

west virginia department of environmental protection

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

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

Wednesday, November 30, 2016 WELL WORK PERMIT Horizontal 6A / New Drill

EQT PRODUCTION COMPANY 120 PROFESSIONAL PLACE BUILDING II BRIDGEPORT, WV 26330

Re: Permit approval for 515109

47-103-03162-00-00

This well work permit 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 any additional specific 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 of 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.

Per 35 CSR 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) 926-0450.

Operator's Well Number: 515109

Farm Name: COASTAL FOREST RESOURCES COMPANY D/B/A COASTAL

Chief

James A. Martin

U.S. WELL NUMBER: 47-103-03162-00-00

Horizontal 6A / New Drill

Date Issued: 11/30/2016

| API Number: | |
|-------------|--|
| | |

PERMIT CONDITIONS 47 1 0 3 0 3 1 6 2

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

CONDITIONS

- 1. This proposed activity may require permit coverage from the United States Army Corps of Engineers (USACE). Through this permit, you are hereby being advised to consult with USACE regarding this proposed activity.
- 2. If the operator encounters an unanticipated void, or an anticipated void at an unanticipated depth, the operator shall notify the inspector within 24 hours. Modifications to the casing program may be necessary to comply with W. Va. Code § 22-6A-5a (12), which requires drilling to a minimum depth of thirty feet below the bottom of the void, and installing a minimum of twenty (20) feet of casing. Under no circumstance should the operator drill more than one hundred (100) feet below the bottom of the void or install less than twenty (20) feet of casing below the bottom of the void.
- 3. When compacting fills, each lift before compaction shall not be more than 12 inches in height, and the moisture content of the fill material shall be within limits as determined by the Standard Proctor Density test of the actual soils used in specific engineered fill, ASTM D698, Standard Test Method for Laboratory Compaction Characteristics of Soil Using Standard Effort, to achieve 95 % compaction of the optimum density. Each lift shall be tested for compaction, with a minimum of two tests per lift per acre of fill. All test results shall be maintained on site and available for review.
- 4. Operator shall install signage per § 22-6A-8g (6) (B) at all source water locations included in their approved water management plan within 24 hours of water management plan activation.
- 5. Oil and gas water supply wells will be registered with the Office of Oil and Gas and all such wells will be constructed and plugged in accordance with the standards of the Bureau for Public Health set forth in its Legislative rule entitled *Water Well Regulations*, 64 C.S.R. 19. Operator is to contact the Bureau of Public Health regarding permit requirements. In lieu of plugging, the operator may transfer the well to the surface owner upon agreement of the parties. All drinking water wells within fifteen hundred feet of the water supply well shall be flow tested by the operator upon request of the drinking well owner prior to operating the water supply well.
- 6. Pursuant to the requirements pertaining to the sampling of domestic water supply wells/springs the operator shall, no later than thirty (30) days after receipt of analytical data provide a written copy to the Chief and any of the users who may have requested such analyses.
- 7. If any explosion or other accident causing loss of life or serious personal injury occurs in or about a well or well work on a well, the well operator or its contractor shall give notice, stating the particulars of the explosion or accident, to the oil and gas inspector and the Chief, within 24 hours of said accident.
- 8. During the casing and cementing process, in the event cement does not return to the surface, the oil and gas inspector shall be notified within 24 hours.
- 9. The operator shall provide to the Office of Oil and Gas the dates of each of the following within 30 days of their occurrence: completion of construction of the well pad, commencement of drilling, cessation of drilling, completion of any other permitted well work, and completion of the well. Such notice shall be provided by sending an email to DEPOOGNotify@wv.gov.



August 10, 2016

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

Re: Casing plan on Wells (BIG360)

Dear Mr. Smith,

EQT is requesting the 13-3/8" surface casing be set at 856' KB, 100' below the workable Pittsburgh Coal seam. We will set the 9-5/8" intermediate string at 2480' KB, 50' below the base of the Weir formation.

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

Sincerely,

Vicki Roark

Permitting Supervisor

Enc.

DMH 9-25-16

Office of Oil & Gas

47 10 3 0 3 1 6 2

WW-68 (04/15)

| API NO. 47- <u>103</u> | |
|--------------------------|---|
| OPERATOR WELL NO. 515109 | • |
| Well Pad Name: BIG360 | • |

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

| 1) Well Operat | or: EQTP | roduction C | Company | 306686 | Wetzel | Grant | Big Run | | | | | | |
|---|---|--------------------------------|---|-------------------------|---------------|--------------|---|--|--|--|--|--|--|
| | | | | Operator ID | County | District | Quadrangle | | | | | | |
| 2) Operator's V | Well Number | r: <u>515109</u> | | Well P | ad Name: BIC | 9360 | - · · · · · · · · · · · · · · · · · · · | | | | | | |
| 3) Farm Name/ | Surface Ow | ner: Coastal Fo | rest Resources Co tal Timberlands Co | | oad Access: R | T 76 | | | | | | | |
| 4) Elevation, current ground: 1008' Elevation, proposed post-construction: 998' | | | | | | | | | | | | | |
| 5) Well Type (a) Gas X Oil Underground Storage | | | | | | | | | | | | | |
| | Other | | | | | | | | | | | | |
| | (b)If Gas | Shallow | X | Deep | | | | | | | | | |
| | | Horizontal | <u>x</u> | | | | D | | | | | | |
| 6) Existing Pad | | | | | | | Vm 1+ 9-25-11 | | | | | | |
| 7) Proposed Ta Marcellus, 70 | rget Formati 085', 51', 262 | ion(s), Deptl 20 PSI top of | n(s), Antici Marcellus 7 | pated Thickness 064' | and Expected | Pressure(s): | 7-27-71 | | | | | | |
| 8) Proposed To | Marcellus, 7085', 51', 2620 PSI top of Marcellus 7064' 8) Proposed Total Vertical Depth: 7085' | | | | | | | | | | | | |
| 9) Formation at | Total Verti | cal Depth: | Marcellus | | | | | | | | | | |
| 10) Proposed T | otal Measur | ed Depth: | 12771' | | | | | | | | | | |
| 11) Proposed H | lorizontal Le | eg Length: | 5201' | | | | | | | | | | |
| 12) Approxima | te Fresh Wa | ter Strata De | epths: | 280, 342' | | | | | | | | | |
| 13) Method to I | Determine F | resh Water I | Depths: B | y offset walls | | | | | | | | | |
| 14) Approxima | te Saltwater | Depths: 19 | 961' | | | - | | | | | | | |
| 15) Approxima | te Coal Sean | n Depths: 2 | 69, 429, 6 | 550, 752' | | | | | | | | | |
| 16) Approxima | te Depth to l | Possible Voi | d (coal mir | ne, karst, other): | None | | | | | | | | |
| 17) Does Propo | | | | ns | | | | | | | | | |
| directly overlying | ng or adjace | nt to an acti | ve mine? | Yes | N | 10 X | | | | | | | |
| (a) If Yes, pro | vide Mine I | nfo: Name | : | | | | | | | | | | |
| | | Depth | ı: | | | | | | | | | | |
| | | Seam | | | | Red | ceived | | | | | | |
| | | Owne | r: | | | Office of | Oil & Gas | | | | | | |
| | | | | | | OCT | 0.7 2016 | | | | | | |

| WW-6B |
|---------|
| (04/15) |

47 10 3 0 3 1 6 2 API NO. 47-103 OPERATOR MAJE

OPERATOR WELL NO. 515109 Well Pad Name: BIG360

18)

CASING AND TUBING PROGRAM

| 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.)/CTS |
|--------------|--------------|-------------------|-------|---------------------------|-------------------------------|---|-------------------------------------|
| Conductor | 20 | New | A-500 | 78.6 | 40 | 40 | 60 ft^3 / CTS |
| Fresh Water | 13 3/8 | New | J-55 | 54.5 | 856 | 856 | 757 ft^3 / CTS |
| Coal | | | | | | | |
| Intermediate | 9 5/8 | New | A-500 | 40 | 2480 | 2480 | 971 ft^3 / CTS |
| Production | 5 1/2 | New | P-110 | 20 | 12771 | 12771 | 500' above top producing zone |
| Tubing | 2 3/8 | | J-55 | 4.7 | | May not be run, if run set 40' above top perf or 80° inclination. | |
| Liners | | | | | | acces to period to inclination. | |

DMH 9-25-16

| ТҮРЕ | Size (in) | Wellbore Diameter (in) | <u>Wall</u> <u>Thickness</u> <u>(in)</u> | Burst Pressure (psi) | Anticipated Max. Internal Pressure (psi) | Cement Type | Cement Yield (cu. ft./k) |
|--------------|-----------|---------------------------|--|----------------------|--|----------------|---------------------------------------|
| Conductor | 20 | 26 | .375 | 1378 | 1102 | Class A | |
| Fresh Water | 13 3/8 | 17 1/2 | .38 | 2700 | 2160 | See Variance | 1.19 |
| Coal | | | | | | | |
| Intermediate | 9 5/8 | 12 3/8 | .395 | 3950 | 3160 | See Variance | 1.19 |
| Production | 5 1/2 | 8 1/2 | .361 | 12640 | 10112 | Class A/H | 1.123/2.098 |
| Tubing | 2 3/8 | NA | .19 | 7700 | | | · · · · · · · · · · · · · · · · · · · |
| Liners | | | | | | | |

PACKERS

| Kind: | |
|-------------|------------------------------|
| Sizes: | |
| Depths Set: | |
| | Received Office of Oil & Gas |

OCT 07 2016

| WW6B | |
|---------|--|
| (10/14) | |

47 10 3 0 3 1 6 2 API NO. 47-103 OPERATOR V

OPERATOR WELL NO. 515109

Well Pad Name: BIG360

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. Drill the vertical to an approximate depth of 5650'. Kick off and drill curve. Drill the lateral in the Marcellus. Cement casing.

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 be approximately 10000 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): 16.03
- 22) Area to be disturbed for well pad only, less access road (acres): 5.02
- 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 solid body cent spaced every joint from production casing shoe to KOP

24) Describe all cement additives associated with each cement type:

Conductor: Class A no additives Surface (Type 1 Cement): 0-3% Calcium Chloride Used to speed the setting of cement slumes, .25% Flake Loss Circulation Material (LCM) is used to combat the loss of the cement slumy 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 slumes. 0.25% flake. Loss Circulation Material (LCM) is used to combat the loss of whole drilling fluid or cement slurry (not filtrate) to a thief zone.

Lead (Type H Cement): 0.2% CD-20 (dispersant makes cement easier to mix). .15% SuperFL-300 (fluid loss/lengthens thickening time) .15% SEC-10 (fluid loss) 50:50 POZ (extender)
Tail (Type H Cement): 0.2% Super CR-1 (Retarder). Lengthens thickening time. .3% Super FL-300 (fluid loss) .2% SEC-10 (Fluid loss). .2% SuperFL-350 (fluid loss) Reduces amount of water lost to formation. 60 % Calcuim Carbonate. Acid solubility.

25) Proposed borehole conditioning procedures:

Surface: Circulate hole clean while rotating & reciprocating the drill string until cuttings diminish at surface. Intermediate: Circulate hole clean while rotating & reciprocating the drill string until cuttings diminish at surface.

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. Received

Office of Oil & Gas

*Note: Attach additional sheets as needed.

