



west virginia department of environmental protection

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

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

August 06, 2015

WELL WORK PERMIT

Horizontal 6A Well

This permit, API Well Number: 47-8510220, issued to EQT PRODUCTION COMPANY, is evidence of permission granted to perform the specified well work at the location described on the attached pages and located on the attached plat, subject to the provisions of Chapter 22 of the West Virginia Code of 1931, as amended, and all rules and regulations promulgated thereunder, and to all conditions and provisions outlined in the pages attached hereto. Notification shall be given by the operator to the Oil and Gas Inspector at least 24 hours prior to the construction of roads, locations, and/or pits for any permitted work. In addition, the well operator shall notify the same inspector 24 hours before any actual well work is commenced and prior to running and cementing casing. Spills or emergency discharges must be promptly reported by the operator to 1-800-642-3074 and to the Oil and Gas inspector.

Please be advised that form WR-35, Well Operators Report of Well Work is to be submitted to this office within 90 days completion of permitted well work, as should form WR-34 Discharge Monitoring Report within 30 days of discharge of pits, if applicable. Failure to abide by all statutory and regulatory provisions governing all duties and operations hereunder may result in suspension or revocation of this permit and, in addition, may result in civil and/or criminal penalties being imposed upon the operators.

In addition to the applicable requirements of this permit, and the statutes and rules governing oil and gas activity in WV, this permit may contain specific conditions which must be followed. Permit conditions are attached to this cover letter.

Per 35CSR-4-5.2.g this permit will expire in two (2) years from the issue date unless permitted well work is commenced. If there are any questions, please feel free to contact me at (304) 926-0499 ext. 1654.

James Martin
Chief

Operator's Well No: 515885
Farm Name: WILSON, JAMES H. & WILMA J.
API Well Number: 47-8510220
Permit Type: Horizontal 6A Well
Date Issued: 08/06/2015

Promoting a healthy environment.

08/07/2015

PERMIT CONDITIONS 4708510220

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

CONDITIONS

1. Operator shall take additional measures with this permitted activity to avoid communication with offset wells. Such additional measures are described in the attached addendum. This addendum is part of the terms of the well work permit, and includes a description of depth and completed formations of offset wells. Also included is a description of monitoring activities that will take place during fracturing operations of the permitted well work.
1. This proposed activity may require permit coverage from the United States Army Corps of Engineers (USACOE). Through this permit, you are hereby being advised to consult with USACOE 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.

PERMIT CONDITIONS 4708510220

6. Pursuant to the requirements pertaining to the sampling of domestic water supply wells/springs the operator shall, no later than thirty (30) days after receipt of analytical data provide a written copy to the Chief and any of the users who may have requested such analyses.
7. If any explosion or other accident causing loss of life or serious personal injury occurs in or about a well or well work on a well, the well operator or its contractor shall give notice, stating the particulars of the explosion or accident, to the oil and gas inspector and the Chief, within 24 hours of said accident.
8. During the casing and cementing process, in the event cement does not return to the surface, the oil and gas inspector shall be notified within 24 hours.
9. Operator shall provide the Office of Oil & Gas notification of the date that drilling commenced on this well. Such notice shall be provided by sending an email to DEPOOGNotify@wv.gov within 30 days of commencement of drilling.



June 31, 2015

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

Re: Revision of 085-10220

Dear Mr. Smith,

Enclosed is an updated WW-6B, schematics, WW-6A1 and mylar plat, signed by the inspector. EQT would like to revise the length of the lateral. The top hole has not changed. Please insert these changes into the permit you have on file and remove the hold so it may be reviewed and issued.

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

Sincerely,

A handwritten signature in black ink, appearing to read 'Vicki Roark'.

Vicki Roark
Permitting Supervisor-WV

Enc.

cc:Douglas Newlon

4708510220

Received
Office of Oil & Gas
AUG 03 2015



4708510220

February 5, 2015

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 (PUL96)

Dear Mr. Smith,

EQT is requesting the 13-3/8" surface casing be set at 655' KB, 100' below the deepest fresh water show. We will set the 9-5/8" intermediate string at 2566' KB, below the porosity zone in the Big Injun formation.

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

Sincerely,

Vicki Roark
Permitting Supervisor

4708510220

Enc.

Received
Office of Oil & Gas
JUN 04 2015

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

1) Well Operator: EQT Production Company
Operator ID 306686 County 085 District 4 Quadrangle 562

2) Operator's Well Number: 515885 Well Pad Name PUL96

3) Farm Name/Surface Owner : James H & Wilma J Wilson Public Road Access: CR 7/4

4) Elevation, current ground: 1,194.0 Elevation, proposed post-construction: 1,182.0

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

(b) If Gas: Shallow Deep
Horizontal

6) Existing Pad? Yes or No: No

7) Proposed Target Formation(s), Depth(s), Anticipated Thicknesses and Associated Pressure(s):
Target formation is Marcellus at a depth of 6416 with the anticipated thickness to be 50 feet and anticipated target pressure of 2190 PSI

8) Proposed Total Vertical Depth: 6416

9) Formation at Total Vertical Depth: Marcellus

10) Proposed Total Measured Depth: 15915

11) Proposed Horizontal Leg Length 8,110

12) Approximate Fresh Water Strata Depths: 341,367,398,555

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

14) Approximate Saltwater Depths: N/A

15) Approximate Coal Seam Depths: N/A

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

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

(a) If Yes, provide Mine Info: Name: _____
Depth: _____
Seam: _____
Owner: _____

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David Wilson
7-27-15

4708510220

API NO. 47 - 085 - 10220
 OPERATOR WELL NO. 515885
 Well Pad Name: PUL96

WW - 6B
 (4/15)

CASING AND TUBING PROGRAM

18)

TYPE	Size (in)	New or Used	Grade	Weight per ft. (lb/ft)	FOOTAGE: For Drilling (ft)	INTERVALS: Left in Well (ft)	CEMENT: Fill-up (Cu.Ft.)
Conductor	20	New	MC-50	81	40	40	38 C.T.S.
Fresh Water	13 3/8	New	J-55	54.5	655	655	581 C.T.S.
Coal	-	-	-	-	-	-	-
Intermediate	9 5/8	New	A-500	40	2,566	2,566	1,011 C.T.S.
Production	5 1/2	New	P-110	20	15,915	15,915	See Note 1
Tubing	2 3/8		J-55	4.6			May not be run, if run will be set 100' less than TD
Liners							

TYPE	Size (in)	Wellbore Diameter (in)	Wall Thickness (in)	Burst Pressure (psi)	Anticipated Max. Internal Pressure (psi)	Cement Type	Cement Yield (cu. ft./k)
Conductor	20	24	0.375	-	18	Construction	1.18
Fresh Water	13 3/8	17 1/2	0.38	2,730	2,184	* See Note 2	1.21
Coal							
Intermediate	9 5/8	12 3/8	0.395	3,950	3,160	* See Note 2	1.21
Production	5 1/2	8 1/2	0.361	12,640	10,112	-	1.27/1.86
Tubing							
Liners							

Packers

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

4708510220

Note 1: EQT plans to bring the TOC on the production casing cement job 1,000' above kick off point, which is at least 500' above the shallowest production zone, to avoid communication.
Note 2: Reference Variance 2014-17. (Attached)

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 AUG 03 2015
Sue

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

Drill and complete a new horizontal well in the Marcellus formation. The vertical drill to go down to an approximate depth of 2812'.
Then kick off the horizontal leg into the Marcellus using a slick water frac.

20) Describe fracturing/stimulating methods in detail, including anticipated max pressure and max rate:

Hydraulic fracturing is completed in accordance with state regulations using water recycled from previously fractured wells and obtained from freshwater sources. This water is mixed with sand and a small percentage (less than 0.3%) of chemicals (including 15% Hydrochloric acid, gelling agent, gel breaker, friction reducer, biocide, and scale inhibitor), referred to in the industry as a "slickwater" completion. Maximum anticipated internal casing pressure is expected to average approximately 8500 psi, maximum anticipated treating rates are expected to average approximately 100 bpm. Stage lengths vary from 150 to 300 feet. Average approximately 200,000 barrels of water per stage. Sand sizes vary from 100 mesh to 20/40 mesh. Average approximately 200,000 pounds of sand per stage.

21) Total area to be disturbed, including roads, stockpile area, pits, etc, (acres): ± 28.99

22) Area to be disturbed for well pad only, less access road (acres): ± 6.48

- 23) Describe centralizer placement for each casing string.
- Surface: Bow spring centralizers – One at the shoe and one spaced every 500'.
 - Intermediate: Bow spring centralizers– One cent at the shoe and one spaced every 500'.
 - Production: One spaced every 1000' from KOP to Int csg shoe

24) Describe all cement additives associated with each cement type. Surface (Type 1 Cement): 0-3% Calcium Chloride
Used to speed the setting of cement slurries.

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

Production:

Lead (Type 1 Cement): 0.2-0.7% Lignosulfonate (Retarder). Lengthens thickening time.

0.3% CFR (dispersant). Makes cement easier to mix.

Tail (Type H Cement): 0.25-0.40% Lignosulfonate (Retarder). Lengthens thickening time.

0.2-0.3% CFR (dispersant). This is to make the cement easier to mix.

60 % Calcuim Carbonate. Acid solubility.

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

25) Proposed borehole conditioning procedures. Surface: Circulate hole clean (Approximately 30-45 minutes) rotating & reciprocating

one full joint until cuttings diminish at surface. When cuttings returning to surface diminish, continue to circulate an additional 5 minutes. To ensure that there is no fill, short trip two stands with no circulation. If there is fill, bring compressors back on and circulate hole clean. A constant rate of higher than expected cuttings volume likely indicates washouts that will not clean up.

Intermediate: Circulate hole clean (Approximately 30-45 minutes) rotating & reciprocating one full joint until cuttings diminish at surface. When cuttings returning to surface diminish, continue to circulate an additional 5 minutes. If foam drilling, to enhance hole cleaning use a soap sweep or increase injection rate & foam concentration.

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

Perform a cleanup cycle by pumping 3-5 bottoms up or until the shakers are clean. Check volume of cuttings coming across the shakers every 15 minutes.

*Note: Attach additional sheets as needed.

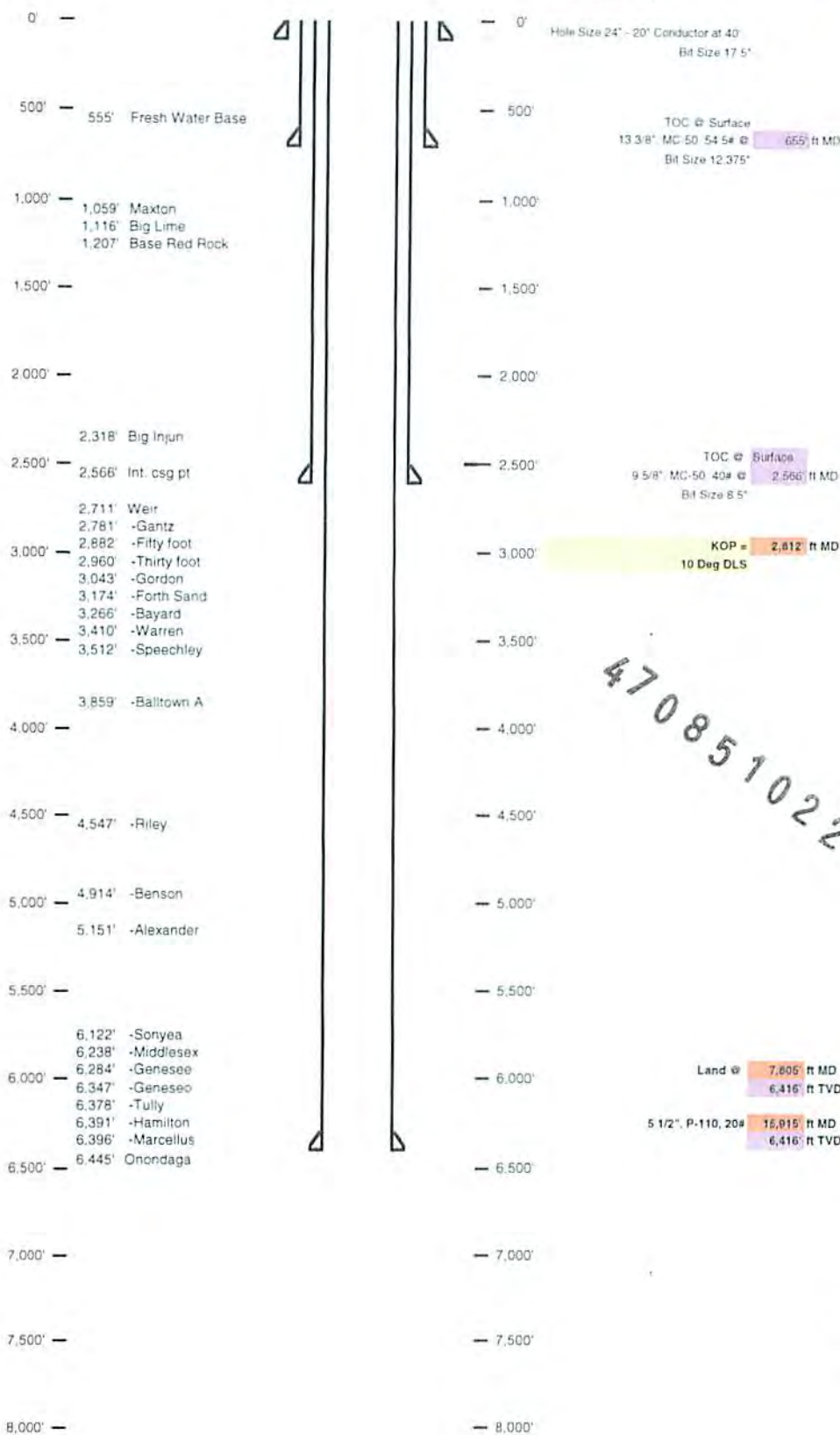
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Office of Oil & Gas
AUG 03 2015
DW

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Well Schematic
EQT Production

Well Name: 515885(PUL96H3)
County: Ritchie
State: West Virginia

Elevation KB: 1195
Target: Marcellus
Prospect: Marcellus
Azimuth: 104.75
Vertical Section: R215



