIMATELY 18,387 FT EAST OF THE CO. RT. 76 AND WV RT. 20  
INTERSECTION.

## LOCATION COORDINATES

BIG 192 H1-H14 WELL PAD ENTRANCE  
LATITUDE: 39.524192 LONGITUDE: -80.562105 (NAD 83)

BIG 192 H1-H14 WELL PAD  
LATITUDE: 39.527841 LONGITUDE: -80.562353 (NAD 83)

BIG 192 ASSOCIATED PIT  
LATITUDE: 39.528621 LONGITUDE: -80.581420 (NAD 83)

BIG 192 ASSOCIATED IMPOUNDMENT  
LATITUDE: 39.528041 LONGITUDE: -80.554308 (NAD 83)

## SITE DISTURBANCE COMPUTATIONS

PAD/ASSOCIATED PIT/ASSOCIATED IMPOUNDMENT AREA = 35.88 ± ACRES  
ACCESS ROAD = 32.27 ± ACRES  
TOTAL SITE DISTURBANCE = 68.15 ± ACRES  
\*INCLUDES AREA OF THE WELL PAD, ASSOCIATED PIT, ASSOCIATED  
IMPOUNDMENT & STOCKPILES

## ENTRANCE PERMIT

EQT PRODUCTION COMPANY WILL OBTAIN AN ENCROACHMENT PERMIT (FORM  
WM-106) FROM THE WEST VIRGINIA DEPARTMENT OF TRANSPORTATION  
DIVISION OF REGISTRARS, PRIOR TO COMMENCEMENT OF CONSTRUCTION  
ACTIVITIES.

## MISS UTILITY STATEMENT

MISS UTILITY OF WEST VIRGINIA WAS NOTIFIED FOR THE LOCATING OF  
UTILITIES PRIOR TO THIS PROJECT DESIGN. TICKET #120260000.  
IN ADDITION, MISS UTILITY WILL BE CONTACTED PRIOR TO START OF THE  
PROJECT.

## FLOODPLAIN NOTE

THE PROPOSED LIMITS OF DISTURBANCE FOR THIS PROJECT IS LOCATED IN  
FEMA FLOOD ZONE X. FILE THE FLOOD INSURANCE RATE MAP (FIRM) NUMBER  
540302010C, DATED SEPT 25, 2009.

## ENVIRONMENTAL NOTES

A WETLAND DELINEATION WAS PERFORMED ON MARCH 23, 2011, MARCH 6 & 7, 2012, & JULY 10 &  
14, 2012 BY POTIOTA ENGINEERS AND ENVIRONMENTAL CONSULTANTS TO REVIEW THE SITE FOR  
WATERS AND WETLANDS THAT ARE MOST LIKELY WITHIN THE REGULATORY JURISDICTION OF THE U.S.  
ARMY CORPS OF ENGINEERS (USACE) AND/OR THE WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL  
PROTECTION (WVDEP). THE AUGUST 03, 2012 REPORT PROJECT # 0101-11-0147-18003 WAS  
PREPARED BY POTIOTA ENGINEERS AND ENVIRONMENTAL CONSULTANTS. THE RESULTS OF  
THE FIELD DELINEATION. THE REPORT DOES NOT, IN ANY WAY, REPRESENT A JURISDICTIONAL  
DETERMINATION OF THE LANDWARD LIMITS OF WATERS AND WETLANDS WHICH MAY BE REGULATED BY  
THE USACE OR THE WVD. IT IS STRONGLY RECOMMENDED THAT THE APPROPRIATED AGENCIES  
BE CONSULTED IN AN EFFORT TO OBTAIN WRITTEN CONFIRMATION OF THE DELINEATION DESCRIBED BY  
THIS REPORT PRIOR TO ENGAGING CONSTRUCTION ON THE PROPERTY. SEEKERS HEREIN THE  
DEVELOPER SHALL OBTAIN THE APPROPRIATE PERMITS FROM THE FEDERAL AND/OR STATE  
REGULATORY AGENCIES PRIOR TO ANY PROPOSED IMPACTS TO WATERS OF THE U.S., INCLUDING  
WETLANDS AND STREAM CROSSINGS.