Page 3 2 / 0 2 / 2016

515109 (BIG360H2)

EQT Production

Big Run Quad Wetzel County, WV

Azimuth 346.5 5407 **Vertical Section**

Note: Diagram is not to scale

| NOIO: Diagram is noi to scale | | | | | | | | | |
|------------------------------------|-------------|--------------|--|--------------------------------|--|--|---|---|------------------------------------|
| | Top Base | | | | Casing and Cementing | | | Deepest Fresh Wat | er: 0 ' |
| Formations | TVD TVD | | | | Туре | Conductor | Surface | Intermediate | Production |
| Conductor | 40 | | | | Hole Size, In. | 26 | 17 1/2 | 12 3/8 | 8 1/2 |
| | | - 111 | | | Casing Size, OD In. | 20 | 13 3/8 | 9 5/8 | 5 1/2 |
| Base Fresh Water | 342 | 111 | 111 | | Casing Wall Thickness, In. | 0.375 | 0.380 | 0.395 | 0.361 |
| | | 111 | 111 | | Depth, MD | 40' | 856' | 2,480' | 12,771' |
| Surface Casing | 856 | | | | Weight | 78.6# | 54.5# | 40# | 20# |
| _ | | 11 | | | Grade | A-500 | J-55 | A-500 | P-110 |
| Maxton | 1781 - 1798 | | 1 1 | | New or Used | New | New | New | New |
| Big Lime | 1932 - 2071 | 11 | 11 | | Burst (psi) | 1378 | 2,700 | 3,950 | 12,640 |
| Big Injun | 2094 - 2195 | 11 | 1 1 | | Cement Class | Α | A / Type 1 | A / Type 1 | A/H |
| Weir | 2361 - 2430 | 11 | | | Cement Yield | 1.18 | 1.19 | 1.19 | 1.123 / 2.098 |
| Intermediate Casing | 2480 | 4 | | | Top of Cement (Planned) | Surface | Surface | Surface | 500' above top Producing Zone |
| Gantz | 2512 - 2547 | | | | | | | <u> </u> | |
| Fifty foot | 2617 - 2645 | | | | Method | Displacement | Displacement | Displacement | Displacement |
| Base Red Rock | 2721 | | 1 | | Est. Volume (cu ft) | 60 | 757 | 971 | 2,629 |
| Thirty foot | 2773 - 2787 | - 1 | | | | Ì | | | Calcium Carbonate, Fluid Loss, |
| Gordon | 2789 - 2835 | | i | | | | Calcium | | Extender, Dispersent, Viscosifier, |
| Forth Sand | 2875 - 2886 | i | | | Possible Additives | N/A | Chloride | Calcium Chloride | Defoamer, POZ, Bonding Agent, |
| Bayard | 3007 - 3032 | 4 | <u>i</u> | | 1 | | 011101100 | | Retarder, Anti-Settling/Suspension |
| | | | | | | | | | Agent |
| Warren | 3455 - 3512 | I | | | | | | | |
| Speechley | 3609 - 3643 | | | | | | | | |
| Balitown A | 3962 - 4328 | | l . | | | | | | |
| Riley | 4450 - 4489 | 1 | | | | | | | |
| Benson | 5105 - 5157 | | | | | | | | |
| Alexander | 5445 - 5484 | | KOP @ | 5,650' | 5 | | | | |
| Sonyea | 6650 - 6801 | | | | DAH 5-25-16 | | | | |
| Middlesex | 6801 - 6849 | I | | | <i>y</i> (1) | | | | |
| Genesee | 6849 - 6932 | 1 | 1 | | 9-29-11 | | | | 4 |
| Geneseo | 6932 - 6960 | 1 | 1 | | , , , | | | | |
| Tully | 6960 - 6984 | 1 | \ \ | | | | | | 7 |
| Hamilton | 6984 - 7064 | | <i>\\</i> | | | | | | <u></u> |
| Marcellus | 7064 - 7115 | ENERGY PARTY | DESCRIPTION OF THE PROPERTY OF | in the second of the first the | 医大麻 网络克拉克 医小腹性 医克里特氏试验检检验 医克里克氏病 | are de different participation for the large | A CONTRACTOR STATEMENT OF THE STATEMENT | THE RESERVE STONE OF THE BEAUTY OF THE STREET OF THE STREET | |
| Production Casing | 12771 MD | | | | | | | | |
| Onondaga | 7115 | EG-584162054 | CONTRACTOR CONTRACTOR | | AND RESTREED STOSES FRANKLISH CONTRACTOR CON | THE PROPERTY OF THE PARTY. | estate property and the second | | 22.50 |
| | | | | | | | | | ` |
| | | Land cur | ve @ _7,085' T' | VD | | | Est. TD @ | 7,085' | TVD |
| | | Hece | Wed 7,570' M | D | | | | 12,77 | 1' MD |
| | 1 | Office of | Oil & Gas | | | | | | <i></i> |
| Proposed Well Work: | | | ्या छ Gas | | | ~ | | | |
| Mailleand annual state a mass back | | | | | | E 2011 | Lateral | | |

Drill and complete a new horizontal well in the Marcellus formation.

Drill the vertical to an approximate depth of 5650'.

07 2016

Kick off and drill curve. Drill lateral in the Marcellus. Cement casing.

5,201' Lateral

N



west virginia department of environmental protection

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

March 18, 2014

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

Re: Cement Variance Request

Dear Sir or Madam,

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

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

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

Sincerely,

James Peterson

Environmental Resources Specialist / Permitting

Promoting a healthy environment



west virginia department of environmental protection

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

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

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

REPORT OF THE OFFICE

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

FINDINGS OF FACT

- 1.) Nabors Completion & Production Services Co. proposes the following cement blend:
 - 2% Calcium Chloride (Accelerator)
 - 0.25 % Super Flake (Lost Circulation)
 - · 94% Type "1" Cement
 - 5.20 % Water
- Laboratory testing results indicate that the blend listed in Fact No.1 will achieve a 500
 psi compressive strength within 6 hours and a 2,435 psi compressive strength within 24
 hours.

Promoting a healthy environment.

Oliver in Cit and Gas

SEP 8 9 2016

ANV Cenerimant of Executional Property

CONCLUSIONS OF LAW

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

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

ORDER

It is ordered that Nabors Completion & Production Services Co. may use the cement blend listed in Findings of Fact No.1 for the cementing of surface and coal protection casing of oil and gas wells in the State as may be requested by oil and gas operators. The waiting time on the cement blend shall be 8 hours. The cement blend shall be mixed in strict accordance with the specifications for each blend and weight measurements made on-site to assure the cement slurries meet the minimum weight specifications. A sample shall be collected and, if after 8 hours the cement is not set up, additional time will be required. Nabors Completion & Production Services Co. shall keep a record of cement blend jobs in which the cement blend approved under this order is to be used and made available to the Office of Oil and Gas upon request.

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

IN THE NAME OF THE STATE OF WEST VIRGINIA

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

James Martin, Chief Office of Oil and Gas

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EQT Production

Hydraulic Fracturing Monitoring Plan

Pad ID: BIG360

Wetzel County, WV

4710303162

9/23/16

Page 1 of 2 SEP 2 8 2015 12/02/2016

Purpose

The purpose of this pad-specific Hydraulic Fracturing Monitoring Plan is to identify and notify conventional well operators near EQT hydraulic fracturing in Wetzel County, WV prior to hydraulic fracturing at the following EQT wells on BIG360 pad: 515108, 515109, 516110, 515111, 515112

Due to the apparent presence of unique geological conditions, the potential for communication between deep geologic zones exists in this area. This potential communication, via natural gas, water, or both, may occur between hydraulically fractured wells in the Marcellus formation (7,000 TVD) and existing conventional natural gas wells in the partially-depleted, relatively high permeability Alexander formation (approximately 5,400' TVD).

The plan is being implemented as an additional safety measure to be utilized in conjunction with existing best management practices and emergency action plans for the site. These additional measures include pre-notification of conventional well operators of the timing and location of the hydraulic fracturing, establishment of measures conventional well operators should implement, and assurance that the OOG is notified of the timeline, as well as any issues that may arise during fracturing.

1. Communications with Conventional Well Operators

EQT, using available data (WV Geological Survey, WVDEP website, and IHS data service), has identified all known conventional wells and well operators within 500 feet of this pad and the lateral sections. A map showing these wells along with a list of the wells and operators is included in **Attachment A**.

Upon approval of this plan, EQT will notify these operators, via letter, of the hydraulic fracturing schedule for these wells. A copy of this letter is included in **Attachment B**.

The letter provides recommendations to these conventional operators to 1) increase their monitoring of their wells during that time period, 2) ensure that their well head equipment is sound, and 3) provide immediate notification to EQT and the OOG in the event of any changes in their well conditions.

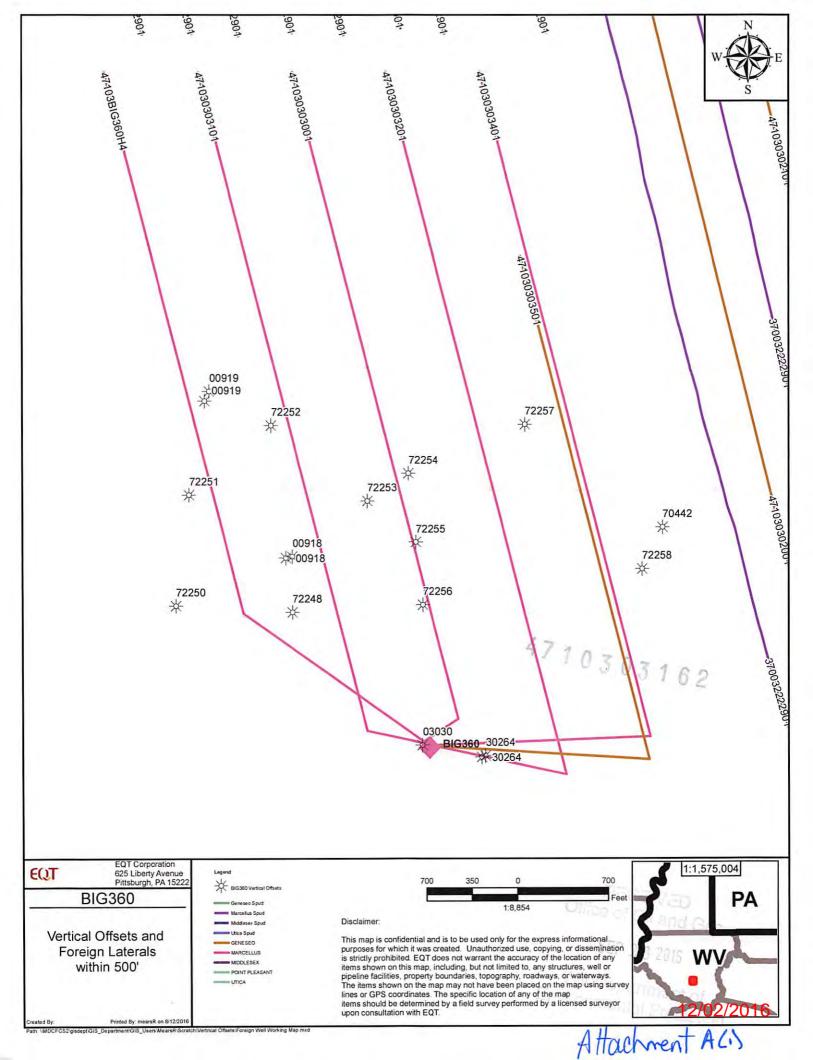
Specifically, the letter recommends that conventional well operators conduct the following activities during and after fracturing operations:

- 1. Inspect their surface equipment prior to fracturing to establish integrity and establish pre-frac well conditions
- 2. Observe wells closely during and after fracturing and monitor for abnormal increases in water, gas or pressure
- 3. Inspect or install master valves rated to 3,000 psi or other necessary equipment for wellhead integrity
- 4. Notify the OOG and EQT if any changes in water, gas production, pressure, or other anomalies are identified

2. Reporting

EQT will provide information relating to the hydraulic fracturing schedule, communication with conventional operators, and ongoing monitoring of the work upon request of OOG or immediately in the event of any noted abnormalities.