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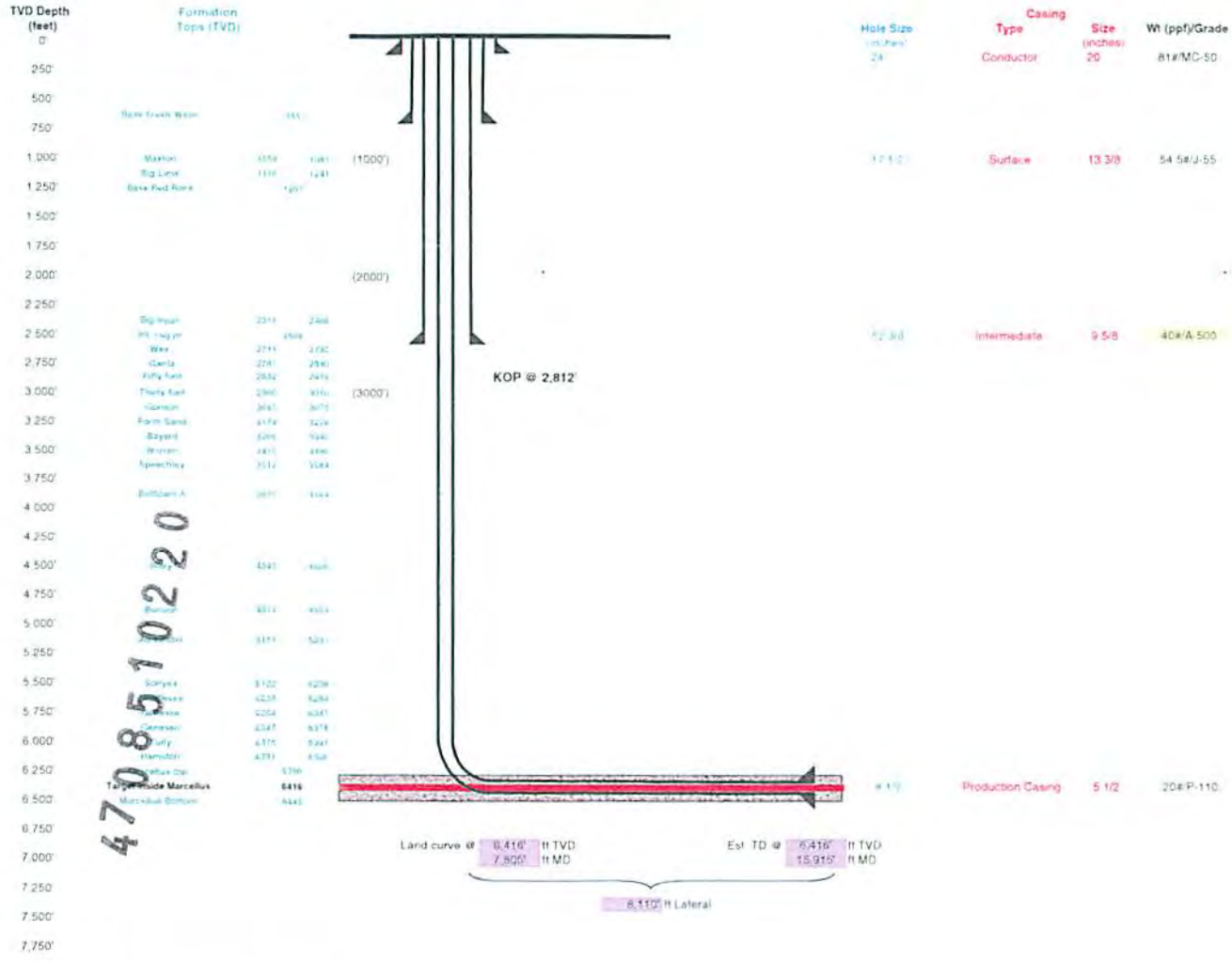
gwa

08/07/2015

4708510220

Well 515885(PUL96H3)
 EQT Production
 Pullman
 Ritchie West Virginia

Azimuth 164.73
 Vertical Section 3215



4708510220

Proposed Well Work
 Drill and complete a new horizontal well in the Marcellus formation
 The vertical drill to go down to an approximate depth of 2812'
 Then kick off the horizontal leg into the Marcellus using a slick water frac

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 Office of Oil & Gas
 AUG 03 2015
 JWC
 7-27-15



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

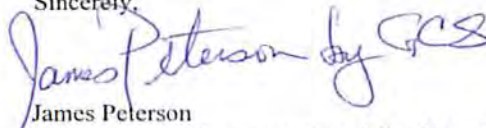
Dear Sir or Madam,

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

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08/07/2015



west virginia department of environmental protection

Office of Oil and Gas
601 57th Street, SE
Charleston, WV 25304
(304) 926-0450
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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 "I" Cement
 - 5.20 % Water
- 2.) Laboratory testing results indicate that the blend listed in Fact No.1 will achieve a 500 psi compressive strength within 6 hours and a 2,435 psi compressive strength within 24 hours.

4708510220

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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

4708510220

08/07/2015



February 5, 2015

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 (PUL96)

Dear Mr. Smith,

EQT is requesting the 13-3/8" surface casing be set at 655' KB, 100' below the deepest fresh water show. We will set the 9-5/8" intermediate string at 2566' KB, below the porosity zone in the Big Injun formation.

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

Sincerely,

A handwritten signature in blue ink, appearing to read 'Vicki Roark'.

Vicki Roark
Permitting Supervisor

Enc.

4708510220

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

Operator Name EQT Production Company OP Code 306686

Watershed (HUC10) Goose Run of Rockcamp Run Quadrangle Pullman

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

Will a pit be used? Yes: X No:

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

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

Proposed Disposal Method For Treated Pit Wastes:

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

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

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

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

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

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

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

- If left in pit and plan to solidify what medium will be used? (Cement, Lime, sawdust) n/a
- Landfill or offsite name/permit number? See Attached List

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

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

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

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

Subscribed and sworn before me this 31 day of July, 20 15

Rebecca J. Heater Notary Public

My commission expires 4-7-20

Office of Oil & Gas
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AUG 03 2015



Proposed Revegetation Treatment: Acres Disturbed ± 28.99 Prevegetation pH 6.6

Lime 3 Tons/acre or to correct to pH 6.5

Fertilize type Granular 10-20-20

Fertilizer Amount 1/3 lbs/acre (500 lbs minimum)

Mulch 2 Tons/acre

Seed Mixtures

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

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

Photocopied section of involved 7.5' topographic sheet.

Plan Approved by: Daniel W. Cowan

Comments: preserve & mulch all cut areas no less than 2' from per acre. maintain all O&G during complete operation

Title: oil & gas inspector Date: 6-1-15 ⁴⁷⁰⁸⁵¹⁰²²⁰
Field Reviewed? () Yes () No

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Office of Oil & Gas
JUN 04 2015

EQT Production Water plan
Offsite disposals for Marcellus wells

4708510220

CWS TRUCKING INC.

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

BROAD STREET ENERGY LLC

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

LAD LIQUID ASSETS DISPOSAL INC.

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

TRIAD ENERGY

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

TRI COUNTY WASTE WATER MANAGEMENT, INC.

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

KING EXCAVATING CO.

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

4708510220

Waste Management - Meadowfill Landfill

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

Waste Management - Northwestern Landfill

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

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Office of Oil & Gas
JUN 04 2015

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EQT Production Water plan

Offsite disposals for Marcellus wells

CWS TRUCKING INC.

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

BROAD STREET ENERGY LLC

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

LAD LIQUID ASSETS DISPOSAL INC.

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

TRIAD ENERGY

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

TRI COUNTY WASTE WATER MANAGEMENT, INC.

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

KING EXCAVATING CO.

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

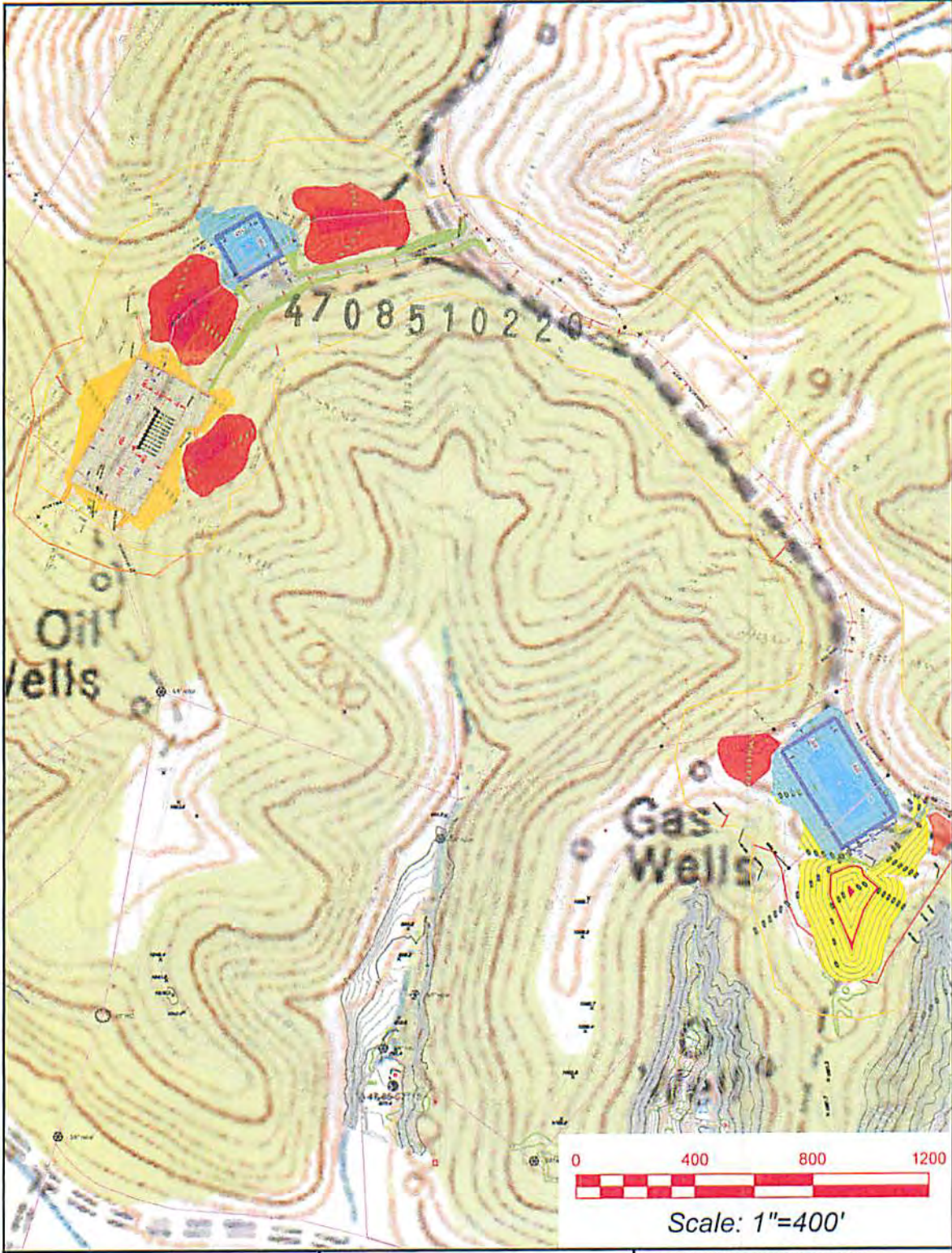
4708510220

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



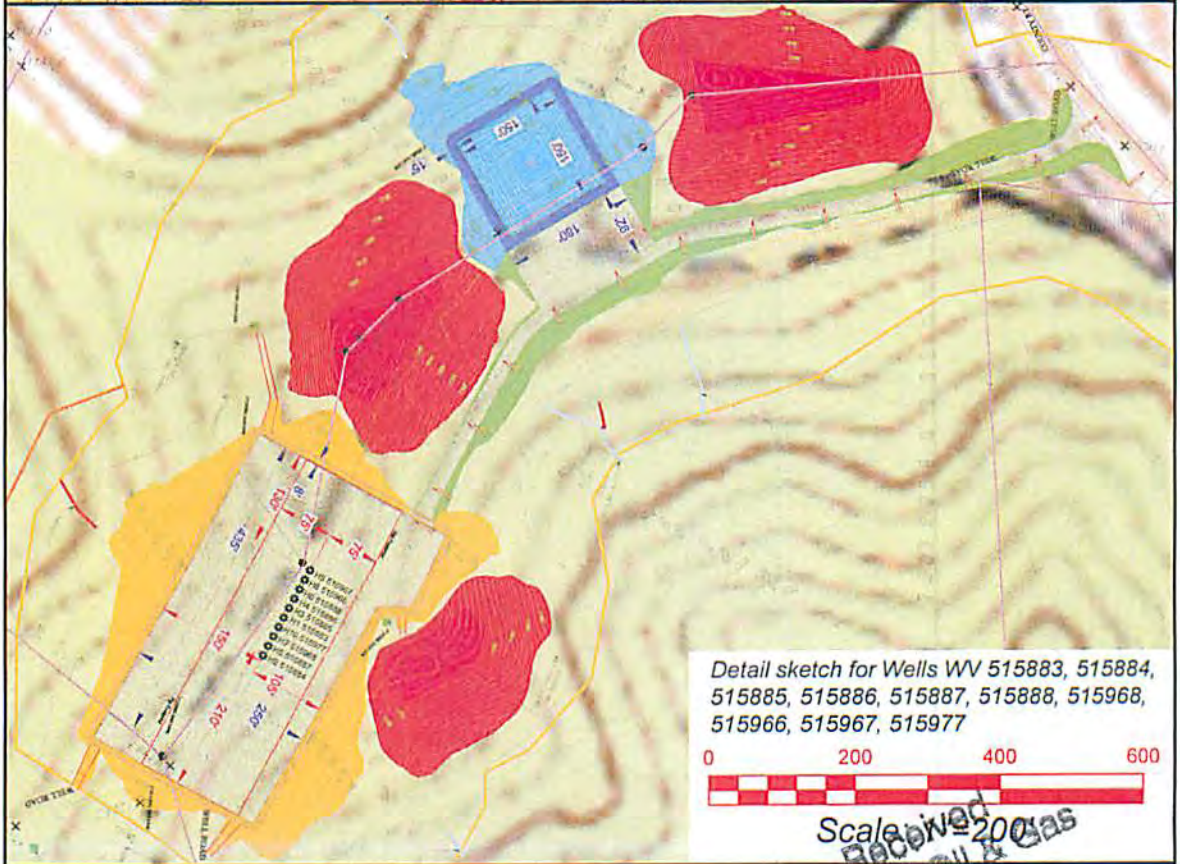
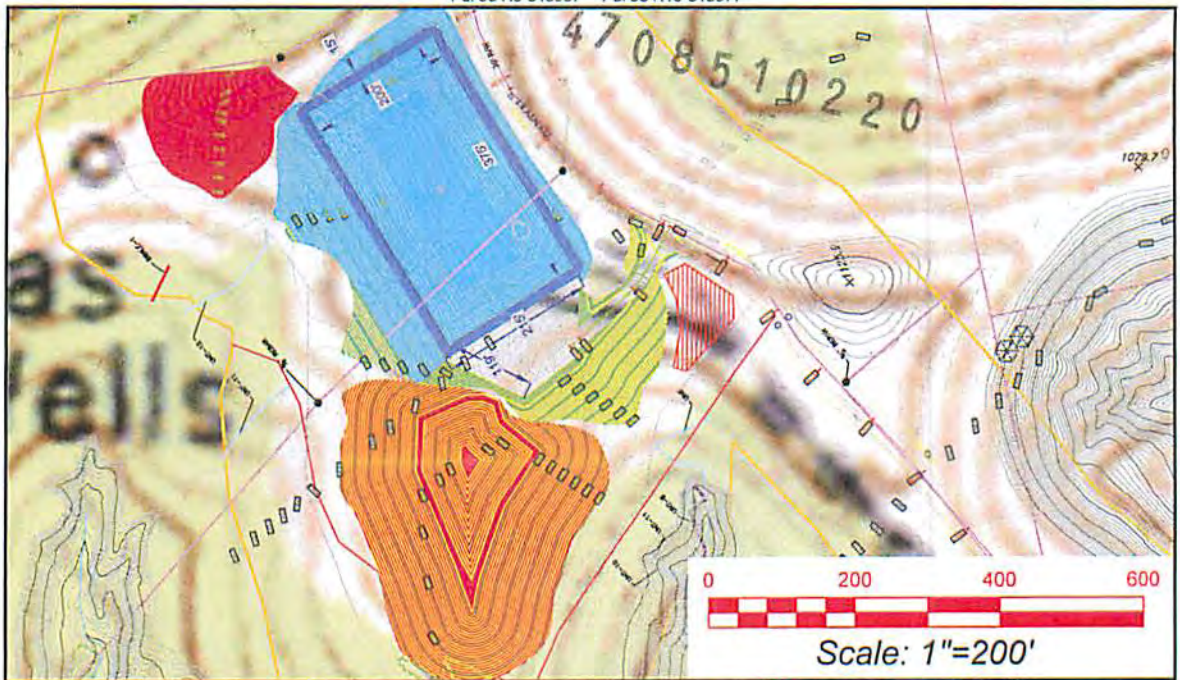
Pullman 7.5' USGS QUADRANGLE		Proposed Disturbance Area	
Projected culvert inventory. (for bid purposes only)	Well Site Location	See Site Plan	
15" minimum diameter culverts	See Site Plan	Proposed Access Road	See Site Plan
24" minimum diameter culverts	See Site Plan	Approximate Total Disturbance	See Site Plan
DRAWN BY: Dale Tomlin PS	DATE: December 30, 2014	FILE NO: 243-14	DRAWING FILE NO: 243-14 Rec Plan

Note: SEE SITE PLAN OF PULLMAN 96 FOR COMPLETE GRADING & DRAINAGE CONSTRUCTION INCLUDING EROSION & SEDIMENT CONTROL DETAILS, ETC.



