



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 17, 2015

WELL WORK PERMIT

Horizontal 6A Well

This permit, API Well Number: 47-8510225, 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: 514477
Farm Name: MORTON, JERRY
API Well Number: 47-8510225
Permit Type: Horizontal 6A Well
Date Issued: 08/17/2015

Promoting a healthy environment.

08/21/2015

PERMIT CONDITIONS

4708510225

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 4708510225

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.

4708510225

API NO. 47 - 085 -
OPERATOR WELL NO. 514477
Well Pad Name: PEN54

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: 1 Quadrangle: 539

2) Operator's Well Number: 514477 Well Pad Name: PEN54

3) Farm Name/Surface Owner: Jerry Morton et al Public Road Access: Rt 50

4) Elevation, current ground: 1,016.0 Elevation, proposed post-construction: 1,016.0

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

(b) If Gas: Shallow Deep
Horizontal

4708510225

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 6297 with the anticipated thickness to be 49 feet and anticipated target pressure of 2190 PSI

8) Proposed Total Vertical Depth: 6297

9) Formation at Total Vertical Depth: Marcellus

10) Proposed Total Measured Depth: 11,794

11) Proposed Horizontal Leg Length: 4,947

12) Approximate Fresh Water Strata Depths: 99, 105, 302, 627, 729, 745, 770

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

14) Approximate Saltwater Depths: 1,350

15) Approximate Coal Seam Depths: 326, 789, 867, 1078, 1182

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

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

David Wilson
7-15-15

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WW - 6B
(4/15)

4708510225

API NO. 47 - 0 -
OPERATOR WELL NO. 514477
Well Pad Name: PEN54

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	900	900	785 C.T.S.
Coal	-	-	-	-	-	-	-
Intermediate	9 5/8	New	A-500	40	5,176	5,176	2,037 C.T.S.
Production	5 1/2	New	P-110	20	11,794	11,794	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	2184	See Note 2	1.21
Coal						Office of Oil and Gas	
Intermediate	9 5/8	12 3/8	0.395	3,950	3160	See Note 2	1.21
Production	5 1/2	8 1/2	0.361	12,640	10112		1.27/1.86
Tubing						WV Department of Environmental Protection	
Liners							

Packers

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

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

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

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 4325 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): 52.03

22) Area to be disturbed for well pad only, less access road (acres): 21.5

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.