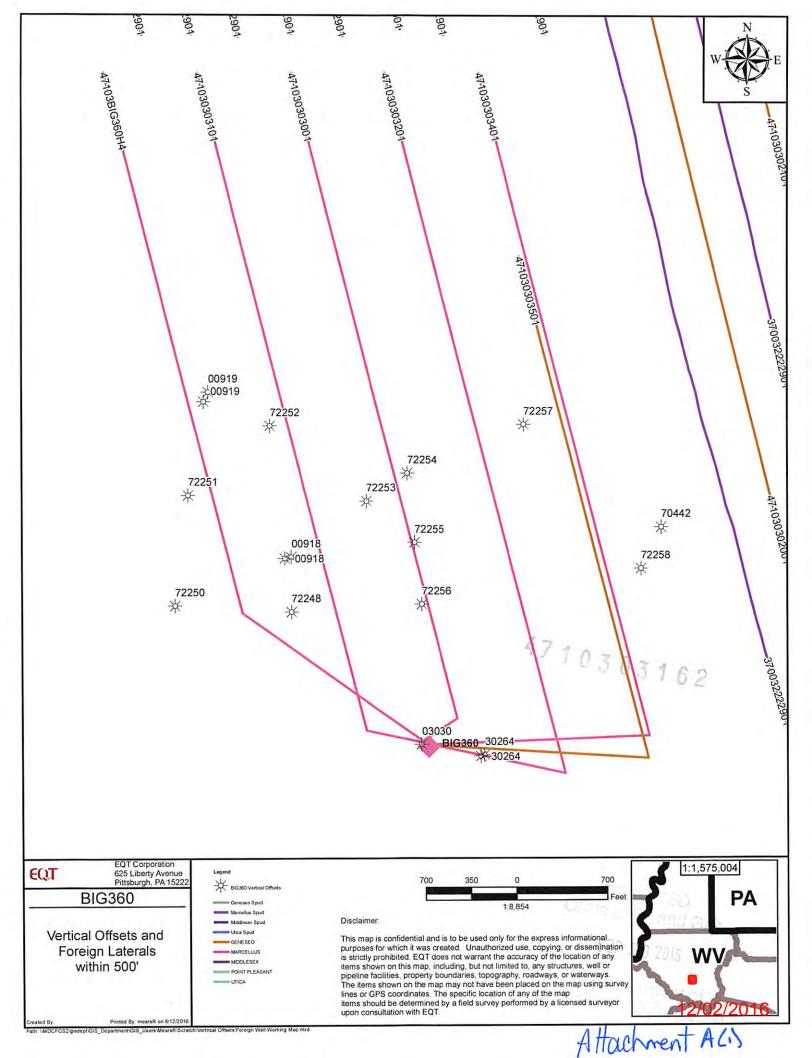
4710303162 SEP 50 2016 Page 2 of 2



| WellID | WellStatus | Comp Date | FmatTD | Permit | Operator | Longitude | Latitude | Target Fm | Datum Eleva | SS Depth | TD |
|------------|------------|------------|-----------|--------|------------------------|-----------|----------|-----------|-------------|----------|----------|
| 4710300918 | OIL | 1/25/1898 | | 00918 | PENNZOIL | -80.6206 | | | 870.00 | | |
| 4710300919 | OIL-P | 11/28/1898 | | 00919 | LUCAS WELL SERVICE | -80.6228 | 39.5400 | | 1102.00 | | |
| 4710330264 | OIL GS | | | 30264 | F S DEEM | -80.6153 | 39.5325 | | 967.00 | | |
| 4710300919 | GAS | | HAMPSHIRE | 00919 | PENNZOIL COMPANY | -80.6227 | 39.5402 | | 1103.00 | | 2957.00 |
| 4710370442 | PSEUDO | | | 70442 | PHILADELPHIA OIL | -80.6103 | 39.5373 | | | | |
| 4710300918 | OIL | | GORDON | 00918 | PENNZOIL COMPANY | -80.6204 | 39.5367 | | | | 2780.00 |
| 4710330264 | ABD-OW | | HAMPSHIRE | 30264 | DEEM F S | -80.6152 | 39.5325 | | 967.00 | | 2844.00 |
| 4710372248 | UNKWN | | | 72248 | UNKNOWN | -80.6204 | 39.5356 | | | | 22,7,752 |
| 4710372250 | UNKWN | | | 72250 | UNKNOWN | -80.6236 | 39.5357 | | | | |
| 4710372251 | UNKWN | | | 72251 | UNKNOWN | -80.6232 | 39.5380 | | | | |
| 4710372252 | UNKWN | | | 72252 | UNKNOWN | -80.6210 | 39.5395 | | | | |
| 4710372253 | UNKWN | | | 72253 | UNKNOWN | -80.6184 | 39.5379 | | | | |
| 4710372254 | UNKWN | | | 72254 | UNKNOWN | -80.6172 | 39.5385 | | | | |
| 4710372255 | UNKWN | | | 72255 | UNKNOWN | -80.6171 | 39.5370 | | | | |
| 4710372256 | UNKWN | | | 72256 | UNKNOWN | -80.6169 | 39.5357 | | | | |
| 4710372257 | UNKWN | | | 72257 | UNKNOWN | -80.6141 | 39.5395 | | | | |
| 4710372258 | UNKWN | | | 72258 | UNKNOWN | -80.6109 | 39.5364 | | | | |
| 4710303030 | PERMIT | | | 03030 | EQT PRODUCTION COMPANY | -80.6169 | 39.5328 | | 998.00 | | |

There is no Formation or Perforated information availble through JHS

77 10303162



| WellID | WellStatus | Comp Date | FmatTD | Permit | Operator | Longitude | Latitude | Target Fm | Datum Eleva | SS Depth | TD |
|------------|------------|------------|-----------|--------|------------------------|-----------|----------|-----------|-------------|----------|---------|
| 4710300918 | OIL | 1/25/1898 | | 00918 | PENNZOIL | -80.6206 | 39.5367 | | 870.00 | -1903.00 | 2773.00 |
| 4710300919 | OIL-P | 11/28/1898 | | 00919 | LUCAS WELL SERVICE | -80.6228 | 39.5400 | | 1102.00 | -1855.00 | 2957.00 |
| 4710330264 | OIL GS | | | 30264 | F S DEEM | -80.6153 | 39.5325 | | 967.00 | -1877.00 | 2844.00 |
| 4710300919 | GAS | | HAMPSHIRE | 00919 | PENNZOIL COMPANY | -80.6227 | 39.5402 | | 1103.00 | | 2957.00 |
| 4710370442 | PSEUDO | | | 70442 | PHILADELPHIA OIL | -80.6103 | 39.5373 | | | | |
| 4710300918 | OIL | | GORDON | 00918 | PENNZOIL COMPANY | -80.6204 | 39.5367 | | | | 2780.00 |
| 4710330264 | ABD-OW | | HAMPSHIRE | 30264 | DEEM F S | -80.6152 | 39.5325 | | 967.00 | | 2844.00 |
| 4710372248 | UNKWN | | | 72248 | UNKNOWN | -80.6204 | 39.5356 | | | | |
| 4710372250 | UNKWN | | | 72250 | UNKNOWN | -80.6236 | 39.5357 | | | | |
| 4710372251 | UNKWN | | | 72251 | UNKNOWN | -80.6232 | 39.5380 | | | | |
| 4710372252 | UNKWN | | | 72252 | UNKNOWN | -80.6210 | 39.5395 | | | | |
| 4710372253 | UNKWN | | | 72253 | UNKNOWN | -80.6184 | 39.5379 | | | | |
| 4710372254 | UNKWN | | | 72254 | UNKNOWN | -80.6172 | 39.5385 | | | | |
| 4710372255 | UNKWN | | | 72255 | UNKNOWN | -80.6171 | 39.5370 | | | | |
| 4710372256 | UNKWN | | | 72256 | UNKNOWN | -80.6169 | 39.5357 | | | | |
| 4710372257 | UNKWN | | | 72257 | UNKNOWN | -80.6141 | 39.5395 | | | | |
| 4710372258 | UNKWN | | | 72258 | UNKNOWN | -80.6109 | 39.5364 | | | | |
| 4710303030 | PERMIT | | | 03030 | EQT PRODUCTION COMPANY | -80.6169 | 39.5328 | | 998.00 | | |
| | | | | | | | | | | | |

There is no Formation or Perforated information availble through IHS



SEP \$ E 4016

Altachment A(2)

625 Liberty Ave, Suite 1700 Pittsburgh PA 15222 www.eqt.com

TEL: (412) 395-3305 FAX: (412) 395-2156

John Centofanti Corporate Director. Environmental Affairs



(date)

[Conventional Well Operator] [address] [state]

Wetzel County Hydraulic Fracturing Notice RE:

Dear Sir/Madam.

EQT has developed a Marcellus pad (Big 360 pad) located in Wetzel County, WV. As an owner or operator of conventional natural gas wells in this area, we are requesting your assistance in this matter.

Due to the apparent presence of unique geological conditions, the potential for communication between deep geologic zones exists in this area. This potential communication, via natural gas, water, or both, may occur between hydraulically fractured wells in the Marcellus formation (approximately 7,000' TVD) and existing conventional natural gas wells in the partially-depleted, relatively high permeability, Alexander formation (approximately 5,400' TVD).

EQT anticipates conducting hydraulic fracturing at the BIG 360 pad during the [first, second, third,fourth] quarter of [year]. We have identified conventional natural gas wells operated by your company within 500' (lateral distance) of our new/planned laterals. Plats for each well on this pad are attached.

We recommend that conventional well operators conduct the following activities before, during, and after fracturing operations:

- 1. Inspect surface equipment, prior to fracturing, to establish integrity and establish well conditions.
- 2. Observe wells closely during and after fracturing and monitor for abnormal increases in water, gas, or pressure.
- 3. Inspect or install master valves rated to 3,000 psi or other necessary equipment for wellhead
- 4. Notify the OOG and EQT if any changes in water, gas production, pressure, or other anomalies are identified.

Please feel free to contact me at 412-395-3305 with any questions or comments. You may also contact the West Virginia Office of Oil and Gas at 304-926-0440. 10303162

Sincerely. **EQT Production**

John Centofanti Corporate Director, Environmental Affairs

James Martin, WV Office of Oil and Gas cc:



| API | Number | 47 | - 103 | - |
|-----|--------|----|-------|---|
| | | | | |
| | | | | |

Operator's Well No. 515109

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

| PEOIDS/ COTTINGS DISP | OSAL & RECLAMATION PLAN |
|---|---|
| Operator Name EQT Production Company | OP Code 306686 |
| Watershed (HUC 10) Richwood Run | Quadrangle Big Run |
| Do you anticipate using more than 5,000 bbls of water to comp | lete the proposed well work? Yes No |
| Will a pit be used? Yes No No | |
| If so, please describe anticipated pit waste: Flowbac | |
| 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 Permi Reuse (at API Number Various | Number_0014, 8462, 4037 |
| Off Site Disposal (Supply form WW | 7-9 for disposal location) |
| | (-2916 |
| | |
| Will closed loop system be used? If so, describe: | em will remove drill callings from the drilling fluid. The drill callings are then prepared for transportation to an off-site disposal facility. |
| Drilling medium anticipated for this well (vertical and horizont | al)? Air, freshwater, oil based, etc. See Attached |
| -If oil based, what type? Synthetic, petroleum, etc. Sy | rnthetic Mud |
| Additives to be used in drilling medium? See Attached | |
| 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 O West Virginia solid waste facility. The notice shall be provided where it was properly disposed. | cas of any load of drill cuttings or associated waste rejected at any within 24 hours of rejection and the permittee shall also disclose |
| on August 1, 2005, by the Office of Oil and Gas of the West Vi provisions of the permit are enforceable by law. Violations o law or regulation can lead to enforcement action. I certify under penalty of law that I have personally application form and all attachments thereto and that base | conditions of the GENERAL WATER POLLUTION PERMIT issued reginia Department of Environmental Protection. I understand that the fany term or condition of the general permit and/or other applicable examined and am familiar with the information submitted on this d on my inquiry of those individuals immediately responsible for rue, accurate, and complete. I am aware that there are significant little of fine or imprisonment. Received Office of Oil & Gas |
| <i>O</i> 00 | |
| Subscribed and sworn before me this day of | Jept. , 20 16 |
| Yank lyn | Notary Pubec STATE OF WEST VIRGINIA |
| My commission expires 8-24-22 | NOTARY PUBLIC Pameia Sykes EQT Production 12/OPP Pat 2802 |
| | My Commission Expires Aug. 24, 20 Setestatessessessessessessessessessessessessess |

| Proposed Revegetation Tre | atment: Acres Disturbed 1 | 6.03 Prevegetation pl | H 6.3 |
|--|--|--|--|
| Lime 3 | Tons/acre or to correct | | |
| Fertilizer type Gr | | | |
| Fertilizer amount_ | 1/3 | lbs/acre | |
| Mulch 2 | | _Tons/acre | |
| | | Seed Mixtures | |
| T | emporary | Perma | nent |
| Seed Type KY-31 | lbs/acre 40 | Seed Type Orchard Grass | lbs/acre 15 |
| Alsike Clover | 5 | Alsike Clover | 5 |
| Annual Rye | 15 | | |
| acreage, of the land applicat | pit will be land applied, inc | application (unless engineered plans included lude dimensions (L x W x D) of the pit, and | ling this info have been dimensions (L x W), and area in |
| Maps(s) of road, location, pi provided). If water from the acreage, of the land applicat Photocopied section of invol | pit will be land applied, incline ion area, lved 7.5' topographic sheet. | l application (unless engineered plans include language) and lude dimensions (L x W x D) of the pit, and | dimensions (L x W), and area in |
| Maps(s) of road, location, pirovided). If water from the creage, of the land applicat thotocopied section of involutional lan Approved by: | pit will be land applied, incline ion area, lved 7.5' topographic sheet. | lude dimensions (L x W x D) of the pit, and | dimensions (L x W), and area in |
| Maps(s) of road, location, pirovided). If water from the creage, of the land applicat hotocopied section of involutional lan Approved by: | pit will be land applied, incline ion area, lved 7.5' topographic sheet. | lude dimensions (L x W x D) of the pit, and | dimensions (L x W), and area in |
| Maps(s) of road, location, pirovided). If water from the creage, of the land applicat thotocopied section of involutional lan Approved by: | pit will be land applied, incline ion area, lved 7.5' topographic sheet. | lude dimensions (L x W x D) of the pit, and | dimensions (L x W), and area in |
| Maps(s) of road, location, piperovided). If water from the creage, of the land applicate Photocopied section of involved Plan Approved by: | pit will be land applied, incline ion area, lved 7.5' topographic sheet. | lude dimensions (L x W x D) of the pit, and | dimensions (L x W), and area in |
| Maps(s) of road, location, pi provided). If water from the acreage, of the land applicat Photocopied section of invol | pit will be land applied, inc ion area, lved 7.5' topographic sheet. | lude dimensions (L x W x D) of the pit, and | dimensions (L x W), and area in |

WW-9 Attachment

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.

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.

4710305162

SEP 2 8 2013

EQT Production Water plan

Offsite disposals for Marcellus wells

CWS TRUCKING INC.

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

LAD LIQUID ASSETS DISPOSAL INC.

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

TRI COUNTY WASTE WATER MANAGEMENT, INC.