SURVEYING AND MAPPING SERVICES PERFORMED BY:
ALLEGHENY SURVEYS, INC.
 1-800-482-8606
 Birch River Office Phone: (304) 649-8606 Fax: (304) 649-8608
 237 Birch River Road P.O. Box 438 Birch River, WV 26610

08/07/2015



Pullman 7.5' USGS QUADRANGLE		Proposed Disturbance Area	
Projected culvert inventory. (for bid purposes only)		Well Site Location	See Site Plan
15" minimum diameter culverts	See Site Plan	Proposed Access Road	See Site Plan
24" minimum diameter culverts	See Site Plan	Approximate Total Disturbance	See Site Plan
DRAWN BY: Dale Tomlin PS	DATE: December 30, 2014	FILE NO. 243-14	DRAWING FILE NO. 243-14 Rec Plan

Note: SEE SITE PLAN OF PULLMAN 96 FOR COMPLETE GRADIENTS & DRAINAGE CONSTRUCTION INCLUDING EROSION & SEDIMENT CONTROL, MAXAILS, ETC.



SURVEYING AND MAPPING SERVICES PERFORMED BY:
ALLEGHENY SURVEYS, INC.
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 Birch River Office Phone: (304) 649-8606 Fax: (304) 649-8608
 237 Birch River Road P.O. Box 438 Birch River, WV 26610

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Where energy meets innovation.™

Site Specific Safety Plan

EQT PUL96 Pad

Pullman
Ritchie County, WV

515883

515885

For Wells:

Date Prepared:

May 26, 2015

EQT Production

Title

Date

WV Oil and Gas Inspector

Title

Date

Office of Oil & Gas

JUN 04 2015

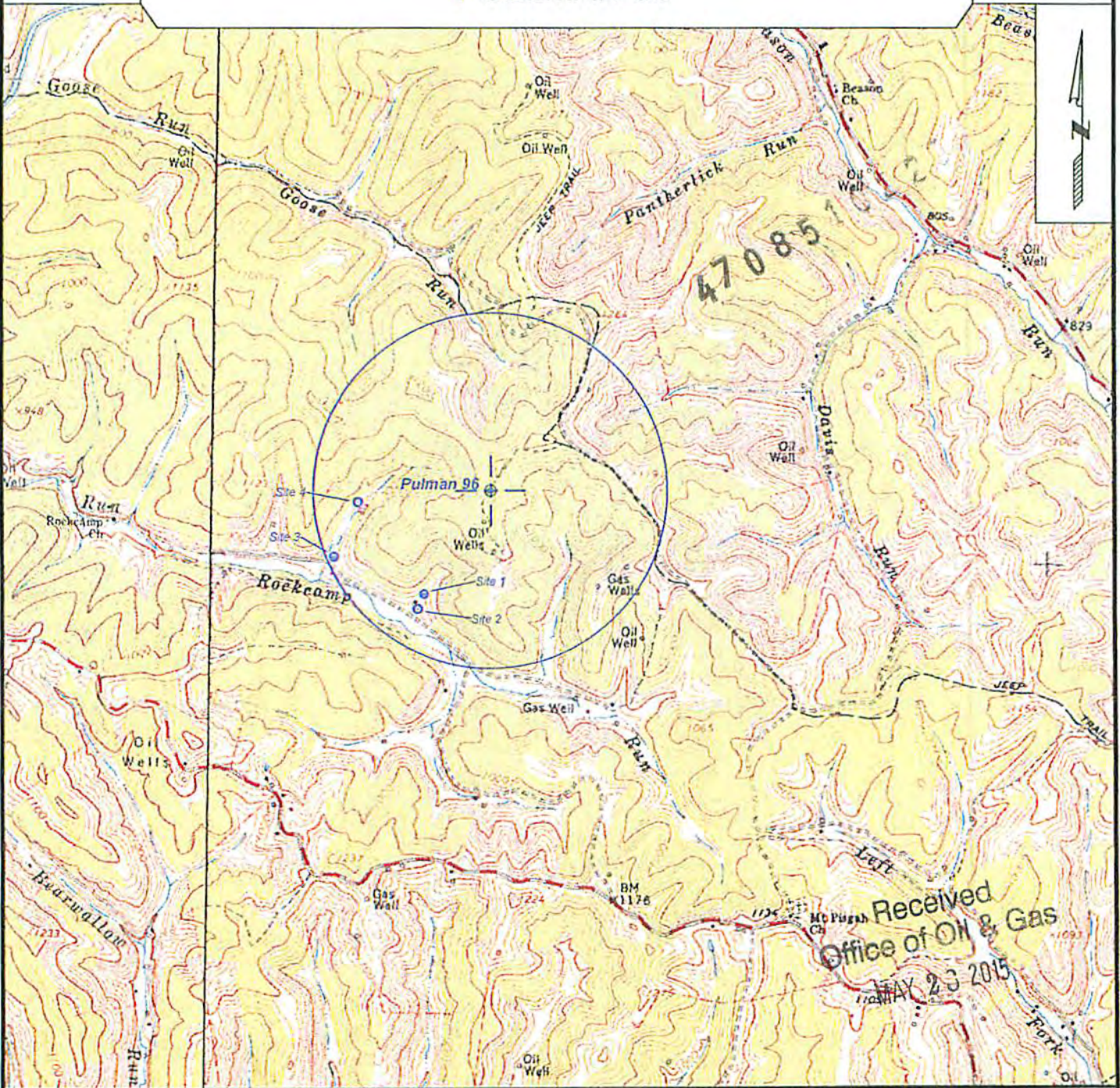
08/07/2015

Topo Quad: Pullman 7.5' Scale: 1" = 2000'

County: Ritchie Date: December 12, 2014

District: Union Project No: 243-38-U-14

PULLMAN 96



SURVEYING AND MAPPING SERVICES PERFORMED BY:
ALLEGHENY SURVEYS, INC.
1-800-482-8606
237 Birch River Road
Birch River, WV 26610
PH: (304) 649-8606
FAX: (304) 649-8608

PREPARED FOR:
EQT Production Company
P.O. Box 280
Bridgeport, WV 26330



Water Source Identification

EQT Well Pad Name: Pullman 96

Submittal Date: December 19, 2014

EQT Well Number: _____

Survey / Engineering Company: Allegheny Surveys, Inc.

Site Number: 1A Distance from Gas Well (feet): 1728

Surface Owner / Occupant: Wayne M. Reed & Eva L. Riffle

Address: 1314 37th St., Parkersburg, WV 26104 Phone #: _____

Field Located Date: December 18, 2014 Owner home during survey (yes/no): No

Coordinates: 39.207098, -80.989121 (decimal degrees – NAD 83)

Contact Attempts (Date): 1st: 12/15/14 2nd: 12/18/14 3rd: _____ Date Door Hanger Left: 12/15/14

Comments: This house is being used as a hunting camp. The first site is the water well

Site Number: 1B Distance from Gas Well (feet): 1953

Surface Owner / Occupant: Wayne M. Reed & Eva L. Riffle

Address: 1314 37th St., Parkersburg, WV 26104 Phone #: _____

Field Located Date: December 18, 2014 Owner home during survey (yes/no): No

Coordinates: 39.206520, -80.989428 (decimal degrees – NAD 83)

Contact Attempts (Date): 1st: 12/15/14 2nd: 12/18/14 3rd: _____ Date Door Hanger Left: 12/15/14

Comments: This second site is a pond

Site Number: 2A Distance from Gas Well (feet): 2398

Surface Owner / Occupant: Delores Jean Moore

Address: 1590 Rock Camp Rd., Harrisville, WV 26362 Phone #: 304-643-2511

Field Located Date: December 15, 2014 Owner home during survey (Yes/No): Yes

Coordinates: 39.208474, -80.993526 (decimal degrees – NAD 83)

Contact Attempts (Date): 1st: 12/15/14 2nd: _____ 3rd: _____ Date Door Hanger Left: _____

Comments: This first site is the water well next to the house.

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Site Number: 2B Distance from Gas Well (feet): 1882

Surface Owner / Occupant: Delores Jean Moore

Address: 1590 Rock Camp Rd., Harrisville, WV 26362 Phone #: 304-643-2511

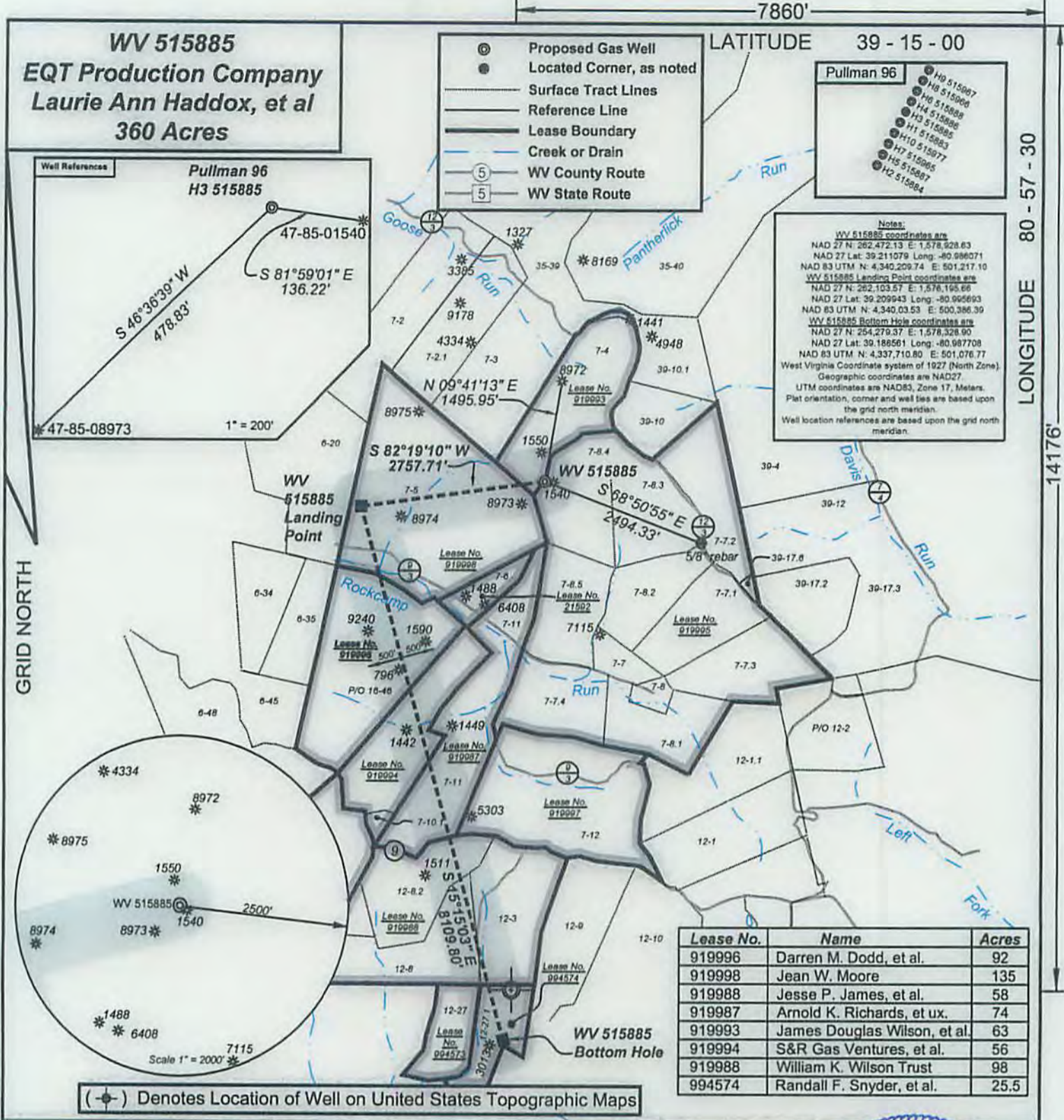
Field Located Date: December 15, 2014 Owner home during survey (Yes/No): Yes

Coordinates: 39.210584, -80.992442 (decimal degrees – NAD 83)

Contact Attempts (Date): 1st: 12/15/14 2nd: _____ 3rd: _____ Date Door Hanger Left: _____

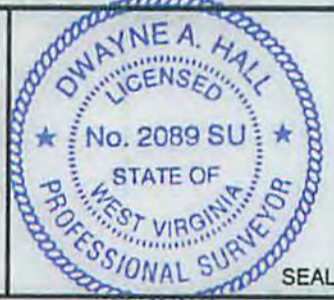
Comments: The second site is a pond.

4708510220



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.