## GENERAL DESCRIPTION

THE WELL PAD, ASSOCIATED PIT & ASSOCIATED IMPOUNDMENT IS BEING  
CONSTRUCTED TO AID IN THE DEVELOPMENT OF INDIVIDUAL MARCELLUS SHALE GAS  
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!!

API#10302819  
API#10302820  
API#10302821  
API#10302822  
API#10302823  
API#10302824  
API#10302825  
API#10302826  
API#10302827  
API#10302828

## OPERATOR

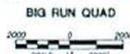
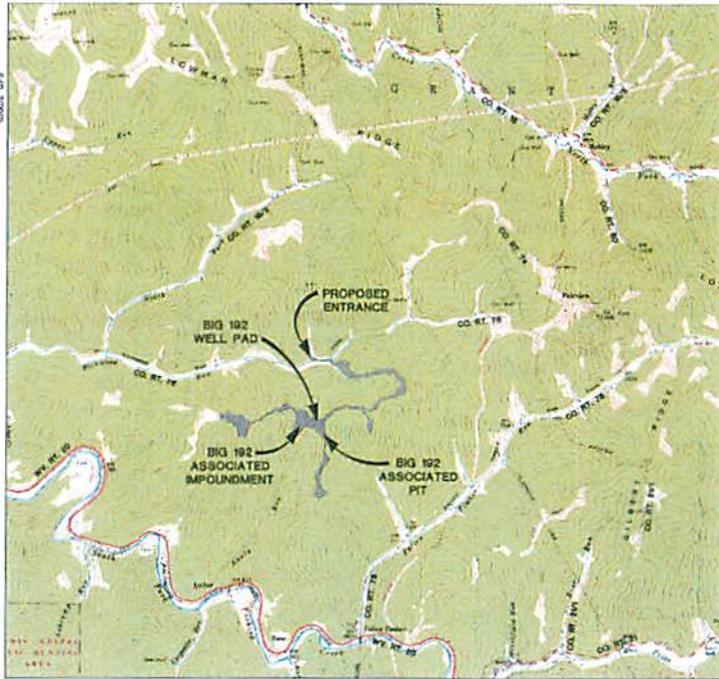
EQT PRODUCTION COMPANY  
OPERATOR ID: 306888  
110 PROFESSIONAL PLACE  
P.O. BOX 2903  
BRIDGEPORT, WV 26303  
PHONE: (304) 348-2810

## ENGINEER

NAVITUS ENGINEERING, INC.  
151 WINDY HILL LANE  
MONROEVILLE, PA 15146  
PHONE: (888) 682-4185

## SURVEYOR

SMITH LAND SURVEYING, INC.  
208 WEST MAIN STREET  
P.O. BOX 150  
GLAYVILLE, WV 26031  
PHONE: (304) 462-5634



## LIST OF DRAWINGS

- 1 - COVER SHEET
- 2 - NOTES
- 3 - OVERALL PLAN VIEW
- 4 - WELL PAD ASSOCIATED FIT AND IMPOUNDMENT DETAILS
- 5 - STOCKPILE F & G
- 6 - STOCKPILE C, A & J AND ACCESS ROAD TO BIG 303
- 7 - STOCKPILE A, B, L & K AND ACCESS ROAD TO BIG 303
- 8-12 - WELL PAD ACCESS ROAD DETAILS
- 13 - ASSOCIATED FIT SECTIONS
- 14 - WELL PAD & ASSOCIATED IMPOUNDMENT SECTIONS
- 15 - STREAM CROSSING "A" DETAILS
- 16 - STREAM CROSSING "B" DETAILS
- 17 - STREAM CROSSING "C" DETAILS
- 18-22 - ROAD PROFILES
- 23-25 - ROAD SECTIONS
- 34 - TEMPORARY EROSION DRAIN PROFILES
- 35-36 - WELL PAD FIT AND IMPOUNDMENT RECLAMATION PLAN
- 37-40 - CONSTRUCTION DETAILS