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

Waste Management - Meadowfill Landfill

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

Waste Management - Northwestern Landfill

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

BROAD STREET ENERGY LLC

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

47 10 5 6 5 1 TRIÂD ENERGY

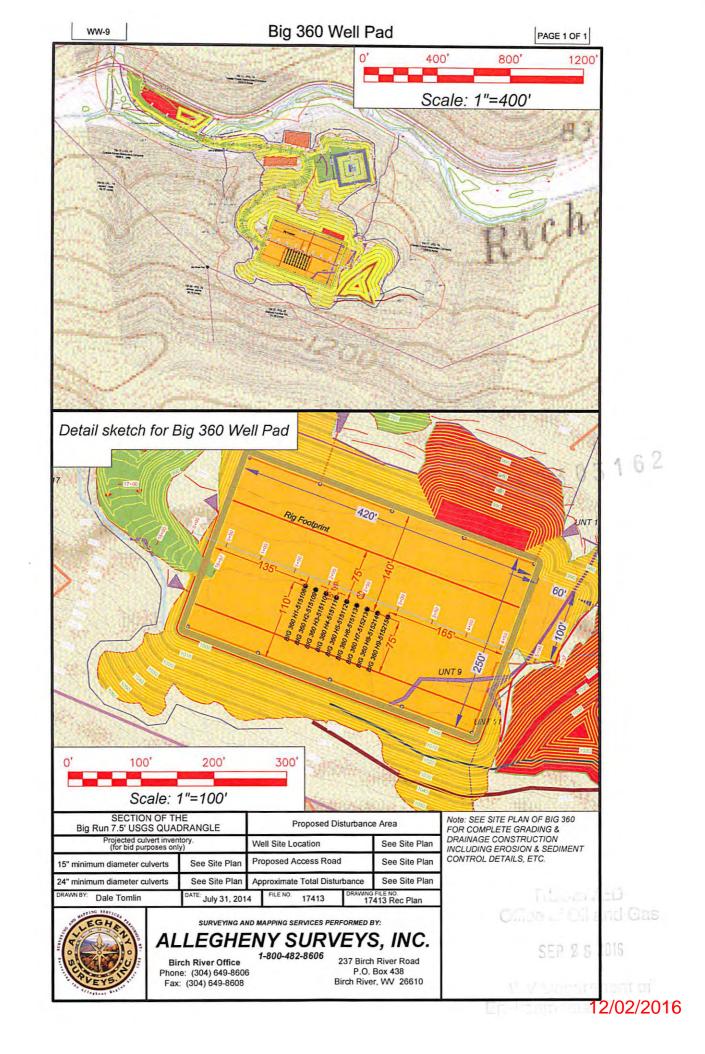
P.O. Box 430 Reno, OH 45773 740-516-6021 Well 740-374-2940 Reno Office Jennifer Nobel County/Jackson Township Permit # 4037

KING EXCAVATING CO.

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



SEP 2 5 2815





Site Specific Safety Plan

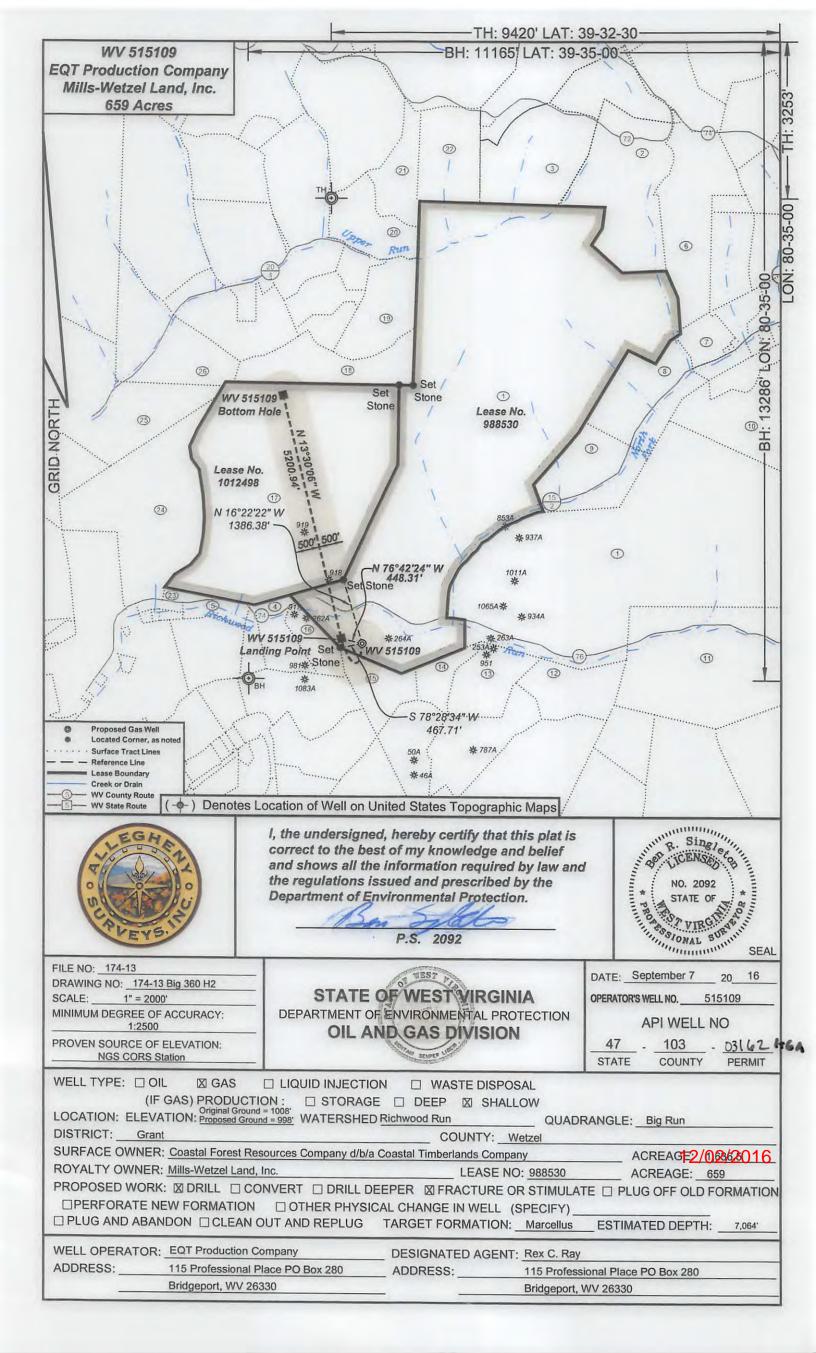
EQT BIG 360 Pad

<u>Jacksonburg</u>

Wetzel County, WV

| Date Prepared: | | |
|----------------|----------------|---|
| | Date Prepared: | WV Oil and Gas Ins Oil +Gc, Insperience Title |

OCT 07 2016



WV 515109 **EQT Production Company** Mills-Wetzel Land, Inc. 659 Acres

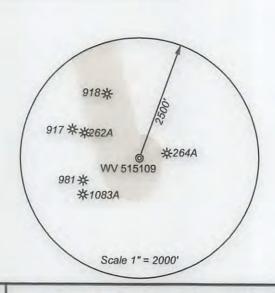
| Tract I.D. | Tax Map No. | Parcel No. | County | District | Surface Tract Owner | Acres |
|------------|-------------|------------|--------|----------|-------------------------------|---------|
| 1 | 17 | 14 | Wetzel | Grant | Coastal Forest Resources Co. | 1627.60 |
| 2 | 13 | 46 | Wetzel | Grant | Burl Henthorn Est, et al. | 99.00 |
| 3 | 12 | 47 | Wetzel | Grant | Coastal Forest Resources Co. | 87.50 |
| 4. | 22 | 12 | Wetzel | Grant | James Jones, et al. | 18.67 |
| 5 | 22 | 11 | Wetzel | Grant | Mary M. Snodgrass | 10.14 |
| 6 | 18 | 1 | Wetzel | Grant | McKinley E. Calvert Heirs | 100.00 |
| 7 | 18 | 14 | Wetzel | Grant | Frank M. & Frankie L. Dulaney | 9.55 |
| 8 | 18 | 13 | Wetzel | Grant | Ralph G. Dulaney | 87.50 |
| 9 | 18 | 17 | Wetzel | Grant | Alan D. & Diana L. Barr | 13.00 |
| 10 | 18 | 22 | Wetzel | Grant | Karen R. Dennison, et al. | 111.40 |
| 11 | 23 | 5 | Wetzel | Grant | Thomas E. Wyatt, et al. | 174.68 |
| 12 | 23 | 4 | Wetzel | Grant | Dallison Lumber Inc. | 36.10 |
| 13 | 23 | 2 | Wetzel | Grant | Billy D. Arnolds, Jr. | 38.80 |
| 14 | 23 | 1 | Wetzel | Grant | Billy D. Arnolds, Jr. | 16.50 |
| 15 | 22 | 27 | Wetzel | Grant | Dallison Lumber Inc. | 31.35 |
| 16 | 22 | 13 | Wetzel | Grant | James Jones, et al. | 16.75 |
| 17 | 17 | 16 | Wetzel | Grant | David A. Arnolds | 402.61 |
| 18 | 17 | 13 | Wetzel | Grant | David A. Arnolds | 62.25 |
| 19 | 17 | 12 | Wetzel | Grant | Rhonda K. Spencer | 57.20 |
| 20 | 17 | 4 | Wetzel | Grant | George W. Cain | 42.60 |
| 21 | 12 | 45 | Wetzel | Grant | Jimmy L & James C. Yoho | 44.10 |
| 22 | 12 | 46 | Wetzel | Grant | Jimmy L & James C. Yoho | 56.10 |
| 23 | 22 | 7 | Wetzel | Grant | Billy D. Arnolds | 5.20 |
| 24 | 17 | 16.1 | Wetzel | Grant | Coastal Forest Resources Co. | 137.39 |
| 25 | 16 | 40 | Wetzel | Grant | Coastal Forest Resources Co. | 412.80 |
| 26 | 17 | 6 | Wetzel | Grant | Georgia Ann Smith | 0.55 |

WV 515109 coordinates: NAD 27 N: 378,106.49 E: 1,684,996.84 NAD 27 Lat: 39.532748 Long: -80.616847 NAD 83 UTM N: 4,375,978.21 E: 532,943.40 WV 515109 Landing Point coordinates: NAD 27 N: 378,209.58 E: 1,684,560.54 NAD 27 Lat: 39.533016 Long: -80.618398 NAD 83UTM N: 4,376,007.39 E: 532,809.95 WV 515109 Bottom Hole coordinates: NAD 27 N: 383,266.77 E: 1,683,346.25 NAD 27 Lat: 39.546858 Long: -80.622927 NAD 83 UTM N: 4,377,541.93 E: 532,414.35

West Virginia Coordinate System of 1927 (North Zone) based upon Differential GPS Measurements. Plat orientation, corner and well ties are based upon the grid north meridian.

cation references are based upon the grid north meridian UTM coordinates are NAD83, Zone 17, Meters.

Big 360 H2, 515109 @ H3, 515110 H4, 515111 @ H5, 515112



Owner Dallison Lumber Inc. Acres 31.35

Lease No. 1012498 Owner Kenneth R. Mason, et al.

Well References 28" S 80°04'16" W Big 360 H2 398.68 @WV 515109 Ash Set 42°38'57" W 388.65 Stone 22" Poplar 1" = 500'



Proposed Gas Well Located Corner, as n

Surface Tract Lines Reference Line Lease Boundary

> 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 Department of Environmental Protection.

> > P.S. 2092

NO. 2092
STATE OF VIRCHMAN SERVICE SER SEAL

FILE NO: 174-13 DRAWING NO: 174-13 Big 360 H2 SCALE: _ 1" = 2000' MINIMUM DEGREE OF ACCURACY: 1:2500 PROVEN SOURCE OF ELEVATION:

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

DATE: September 7 20 OPERATOR'S WELL NO. 515109 API WELL NO - 103 - 03162 H

| NGS CORS Station | | - Sandan | | STATE | COUNTY | PERMIT |
|-----------------------------|------------------------------|----------------------------|----------------|-----------|-------------|----------|
| WELL TYPE: □ OIL | AS LIQUID INJECTIO | N WASTE DISPOS | SAL | | | |
| (IF GAS) PRO | DUCTION: STORAGE | DEEP SHALL | ow | | | |
| LOCATION: ELEVATION: Propos | sed Ground = 1008' WATERSHED | Richwood Run | QUADRA | NGLE: | Big Run | |
| DISTRICT: Grant | | COUNTY: W | etzel | | | |
| SURFACE OWNER: Coastal Fo | rest Resources Company d/b/a | Coastal Timberlands Compar | ny | A | CREAGE2/0 | 2/2016 |
| ROYALTY OWNER: Mills-Wetze | el Land, Inc. | LEASE NO | 988530 | A | CREAGE: 6 | 59 |
| PROPOSED WORK: IN DRILL | □ CONVERT □ DRILL DE | EPER FRACTURE OF | RSTIMULATE | □ PLU | G OFF OLD F | ORMATION |
| □PERFORATE NEW FORMA | ATION OTHER PHYSIC | CAL CHANGE IN WELL (S | SPECIFY) | | | |
| □ PLUG AND ABANDON □ CI | LEAN OUT AND REPLUG | TARGET FORMATION: | Marcellus | ESTIMA | TED DEPTH: | 7,064' |
| WELL OPERATOR: EQT Produ | action Company | DESIGNATED AGENT: | Rex C. Ray | | | |
| ADDRESS: 115 Profes | sional Place PO Box 280 | _ ADDRESS: | 115 Profession | nal Place | PO Box 280 | |
| Bridgeport, | WV 26330 | | Bridgeport, W\ | / 26330 | | |

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

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

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

Lease Name or

Number Grantor, Lessor, etc.