Dwayne A. Hall
 P.S. 2089SU



FILE NO: 243-14
 DRAWING NO: 243-14 Pullman 96 H3.dwg
 SCALE: 1" = 2000'
 MINIMUM DEGREE OF ACCURACY: 1:2500
 PROVEN SOURCE OF ELEVATION: NGS CORS Station

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

DATE: June 23 20 15
 OPERATOR'S WELL NO. 515885
 API WELL NO
 47 - 85 - 10220
 STATE COUNTY PERMIT

WELL TYPE: OIL GAS LIQUID INJECTION WASTE DISPOSAL
 (IF GAS) PRODUCTION: STORAGE DEEP SHALLOW
 LOCATION: ELEVATION: Original: 1194' Proposed: 1182' WATERSHED: Goose Run of Rockcamp Run QUADRANGLE: Pullman
 DISTRICT: Union COUNTY: Ritchie
 SURFACE OWNER: James H. & Wilma J. Wilson ACREAGE: 40.089
 ROYALTY OWNER: Laurie Ann Haddox, et al LEASE NO: 919995 ACREAGE: 360
 PROPOSED WORK: DRILL CONVERT DRILL DEEPER FRACTURE OR STIMULATE PLUG OFF OLD FORMATION
 PERFORATE NEW FORMATION OTHER PHYSICAL CHANGE IN WELL (SPECIFY)
 PLUG AND ABANDON CLEAN OUT AND REPLUG TARGET FORMATION: Marcellus ESTIMATED DEPTH: TVD 6,396

WELL OPERATOR: EQT Production Company DESIGNATED AGENT: Rex C. Ray
 ADDRESS: PO Box 280 / 115 Professional Place ADDRESS: PO Box 280 / 115 Professional Place
 Bridgeport, WV 26330 Bridgeport, WV 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
<u>919995</u>			Min 1/8 pd	
	James A. Wilson, et ux	R. W. Richards		LB79/542
	R. W. Richards	J. E. Richards and C. W. Richards		LB80/78
	J. E. Richards and C. W. Richards	Bolyard Oil & Gas, LTD		LB169/136
	Bolyard Oil & Gas, LTD	Sheffield Exploration Co.		LB189/521
	Sheffield Exploration Co.	M. S. Oil Co. (69.513% of working interest) and Applied Mechanics Corp. (30.487% of working interest)		LB208/268
	M. S. Oil Co. (69.513%)	Applied Mechanics, et al		LB222/836
	Applied Mechanics, et al	FS Limited Partnership		AB274/80
	FS Limited Partnership	EQT Production Co.		AB274/102
<u>919993</u>			Min 1/8 pd	
	Effie E. Wilson and James Wilson	J.E. Richards		LB79/346
	J.E. Richards	J. E. Richards and C.W. Richards		LB79/407
	J.E. Richards and C.W. Richards	P.O. Burgy, B.S. Marshall, L.B. Burgy & Rollo Riggs		LB81/279
	P.O. Burgy, B.S. Marshall, L.B. Burgy & Rollo Riggs	J. E. Richards and C.W. Richards		LB123/303
	J. E. Richards and C.W. Richards	Applied Mechanics, et al		LB206/8
	Applied Mechanics, et al	FS Limited Partnership		AB274/80
	FS Limited Partnership	EQT Production Co.		AB274/102
<u>919998</u>			Min 1/8 pd	
	Robert D. Elder, et ux	N.M. Welch		LB81/521
	N.M. Welch	Ohio-West Virginia Oil & Gas Co.		LB81/546
	Ohio-West Virginia Oil & Gas Co.	N.M. Welch		LB82/425
	N.M. Welch	J. E. Richards and C.W. Richards		LB82/500
	J. E. Richards and C.W. Richards	Applied Mechanics, et al		LB206/8
	Applied Mechanics, et al	FS Limited Partnership		AB274/80
	FS Limited Partnership	EQT Production Co.		AB274/102
<u>919996</u>			Min 1/8 pd	
	Ruby Dotson, et al	J. E. Richards		LB80/449
	J. E. Richards	J. E. Richards and C. W. Richards		LB80/455
	J. E. Richards and C. W. Richards	Applied Mechanics, et al		LB206/8
	Applied Mechanics, et al	FS Limited Partnership		AB274/80
	FS Limited Partnership	EQT Production Co.		AB274/102

919994

Ethel M. Turner, widow
 J. E. Richards
 J. E. Richards and C. W. Richards
 Applied Mechanics, et al
 FS Limited Partnership

J. E. Richards
 J. E. Richards and C. W. Richards
 Applied Mechanics, et al
 FS Limited Partnership
 EQT Production Co.

Min 1/8 pd

LB80/451
 LB80/455
 LB206/8
 AB274/80
 AB274/102

919987

A. H. Hodge and Ona Hodge
 J. E. Richards
 J. E. Richards and C. W. Richards
 Bolyard Oil & Gas, LTD

J. E. Richards
 J. E. Richards and C. W. Richards
 Bolyard Oil & Gas, LTD
 Sheffield Exploration Co.

Min 1/8 pd

LB80/449
 LB80/455
 LB169/310
 LB189/521

Sheffield Exploration Co.

M. S. Oil Co. (69.513% of working
 interest) and Applied Mechanics Corp.
 (30.487% of working interest)

LB208/268

M. S. Oil Co. (69.513%)
 Applied Mechanics, et al
 FS Limited Partnership

Applied Mechanics, et al
 FS Limited Partnership
 EQT Production Co.

LB222/836
 AB274/80
 AB274/102

919988

Arden Wilson, et ux
 J. E. Richards
 J. E. Richards and C.W. Richards
 Applied Mechanics, et al
 FS Limited Partnership

J. E. Richards
 J. E. Richards and C. W. Richards
 Applied Mechanics, et al
 FS Limited Partnership
 EQT Production Co.

Min 1/8 pd

LB81/515
 LB80/455
 LB206/8
 AB274/80
 AB274/102

994574

Charles Cary Mossor
 Jeffery Allan Mossor
 Shirley Jean Mossor Williams
 Randall F. Synder and Debra Jo Synder
 Jacqueline Dianna Mossor Haynes

EQT Production Co.
 EQT Production Co.
 EQT Production Co.
 EQT Production Co.
 EQT Production Co.

Min 1/8 pd

LB268/361
 LB268/373
 LB268/385
 LB269/749
 LB284/508

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

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

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

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

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

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

Received
 Office of Oil & Gas
 AUG 03 2015

08/07/2015

4708510220

Well Number: 515885(PUL96H3)

Casing and Cementing			Deepest Fresh Water: 555'		
Type	Conductor	Mine Protection	Surface	Intermediate	Production
Hole Size, In.	24		17 1/2	12 3/8	8 1/2
Casing Size, OD In.	20	-	13 3/8	9 5/8	5 1/2
Casing Wall Thickness, In.	0.375	-	0.380	0.395	0.361
Depth, MD	40'	-	655'	2,566'	15,915'
Depth, TVD	40'	-	655'	2,566'	6,416'
Centralizers Used	Yes	-	Yes	Yes	Yes
Weight/Grade	81#/MC-50	-	54.5#/J-55	40#/A-500	20#/P-110
New or Used	New	-	New	New	New
Pressure Testing	-	-	20% Greater than exp. Pressure	20% Greater than exp. Pressure	20% greater than exp. fracture pressure
After Fracture Pressure Testing	-	-	-	-	20% greater than exp. shut pressure
ID, in	19.25	-	12.615	8.835	4.778
Burst (psi)	-	-	2,730	3,950	12,640
Collapse (psi)	-	-	1,130	2,570	11,100
Tension (mlbs)	-	-	514	493	587
Cement Class	-	-	-	-	H
Cement Type	Construction	-	1	1	-
Cement Yield	1.18	-	1.21	1.21	1.27/1.86
Meets API Standards	-	-	Yes	Yes	Yes
WOC Time	-	-	Min. 8 hrs	Min. 8 hrs	Min. 8 hrs
Top of Cement (Planned)	Surface	-	Surface	Surface	2,766'
Fill (ft.)	40'	-	655'	2,566'	13,150'
Percent Excess	-	-	20	20	10
Est. Volume (cu ft)	38	-	581	1,011	3,315
Est. Volume (BBLs)	7	-	103	180	590

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AUG 03 2015
08/07/2015

WEST VIRGINIA GEOLOGICAL PROGNOSIS

4708510220

v 2015.1

Horizontal Well
515885(PUL96H3)

Drilling Objectives:	Marcellus			
County:	Ritchie			
Quad:	Pullman			
Elevation:	1195 KB		1182 GL	proposed
Surface location	Northing: 262472.13	Eastng:	1578928.63	
Landing Point	Northing: 262103.57	Eastng:	1576195.66	
Toe location	Northing: 254279.37	Eastng:	1578328.9	TVD: 6416
Recommended Azimuth	164.75 Degrees	Recommended LP to TD:		TVD: 6416
				8,110'

Proposed Logging Suite:

- @ **Intermediate Casing Point:** The open hole logs need to consist of Gamma Ray, Neutron, Density, and Induction. **CONTACT JEFF DEREUME PRIOR TO LOGGING (412.328.5054)**
- @ **Pilot hole TD - Run OH logs for evaluation of uphole zones.**

An clog should be run for the first well on every horizontal well pad.
Mudloggers to be on location at kickoff point to run samples and measure gas thru both the curve and lateral sections

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

ESTIMATED FORMATION TOPS

Formation	Top (TVD)	Base (TVD)	Lithology	Comments	Top RR	Base RR
Fresh Water Zone	1	555		FW @ 341,367,398,555...	66	89
Maxton	1059	1085	Sandstone	No known coal seams	94	109
Big Lime	1116	1241	Limestone	No past, present, or future mining in the area of the well pad	124	144
Big Injun	2318	2466	Sandstone	Storage is NOT of concern	174	189
Int. csg pt	2566			Set intermediate casing 100' below base of the Big Injun Formation	942	970
Weir	2711	2732	Sandstone	No Salt Water Shows	246	260
Top Devonian	2781				288	341
-Gantz	2781	2840	Silty Sand		371	440
-Fifty foot	2882	2916	Silty Sand		422	434
-Thirty foot	2960	3010	Silty Sand		496	524
-Gordon	3043	3075	Silty Sand		615	653
-Forth Sand	3174	3226	Silty Sand		741	758
-Bayard	3266	3340	Silty Sand		793	804
-Warren	3410	3490	Silty Sand		891	915
-Speechley	3512	3584	Silty Sand		992	1026
-Balltown A	3859	4164	Silty Sand		1072	1091
-Riley	4547	4600	Silty Sand		1164	1207
-Benson	4914	4953	Silty Sand			
-Alexander	5151	5231	Silty Sand	Base of Offset Well Perforations at 5231' TVD		
-Elks	5231	6122	Gray Shales and Silts			
-Sonyea	6122	6238	Gray shale			
-Middlesex	6238	6284	Shale			
-Genesee	6284	6347	with black shale			
-Genesee	6347	6378	Black Shale			
-Tully	6378	6391	Limestone			
-Hamilton	6391	6396	calcareous shales			
-Marcellus	6396	6445	Black Shale			
-Purcell	6405	6412	Limestone			
-Lateral Zone	6416	6416		Start Lateral at 6416 ft, drill to 6416 ft		
-Cherry Valley	6426	6434	Limestone			
Onondaga	6445		Limestone			
Pilot Hole TD	6545					

Target Thickness	50 feet
Max Anticipated Rock Pressure	2190 PSI

Comments:
Note that this is a TVD prog for a horizontal well (azimuth of 164.75 degrees, target formation = Marcellus). All measurements taken from estimated KB elevation. Water and coal information estimated from surrounding well data.
Intermediate casing point is recommended 100' beneath the Big Injun to shut off any water production from the Upper Devonian sands. Intermediate casing should be cemented into the surface string, per WV regulations.
The estimated TD is the TVD landing point for the horizontal section of well, with the plan to then drill to a final TVD of 6416' at the toe of the lateral. The geologic structure is unknown at this time.

LATERAL DRILLING TOLERANCES

Mapview - Left of borehole: Deviate as little as possible left to avoid planned lateral 515883
Mapview - Right of borehole: Deviate as little as possible right to avoid planned lateral 515886
Mapview - TD: **DO NOT EXTEND** beyond recommended wellbore to avoid lease line

RECOMMENDED CASING POINTS

Fresh Water/Coal	CSG OD	13 3/8	CSG DEPTH:	655	100' below FW
Intermediate 1:	CSG OD	9 5/8	CSG DEPTH:	2566	below Big Injun
Production:	CSG OD	5 1/2	CSG DEPTH:	@ TD	

J. Dereume/ E. Glick	Author	Date Created	Plat Date	
PUL96 prog created:	EVG	2/3/2015	1/21/2015	
revised with new H number	EVG	5/13/2015		
updated with plan	EVG	5/18/2015	5/4/2015	
lateral lengthen	EVG	7/7/2015	6/23/2015	

- COAL
- PILOT HOLE
- CASING PROGRAM
- STORAGE

Received
Office of Oil & Gas
AUG 03 2015

gal

08/07/2015

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

Date of Notice Certification: 5/27/2015

API No. 47 - 085 - 0
Operator's Well No. 515885
Well Pad Name: PUL96

Notice has been given:

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

State:	<u>WV</u>	UTM NAD 83 Easting:	<u>501,217.10</u>
County:	<u>Ritchie</u>	UTM NAD 83 Northing:	<u>4,340,209.74</u>
District:	<u>Union</u>	Public Road Access:	<u>CR 7/4</u>
Quadrangle:	<u>Pullman</u>	Generally used farm name:	<u>James H & Wilma J Wilson</u>
Watershed:	<u>Goose Run of Rockcamp Run</u>		

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

<p>Pursuant to West Virginia Code § 22-6A, the Operator has attached proof to this Notice Certification that the Operator has properly served the required parties with the following:</p> <p>*PLEASE CHECK ALL THAT APPLY</p> <p><input type="checkbox"/> NOTICE OF SEISMIC ACTIVITY or <input checked="" type="checkbox"/> NOTICE NOT REQUIRED BECAUSE NO SEISMIC ACTIVITY WAS CONDUCTED</p> <p><input type="checkbox"/> NOTICE OF ENTRY FOR PLAT SURVEY or <input checked="" type="checkbox"/> NO PLAT SURVEY WAS CONDUCTED</p> <p><input checked="" type="checkbox"/> NOTICE OF INTENT TO DRILL or <input type="checkbox"/> NOTICE NOT REQUIRED BECAUSE NOTICE OF ENTRY FOR PLAT SURVEY WAS CONDUCTED OR</p> <p><input type="checkbox"/> WRITTEN WAIVER BY SURFACE OWNER (PLEASE ATTACH)</p> <p><input checked="" type="checkbox"/> NOTICE OF PLANNED OPERATION</p> <p><input checked="" type="checkbox"/> PUBLIC NOTICE</p> <p><input checked="" type="checkbox"/> NOTICE OF APPLICATION</p>	<p align="center">OOG OFFICE USE ONLY</p> <p><input type="checkbox"/> RECEIVED/NOT REQUIRED</p> <p><input type="checkbox"/> RECEIVED</p> <p align="center">57098510220</p> <p><input type="checkbox"/> RECEIVED/NOT REQUIRED</p> <p><input type="checkbox"/> RECEIVED</p> <p><input type="checkbox"/> RECEIVED</p> <p><input type="checkbox"/> RECEIVED</p>
---	--

Received
Office of Oil & Gas
MAY 28 2015

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.

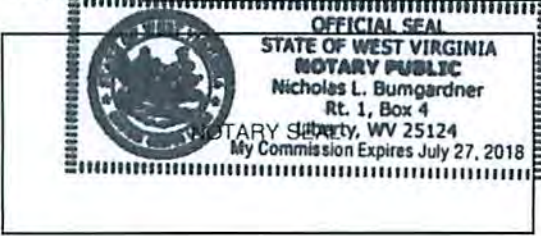
08/07/2015

Certification of Notice is hereby given:

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

Well Operator: EQT Production Company
By: Victoria J. Roark
Its: Permitting Supervisor
Telephone: 304-848-0076

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



Subscribed and sworn before me this 26 day of MAY, 2015

[Handwritten Signature]

Notary Public

My Commission Expires 7/27/2018

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.

4708510220

Received
Office of Oil & Gas
MAY 28 2015

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

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

Date of Notice: 5/27/2015 Date Permit Application Filed: 5/27/2015

Notice of:

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

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

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

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

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

SURFACE OWNER(s)

Name: Wilma J Wilson
Address: 214 N Church St
Harrisville WV 26362

Name: James Douglas Wilson
Address: 214 N Church St
Harrisville WV 26362
See Attached

SURFACE OWNERS(s) (Road and/or Other Disturbance)

Name: Wilma J Wilson
Address: 214 N Church St
Harrisville WV 26362
0

Name: James Douglas Wilson
Address: 214 N Church St
Harrisville WV 26362
See Attached

SURFACE OWNER(s) (Impoundments/Pits)

Name: Wilma J Wilson
Address: 214 N Church St
Harrisville WV 26362
See Attached

COAL OWNER OR LESSEE

Name: David R & Judy Wilson
Address: 42 School St
Harrisville WV 26362
0

See attached for additional coal owners.

COAL OPERATOR
Name: 0
Address: 0
0
0

SURFACE OWNER OF WATER WELL AND/OR WATER PURVEYOR(s)

Name: 0
Address: 0
0
0

OPERATOR OF ANY NATURAL GAS STORAGE FIELD

Name: 0
Address: 0
0
0

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MAY 28 2015

*Please attach additional forms if necessary

Notice is hereby given:

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

This Notice Shall Include:

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

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

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

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

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

Well Location Restrictions

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

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

Water Well Testing:

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

Water Testing Laboratories:

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

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

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

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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

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Office of Oil & Gas
MAY 28 2015

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

Time Limits and Methods for Filing Comments.

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

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

Comment Requirements

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

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.