**APPROVED  
WVDEP OOG**  
*SAY 10/19/2012*

LEGEND	
XX INDEX CONTOUR	PROP. INDEX CONTOUR
XX INTERMEDIATE CONTOUR	PROP. INTERMEDIATE CONTOUR
XX BOUNDARY LINE	PROP. GRADING LIMITS
XX ROAD EDGE OF GRAVEL/DIRT	PROP. LIMITS OF DISTURBANCE
XX ROAD EDGE OF PAVEMENT	PROP. WELL PAD
XX ROAD CENTERLINE	PROP. WELL DEAD
XX DITCHLINE	PROP. 4" PVC DRAIN PIPE
XX VALLEYLINE	PROP. DUMP DRAG
XX QUADRANT	PROP. CONTAINMENT BEAM
XX FENCELINE	PROP. PIT/IMPOUNDMENT CL.
XX GATE	PROP. PERMETER SAFETY FENCE
XX OVERHEAD UTILITY	PROP. ACCESS GATE WITH EMERGENCY LIGHTING
XX OVERHEAD UTILITY R/W	
XX POWER POLE	
XX GUY WIRE	
XX TELEPHONE LINE	
XX GASLINE	PROP. ROCK CONSTRUCTION EXTRACT
XX WATERWELL	
XX GAS WELL	
XX TRAILLINE	PROP. ROCK CONSTRUCTION EXTRACT
XX REFERENCE TREE	
XX DELINEATED STREAM	PROP. ROAD EDGE OF GRAVEL
XX DELINEATED WETLAND	PROP. ROAD CENTERLINE
	PROP. V-DITCH W/ CHECK DAM
	PROP. ROCK RELIEF
	PROP. 80'-RIP OUTLET PROTECTION
	PROP. QUADRANT
	PROP. ROCK LEVEL SPREADER
	PROP. EASTERN OVERFLOW BEAM
	PROP. ORANGE SAFETY FENCE
	PROP. SUPER BILT FENCE
	PROP. REINFORCED BILT FENCE
	PROP. COMPOST SORE DEFLECTION
	PROP. GROUNDWATER MONITORING TRENCH
	PROP. GROUNDWATER MONITORING PIPE
SECTION LINE	
	SECTION GRID INDEX
	SECTION PROPOSED GRADE
	SECTION EXISTING GRADE
	SECTION WATER SURFACE
	SPOT ELEVATION

**NAVITUS ENGINEERING, INC.**  
Engineering Survey Environmental GIS

**SLS SMITH LAND SURVEYING, INC.**  
PROFESSIONAL SURVEYING AND ENVIRONMENTAL SERVICES

111 West Park Lane  
Martinsburg, WV 26151  
Phone: (304) 462-5634  
Fax: (304) 462-5634  
E-Mail: info@slsurvey.com



THIS DOCUMENT WAS  
PREPARED BY  
NAVITUS ENGINEERING  
INC.  
FOR EQT PRODUCTION  
COMPANY

LOCATION MAP  
**BIG 192**  
GRANT DISTRICT  
WETZEL COUNTY, WV

DATE: 06/06/2012  
SCALE: 1" = 2000'  
DESIGNED BY: CEK  
FILE NO: 7797  
SHEET 1 OF 40

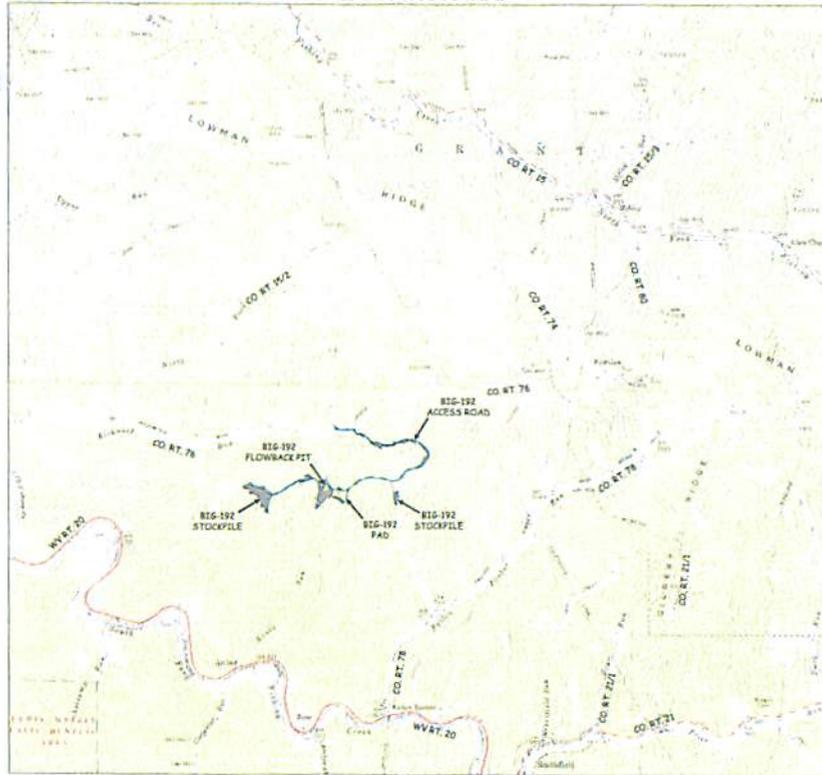
# BIG-192 AS-BUILT SITE PLAN EQT PRODUCTION COMPANY