Grantee, Lessee, etc.

Royalty

Book/Page

See Attached

47₁₀₃₀₃₁₆₂

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: Victoria J Roark

Its: Permitting Supervisor

Page 1 of 3

| | | | | <u></u> | ak. i |
|----------------------------|--|---|----------------|---------------------------|------------------|
| Lease No. | Grantor, Lessor, etc. | Grantee, Lessee, etc. | Royalty | Book/Page 迎 | |
| | | | | 23 | |
| <u>988530</u> | Mills Wetzel Lands, Inc. | EQT Production Company | min pd 1/8th | O&G 126A/288 😂 | |
| 5tt | | | | | |
| Subsurface Easement 04- | - | | | S FT: | : |
| 22-27 | Daliison Lumber Inc. | EQT Production Company | N/A | O&G 115/903 | |
| <u> </u> | Daiison Euribei IIIC. | EQ1 1 Toddollor Company | IVA | Odd 115/903 | |
| 1012498 | Kenneth R. Mason, et al. (current royalty owner) | | min pd 1/8th | | 1 1 |
| 10.12.13 | Georgia H. Jones, et al. | H.S. Grayson | 11111 pa 17001 | DB 53/169 | |
| | H.S. Grayson (50% assigned) | South Penn Oil Company | | | |
| | South Penn Oil Company | South Penn Natural Gas Company | | DB 49/154 | |
| | South Penn Natural Gas Company | · • | | O&G 33A/455 | |
| | South Penn Oil Company | South Penn Oil Company | | DB 215/478 | |
| | Pennzoil Company | Pennzoil Company Pennzoil United Inc. | | Unrecorded Merger - See | attached |
| | Pennzoil United Inc. | Pennzoil Company | | DB 246/491 | • |
| | Pennzoil Company | Pennzoil Company Pennzoil Products Company | | Unrecorded Name Change | e - See attached |
| | Pennzoil Products Company | Pennzoil Exploration and Production Company | | DB 319/397 | |
| | Pennzoil Exploration and Production Company | Pennzenergy Exploration and Production Company LLC | | DB 363/384 | |
| | Pennzenergy Exploration and Production Company LLC | Devon Energy Production Company L.P. | | CB 12/178 | |
| | Devon Energy Production Company L.P. | East Resources, Inc. | | CB 12/278 | |
| | East Resources, Inc. | HG Energy, LLC | | CB 370/580 | |
| | HG Energy, LLC | American Energy - Marcellus, LLC | | LB 118A/253 DB 153/238 | |
| | American Energy - Marcellus, LLC | Ascent Resources - Marcellus, LLC | | MB 114/619 | |
| | Ascent Resources - Marcellus, LLC | EQT Production Company | | | |
| | Ascent Hesotices - Walterius, LLO | EQT Floddsuon Company | | O&G 166A/663 | |
| | Georgia H. Jones, et al. | H.S. Grayson | | DB 53/169 | |
| | H.S. Grayson (25% assigned) | Woodland Oil Company | | DB 53/257 | |
| | Woodland Oil Company | South Penn Oil Company | | DB 53/259 | |
| | South Penn Oil Company | Woodland Oil Company South Penn Oil Company Pennzoil Company Pennzoil United Inc. | | Unrecorded Marger - See a | attached |
| | Pennzoil Company | Pennzoil United Inc. | | DB 246/491 | |
| | Pennzoil United Inc. | Pennzoil Company | | Unrecorded Name - Chang | e See attached |
| | Pennzoil Company | Pennzoil Products Company | | DB 319/397 | 2 |
| | Pennzoil Products Company | Pennzoil Exploration and Production Company | | DB 363/384 | |
| | Pennzoil Exploration and Production Company | Pennzenergy Exploration and Production Company LLC | | CB 12/178 | |

| Lease No. | Grantor, Lessor, etc. | Grantee, Lessee, etc. | Royalty | Book/Page |
|---------------|--|--|---------|---------------------------|
| 1012498 con't | Pennzenergy Exploration and Production Company LLC | Devon Energy Production Company L.P. | | CB 12/278 |
| | Devon Energy Production Company L.P. | East Resources, Inc. | | CB 370/580 |
| | East Resources, Inc. | HG Energy, LLC | | LB 118A/253 |
| | HG Energy, LLC | American Energy - Marcellus, LLC | | DB 153/238 |
| | American Energy - Marcellus, LLC | Ascent Resources - Marcellus, LLC | | MB 1.14/619 |
| | Ascent Resources - Marcellus, LLC | EQT Production Company | | O&G 166A/663 ² |
| | Georgia H. Jones, et al. | H.S. Grayson | | DB 53/169 |
| | H.S. Grayson (25% assigned) | W. H. Hearne | | DB 48/86 & 49/18 |
| | W. H. Hearne | Pennzoil Products Company | | LB 71A/584 |
| | Pennzoil Products Company | Pennzoil Exploration and Production Company | | DB 363/384 |
| | Pennzoil Exploration and Production Company | Pennzenergy Exploration and Production Company LLC | | CB 12/178 |
| | Pennzenergy Exploration and Production Company LLC | Devon Energy Production Company L.P. | | CB 12/278 |
| | Devon Energy Production Company L.P. | East Resources, Inc. | | CB 370/580 |
| | East Resources, Inc. | HG Energy, LLC | | LB 118A/253 |
| | HG Energy, LLC | American Energy - Marcelius, LLC | | DB 153/238 |
| | American Energy - Marcellus, LLC | Ascent Resources - Marcellus, LLC | | MB 114/619 |
| | Ascent Resources - Marcellus, LLC | EQT Production Company | | O&G 166A/663 |

47:0305702

Carol & Hausht
WETZEL County 11:22:00 AM
Instrument No 192162
Date Recorded 12/07/2015
Document Type R/W
Pages Recorded 3
Book-Page 115-903
Recording Fee \$5.00

MEMORANDUM OF Recording Fee \$5.00 SUBSURFACE RIGHT-OF-WAY AND EASEMENT AGREEMENT Firster Tax 488.00 Additional \$26.00

County Clerk please also index under the following: Shiben Estates Inc.

1. NAME AND ADDRESS OF GRANTOR:

Dallison Lumber Inc. P.O. Box 159 Jacksonburg, WV 26377

2. NAME AND ADDRESS OF GRANTEE:

EQT Production Company 625 Liberty Avenue Suite 1700 Pittsburgh, PA 15222 4710305162

- 3. SUBSURFACE RIGHT-OF-WAY AND EASEMENT AGREEMENT ("Agreement") dated the 22nd day of October, 2015, was entered into for good and valuable consideration by and between Dallison Lumber Inc. ("Grantor", whether one or more) and EQT Production Company ("Grantee"). Upon completion of any wellbore within the subsurface area underlying the Property (as defined in Section 4), this subsurface easement in the area of the wellbore and the one hundred (100') feet on each side of the wellbore that parallels it shall become an exclusive Right-of-Way and Easement in that area. The final wellbore locations are as described in a final, as-built map(s) to be filed as a part of an affidavit in the aforesaid Clerk's Office following the completion of the planned well(s) located on Grantee's BIG360 well pad. If an as-built map is not available for a wellbore within the subsurface area underlying the Property, any third-party with the right to operate within such area may contact Grantee's land department for a copy of such as-built map. Grantee shall provide notice of additional wellbores located within the subsurface area underlying the Property by filing an amendment, affidavit or other appropriate document.
- 4. <u>DESCRIPTION OF PREMISES</u>: That certain tract or parcel of land containing 31.35 acres, more or less, located in Grant District in Wetzel County, West Virginia, being the same lands conveyed to Grantor by Deed dated the 24th day of January, 1989, of record in the Office of the Clerk of the County Commission of Wetzel County, West Virginia in Deed Book 330, at Page 577 ("the Property").
- TERM: The Agreement shall run with the land and shall remain in full force and effect until released and relinquished by the Grantee back to the Grantor, in writing.

(REMAINDER OF PAGE LEFT BLANK INTENTIONALLY)

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SEP 2 8 2015

VV Department of

IN WITNESS WHEREOF, the parties have signed their names hereto as of the date of the Agreement referenced in Section 3 above.

GRANTOR:

Dallison Lumber Inc.

GRANTEE:

EQT Production Company

BWBIL

By: Ed Dallison Its: President By. John W. Damato Its: Attorney-In-Fact

STATE OF WEST VIRGINIA

COUNTY OF WETZEL

I, BRYSON J. ARP, a Notary Public, in and for said State and County, do hereby certify that Ed Dallison, personally known to be the same persons whose name is subscribed to the foregoing instrument and the President of Dallison Lumber Inc., appeared before me this day in person in the State and County aforesaid, and acknowledged and delivered the said instrument to be his free act and deed for uses and purposes therein set forth.

Given under my hand this day of October, 2015.

My Commission expires: JAJ. 1,2021

OFFICIAL SEAL
COMMISSIONER FOR WEST VIRGINIA
Bryson J. Karp
Weston, WV
My Commission Expires January 1, 2021

Notary Public

STATE OF WEST VIRGINIA

COUNTY OF HARRISON

I, Color County, do hereby certify that John W. Damato, personally known to be the same person whose name is subscribed to the foregoing instrument and the Attorney-In-Fact of EQT Production Company, appeared before me this day in person in the State and County aforesaid, and acknowledged and delivered the said instrument to be his free act and deed for uses and purposes therein set forth on behalf of said company.

Given under my hand this day of october, 2015

My Commission expires: May 16, 2024

OFFICIAL SEAL
Notary Public, State of West Virginia
KATELYN L USTON
1308 Second Drive
Fairmoint, WV 28554
My dommission expires May 16, 2024

Notary/Public

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Declaration of Consideration of Value

| The Grantee hereby declares that the consideration being paid to Grantor for the transfer of real estate is \$ |
|--|
| Given under my hand this 4th day of Dr (1811) 1. 205 |
| A RUBI |
| John W. Damato Attorney-In-Fact |

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SEP 2 8 2016

E Table at Fig. 12/02/2016



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

Todd Klaner Manager, Permitting 4710303162 tklaner@eqt.com

September 22, 2016

WV DEP Reviewer

RE: **EQT Production Company**

PAD ID - BIG360 Well# - 515109 **Wetzel County**

Dear Reviewer,

This well indicated by this permit application contains a Subsurface Easement Agreement for nonproductive portions of the well bore. Attached is a Memorandum of Subsurface Use Agreement which gives EQT the right to drill below the surface of the tracts 22-27, shown on the well plat.

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

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

Regards,

Todd Klaner

Manager, Permitting

EQT Production Company

12/02/2016

21

ARTICLES OF MERGER

OF ZAPATA PETROLEUM CORPORATION

STETCO PETROLEUM CORPORATION

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 Aisy 5,1913, P. L. 361, and amendments thereto, providing for the merger and consultational corporations, SOUTH PENN OIL COMPANY, a Pennsylvania corporation, ZAPATA PETROLEUM CORPORATION, a Delaware corporation, hereby certify under their respective corporate scala:

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

2. That the surviving exportation is South Penn Oil Company, that the name of the surviving company and that the location of its segistered office is Drake Building, 100 Dimcomb Sirect, Oil City, Pennsylvanio.

3. That a special meeting of sharcholders of South Pein Oil Company to take action upon the proposed merger was held at 10:00 a clock A.M. on July 2, 1963, at the registered office of said corporation, Drake Building, 106 Duncomb Street, Oil City, Pennsylvania; that written molice, 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 908 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 confident stock of the par value of \$12.50 each, of which 1,589,750 shares were outstainting and were entitled to be voted at the meeting and 112,850 shares were with the treasury of said corporation and were not entitled to be voted at the meeting; and that at said meeting and joint plan of merger was adopted and dipproved by the affirmative vote of the holders of the continuous stock, there having been voted against the same 2.4, 6.8.0. shares of common stock.

5. That the Joint Plan and Agreement of Merger Was duly milliorized, adopted and approved by Papara Petroleum Corporation and Stetco Petroleum Corporation in accordance with the laws of the State of Delaware, the jurisiletion in which they were formed.

6. That, as provided in Section 5 of said joint plan of thereor, the Arilles of Incorporation of Smills Penn Oil Company, as herefolore amended, shall be amended and restained in their entirety by revising same to read in full as set forth in Exhibit A to said foint plan of merger.

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Department of

Henceforth the "Articles" as defined in Article 1 of the Business Corporation Law of the Commonwealth of Pennsylvania shall not include any prior documents.