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Notice is hereby given by:

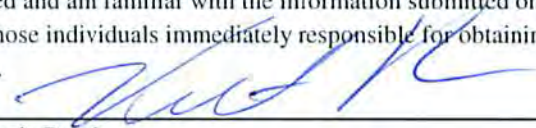
Well Operator: EQT Production Company
Telephone: 304-848-0082
Email: Vroark@eqt.com

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

Oil and Gas Privacy Notice:

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

I certify under penalty of law that I have personally examined and am familiar with the information submitted on this application form and all attachments, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate and complete.



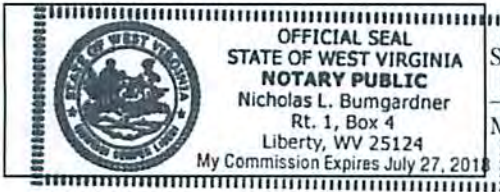
By: Victoria Roark

Its: Permitting Supervisor

Subscribed and sworn before on 26 day of MAY, 2015

 Notary Public

My Commission Expires 7/27/2018



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MAY 28 2015

WW6-A

AdditionalSurface Owners:

Robert Brian Wilson ✓
665 Nicolette Rd
Parkersburg WV 26104

James Bardley Wilson ✓
665 Nicolette Rd
Parkersburg WV 26104

Ian David Wilson ✓
80 Pullman Rd
Harrisville, WV 26362

David R Wilson & Judy Wilson ✓
42 School St
Harrisville WV 26362

Jean W Moore ✓
1590 Rock Camp Rd
Harrisville WV 26362

AdditionalSurface Owners: Access Road

Robert Brian Wilson ✓
665 Nicolette Rd
Parkersburg WV 26104

James Bradley Wilson ✓
665 Nicolette Rd
Parkersburg WV 26104

Ian David Wilson ✓
80 Pullman Rd
Harrisville, WV 26362

David R Wilson & Judy Wilson ✓
42 School St
Harrisville WV 26362

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MAY 28 2015

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Additional Surface Owners: Pits/Impoundments

James Douglas Wilson ✓
214 N Church St
Harrisville WV 26362

Robert Brian Wilson ✓
665 Nicolette Rd
Parkersburg WV 26104

James Bradley Wilson ✓
665 Nicolette Rd
Parkersburg WV 26104

Ian David Wilson ✓
80 Pullman Rd
Harrisville, WV 26362

David R Wilson & Judy Wilson ✓
42 School St
Harrisville WV 26362

Additional Coal Owners

James Douglas Wilson ✓
214 N Church St
Harrisville WV 26362

Wilma J Wilson ✓
214 N Church St
Harrisville WV 26362

Jean Moore ✓
1590 Rock Camp Rd
Harrisville WV 26362

Karen Roche ✓
3131 Ellenboro Rd
Harrisville WV 26362

Laurie Ann Haddox ✓
1407 Pullman Rd
Harrisville WV 26362

Linda D Hall ✓
406 South Spring St
Harrisville WV 26362

Mary E Props ✓
579 Lambs Run
Harrisville WV 26362

Oleta Jane Wilson ✓
665 Nicolette Rd
Parkersburg WV 26104

Oma Jean Wilson ✓
886 Cherry Rd
Massillon OH 44647

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MAY 28 2015

08/07/2015

Topo Quad: Pullman 7.5'

Scale: 1" = 2000'

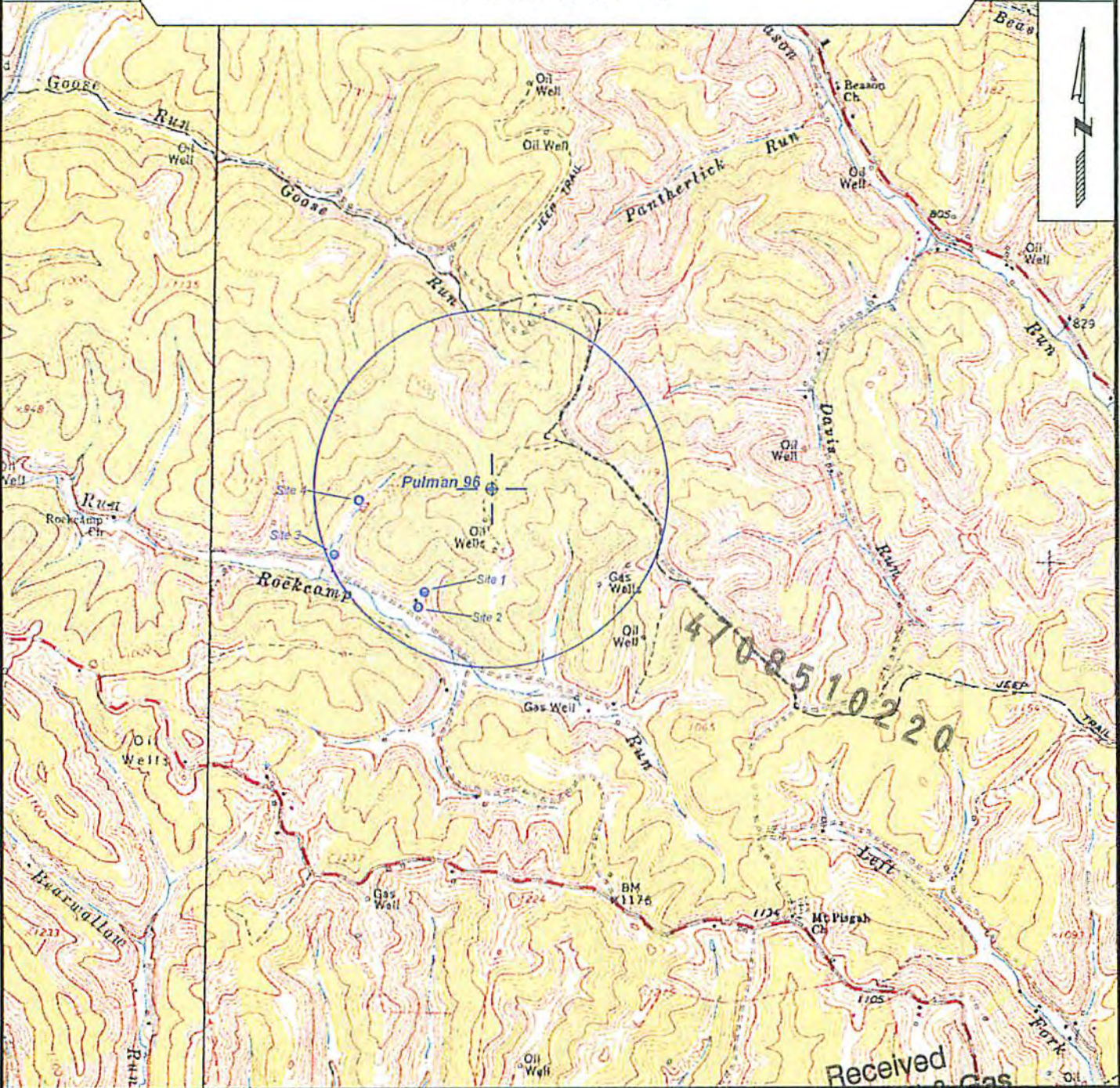
County: Ritchie

Date: December 12, 2014

District: Union

Project No: 243-38-U-14

PULLMAN 96



SURVEYING AND MAPPING SERVICES PERFORMED BY:
ALLEGHENY SURVEYS, INC.
 1-800-482-8606
 237 Birch River Road
 Birch River, WV 26610
 PH: (304) 649-8606
 FAX: (304) 649-8608

PREPARED FOR:
 Office of Oil & Gas
EQT Production Company
 P.O. Box 280
 Bridgeport, WV 26330

STATE OF WEST VIRGINIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS
NOTICE OF INTENT TO DRILL

Pursuant to W. Va. Code § 22-6A-16(b), the Notice of Intent to Drill is only required if the notice requirements of W. Va. Code § 22-6A-10(a) have NOT been met or if the Notice of Intent to Drill requirement has NOT been waived in writing by the surface owner.

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

Date of Notice: 4/24/2015 **Date Permit Application Filed:** 5/4/15

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

HAND DELIVERY **CERTIFIED MAIL RETURN RECEIPT REQUESTED**

Pursuant to W. Va. Code § 22-6A-16(b), at least ten days prior to filing a permit application, an operator shall, by certified mail return receipt requested or hand delivery, give the surface owner notice of its intent to enter upon the surface owner's land for the purpose of drilling a horizontal well: Provided, That notice given pursuant to subsection (a), section ten of this article satisfies the requirements of this subsection as of the date the notice was provided to the surface owner: Provided, however, That the notice requirements of this subsection may be waived in writing by the surface owner. The notice, if required, shall include the name, address, telephone number, and if available, facsimile number and electronic mail address of the operator and the operator's authorized representative.

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

Name: Wilma J Wilson
Address: 214 N Church St
Harrisville WV 26362

Name: James Douglas Wilson
Address: 214 N Church St
Harrisville WV 26362

Notice is hereby given:

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

State: WV
County: Ritchie
District: Union
Quadrangle: Pullman
Watershed: Goose Run of Rockcamp Run

UTM NAD 83 **Easting:** 501,217.10
Northing: 4,340,209.74
Public Road Access: CR 7/4
Generally used farm name: James H & Wilma J Wilson

This Notice Shall Include:

Pursuant to West Virginia Code § 22-6A-16(b), this notice shall include the name, address, telephone number, and if available, facsimile number and electronic mail address of the operator and the operator's authorized representative. Additional information related to horizontal drilling may be obtained from the Secretary, at the WV Department of Environmental Protection headquarters, located at 601 57th Street, SE, Charleston, WV 25304 (304-926-0450) or by visiting www.dep.wv.gov/oil-and-gas/pages/default.aspx

Notice is hereby given by:

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

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

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.

08/07/2015

STATE OF WEST VIRGINIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS
NOTICE OF INTENT TO DRILL

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

Date of Notice: 4/24/2015 Date Permit Application Filed: 5/4/15

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

Pursuant to W. Va. Code § 22-6A-16(b), at least ten days prior to filing a permit application, an operator shall, by certified mail return receipt requested or hand delivery, give the surface owner notice of its intent to enter upon the surface owner's land for the purpose of drilling a horizontal well: Provided, That notice given pursuant to subsection (a), section ten of this article satisfies the requirements of this subsection as of the date the notice was provided to the surface owner: Provided, however, That the notice requirements of this subsection may be waived in writing by the surface owner. The notice, if required, shall include the name, address, telephone number, and if available, facsimile number and electronic mail address of the operator and the operator's authorized representative.

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

Name: Robert Brian Wilson
Address: 665 Nicolette Rd
Parkersburg WV 26104

Name: James Bardley Wilson
Address: 665 Nicolette Rd
Parkersburg WV 26104

Notice is hereby given:

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

State: WV
County: Ritchie
District: Union
Quadrangle: Pullman
Watershed: Goose Run of Rockcamp Run

UTM NAD 83 Easting: 501,221.33
Northing: 4,340,217.84
Public Road Access: CR 7/4
Generally used farm name: James H & Wilma J Wilson

This Notice Shall Include:

Pursuant to West Virginia Code § 22-6A-16(b), this notice shall include the name, address, telephone number, and if available, facsimile number and electronic mail address of the operator and the operator's authorized representative. Additional information related to horizontal drilling may be obtained from the Secretary, at the WV Department of Environmental Protection headquarters, located at 601 57th Street, SE, Charleston, WV 25304 (304-926-0450) or by visiting www.dep.wv.gov/oil-and-gas/pages/default.aspx

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Facsimile: 304-848-0041

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

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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 of your personal information, please contact DEP's Chief Privacy Officer at depprivacyofficer@wv.gov.

08/07/2015

STATE OF WEST VIRGINIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS
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Delivery method pursuant to West Virginia Code § 22-6A-16(b)

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

Name: Ian David Wilson
Address: 80 Pullman Rd
Harrisville, WV 26362

Name: David R Wilson & Judy Wilson
Address: 42 School St
Harrisville WV 26362

Notice is hereby given:

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

State: WV UTM NAD 83 Easting 501,221.33
County: Ritchie Northing 4,340,217.84
District: Union Public Road Access: CR 7/4
Quadrangle: Pullman Generally used farm name: James H & Wilma J Wilson
Watershed: Goose Run of Rockcamp Run

This Notice Shall Include:

Pursuant to West Virginia Code § 22-6A-16(b), this notice shall include the name, address, telephone number, and if available, facsimile number and electronic mail address of the operator and the operator's authorized representative. Additional information related to horizontal drilling may be obtained from the Secretary, at the WV Department of Environmental Protection headquarters, located at 601 57th Street, SE, Charleston, WV 25304 (304-926-0450) or by visiting www.dep.wv.gov/oil-and-gas/pages/default.aspx

Notice is hereby given by:

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

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

Received
Office of Oil & Gas
MAY 28 2015

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.

08/07/2015

STATE OF WEST VIRGINIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS
NOTICE OF INTENT TO DRILL

Pursuant to W. Va. Code § 22-6A-16(b), the Notice of Intent to Drill is only required if the notice requirements of W. Va. Code § 22-6A-10(a) have NOT been met or if the Notice of Intent to Drill requirement has NOT been waived in writing by the surface owner.

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

Date of Notice: 4/24/2015 Date Permit Application Filed: 5/4/15

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

Pursuant to W. Va. Code § 22-6A-16(b), at least ten days prior to filing a permit application, an operator shall, by certified mail return receipt requested or hand delivery, give the surface owner notice of its intent to enter upon the surface owner's land for the purpose of drilling a horizontal well: Provided, That notice given pursuant to subsection (a), section ten of this article satisfies the requirements of this subsection as of the date the notice was provided to the surface owner: Provided, however, That the notice requirements of this subsection may be waived in writing by the surface owner. The notice, if required, shall include the name, address, telephone number, and if available, facsimile number and electronic mail address of the operator and the operator's authorized representative.

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

Name: Jean W Moore
Address: 1590 Rock Camp Rd
Harrisville WV 26362

Name: _____
Address: _____

Notice is hereby given:

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

State: <u>WV</u>	UTM NAD 83	Easting: <u>501,221.33</u>
County: <u>Ritchie</u>		Northing: <u>4,340,217.84</u>
District: <u>Union</u>		Public Road Access: <u>CR 7/4</u>
Quadrangle: <u>Pullman</u>		Generally used farm name: <u>James H & Wilma J Wilson</u>
Watershed: <u>Goose Run of Rockcamp Run</u>		

This Notice Shall Include:

Pursuant to West Virginia Code § 22-6A-16(b), this notice shall include the name, address, telephone number, and if available, facsimile number and electronic mail address of the operator and the operator's authorized representative. Additional information related to horizontal drilling may be obtained from the Secretary, at the WV Department of Environmental Protection headquarters, located at 601 57th Street, SE, Charleston, WV 25304 (304-926-0450) or by visiting www.dep.wv.gov/oil-and-gas/pages/default.aspx

Notice is hereby given by:

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

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

5700821022
Received
Office of Oil & Gas
MAY 28 2015

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08/07/2015

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

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

Date of Notice: 5/27/2015 Date Permit Application Filed: 5/27/2015

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

CERTIFIED MAIL RETURN RECEIPT REQUESTED HAND DELIVERY

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

Notice is hereby provided to the SURFACE OWNER(s)

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

Name: Wilma J Wilson
Address: 214 N Church St
Harrisville WV 26362

Name: James Douglas Wilson
Address: 214 N Church St
Harrisville WV 26362

Notice is hereby given:

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

State: WV UTM NAD 83 Easting: 501,217.100000
County: Ritchie Northing: 4,340,209.740000
District: Union Public Road Access: CR 7/4
Quadrangle: Pullman Generally used farm name: James H & Wilma J Wilson
Watershed: Goose Run of Rockcamp Run

This Notice Shall Include:

Pursuant to West Virginia Code § 22-6A-16(c), this notice shall include: (1) A copy of this code section; (2) The information required to be provided by W. Va. Code § 22-6A-10(b) to a surface owner whose land will be used in conjunction with the drilling of a horizontal well; and (3) A proposed surface use and compensation agreement containing an offer of compensation for damages to the surface affected by oil and gas operations to the extent the damages are compensable under article six-b of this chapter. Additional information related to horizontal drilling may be obtained from the Secretary, at the WV Department of Environmental Protection headquarters, located at 601 57th Street, SE, Charleston, WV 25304 (304-926-0450) or by visiting www.dep.wv.gov/oil-and-gas/pages/default.aspx.