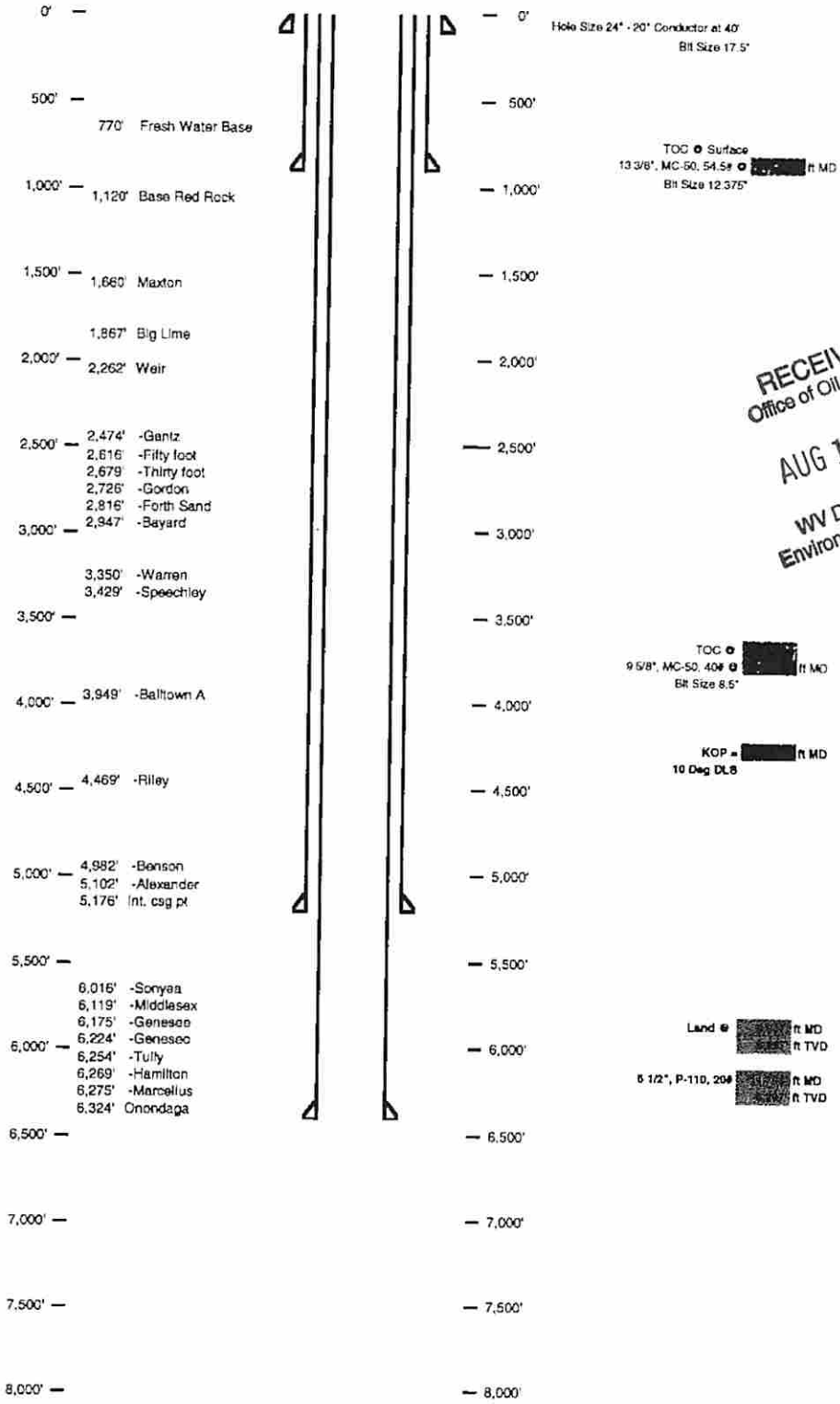
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Well Schematic
EQT Production

Well Name: [REDACTED]
County: [REDACTED]
State: West Virginia

Elevation KB: [REDACTED]
Target: [REDACTED]
Prospect: [REDACTED]
Azimuth: [REDACTED]
Vertical Section: [REDACTED]