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

| Name | Address |
|------------------------|---|
| D. D. Boynird | P. O. Box 2500 Tulsa, Oklahoma |
| Edward P. Böyle | 205 Maple Avenue Oli City, Pennsylvania |
| George L. Coleman | 1137 West Jackson Houlevard Chicago, Illinois |
| James G. S. Gammell | "Innerwick" fillersly Road Edinburgh 12, Scotland |
| R. B. Glipatrick, Jr. | Mellon National Bank and Trust Company Fifth Avenue Pittsburgh 19, Pennsylvinia |
| R.W. Grunert | Drake Hilldlig 106 Dinicolals Street Oll City, Pennsylvania |
| L. F. Johnson | 240514 V. 10th |
| J. Hligh Liedtke | Room 410, Four Galeway Center Pittsburgh, Pennsylvania |
| Willam C. Lledtke, Jr. | Pirst National Bank Building |
| T. I., McDowell | McDowell, McDowell, Wick & Daly 50 Hoylston Street Bradford, Pennsylvania |
| John B. Attebell | 12 South Kentall Avenue Bradford, Pennsylvania |
| Themas O'D. Murray | Room 110, Four Gateway Center Pittsburgh, Pennsylvania |
| A. J. Saxe | Drike Building 20 Parkway Lane Bradford, Pennsylvania |
| Charles I., Suhr | P. O. Box (Ol Oll City, Pentinglyania |
| J. Z. VanThie | 50 Darliour Street Bradford, Pennsylvania |
| | |

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*

W. S. Zehring

115 Wyllis . Oll City, Pennsylvania

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3.1.63.18

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

SOUTH PENH OIL COMPANY

Ailest:

J. H. Youke

Secretary

Altest:

W. M. BRUMLEY, JR.

Secretary

Aitest:

MAXINE MITCHELL

Sccretary

By J. Hugh Liebtke

Precident

(Corpennie Seal)

ZAPATA PETROLEUM CORPORATION

By W. A. Hoven

President (Orrpounte Sent)

STETCO PETROLEUM CORPORATION

By WHALAM C. LIROTER, JR.

Persident

(Conferente Sen1)

4 10303162

12/02/2016

| . / Part I to the state of the |
|--|
| CARD TO BE REPLACED ONLY BY FILING CLERK |
| PENNZOIL UNITED, INC. |
| HamePENNZOIL UNITED; INC. |
| foreign Corporation Delaware |
| 10 Southwest Tower |
| Houston, Texas |
| April 1, 1968 |
| Almined. April 1, 1968 |
| ROLL 10 |
| AMENDMENT: Certificate of Incorporation; filed September 27, 1968; Roll 15. AMENIMENT: Certificate of Incorporation; file February 11, 1969; Roll 20. |
| AMENIMENT: Certificate of incorporation; file |
| AMENIMENT: Certificate of Incorporation; filed May 19, 1969; Roll 23. |
| MERGER) Elk Refining Company, a.W. Va. corp., merged with and into Pennzoil United, Inc., the survivor, filed December 31, 1969, |
| MERGER: Wolf's Head Oil Refining Company; Incorporated, a Dela corp., and Elk Refining Co. (See above), merged with and into Pennzoll United; Inc., the survivor; filed January 20, 1970; Roll 31. |
| (OVER) Column 1 5 5 5 4 |
| Column 2 5 913 |
| 10 0mm 3 1 1 3 6 |
| Column 4 4 6 3 |
| the training of the same of th |
| |

AMENDMENT: Change of Name INC., to PENNZOIL COMPANY: ROLL 60. filed June 6, 0303162 $\frac{M_i}{2}$ Cilica r " Oil and Gas

SEP 2 8 2016

VAVANO SATO



September 22, 2016

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

Re: BIG360 well pad, well number (515109) Grant District, Wetzel County

Dear Mr. Martin,

EQT Production Company is submitting an application for a new well work permit for the above well number. 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.

Sincerely,

Vicki Roark

Permitting Supervisor-WV

4770303162 WW1Gas

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

| | ce Certification: 7'65-19 | API No. 47- 103 | |
|--|---|--|---|
| | | Operator's Well | No. 515109 |
| | | Well Pad Name: | BIG360 |
| Notice has | | | |
| | | e § 22-6A, the Operator has provided the required | parties with the Notice Forms listed |
| | tract of land as follows: | family that are an arranged to the control of the c | |
| State: | w | UTM NAD 83 Easting: 53294 | |
| County: | Wetzel | Northing: 43/59 | 78.21 |
| District: | Grant | Public Road Access: RT 76 | |
| Quadrangle: | Big Run | Generally used farm name: Coastal | Forest Resources Company d/b/a Coastal Timberlands Company |
| Watershed: | Richwood Run | | |
| information r of giving the requirements Virginia Cod | equired by subsections (b) and (c), surface owner notice of entry to of subsection (b), section sixteen | ribed in subdivisions (1), (2) and (4), subsection section sixteen of this article; (ii) that the requirer survey pursuant to subsection (a), section ten of of this article were waived in writing by the sult tender proof of and certify to the secretary that thant. | nent was deemed satisfied as a result this article six-a; or (iii) the notice rface owner; and Pursuant to West |
| that the Ope | West Virginia Code § 22-6A, the Corator has properly served the requience. ECK ALL THAT APPLY | Operator has attached proof to this Notice Certificated parties with the following: | OOG OFFICE USE ONLY |
| П | THE OF SPICE HE A CONTROL | | |
| □ 1. NO | FICE OF SEISMIC ACTIVITY C | or NOTICE NOT REQUIRED BECAUSE N SEISMIC ACTIVITY WAS CONDUCTED | O RECEIVED/ NOT REQUIRED |
| | | 점점 그렇게 하는 사람들이 얼마나 살아왔다. 그는 그 아이들은 아이들은 그를 하는 것이 되었다. | NOT REQUIRED |
| ☐ 2. NO | | SEISMIC ACTIVITY WAS CONDUCTED RVEY or NO PLAT SURVEY WAS CONDU | NOT REQUIRED |
| ☐ 2. NO | TICE OF ENTRY FOR PLAT SUF | SEISMIC ACTIVITY WAS CONDUCTED RVEY or NO PLAT SURVEY WAS CONDU NOTICE NOT REQUIRED BECAUSE NOTICE OF ENTRY FOR PLAT SURVEY | NOT REQUIRED RECEIVED RECEIVED/ NOT REQUIRED |
| □ 2. NO ■ 3. NO | TICE OF ENTRY FOR PLAT SUF | SEISMIC ACTIVITY WAS CONDUCTED RVEY or NO PLAT SURVEY WAS CONDU TO NOTICE NOT REQUIRED BECAUSE NOTICE OF ENTRY FOR PLAT SURVEY WAS CONDUCTED or WRITTEN WAIVER BY SURFACE ON (PLEASE ATTACH) | NOT REQUIRED CTED RECEIVED RECEIVED/ NOT REQUIRED VNER RECEIVED |
| □ 2. NO ■ 3. NO ■ 4. NO | TICE OF ENTRY FOR PLAT SUF | SEISMIC ACTIVITY WAS CONDUCTED RVEY or NO PLAT SURVEY WAS CONDUCTED TO NOTICE NOT REQUIRED BECAUSE NOTICE OF ENTRY FOR PLAT SURVEY WAS CONDUCTED or WRITTEN WAIVER BY SURFACE OF (PLEASE ATTACH) | NOT REQUIRED CTED RECEIVED RECEIVED/ NOT REQUIRED VNER RECEIVED |

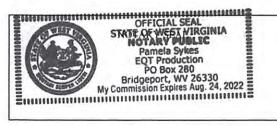
Required Attachments:

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

Well Operator: EQT Production Company Address: 115 Professional Place PO Box 280 By: Victoria J Roark Bridgeport WV 26330 Its: Facsimile: Permitting Supervisor 304-848-0041 Telephone: Email: 304-848-0076 vroark@eqt.com



Subscribed and sworn before me this

Notary Public

My Commission Expires

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.

STATE OF PICTAL SEAL

STATE OF WEST VIRGINIA

MOTARY PUBLIC

BOTARY PUBLIC

BOTAR

WW-6A (9-13) API NO. 47- 103 OPERATOR WELL NO. 515109
Well Pad Name: BIG360

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

| Noti | ice Time Requiremen | t: notice shall be provided n | o later than the filing date of permit application. |
|--|--|---|--|
| | e of Notice: 9:2316 ice of: | Date Permit Application I | Filed: 9-23-16 |
| V | PERMIT FOR ANY | CERTIFICATI | E OF APPROVAL FOR THE |
| ш | WELL WORK | | TION OF AN IMPOUNDMENT OR PIT |
| | WELL WORK | CONSTRUCT | ION OF AN IMPOUNDMENT OR FIT |
| Deli | very method pursuan | t to West Virginia Code § | 22-6A-10(b) |
| | PERSONAL [| REGISTERED | METHOD OF DELIVERY THAT REQUIRES A |
| | SERVICE | MAIL | RECEIPT OR SIGNATURE CONFIRMATION |
| sedin the soil a descoper more well important provides the company of the control | ment control plan requireurface of the tract on wind gas leasehold being ribed in the erosion and attor or lessee, in the every coal seams; (4) The owner, if the surface traction and work, if the surface traction and the erosion and the erosion at the erosion of this section (b) of this section of the sheriff requires ision of this article to the R. § 35-8-5.7.a require | red by section seven of this are hich the well is or is proposed developed by the proposed we sediment control plan submittent the tract of land on which where of record of the surface et is to be used for the placement is to be used for the placement water supply source located where the surface water supply source located where the surface is to take place. (c)(1) If more in hold interests in the lands, the dot to be maintained pursuant the contrary, notice to a lien hores, in part, that the operator s | a receipt or signature confirmation, copies of the application, the erosion and ticle, and the well plat to each of the following persons: (1) The owners of record of to be located; (2) The owners of record of the surface tract or tracts overlying the ell work, if the surface tract is to be used for roads or other land disturbance as ted pursuant to subsection (c), section seven of this article; (3) The coal owner, the well proposed to be drilled is located [sic] is known to be underlain by one or tract or tracts overlying the oil and gas leasehold being developed by the proposed tent, construction, enlargement, alteration, repair, removal or abandonment of any ricle; (5) Any surface owner or water purveyor who is known to the applicant to within one thousand five hundred feet of the center of the well pad which is used to himals; and (6) The operator of any natural gas storage field within which the e than three tenants in common or other co-owners of interests described in the applicant may serve the documents required upon the person described in the to section eight, article one, chapter eleven-a of this code. (2) Notwithstanding any older is not notice to a landowner, unless the lien holder is the landowner. W. Va. shall also provide the Well Site Safety Plan ("WSSP") to the surface owner and any ter testing as provided in section 15 of this rule. |
| ☑ A | application Notice | WSSP Notice ☐ E&S Pla | an Notice Well Plat Notice is hereby provided to: |
| | JRFACE OWNER(s) | | ☐ COAL OWNER OR LESSEE |
| | ne: See Attached | | Name: See Attached |
| Add | ress: | | Address: |
| | | | - COAL OPERATOR |
| Nan | | | COAL OPERATOR Name: |
| Add | ress: | | |
| ZISI | IRFACE OWNER(s) | (Road and/or Other Disturba | Address: |
| | or Con Attroport | road and/or other bistaroe | SURFACE OWNER OF WATER WELL |
| | | | AND/OR WATER PURVEYOR(s) |
| | | | Name: |
| Nan | | | Address: |
| Add | ress: | | |
| | | | ☐ OPERATOR OF ANY NATURAL GAS STORAGE FIELD |
| _ | | (Impoundments or Pits) | Name:Address: |
| | ne: See Attached | | Address: |
| Add | ress: | | *Please attach additional forms if necessary |

Surface Owners:

Coastal Forest Resources Company d/b/a Coastal Timberlands Company PO Box 709 Buckhannon WV 26201

4710303162

SEP 2 8 2016

Surface Owners (road or other disturbance):

Coastal Forest Resources Company d/b/a Coastal Timberlands Company PO Box 709 Buckhannon WV 26201

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Surface Owners (Pits or impoundments):

Coastal Forest Resources Company d/b/a Coastal Timberlands Company PO Box 709 Buckhannon WV 26201

4710303162

SEP 2 0 2015

Coal Owner

CNX Land Co., LLC Engineering Operations Support Dept. Coal 1000 Consol Energy Dr. Canonsburg, PA 15317-6506 Attn: Casey Saunders

Mills Wetzel Lands Inc. c/o Michael G Beemer Suite 2400 222 N LaSalle Street Chicago IL 60601

CBM Owner

CNX Gas Company LLC Engineering Operations Support Dept. Coal 1000 Consol Energy Dr. Canonsburg, PA 15317-6506 Attn: Casey Saunders

WW-6A (8-13)

API NO. 47- 103

OPERATOR WELL NO. 515109

Well Pad Name: BIG360

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.

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 WW-6A (8-13)

API NO. 47-103

OPERATOR WELL NO. 515109

Well Pad Name: BIG360

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

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:

drilling horizontal wells, including reasonable means of mitigating such factors, if necessary.

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. 4710505105

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.

WW-6A (8-13)

API NO. 47- 103

OPERATOR WELL NO. 515109

Well Pad Name: BIG360

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.

A710303162

WW-6A (8-13)

API NO. 47-103 OPERATOR WELL NO. 515109
Well Pad Name: BIG360

Notice is hereby given by:

Well Operator: EQT Production Company

Telephone: 304-848-0076

Email: vroark@eqt.com

Address: 115 Professional Place PO 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.