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

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received
Office of Oil & Gas
MAY 28 2015

WW-6A5
(1/12)

Operator Well No. 515885

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

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

Date of Notice: 5/27/2015 Date Permit Application Filed: 5/27/2015

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

CERTIFIED MAIL RETURN RECEIPT REQUESTED HAND DELIVERY

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

Notice is hereby provided to the SURFACE OWNER(s)

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

Name: Robert Brian Wilson
Address: 665 Nicolette Rd
Parkersburg WV 26104

Name: James Bradley Wilson
Address: 665 Nicolette Rd
Parkersburg WV 26104

Notice is hereby given:

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

State: WV UTM NAD 83 Easting: 501,217.100000
County: Ritchie Northing: 4,340,209.740000
District: Union Public Road Access: CR 7/4
Quadrangle: Pullman Generally used farm name: James & Wilma J Wilson
Watershed: Goose Run of Rockcamp Run

This Notice Shall Include:

Pursuant to West Virginia Code § 22-6A-16(c), this notice shall include: (1) A copy of this code section; (2) The information required to be provided by W. Va. Code § 22-6A-10(b) to a surface owner whose land will be used in conjunction with the drilling of a horizontal well; and (3) A proposed surface use and compensation agreement containing an offer of compensation for damages to the surface affected by oil and gas operations to the extent the damages are compensable under article six-b of this chapter. Additional information related to horizontal drilling may be obtained from the Secretary, at the WV Department of Environmental Protection headquarters, located at 601 57th Street, SE, Charleston, WV 25304 (304-926-0450) or by visiting www.dep.wv.gov/oil-and-gas/pages/default.aspx.

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

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Received
Office of Oil & Gas
MAY 28 2015

08/07/2015

WW-6A5
(1/12)

Operator Well No. 515885

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

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

Date of Notice: 5/27/2015 Date Permit Application Filed: 5/27/2015

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

CERTIFIED MAIL RETURN RECEIPT REQUESTED HAND DELIVERY

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

Notice is hereby provided to the SURFACE OWNER(s)

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

Name: Ian David Wilson
Address: 80 Pullman Rd
Harrisville, WV 26362

Name: David R Wilson & Judy Wilson
Address: 42 School St
Harrisville WV 26362

Notice is hereby given:

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

State: WV UTM NAD 83 Easting: 501,217.100000
County: Ritchie Northing: 4,340,209.740000
District: Union Public Road Access: 47 CR 7/4
Quadrangle: Pullman Generally used farm name: James H & Wilma J Wilson
Watershed: Goose Run of Rockcamp Run

This Notice Shall Include:

Pursuant to West Virginia Code § 22-6A-16(c), this notice shall include: (1) A copy of this code section; (2) The information required to be provided by **W. Va. Code § 22-6A-10(b)** to a surface owner whose land will be used in conjunction with the drilling of a horizontal well; and (3) A proposed surface use and compensation agreement containing an offer of compensation for damages to the surface affected by oil and gas operations to the extent the damages are compensable under article six-b of this chapter. Additional information related to horizontal drilling may be obtained from the Secretary, at the WV Department of Environmental Protection headquarters, located at 601 57th Street, SE, Charleston, WV 25304 (304-926-0450) or by visiting www.dep.wv.gov/oil-and-gas/pages/default.aspx.

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

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

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Received
Office of Oil & Gas
MAY 28 2015

08/07/2015

WW-6A5
(1/12)

Operator Well No. 515885

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

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

Date of Notice: 5/27/2015 Date Permit Application Filed: 5/27/2015

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

CERTIFIED MAIL HAND
RETURN RECEIPT REQUESTED DELIVERY

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

Notice is hereby provided to the SURFACE OWNER(s)

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

Name: Jean W Moore
Address: 1590 Rock Camp Rd
Harrisville WV 26362

Name: _____
Address: _____

Notice is hereby given:

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

State: WV UTM NAD 83 Easting: 501,217.100000
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Well Operator: EQT Production Company
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47083705
Received
Office of Oil & Gas
MAY 28 2015

08/07/2015



WEST VIRGINIA DEPARTMENT OF TRANSPORTATION

Division of Highways

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

Earl Ray Tomblin
Governor

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

February 19, 2015

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 PUL 96 Pad Site, Ritchie County

515883 PUL96H1	515884 PUL96H2	515885 PUL96H3
515886 PUL96H4	515887 PUL96H5	515888 PUL96H6
515965 PUL96H7	515966 PUL96H8	515967 PUL96H9
515977 PUL96H10		

Dear Mr. Martin,

This well site will be accessed from Permit #03-2015-0122 applied for by EQT Production Company for access to the State Road. The well site is located off of Ritchie County Route 12/3 SLS. Approved permit must be received before the start of construction.

The operator has signed a STATEWIDE OIL AND GAS ROAD MAINTENANCE BONDING AGREEMENT and provided the required Bond. This operator is currently in compliance with the DOH OIL AND GAS POLICY dated January 3, 2012.

Very Truly Yours,

Gary K. Clayton, P.E.
Regional Maintenance Engineer
Central Office O&G Coordinator

Cc: Nick Bumgardner
EQT Production Company
CH, OM, D-3, File

Received
Office of Oil & Gas
MAY 28 2015

Anticipated Frac Additives
Chemical Names and CAS numbers

<u>Material</u>	<u>Ingredient</u>	<u>CAS Number</u>
Water		
Sand	Hydrotreated light petroleum distillate	14808-60-7
Friction Reducer	Tributyl tetradecyl phosphonium chloride	64742-47-8
Biocide	Ammonium chloride	81741-28-8
Scale Inhibitor	Hydrochloric Acid	12125-02-9
15% Hydrochloric Acid	Propargyl Alcohol	7647-01-0
Corrosion Inhibitor	Methanol	107-19-7
Corrosion Inhibitor	Guar Gum	67-56-1
Gelling Agent	Sodium Persulfate	9000-30-0
Oxidizing Breaker	Potassium Carbonate	7775-27-1
Buffering Agent		584-08-7

4708510220

Received
Office of Oil & Gas
MAY 28 2015

08/07/2015

4708510220

PUL-96 WELL PAD EXISTING CONDITIONS SITE PLAN

Received
 Office of Oil & Gas



JUN 04 2015



Allegheny Surveys Inc.
 P. O. Box 438
 237 Birch River Road
 Birch River, WV 26610
 304-649-8606



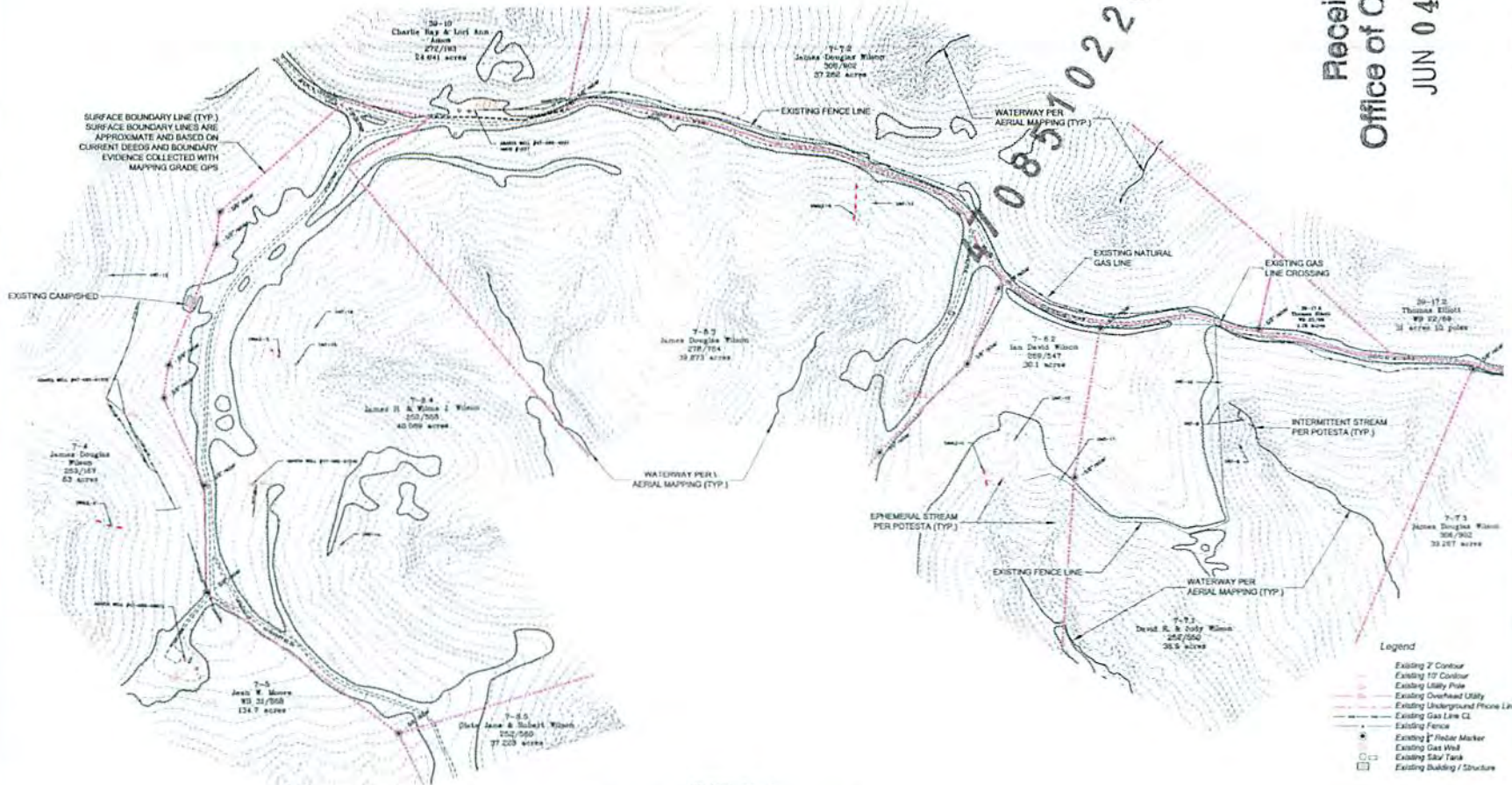
Hornor
 Bros. Engineers
 Civil, Mining, Environmental and
 Consulting Engineering
 1000 West Virginia Ave., Martinsburg, WV 26001



THIS DOCUMENT
 PREPARED FOR
 EQT PRODUCTION
 COMPANY

EXISTING SITE CONDITIONS
 PUL 96
 WELL PAD SITE
 CLAY & UNION DISTRICTS
 RITCHIE COUNTY, WV

one



DATE	REVISIONS	Date: 1/13/2013
4.13.15	UPDATED DELINEATIONS TO ONE'S RECEIVED IN FEB. 2015	Scale: 1" = 150'
		Designed By: JLF
		File No: 150220
		Page: 1 of 11

4708510220

Schedule of Quantities		
PUL IN WELL PAD		
Item Description	UNIT	QUANTITY
1. Clearing, Grubbing, E & S Controls		
A. Clearing & Grubbing	AC	18.48
B. Perimeter Berms	LS	1,563
C. 24" Silt Sock of Silt Fence	LF	6,770
D. Super Silt Fence	LF	62
E. Straw Water	LF	6,205
F. Slope Erosion Control Matting	SY	81,390
2. Excavation (Cut Only)		
A. Construction Entrance	TA	2
B. Drill Pad	CY	38,128
C. Flow Back Pit	CY	24,880
D. Completion Pit	CY	68,447
E. Main Access Road	CY	4,893
F. Completion Pit Access Road & Truck Turnaround	CY	479
G. Flowback Pit Access Road & Manifold / Truck Around	CY	4,539
H. Topsoil	CY	12,850
I. Diversion Ditch (S)	LF	1,709
1. Roadside Ditch	LF	114
K. Ditch Lining (Access Road)		
J. Rip Rap	SY	0
L. Synthetic Matting (TRM)	SY	134
M. Jute Matting	SY	0
N. Drill Pad Pump	EA	8
O. 1" Connecting Pipe	LF	160
3. Stone		
A. 6" #1 Rip Rap (Inlet/Outlets)	TONS	183
B. #1 Stone (Ditch Checks)	TONS	23
C. #1 Stone (Rock Exposed)	TONS	0
4. Aggregate Surfacing		
A. Drill Pad Geotextile Fabric (Terra Tex HFG-17)	SY	15,144
B. Drill Pad 1" Minus Crusher Run Aggregate (2")	TONS	1,611
C. Drill Pad 6" Minus Crusher Run Aggregate (8")	TONS	5,310
D. Access Roads 1" Minus Crusher Run Aggregate (2")	TONS	113
E. Access Roads 6" Minus Crusher Run Aggregate (8")	TONS	1,778
F. Access Roads Geotextile Fabric (Terra Tex HFG-17)	SY	1,042
G. Comp. Pit Pad 1" Minus Crusher Run Aggregate (2")	TONS	171
H. Comp. Pit Pad 6" Minus Crusher Run Aggregate (8")	TONS	683
I. Comp. Pit Pad Geotextile Fabric (Terra Tex HFG-17)	SY	1,626
J. Flowback / TA Pad 1" Minus Crusher Run Aggregate (2")	TONS	197
K. Flowback / TA Pad 6" Minus Crusher Run Aggregate (8")	TONS	773
L. Flowback / TA Pad Geotextile Fabric (Terra Tex HFG-17)	SY	1,840
5. Flow Back Pit Liner - 60 mil.		
A. (2nd) 60 mil Layer	SY	2,839
B. (1st) 60 mil Under Layment	SY	2,839
6. Completion Back Pit Liner - 60 mil		
A. (2nd) 60 mil Layer	SY	8,977
B. (1st) 60 mil Under Layment	SY	8,977
7. Road Culverts (3 Total)		
A. 15" CMP OR HDPE (S)	LF	30
B. 30" CMP OR HDPE (S)	LF	0
C. 48" CMP OR HDPE (S)	LF	0
8. A. Hydro Seeding		
AC		16.81
9. Fence and Gates		
A. Woven Wire Fence	LF	1,738
B. 24" Double Swing Gate	EA	2
10. Reclamation		
AC		13.88
TOTAL		

L O D AREAS	
DESCRIPTION	AREAS (ACRES)
WELL PAD ACCESS ROAD	2.55
WELL PAD	8.48
FLOWBACK PIT	2.00
FLOWBACK MANIFOLD / TURNAROUND	0.50
COMPLETION PIT ACCESS & TURNAROUND	1.34
COMPLETION PIT	4.57
COMPLETION PIT SPOIL STOCKPILES	3.49
TOP SOIL STOCKPILE	2.71
FLOWBACK SPOIL STOCKPILE	2.49
EXCESS SPOIL STOCKPILE	1.55
TIMBER & BRUSH STORAGE	1.32
TOTAL	28.09
TOTAL WOODED AREA	16.48

GRADING VOLUMES			
DESCRIPTION	CUT (CY)	FILL (CY)	NET (CY)
WELL PAD ACCESS ROAD	4,893	1,917	976
WELL PAD	38,128	24,363	11,965
FLOWBACK PIT	68,447	15,873	52,574
COMPLETION PIT	24,880	1,817	23,063
COMPLETION PIT ACCESS / WTA	479	17,843	17,364
FLOWBACK PIT ACCESS / MANIFOLD	4,539	1,850	2,789
COMP / WTA STOCKPILE	0	41,720	41,720
FLOWBACK STOCKPILE	0	22,585	22,585
EXCESS MATERIAL STOCKPILE	0	8,120	8,120
TOPSOIL STOCKPILE	12,850	0	12,850
TOTAL	154,236	141,386	12,850

NOTES

- TOPSOIL QUANTITY FOR THIS SITE IS ESTIMATED AT A UNIFORM THICKNESS OF 8" OVER THE ENTIRE EXCAVATED AREA. ACTUAL QUANTITY MAY VARY.
- AREAS RECEIVING JUTE MATTING AND SYNTHETIC MATTING (TRM) ARE TO BE SEEDED, LIMED AND FERTILIZED PRIOR TO INSTALLATION OF MATERIALS.
- ALL PROPOSED SLOPES TO BE 2:1 EXCEPT WHERE NOTED.