**EXISTING WELLS API NO's:** 47-103-02819, 47-103-02825, 47-103-02826, 47-103-02824, 47-103-02820, 47-103-02823, 47-103-02822, 47-103-02821, 47-103-02827, 47-103-02828, 47-103-02855, 47-103-02900, 47-103-03040, 47-103-03041, 47-103-03042 & 47-103-02855

**PROPOSED WELLS:** WV 513921, WV 513922, WV 515949, WV 515950, & WV515951.

SITUATE ON THE WATERS OF TRIBUTARIES OF RICHWOOD RUN,  
FALLEN TIMBER RUN & AUNTY RUN  
IN GRANT DISTRICT, WETZEL COUNTY, WEST VIRGINIA.

## LOCATION MAP



### PROJECT INFORMATION

PROJECT NAME: BIG-192 AS-BUILT SITE PLAN  
TAX PARCEL: GRANT DISTRICT MAP 23 14

**SURFACE OWNER:** RICHARD B. DALLISON ET AL.  
GRANT DISTRICT WETZEL COUNTY, WV  
TOTAL PROPERTY AREA: 879.30 ACRES

**ROYALTY OWNER:** EQUICOM, INC. ET AL.  
GRANT DISTRICT WETZEL COUNTY, WV  
TOTAL PROPERTY AREA: 1390.00 ACRES

### SITE LOCATION

THE BIG-192 SITE IS LOCATED ON A RIDGE SOUTH OF CO. RT. 76, APPROXIMATELY 18,307 FT EAST OF THE CO. RT. 78 AND WV RT. 20 INTERSECTION.

### BIG 192 LOCATION COORDINATES

BIG 192 SITE ENTRANCE  
LATITUDE: 39.534102 LONGITUDE: -80.543053 (NAD 83)  
N: 431819.915 E: 833033.854 (UTM NAD 83 ZONE 17)

BIG 192 WELL PAD (CENTER PAD)  
LATITUDE: 39.537181 LONGITUDE: -80.562333 (NAD 83)  
N: 432425.284 E: 832877.771 (UTM NAD 83 ZONE 17)

BIG 192 ASSOCIATED PIT  
LATITUDE: 39.528713 LONGITUDE: -80.568390 (NAD 83)  
N: 432548.202 E: 832743.426 (UTM NAD 83 ZONE 17)

### SITE DISTURBANCE COMPUTATIONS

ORIGINAL LOG ACRES = 36.56 ACRES  
PROPOSED ADDITIONAL LOG ACRES = 35 ACRES  
DELETED (CANCELLED) LOG ACRES = 4 ACRES  
RE-DESIGNATED AREA WITHIN LOG = 2.8 ACRES  
TOTAL ACRES AFTER MODIFICATION IS APPROVED = 36.56 ACRES

### GENERAL DESCRIPTION

THE WELL PAD AND ASSOCIATED PIT HAVE BEEN CONSTRUCTED TO ADD IN THE DEVELOPMENT OF REVENUE. MARKED PLUS SHALL BE WELLS.