OFFICIAL SEAL
STATE OF WEST VIRGINIA
NOTARY PUBLIC
Pamela Sykes
EQT Production
PO Box 280
Bridgeport, WV 26330
My Commission Expires Aug. 24, 2022

Subscribed and worn before me this 22 day of

ay of hot,

Notary Public

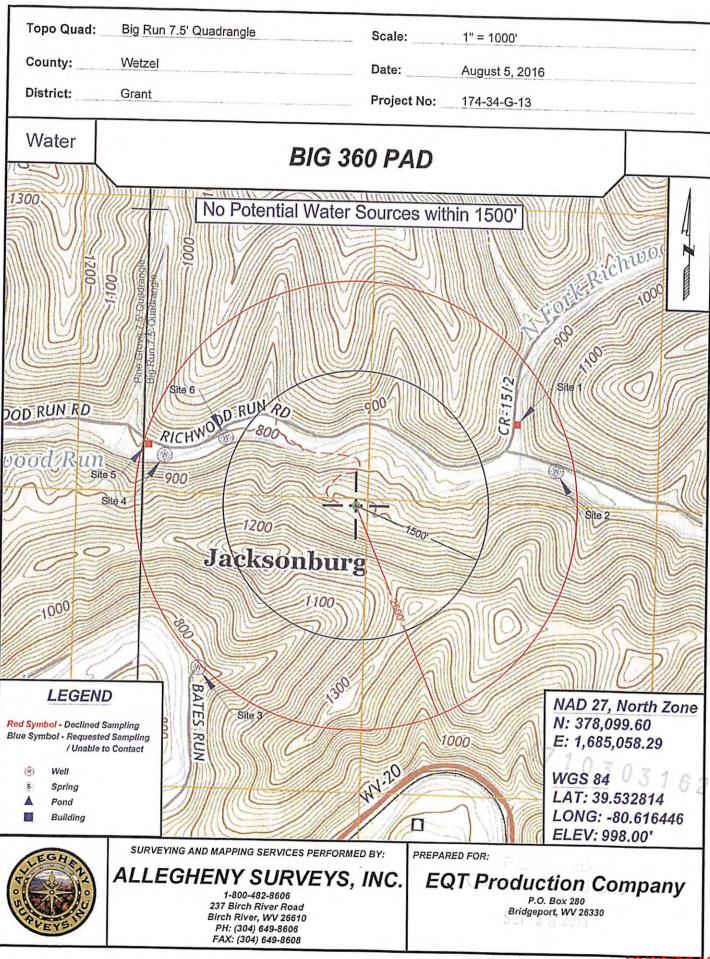
2016

My Commission Expires

8-24-22

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WW-6A4 (1/12)

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.

| Date of Notice | Requirement: Notice shall be provided at les 99/08/2016 Date Permi | ast TEN (10) days prior to filing a t Application Filed: 09/18/2016 | permit application. |
|--|--|--|---|
| Delivery meth | od pursuant to West Virginia Code § 22- | 6A-16(b) | |
| ☐ HAND | ■ CERTIFIED MAIL | | |
| DELIVER | RY RETURN RECEIPT REQUI | ESTED | |
| receipt requested receipt gand a horize of this subsection may and if available | Va. Code § 22-6A-16(b), at least ten days ped or hand delivery, give the surface owner contal well: <i>Provided</i> , That notice given pu on as of the date the notice was provided to be waived in writing by the surface owner, facsimile number and electronic mail addreby provided to the SURFACE OWN. | notice of its intent to enter upon the result to subsection (a), section to the surface owner: <i>Provided, how.</i> The notice, if required, shall includes of the operator and the operator | ne surface owner's land for the purpose of en of this article satisfies the requirements vever, That the notice requirements of this ude the name, address, telephone number, |
| | st Resources Company d/b/a Coastal Timberlands Company | Name: | |
| Address: P. O. E | 3ox 709 | Address: | |
| Buckha | annon, WV 26201 | 1 | |
| State: | w | le § 22-6A-16(b), notice is hereby given that the undersigned well operator has e purpose of drilling a horizontal well on the tract of land as follows: UTM NAD 83 Easting: 532943.40 Northing: 4375978.21 | |
| | Wetzel | | |
| District: | Grant | Public Road Access: | 4375978.21 RT 76 Coastal Forest Resources Company d/b/a Coastal Timberlands Company |
| District: Quadrangle: | | | RT 76 |
| District: Quadrangle: Watershed: This Notice S Pursuant to W facsimile numl related to horize | Grant Big Run | Public Road Access: Generally used farm name: tice shall include the name, addrerator and the operator's authorize ecretary, at the WV Department of | RT 76 Coastal Forest Resources Company d/b/a Coastal Timberlands Company ess, telephone number, and if available, ed representative. Additional information f Environmental Protection headquarters, |
| District: Quadrangle: Watershed: This Notice S Pursuant to W facsimile numberelated to horizelocated at 601: Notice is here | Grant Big Run Richwood Run Shall Include: Lest Virginia Code § 22-6A-16(b), this not ber and electronic mail address of the oper contal drilling may be obtained from the Secondary Street, SE, Charleston, WV 25304 (304) Seby given by: | Public Road Access: Generally used farm name: tice shall include the name, addrerator and the operator's authorize ecretary, at the WV Department of 1-926-0450) or by visiting www.de | RT 76 Coastal Forest Resources Company d/b/a Coastal Timberlands Company ess, telephone number, and if available, ed representative. Additional information f Environmental Protection headquarters, |
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| District: Quadrangle: Watershed: This Notice S Pursuant to W facsimile numberelated to horiz located at 601: Notice is here Well Operator: Address: Bridgeport WV 263 | Grant Big Run Richwood Run Shall Include: Lest Virginia Code § 22-6A-16(b), this not ber and electronic mail address of the oper contal drilling may be obtained from the Secontal drilling may be o | Public Road Access: Generally used farm name: tice shall include the name, addressor and the operator's authorize ecretary, at the WV Department of 1-926-0450) or by visiting www.de Authorized Representative: Address: Bridgeport WV 26330 | RT 76 Coastal Forest Resources Company d/b/a Coastal Timberlands Company ress, telephone number, and if available, and representative. Additional information f Environmental Protection headquarters, p.wv.gov/oil-and-gas/pages/default.aspx. Victoria Roark 115 Professional Place PO Box 280 |
| District: Quadrangle: Watershed: This Notice S Pursuant to W facsimile numberelated to horiz located at 601: Notice is here Well Operator: Address: Bridgeport WV 263 Felephone: | Grant Big Run Richwood Run Shall Include: Sest Virginia Code § 22-6A-16(b), this not ber and electronic mail address of the oper contal drilling may be obtained from the Set Street, SE, Charleston, WV 25304 (304) Bey given by: EQT Production Company 115 Professional Place PO Box 280 304-848-0076 | Public Road Access: Generally used farm name: tice shall include the name, addressor and the operator's authorized recretary, at the WV Department of 1-926-0450) or by visiting www.de Authorized Representative: Address: Bridgeport WV 26330 Telephone: | RT 76 Coastal Forest Resources Company d/b/a Coastal Timberlands Company ess, telephone number, and if available, ed representative. Additional information f Environmental Protection headquarters, ep.wv.gov/oil-and-gas/pages/default.aspx. Victoria Roark 115 Professional Place PO Box 280 304-848-0076 |
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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.

WW-6A5 (1/12)

Operator Well No. 515109

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

| Delivery meth | od pursuant to West Virginia (| Code § 22-6A-1 | 16(c) | | |
|--|---|--|--|--|---|
| CERTIFIE | ED MAIL | ☐ HAND |) | | |
| | N RECEIPT REQUESTED | DELI | | | |
| return receipt rethe planned op required to be partified of a hold damages to the (d) The notices of notice. | equested or hand delivery, give to peration. The notice required by provided by subsection (b), section prizontal well; and (3) A propose surface affected by oil and gas of | he surface own y this subsection on ten of this ar ed surface use operations to the given to the su | er whose land on shall include ticle to a surfa and compense extent the da | I will be used for de: (1) A copy ace owner whos sation agreemen amages are comp | cation, an operator shall, by certified mail or the drilling of a horizontal well notice of of this code section; (2) The information see land will be used in conjunction with the at containing an offer of compensation for pensable under article six-b of this chapter, sted in the records of the sheriff at the time |
| | listed in the records of the sheriff | f at the time of | notice): | | |
| | | | | | |
| Name: Coastal Fores | t Resources Company d/b/a Coastal Timberlands Compan | / | Name: | | |
| Name: Coastal Fores Address: P. O. B Buckha Notice is herel Pursuant to We | t Resources Company d/b/a Coastal Timberlands Compan ox 709 nnon, WV 26201 oy given: est Virginia Code § 22-6A-16(c), | notice is hereb | Address | s: | well operator has developed a planned |
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| Name: Coastal Fores Address: P. O. B Buckha Notice is herel Pursuant to We operation on the State: County: | t Resources Company d/b/a Coastal Timberlands Compan ox 709 nnon, WV 26201 oy given: est Virginia Code § 22-6A-16(c), ne surface owner's land for the puw Wetzel | notice is hereby | Address y given that the galacter of the galac | ne undersigned value on the tra Easting: Northing: | oct of land as follows: 532943.40 4375978.21 |
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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.



WEST VIRGINIA DEPARTMENT OF TRANSPORTATION

Division of Highways

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

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

Reissued September 23, 2016

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

Subject: DOH Permit for the BIG360 Pad Site, Wetzel County #515109 BIG360H2 #515110 BIG360H3 #515111 BIG360H4 #515112 BIG360H5

Dear Mr. Martin,

Earl Ray Tomblin

Governor

This well site will be accessed from existing Permit # 06-2014-0638 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.

Dary K. Clayton

Regional Maintenance Engineer

Central Office O&G Coordinator

Cc: Nick Bumgardner

EQT Production Company

CH, OM, D-6, File

C TO CO DW = nd Gas SEP S G 2016

Anticipated Frac Additives Chemical Names and CAS numbers

| <u>Material</u> | <u>Ingredient</u> | CAS Number |
|-----------------------|---|-------------------|
| | | |
| Water | | |
| Sand | Hydrotreated light petroleum distillate Tributyl tetradecyl phosphonium | 14808-60-7 |
| Friction Reducer | 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 |



FLOODPLAIN CONDITIONS

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!!

NO

NA

N/A

DO SITE CONSTRUCTON ACTIVITIES TAKE PLACE IN FLOODPLAIN:

PERMIT NEEDED FROM COUNTY FLOODPLAIN COORDINATOR

FIRM MAP NUMBER(S) FOR SITE: 54103C0215C

ACREAGES OF CONSTRUCTION IN FLOODPLAIN:

FLOODPLAIN SHOWN ON DRAWINGS

EQT - BIG 360 FINAL SITE DESIGN, CONSTRUCTION PLANS, &

EROSION & SEDIMENT CONTROL PLANS EOT PRODUCTION COMPANY



awBe Viewed at Q:\OIL GAS\SAY FILES\REVIEWS Electronic Version of These P

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| | | a de |
| | 11 | V. |
| GR | APHIC SCAL | E Project Location (9) |

Know what's below. Call before you dig.



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discrams attached hereto have been prepared in diagrams attached herebs have been prepared in accordance with the West Virginia Code of State Rules. Division of Environmental Protection, Office of 01 and Gas §35-4-21. The information reflects a temporary flac pit point. The computed above grade storage volume is less than 15 acre feet. filling method pumped, flac, point is fined.

PROJECT NOTES:

INFORMATION, SEE "REPORT OF GEOTECHNICAL EXPLORATION BIG 300 DRILL PAD SITE BY TRIAD ENGINEERING, INC. DATED APRIL 4, 2014 AND THE PLAN AND TECHNICAL SPECIFICATIONS FOR REINFORCED EA SLOPES BY TRIAD ENGINEERING DATED JULY 7, 2014

2. CONTRACTOR TO VERIFY THE EXACT LOCATION OF ALL EXISTING UTILITIES AND NOTIFY THE OWNER AND DEMONER OF ANY CONFLICTS WITH EXISTING UTILITIES DAMAGE TO EXISTING UTILITIES SHALL BE THE CONTRACTORS REPROVISIBLETY. WAS

CONTRACTOR SHALL OBTAIN, AT HIS EXPENSE, ANY AND ALL PERMITS REQUIRED PRIOR TO STARTING WORK AND SHALL ADHERE TO THE CONDITIONS IMPOSED.