The earthwork quantities provided are an estimate for consideration. The quantities shown may be greater or less than actually excavated. The engineer is not responsible for variances from the estimated quantities and does not certify to their accuracy.

GRADING FACTORS	
CUT SLOPE	2:1
FILL SLOPE	2:1
CUT SWELL FACTOR	1:05
TOP SOIL SWELL FACTOR	1:20
FILL SHRINK FACTOR	1:00
WELL PAD ELEVATION:	1182.00'

REV	FLOWBACK PIT STORAGE				AC FT	GALLONS
	CY	BARRELS	AC FT	GALLONS		
1163	0	0	0	0	0	0
1164	2616	37	465	19024		
1165	6246	711	1112	46721		
1166	9882	166	1760	73922		
1167	35102	559	3690	112970	0.347	
1168	20132	753	8621	352093	0.467	
1169	27414	8015	4883	205070	0.679	
1170	34536	1278	6245	254123	0.792	
1171	41738	1621	7793	327831	1.005	
1172	53032	1963	9441	390543	1.217	
1173	64710	2397	11524	466367	1.486	
1174	76410	2880	13808	571565	1.754	0.200
1175	90846	3365	16379	679173	2.088	0.311
1176	105282	3899	18750	787561	2.417	0.463
1177	121742	4546	21860	919171	2.818	1.004
1178	140202	5399	24960	1048780	3.219	1.464
1179	160974	5962	28669	1204165	3.615	1.941
1180	181746	6791	32768	1395950	4.172	2.418

REV	COMPLETION PIT STORAGE				AC FT	GALLONS
	CY	BARRELS	AC FT	GALLONS		
1113	0	0	0	0	0.050	0
1112	27,885	3,033	4,566	208,594	0.640	0
1111	18,096	2,151	3,345	144,512	1.131	0
1114	90,453	4,358	16,144	678,159	2.001	0
1115	125,670	4,854	22,181	880,074	2.485	0
1116	161,177	5,044	23,064	1,120,094	1.746	0
1117	201,310	5,330	26,708	1,570,859	4.662	0
1118	246,281	5,114	43,876	1,842,808	5.649	0.200
1119	291,562	10,799	53,929	2,181,178	6.934	1.045
1120	335,885	12,580	60,332	2,542,508	7.803	2.153
1121	391,842	14,484	69,846	2,975,117	8.978	3.128
1122	445,185	16,488	79,365	3,380,204		
1123	502,126	18,629	89,861	3,752,547	10.220	4.571
1124	562,557	20,845	100,184	4,206,305	11.512	5.883
1125	625,950	23,183	111,478	4,682,435	12.970	7.265
1126	692,577	25,651	123,444	5,180,819	14.499	10.250
1127	762,510	28,243	135,799	5,701,952	16.105	14.854
1128	835,811	30,956	148,895	6,252,354	17.848	19.530

CONSTRUCTION NOTE:

CONSTRUCTION OF ALL FILL EMBANKMENTS (INCLUDING STOCKPILES) REQUIRE TOE KEY BENCHES AND SIDEHILL BENCHES (SEE DETAILS 24, 25 & 26)

DATE	REVISIONS	Date
		1/13/2015
		Scale: N/A
		Prepared by: JSM
		File No: 4708510220
		Page: 4 of 21



Allegheny Surveys Inc.
P. O. Box 438
237 Birch River Road
Birch River, WV 26610
304-649-8600



Hornor Bros. Engineers
Civil, Mining, Environmental and
Construction Engineering
1000 1st Ave. SW, Ste. 1000
Martinsburg, WV 26150



THIS DOCUMENT
PREPARED FOR
EQT PRODUCTION
COMPANY

SCHEDULE OF QUANTITIES - GRADING
PUL IN WELL PAD
WELL PAD SITE
CLAY & UNION DISTRICTS
RITCHIE COUNTY, WV

Received
Office of Oil & Gas

JUN 04 2015

4708510220

PUL 96 WELL PAD FINAL SITE DESIGN

Received
Office of Oil & Gas
JUN 04 2015



Alegheny Surveys Inc
P.O. Box 438
237 Birch River Road
Birch River, WV 26610
304-649-8666



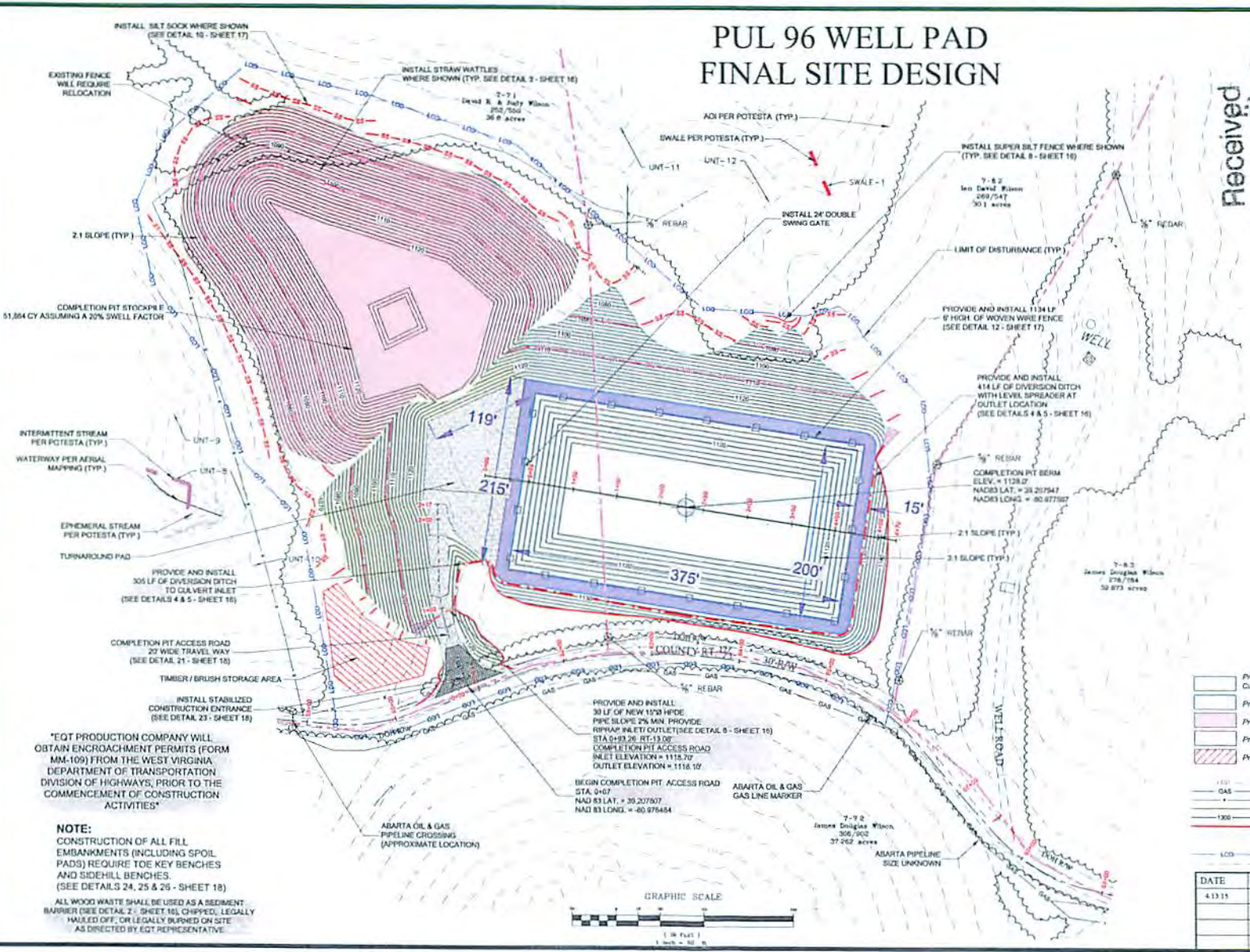
Hornor
James Douglas Wilson
Civil Engineer
Charleston, WV
Professional Seal No. 12124



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PREPARED FOR
EQT PRODUCTION
COMPANY

FINAL SITE DESIGN
PUL 96
WELL PAD SITE
CLAY & UNION DISTRICTS
RITCHIE COUNTY, WV

DATE	REVISIONS	DATE
4.13.15	UPDATED DELINEATIONS TO ONES RECEIVED IN FEB. 2015	1/13/2015
		Scale: 1"=50'
		Designed by: JSC
		File No: 15010220
		Page: 7 of 11



"EQT PRODUCTION COMPANY WILL OBTAIN ENCROACHMENT PERMITS (FORM MM-109) FROM THE WEST VIRGINIA DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS, PRIOR TO THE COMMENCEMENT OF CONSTRUCTION ACTIVITIES"

NOTE:
CONSTRUCTION OF ALL FILL EMBANKMENTS (INCLUDING SPOIL PADS) REQUIRE THE KEY BENCHES AND SIDEHILL BENCHES. (SEE DETAILS 24, 25 & 26 - SHEET 18)
ALL WOOD WASTE SHALL BE USED AS A SEDIMENT BARRIER (SEE DETAIL 2 - SHEET 18), CHIPPED, LEGALLY HAULED OFF, OR LEGALLY BURNED ON SITE AS DIRECTED BY EQT REPRESENTATIVE



Legend

[Line Style]	Proposed Road / Turnaround Cut & Fill Areas
[Line Style]	Proposed Pit Areas
[Line Style]	Proposed Spoil Area
[Line Style]	Proposed Stored Areas
[Line Style]	Proposed Timber / Brush Storage Areas
[Line Style]	Existing 2' Contour
[Line Style]	Existing 10' Contour
[Line Style]	Existing Gas Line CL
[Line Style]	Existing Fence
[Line Style]	Proposed 2' Contour
[Line Style]	Proposed 10' Contour
[Line Style]	Proposed Cut Slope Line
[Line Style]	Proposed Fill Slope Line
[Line Style]	Existing ACl
[Line Style]	Proposed LOD
[Line Style]	Approximate DCH RW

2-11

4708510220

PUL 96 WELL PAD FINAL SITE DESIGN

Received
Office of Oil & Gas
JUN 4 2015



Allegheny Surveys Inc.
P.O. Box 438
237 Birch River Road
Birch River, WV 26610
304-649-8606



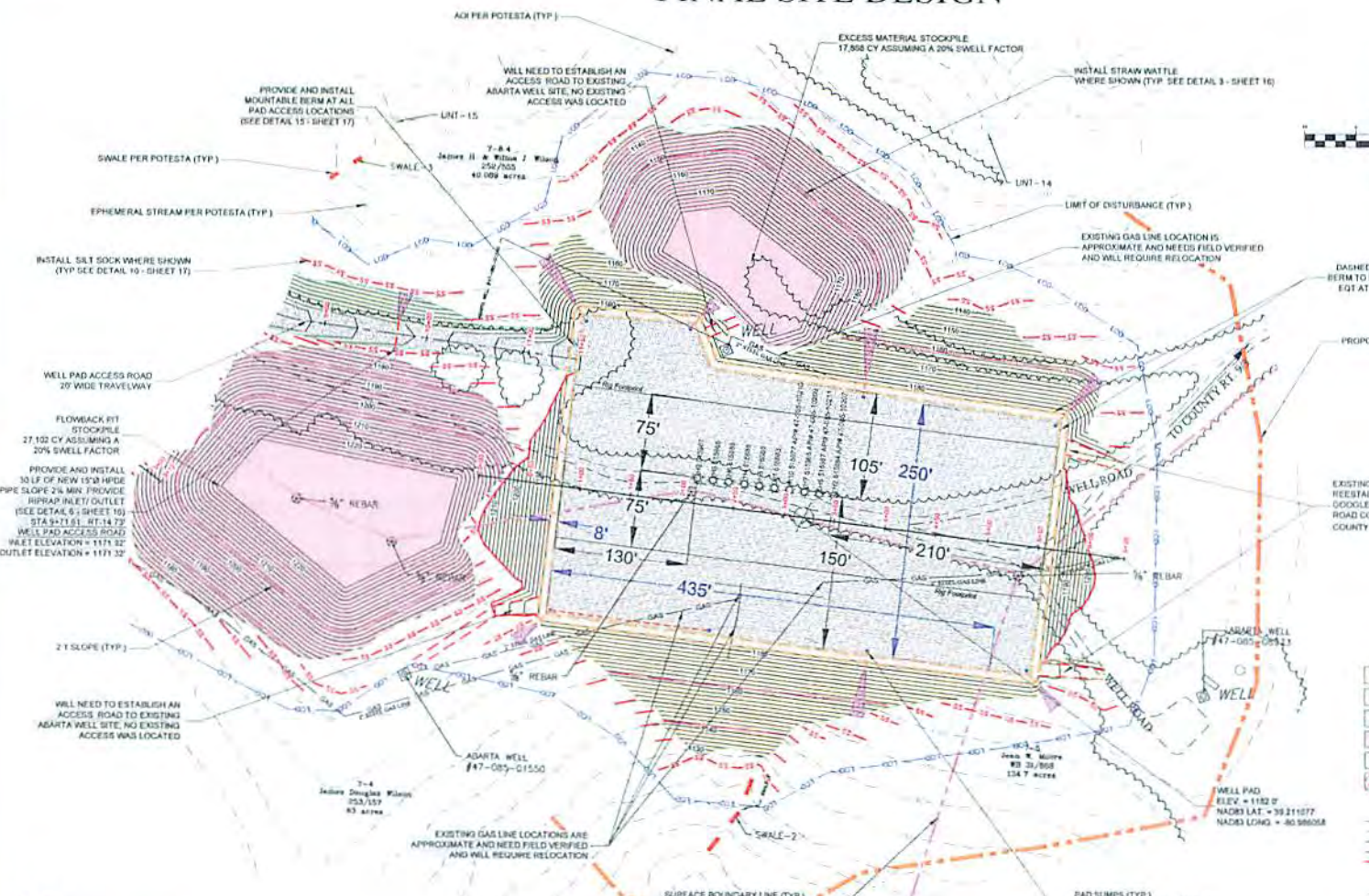
Hornor Bros. Engineers
Professional Engineer
Civil
1000 1/2 West Virginia Ave., Suite 200
Martinsburg, WV 26150