### BIG 192 AS-BUILT DISTURBANCE

SURFACE OWNER	TAX MAP/PARCEL	AS-BUILT DISTURBANCE (AC)
COASTAL LAMBER COMPANY	TM 23 14	12.37
COASTAL FOREST RESOURCES COMPANY	TM 23 14	0.00
THOMAS E. BRYANT ET AL.	TM 23 14	0.00
RICHARD B. DALLISON ET AL.	TM 23 14	31.51
COASTAL LAMBER COMPANY	TM 17 14	12.00

### LIST OF DRAWINGS

- COVER SHEET
- CONSTRUCTION NOTES
- INDEX SHEET
- BIG 192 ACCESS ROAD AS-BUILT
- BIG 192 ACCESS ROAD / STOCKPILE AS-BUILT
- BIG 192 ACCESS ROAD AS-BUILT
- BIG 192 SITE AS-BUILT (PAD AND PIT)
- BIG 192 ACCESS ROAD AS-BUILT
- BIG 192 ACCESS ROAD / STOCKPILE AS-BUILT
- BIG 192 ACCESS ROAD PROFILE
- CONSTRUCTION DETAILS
- CONSTRUCTION DETAILS
- CONSTRUCTION DETAILS
- DECLARATION DETAILS

### LEGEND

LIMITS OF DISTURBANCE	SYMBOL
COMPOUND FILTER SOCK	[Symbol]
EX. BOUNDARY LINE	[Symbol]
EX. ROAD EDGE OF GRAVEL/TOP	[Symbol]
EX. ROAD EDGE OF PAVEMENT	[Symbol]
EX. ROAD CENTERLINE	[Symbol]
EX. STAKELINE	[Symbol]
EX. COLLIER	[Symbol]
EX. FENCELINE	[Symbol]
EX. GATE	[Symbol]
EX. OVERHEAD UTILITY	[Symbol]
EX. OVERHEAD UTILITY R/W	[Symbol]
EX. POWER POLE	[Symbol]
EX. CITY WIRE	[Symbol]
EX. TELEPHONE LINE	[Symbol]
EX. GULCH	[Symbol]
EX. CULVERT R/W	[Symbol]
EX. WATERLINE	[Symbol]
EX. MONITORING WELL	[Symbol]
EX. TRAILLINE	[Symbol]
EX. APPROPRIATE TREE	[Symbol]
EX. DELINEATED STREAM	[Symbol]
EX. UNDESIGNATED WETLAND	[Symbol]
EX. STRUCTURE	[Symbol]
EX. PIPELINE MARKER	[Symbol]
BIG FOOTPRINT	[Symbol]
EDGE OF GRAVEL PAD	[Symbol]
EDGE OF BEAM	[Symbol]
EX. SHOWN BUT NOT SET	[Symbol]
BEAM	[Symbol]
GRAVEL	[Symbol]
ORIGINAL BOUNDARY CONTOUR	[Symbol]
AS-BUILT E. CONTOUR	[Symbol]
PHOTO NUMBER & LOCATION	[Symbol]
AS-BUILT ELEVATIONS	[Symbol]
PROPOSED WELL LOCATIONS	[Symbol]
SPOT ELEVATIONS	[Symbol]
WATERLINE	[Symbol]
ADDITIONAL AREA	[Symbol]

MISS Utility of West Virginia  
1-800-245-4848  
West Virginia State Law  
Section XIV, Chapter 24  
requires that you call two business days  
before you dig in the state of West Virginia.  
IT'S THE LAW!  
JUN 10 2015  
RECEIVED  
Department of  
Oil and Gas

Environmental Protection



**BIG-192 SITE PLAN  
MODIFICATION**  
THIS DOCUMENT WAS PREPARED BY  
EQT PRODUCTION COMPANY

DATE: 02-11-15  
SHEET NO: 1 OF 17  
SCALE: 1" = 2000'  
DESIGNED BY: UNB  
FILE NO: 7797

4710303122  
DMH  
6-1-15

# BIG-192 AS-BUILT SITE PLAN

SITUATE ON THE WATERS OF  
TRIBUTARIES OF RICHWOOD RUN,  
FALLEN TIMBER RUN & AUNT RUN  
IN GRANT DISTRICT, WETZEL COUNTY, WEST VIRGINIA.