4. ANY DISCREPANCES FOURD SETWEST THE DRAWN AND STELL CONDITIONS OR ANY INCOMESTIMATION OF REPORTED THE CONDITIONS OF ANY INCOMESTIMATION OF REPORTED TO THE CONDITION OF ANY INCOMESTIMATION OF ANY INCOMESTI

5. ANY UNUSUAL SUBSURFACE CONDITIONS ENCOUNTERED DURING THE COURSE OF THE WORK SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER IMMEDIATELY

8 THE TIEFORT OF GEOTECHICAL EXPLORATION, ALONG WITH THE PLANS AND TECHNICAL SPECERCATIONS FOR EXPORTANCE AND TECHNICAL SPECERCATIONS FOR THE PROBLEMENT, AND RESOURCESS AS EXPRESSED TO THESE FAMILY IN THE EXPLORATION THESE ARE DEPOSITED AND THE PROBLEMENT THAT THERE ARE PREPARED BY HORIZON FROM THE DOCUMENTS PREPARED BY HORIZON FROM THE DOCUMENTS AND THE ADMINISTRATION OF THE TWO THE PROBLEMENTS OF THE PROBLEMENTS OF THE TWO THE TWO



AFFECTED TAX PARCEL 17/14 GRANT DISTRICT - WETZEL COUNTY, WV

TM 17 - Pcl 14 Coastal Forest Resources Company 1636.5 Acrest

SITE DISTURBANCE

34 × 10/23/2014 DRILL PAD = 5.02 ACRES FLOWBACK PIT = 1.85 ACRES ACCESS ROADS = 4.45 ACRES MANIFOLD PAD & TRUCK TURNAROUND = 1.10 ACRES PRODUCTION UNIT PAD = 0.70 ACRES SPOIL PADS = 2.52 ACRES TIMBER STORAGE = 0.39

TOTAL DISTURBANCE = 16.03 ACRES TOTAL WOODED AREA = 14 83 ACRES

WELL LEGEND

BIG 360 H1 - 515108 BIG 360 H2 - 515109

BIG 360 H3 - 515110

BIG 360 H4 - 515111

BIG 360 H5 - 515112

BIG 360 H6 - 515113

BIG 360 H7 - 515213

BIG 360 H8 - 515214

BIG 360 H9 - 515215

Project Contacts

Fred Gray - EQT Production Company 304-848-0085 Off.

Surveyor & Engineer

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

James D. Fields E.I.T.- Hornor Brothers Engineers 304-624-6445 Office

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| DATE | REVISIONS | Date: 7-16-2014 |
|-----------|---|-----------------------------------|
| 7.03.2014 | Add Project Notes | Scale: AS SHOWN |
| 7.23.2014 | Change EQT Contact Information & Update Cover Map | Designed By: JDF & TBC |
| 8.06.2014 | Remove Impacts Table per EQT & Potesta | File No. 1941 (Appeter 2) 204 aug |
| 0.06.2014 | Impervious base at sump locations | Page 1 of 18 |
| | | |



APPROVED

WVDEP OOG



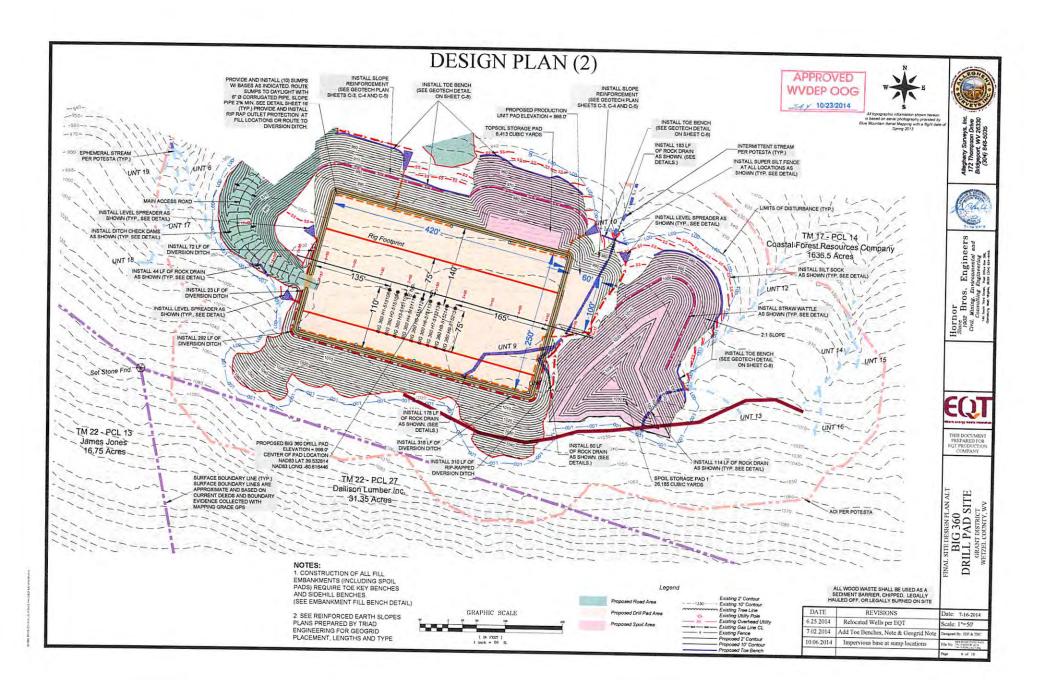


Engineers



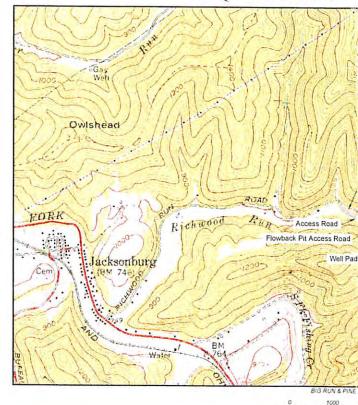
THIS DOCUMENT PREPARED FOR EQT PRODUCTION COMPANY

COVER SHEET/LOCATION MAP BIG 360
DRILL PAD SITE GRANT DISTRICT WETZEL COINTY W...



| FLOODPLAIN | I COND | ITIONS | 3 |
|--|-------------------|------------|-----|
| DO SITE CONSTRUCTON ACTIVITIES | S TAKE PLACE IN I | FLOODPLAIN | NO |
| PERMIT NEEDED FROM COUNTY FL | OODPLAIN COOR | DINATOR | NO |
| HEC-RAS STUDY COMPLETED. | | N/A | |
| FLOODPLAIN SHOWN ON DRAWING | S | | N/A |
| FIRM MAP NUMBER(S) FOR SITE: 54103C0215C | | | |
| ACREAGES OF CONSTRUCTION IN F | LOODPLAIN | N/A | |

EQT - E FINAL SITE DESIGN, CON EROSION & SEDIMEN EQT PRODUCTION



WELL LOCATION RESTRICTIONS

Well Pad complies with the Well Location Restrictions of WV code 22-6A-12

- 250' from an existing well or developed spring used for human or domestic animals
- 625 to occupied dwelling or barn greater 2500 SF used for poultry or dairy measured from the center of the pad
- 100' from edge of disturbance to wetlands perennial streams, natural or artificial lake, pond or reservoir.
- 300' from edge of disturbance to naturally reproducing trout streams
- * 1000 of surface or ground water intake to a public water supply

Design Certification

The drawings, construction notes, and reference diagrams attached hereto have been prepared in accordance with the West Virginia Code of State Rules. Division of Environmental Protection, Office of Oil and Gas §35-4-21 The information reflects a temporary frac pit pond. The computed above grade storage volume is less than 15 acre feet, filling method pumped, frac pond is lined.

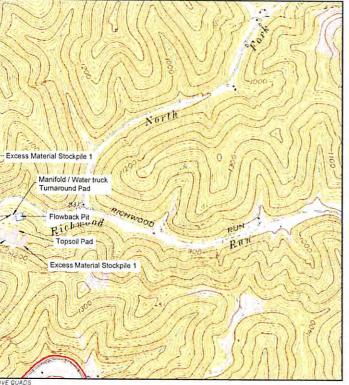
MISS Utility of West Virginia
1-800-245-4848
West Virginia State Law
(Section XIV: Chapter 24-C)
Requires that you call two business
days before you dig in the state of
West Virginia.
IT'S THE LAW!!





1 INCH -

IG 360 STRUCTION PLANS, & T CONTROL PLANS ON COMPANY





West Virginia Coordinate System of 1983 State Plane Grid North All topographic information shown here is based on topo received from EQ1 Production Company

AFFECTED TAX PARCEL: 17/14 GRANT DISTRICT - WETZEL COUNTY, WV

TM 17 - Pcl. 14 Coastal Forest Resources Company 1636.5 Acres±

SITE DISTURBANCE

DRILL PAD = 5.02 ACRES FLOWBACK PIT = 1.85 ACRES ACCESS ROADS = 4.45 ACRES MANIFOLD PAD & TRUCK TURNAROUND = 1 10 ACRES PRODUCTION UNIT PAD = 0.70 ACRES SPOIL PADS = 2.52 ACRES TIMBER STORAGE = 0.39

TOTAL DISTURBANCE = 16.03 ACRES TOTAL WOODED AREA = 14.83 ACRES

Project Contacts

Surveyor & Engineer

304-624-6445 Office

WELL LEGEND WGS 84 (WV NORTH ZONE)

515108 - LAT: 39 532844 / LONG -80 616714 515109 - LAT: 39.532830 / LONG -80.616664 515110 - LAT: 39.532817 / LONG. -80.616614 515111 - LAT: 39.532803 / LONG -80.616564 515112 - LAT: 39.532789 / LONG -80.616514



Allegheny Surveys, Inc. 172 Thompson Drive Bridgeport, WV 26330 (304) 848-5035



Hornor
Since Bros. Engineers
Civil, Mining, Environmental and
Consulting Engineering
102 Sam That Steet, Past Office 180 380,
Desirably well when a 3501 (354) 524-6445



THIS DOCUMENT

COVER SHEET / LOCATION MAF SITE GRANT DISTRICT WETZEL COUNTY, WV DRILL PAD

PREPARED FOR EQT PRODUCTION COMPANY

SHEET INDEX

Fred Gray - EQT Production Company 304-848-0085 Off

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

Tom Corathers - PE PS - Hornor Brothers Engineers

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| | | | |

| D. me | | |
|------------|----------------------------------|-----------------------|
| DATE | REVISIONS | |
| 08.23.2016 | REMOVE FOUR WELL NUMBERS PER EQT | Date: 07/29/2016 |
| | | Scale: AS SHOWN |
| | | Designed By JDF & TBC |
| | | File No. |
| | | Page 1 of 22 |

| ONS TH ZONE) | | |
|-----------------|------------|--|
| TUDE | LONGITUDE | |
| 32814 | -80 616446 | |
| 34075 | -80 615518 | |
| 35395 | -80 619683 | |
| 54179 | -80 616377 | |
| | | |



PROJECT NOTES:

1 FOR SUBSURFACE AND SOIL REINFORCEMENT INFORMATION, SEE "REPORT OF GEOTECHNICAL EXPLORATION BIG 360 DRILL PAD SITE" BY TRIAD ENGINEERING, INC. DATED APRIL 4, 2014 AND THE PLANS AND TECHNICAL SPECIFICATIONS FOR REINFORCED EARTH SLOPES BY TRIAD ENGINEERING DATED JULY 7, 2014

2 CONTRACTOR TO VERIFY THE EXACT LOCATION OF ALL EXISTING UTILITIES AND NOTIFY THE OWNER AND ENGINEER OF ANY CONFLICTS WITH EXISTING UTILITIES DAMAGE TO EXISTING UTILITIES SHALL BE THE CONTRACTOR'S RESPONSIBILITY "MISS UTILITY OF WEST VIRGINIA" AND EQT MUST BE CONTACTED A MINIMUM OF FORTY-EIGHT (48) HOURS PRIOR TO EXCAVATION AT THE SITE FOR UTILITY LOCATIONS

3 CONTRACTOR SHALL OBTAIN AT HIS EXPENSE ANY AND ALL PERMITS REQUIRED PRIOR TO STARTING WORK AND SHALL ADHERE TO THE CONDITIONS IMPOSED

4 ANY DISCREPANCIES FOUND BETWEEN THE DRAWINGS AND SITE CONDITIONS OR ANY INCONSISTENCIES OR AMBIGUITIES IN THE DRAWINGS SHALL IMMEDIATELY REPORTED TO THE OWNER AND ENGINEER IN WRITING SHOWN INCONSISTENCIES OR AMBIGUITIES SHALL BE PROMPILY ADDRESSED BY THE OWNER AND/OR ENGINEER IN WRITING WORK PERFORMED BY THE CONTRACTOR AFTER HIS DISCOVERY OF SUCH DISCREPANCIES INCONSISTENCIES, OR AMBIGUITIES, WITHOUT CLARIFICATION FROM THE OWNER AND/OR ENGINEER, SHALL BE AT THE CONTRACTOR STISK

5 ANY UNUSUAL SUBSURFACE CONDITIONS ENCOUNTERED DURING THE COURSE OF THE WORK SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER IMMEDIATELY

6 THE "REPORT OF GEOTECHNICAL EXPLORATION". ALONG WITH THE PLANS AND TECHNICAL SPECIFICATIONS FOR THE BIG 360 DRILL PAD SITE AS PREPARED BY TRIAD ENGINEERINS, INC. ARE CONSIDERED AS A SUPPLEMENT TO THESE PLANS IN THE EVENT THAT THERE ARE DISCREPANCIES BETWEEN ANY OF THE DOCUMENTS PREPARED BY HORNOR BROTHERS ENGINEERS AND TRIAD ENGINEERINS, INC., THE MORE STRINGENT OF THE TWO SHALL APPLY