THIS DOCUMENT
IS PREPARED FOR
EQUATEX TRIM
COMPANY

FINAL SITE DESIGN
PUL 96
WELL PAD SITE
CLAY & UNION DISTRICTS
RITCHIE COUNTY, WV

DATE	REVISIONS	Date
4/13/15	UPDATING DIMENSIONS TO FIELD RECORDED INSTRUMENT CORRECT AND VERIFY DATA	1/13/2015
4/23/15		Scale 1"=50'
		Project No. 106
		File No. 106-106
		Page 1 of 31



NOTE:
CONSTRUCTION OF ALL FILL EMBANKMENTS (INCLUDING SPOIL PADS) REQUIRE TOE KEY BENCHES AND SIDEHILL BENCHES (SEE DETAILS 24, 25 & 26 - SHEET 18)

ALL WOOD WASTE SHALL BE USED AS A SEDIMENT BARRIER (SEE DETAIL 2 - SHEET 18), CHIPPED, LEGALLY HAULED OFF, OR LEGALLY BURNED ON SITE AS DIRECTED BY EQT REPRESENTATIVE

SURFACE BOUNDARY LINE (TYP)
SURFACE BOUNDARY LINES ARE APPROXIMATE AND BASED ON CURRENT DEEDS AND BOUNDARY EVIDENCE COLLECTED WITH MAPPING GRADE GPS

PAD SUMPS (TYP)
SEE DETAILS 14 & 19 - SHEET 17
SUMP OUTLET PROTECTION TO EXTEND TO TOE OF FILL SLOPE

- Legend**
- Proposed Well Pad Cut & Fill Area
 - Proposed Road / Turnaround Cut & Fill Area
 - Proposed Fill Area
 - Proposed Spill Area
 - Proposed Storage Areas
 - Proposed Timber / Bush Storage Area
 - Existing 2' Contour
 - Existing 10' Contour
 - Existing Gas Line CL
 - Existing Fence
 - Proposed 2' Contour
 - Proposed 10' Contour
 - Proposed Cut Slope Line
 - Proposed Fill Slope Line
 - Existing ACl
 - Proposed LOD
 - Approximate DCH RW

Handwritten: Done 6-1-15

PUL 96 FINAL SITE DESIGN, CONSTRUCTION PLANS, & EROSION & SEDIMENT CONTROL PLANS EQT PRODUCTION COMPANY

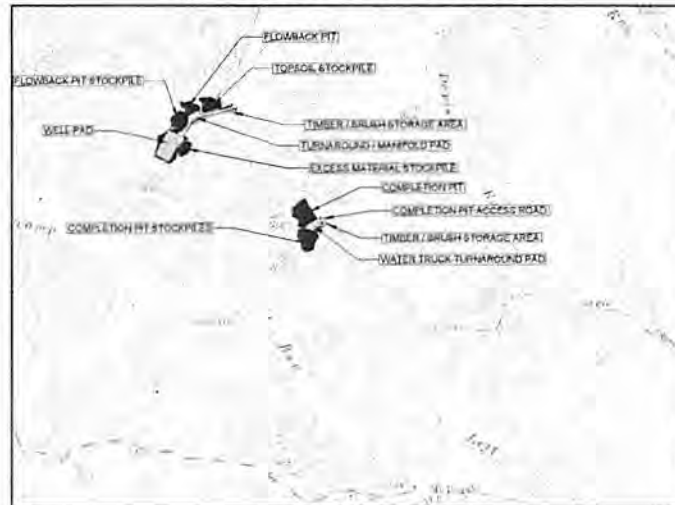


FLOODPLAIN CONDITIONS	
DO SITE CONSTRUCTION ACTIVITIES TAKE PLACE IN FLOODPLAIN:	N/A
PERMIT NEEDED FROM COUNTY FLOODPLAIN COORDINATOR:	N/A
REG-AS STUDY COMPLETED:	N/A
FLOODPLAIN SHOWN ON DRAWINGS:	N/A
FORM MAP NUMBER(S) FOR SITE:	S4103C0185C
ACREAGES OF CONSTRUCTION IN FLOODPLAIN:	N/A

NO WETLANDS OR STREAMS ARE IMPACTED

PROPOSED WELL LEGEND

- H9 515967 - LAT: 39 211306 / LONG: -80 985804
- H8 515966 - LAT: 39 211269 / LONG: -80 985829
- H6 515888 - LAT: 39 211233 / LONG: -80 985853
- H4 515886 - LAT: 39 211196 / LONG: -80 985878
- H3 515885 - LAT: 39 211160 / LONG: -80 985902
- H1 515883 - LAT: 39 211123 / LONG: -80 985927
- H10 515977 - LAT: 39 211087 / LONG: -80 985951
- H7 515968 - LAT: 39 211050 / LONG: -80 985976
- H5 515887 - LAT: 39 211014 / LONG: -80 986000
- H2 515884 - LAT: 39 210977 / LONG: -80 986025



PROJECT MAP GRID

0 500 1000 1500

SITE LOCATIONS		
NAME	Easting	Northing
Beginning of Completion Pit Access Road	18 20 767	40 87484
Center of Completion Pit	18 20 767	40 87767
Beginning of Well Pad Access Road	18 21 121	40 88 000
Center of Completion Pit	18 21 058	40 88 739
Center of Well Pad	18 21 077	40 88 976



1 INCH = 1 MILE

West Virginia Coordinate System of 1983
State Plane Grid North
Elevation: NAVD83
Established By Survey Grade GPS

AFFECTED PRIORITIES CLAY & LAMON DISTRICTS - PUTNE COUNTY, WV

<p>TM 7 - PUL 8 200 ACRES 20 25 000 157 25 ACRES SITE DISTURBANCE</p> <p>FLOWBACK PIT - 1.19 ACRES FLOWBACK PIT ACCESS ROAD - 1.19 ACRES WELL PAD - 0.8 ACRES TOTAL DISTURBANCE - 3.18 ACRES TIMBER REMOVAL - 1.19 ACRES</p>	<p>TM 7 - PUL 8 200 ACRES 20 25 000 157 25 ACRES SITE DISTURBANCE</p> <p>COMPLETION PIT - 1.19 ACRES TOTAL DISTURBANCE - 1.19 ACRES TIMBER REMOVAL - 1.19 ACRES</p>
<p>TM 7 - PUL 8 200 ACRES 20 25 000 157 25 ACRES SITE DISTURBANCE</p> <p>WELL PAD ACCESS ROAD - 0.8 ACRES TOTAL DISTURBANCE - 0.8 ACRES TIMBER REMOVAL - 0.8 ACRES</p>	<p>TM 7 - PUL 8 200 ACRES 20 25 000 157 25 ACRES SITE DISTURBANCE</p> <p>WELL PAD ACCESS ROAD - 0.8 ACRES TOTAL DISTURBANCE - 0.8 ACRES TIMBER REMOVAL - 0.8 ACRES</p>
<p>TM 7 - PUL 8 200 ACRES 20 25 000 157 25 ACRES SITE DISTURBANCE</p> <p>COMPLETION PIT ACCESS ROAD & TURNAROUND - 1.19 ACRES COMPLETION PIT STOCKPILE - 1.19 ACRES FLOWBACK PIT STOCKPILE - 1.19 ACRES TOTAL DISTURBANCE - 3.57 ACRES TIMBER REMOVAL - 1.19 ACRES</p>	<p>TM 7 - PUL 8 200 ACRES 20 25 000 157 25 ACRES SITE DISTURBANCE</p> <p>WELL PAD ACCESS ROAD - 0.8 ACRES TOTAL DISTURBANCE - 0.8 ACRES TIMBER REMOVAL - 0.8 ACRES</p>
<p>TM 7 - PUL 8 200 ACRES 20 25 000 157 25 ACRES SITE DISTURBANCE</p> <p>COMPLETION PIT ACCESS ROAD - 0.8 ACRES COMPLETION PIT STOCKPILE - 1.19 ACRES FLOWBACK PIT STOCKPILE - 1.19 ACRES TOTAL DISTURBANCE - 3.18 ACRES TIMBER REMOVAL - 1.19 ACRES</p>	<p>TM 7 - PUL 8 200 ACRES 20 25 000 157 25 ACRES SITE DISTURBANCE</p> <p>WELL PAD ACCESS ROAD - 0.8 ACRES TOTAL DISTURBANCE - 0.8 ACRES TIMBER REMOVAL - 0.8 ACRES</p>

Project Contacts

- EQT**
Chris Metzger - EQT Production Company
304-848-0073 O/R
- Billy Miller - Landman II-Drilling EQT Production Company
304-877-0387 Mobile
304-848-0039 Office
Surveyor & Engineer
- Ben Singleton - PE - Allegheny Surveys Inc.
304-649-8608 O/R
- Thomas G. Corathers - PE - PS-Honor Brothers Engineers
304-624-6445 Office

Design Certification

The designs, 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 proposed: frac. pond is lined.

APPROVED
WVDEP OOG
8/21/2015

SHEET INDEX	
COVER SHEET / LOCATION MAP	1
EXISTING CONDITIONS PLAN	2
SCHEDULE OF QUANTITIES	3
CONSTRUCTION, GENERAL AND EAS NOTES	4
FINAL DESIGN PLANS	5-7
WELL PAD PROFILE & CROSS SECTIONS	8-9
COMPLETION PIT PROFILE & CROSS SECTIONS	10-11
FLOWBACK PIT PROFILE & CROSS SECTIONS	12
WELL PAD ACCESS PROFILE & CROSS SECTIONS	13-14
COMPLETION PIT ACCESS PROFILE & CROSS SECTIONS	15
CONSTRUCTION DETAILS	16-18
RECLAMATION PLANS	19-21

DATE	REVISIONS	DATE
		1-13-2015
		Scale: N/A
		Designed by: TM
		File No. WSP/014/015
		Page: 1 of 11



Allegheny Surveys Inc.
P.O. Box 438
237 Birch River Road
Birch River, WV 26610
304-649-8606



Honor
Brothers, Engineers
Civil, Mining, Environmental and
Geotechnical Engineering
1000 10th Street, Suite 100
Martinsburg, WV 26150



THE ROCKY MOUNTAIN
PREPARED FOR
EQT PRODUCTION
COMPANY

FINAL SITE DESIGN COVER SHEET
PUL 96
WELL PAD SITE
CLAY & LAMON DISTRICTS
PUTNE COUNTY, WV

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!!



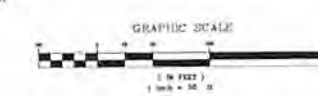
Know what's below.
Call before you dig.

PUL 96 WELL PAD FINAL SITE DESIGN

**APPROVED
WVDEP OOG**
2015 4/21/2015



All geographic information shown herein is based on aerial photography provided by the Mountain State Imaging with a flight date of Spring 2014.



Allegheny Surveys, Inc.
P.O. Box 428
237 Birch River Road
Birch River, WV 26610
304-649-8606



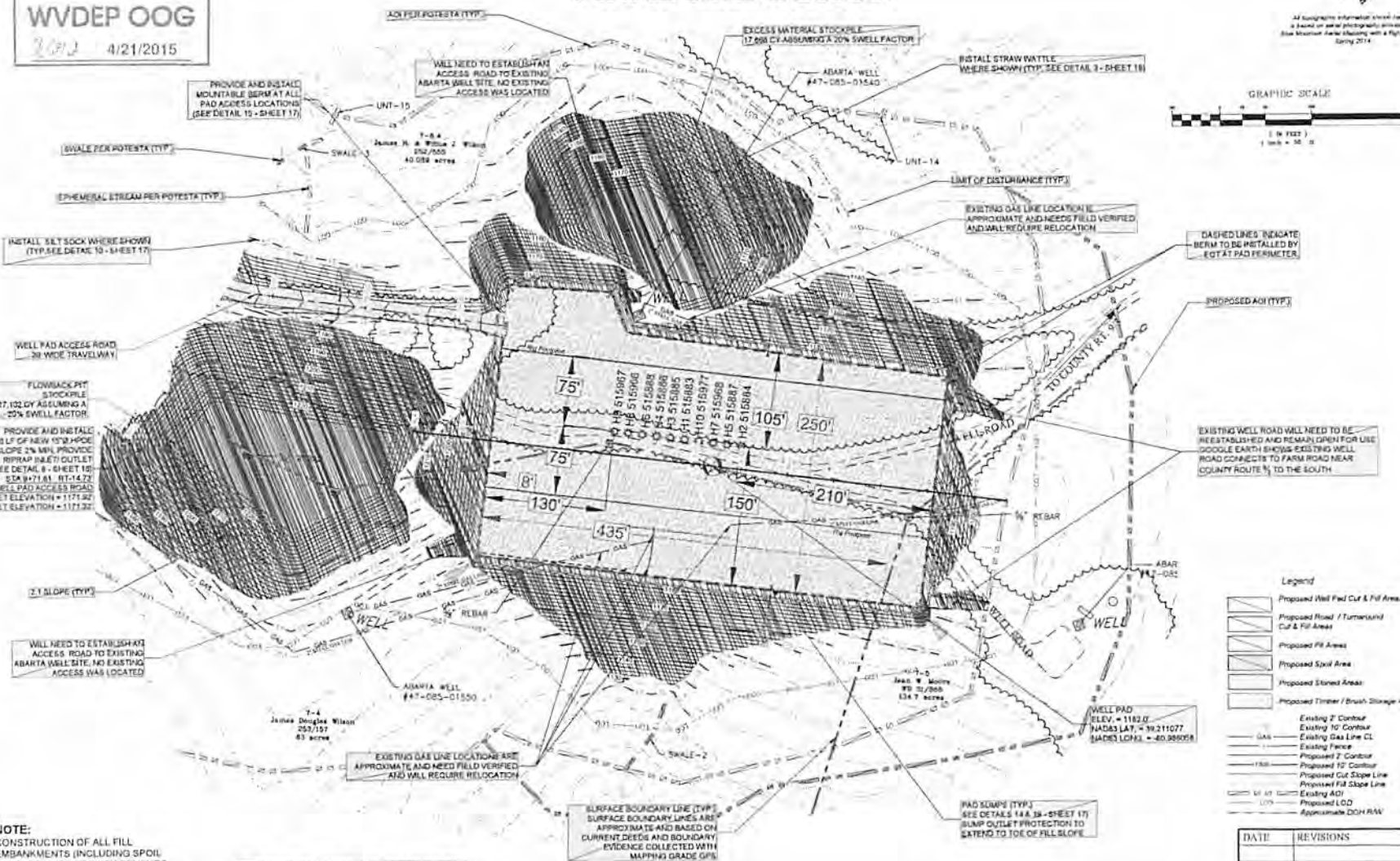
Hornor
James Bros. Engineers
1222 Main Street
Civil, Mining, Environmental and Consulting Engineering
P.O. Box 100
Martinsburg, WV 26150
304-293-2222



THIS DOCUMENT PREPARED FOR
BY CONTRACTOR
CREATED

FINAL SITE DESIGN
**PUL 96
WELL PAD SITE**
CLAY & DEON DISTRICTS
MITCHELL COUNTY, WV

DATE: 1/13/2015
Scale: 1"=50'
Designed by: TSC
File No.: 2014-001
Plot: 1 of 1



- Legend**
- Proposed Well Pad Cut & Fill Area
 - Proposed Road / Turnaround Cut & Fill Area
 - Proposed Fill Area
 - Proposed Spoil Area
 - Proposed Staked Area
 - Proposed Timber / Brush Storage Area
 - Existing 2' Contour
 - Existing 10' Contour
 - Existing Gas Line CL
 - Existing Fence
 - Proposed 2' Contour
 - Proposed 10' Contour
 - Proposed Cut Slope Line
 - Proposed Fill Slope Line
 - Existing AOI
 - Proposed LOD
 - Approximate DCH RW

DATE	REVISIONS

NOTE:
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