4710303122



GRID NORTH AND  
ELEVATIONS SHOWN  
HEREON WERE  
ESTABLISHED BY DGPS  
SURVEY GRADE

**BIG-192 AS-BUILT VOLUMES**

PHASE 1 AS-BUILT RICHWOOD ACCESS ROAD			
VOLUME OF EARTHWORK	PROPOSED (CY)	AS-BUILT (CY)	DIFFERENCE
CUT VOLUME	10,400	10,400	0
FILL VOLUME	10,400	10,400	0
TOTAL VOLUME	20,800	20,800	0

\* APPROXIMATELY 80% OF CUT VOLUME WAS USED FOR FILL AND 20% WAS EXPORTED TO NEARBY SITES. THE FILL VOLUME WAS OBTAINED FROM THE ORIGINAL DESIGN AND THE AS-BUILT VOLUME WAS OBTAINED FROM THE ORIGINAL DESIGN.

PHASE 2 AS-BUILT RICHWOOD WALKWAY			
VOLUME OF EARTHWORK	PROPOSED (CY)	AS-BUILT (CY)	DIFFERENCE
CUT VOLUME	1,000	1,000	0
FILL VOLUME	1,000	1,000	0
TOTAL VOLUME	2,000	2,000	0

\* APPROXIMATELY 80% OF CUT VOLUME WAS USED FOR FILL AND 20% WAS EXPORTED TO NEARBY SITES. THE FILL VOLUME WAS OBTAINED FROM THE ORIGINAL DESIGN AND THE AS-BUILT VOLUME WAS OBTAINED FROM THE ORIGINAL DESIGN.

PHASE 3 AS-BUILT RICHWOOD ASSOCIATED PIT			
VOLUME OF EARTHWORK	PROPOSED (CY)	AS-BUILT (CY)	DIFFERENCE
CUT VOLUME	10,000	10,000	0
FILL VOLUME	10,000	10,000	0
TOTAL VOLUME	20,000	20,000	0

\* APPROXIMATELY 80% OF CUT VOLUME WAS USED FOR FILL AND 20% WAS EXPORTED TO NEARBY SITES. THE FILL VOLUME WAS OBTAINED FROM THE ORIGINAL DESIGN AND THE AS-BUILT VOLUME WAS OBTAINED FROM THE ORIGINAL DESIGN.

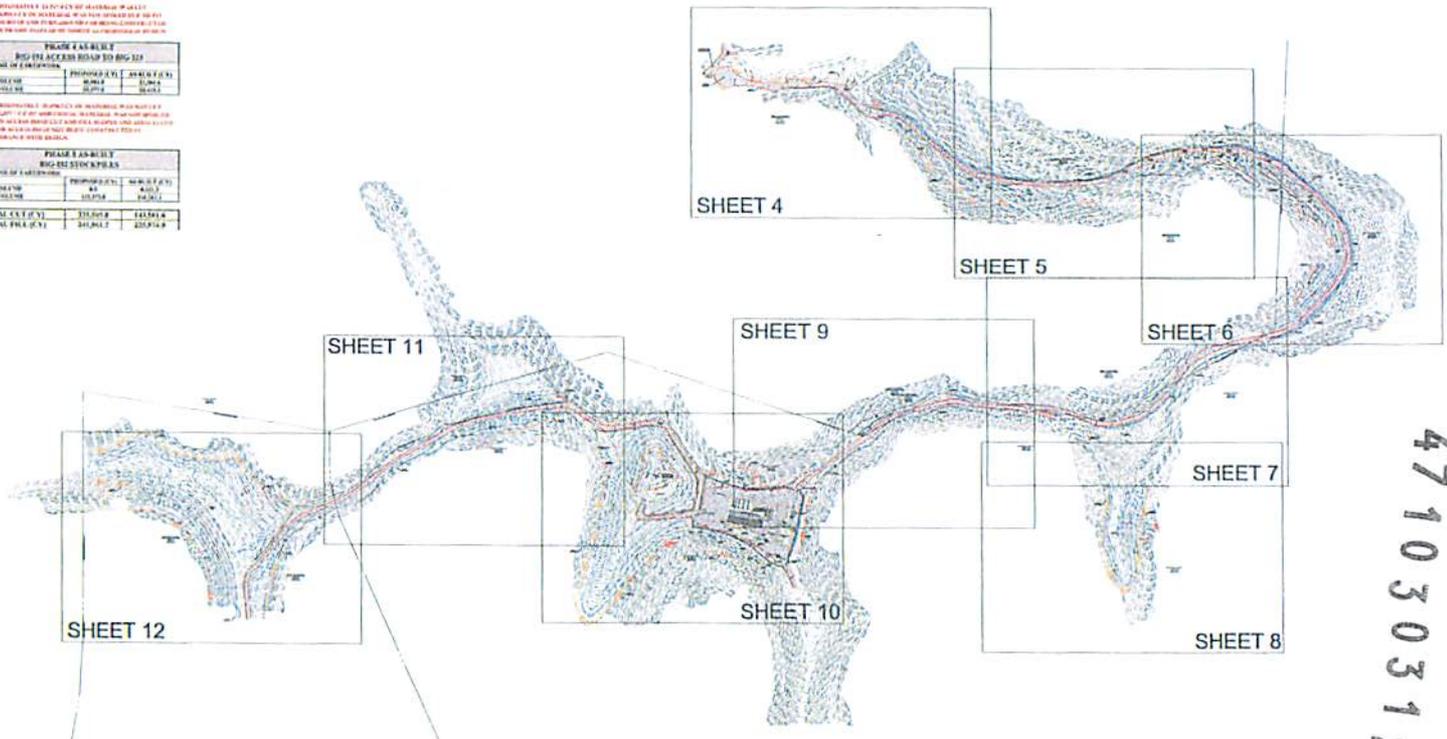
PHASE 4 AS-BUILT RICHWOOD ACCESS ROAD TO BIG-192			
VOLUME OF EARTHWORK	PROPOSED (CY)	AS-BUILT (CY)	DIFFERENCE
CUT VOLUME	10,000	10,000	0
FILL VOLUME	10,000	10,000	0
TOTAL VOLUME	20,000	20,000	0

\* APPROXIMATELY 80% OF CUT VOLUME WAS USED FOR FILL AND 20% WAS EXPORTED TO NEARBY SITES. THE FILL VOLUME WAS OBTAINED FROM THE ORIGINAL DESIGN AND THE AS-BUILT VOLUME WAS OBTAINED FROM THE ORIGINAL DESIGN.

PHASE 5 AS-BUILT RICHWOOD SEWER PIPES			
VOLUME OF EARTHWORK	PROPOSED (CY)	AS-BUILT (CY)	DIFFERENCE
CUT VOLUME	10,000	10,000	0
FILL VOLUME	10,000	10,000	0
TOTAL VOLUME	20,000	20,000	0

\* APPROXIMATELY 80% OF CUT VOLUME WAS USED FOR FILL AND 20% WAS EXPORTED TO NEARBY SITES. THE FILL VOLUME WAS OBTAINED FROM THE ORIGINAL DESIGN AND THE AS-BUILT VOLUME WAS OBTAINED FROM THE ORIGINAL DESIGN.

TOTAL AS-BUILT VOLUMES			
VOLUME OF EARTHWORK	PROPOSED (CY)	AS-BUILT (CY)	DIFFERENCE
CUT VOLUME	50,800	50,800	0
FILL VOLUME	50,800	50,800	0
TOTAL VOLUME	101,600	101,600	0



4710303122

Dm4  
6-1-15



REVISION	DATE	DESCRIPTION
<small>THIS DOCUMENT WAS PREPARED BY SMITH LANG SURVEYING, INC. FOR EQ3.</small>		
<b>BIG-192 SITE PLAN MODIFICATION</b>		
<small>THIS DOCUMENT WAS PREPARED BY SMITH LANG SURVEYING, INC. FOR EQ3 PRODUCTION COMPANY.</small>		
DATE	02-11-15	
EQ3		
SCALE	1" = 300'	
DESIGNED BY	EBB	
FILE NO	7797	
SHEET	3 OF 17	

RECEIVED  
 Office of Oil and Gas  
 JUN 10 2015  
 WV Department of  
 Environmental Protection