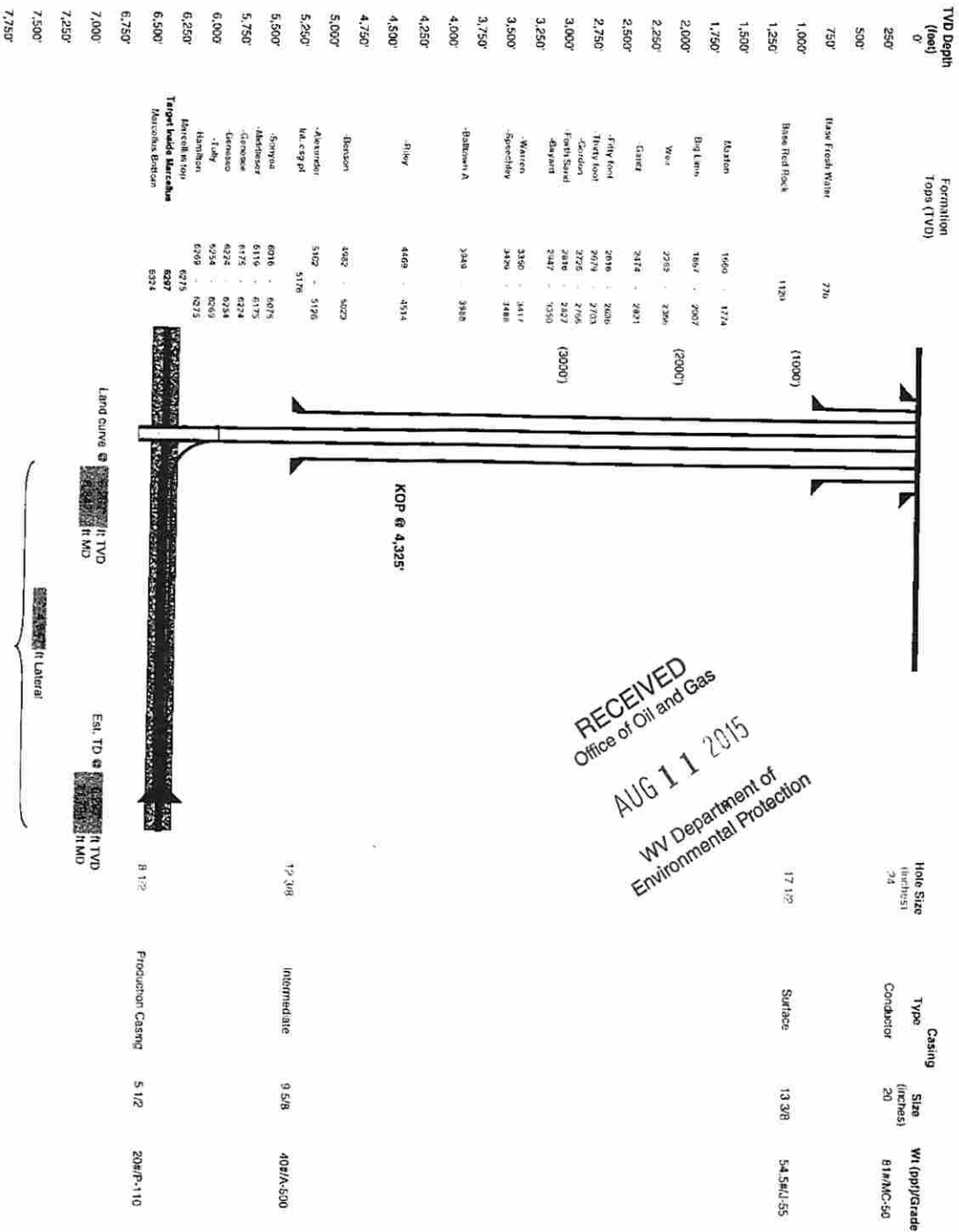
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EN54H4)

EOT Production
West Virginia

Abnash
Vertical Section



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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 4325.
Then kick off the horizontal leg into the Marcellus using a slick water frac.

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March 18, 2014

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

4708510225

Re: Cement Variance Request

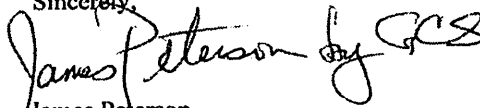
Dear Sir or Madam,

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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**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.

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FINDINGS OF FACT

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

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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

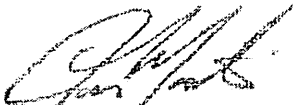
It is ordered that Nabors Completion & Production Services Co. may use the cement blend listed in Findings of Fact No.1 for the cementing of surface and coal protection casing of oil and gas wells in the State as may be requested by oil and gas operators. The waiting time on the cement blend shall be 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.

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

IN THE NAME OF THE STATE OF WEST VIRGINIA

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



James Martin, Chief
Office of Oil and Gas

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Page 1 of 2
API No. 47 - 085 - 10225
Operator's Well No. 514477

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) North Fork Hughes River Quadrangle Pennsboro 7.5

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 - Bente, viscosifier, alkalinity control, lime, filtration control, defloculates, biodegradable oil lubricant, defoaming, walnut shell, salt, x-cide, carbonates.
Oil based mud - synthetic base oil, emulsifier, salt, lime, viscosifier, alkalinity control, filtration control, defloculates, 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.

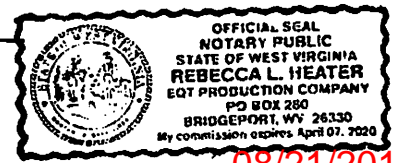
I certify under penalty of law that I have personally examined and am familiar with the information submitted on this application form and all attachments thereto and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is 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 11 day of August, 2015

Rebecca L. Heater Notary Public

My commission expires 4-7-20



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Operator's Well No. 514477

Proposed Revegetation Treatment: Acres Disturbed 52.03 Prevegetation pH 6.2

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		

4708510225

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

Photocopied section of involved 7.5' topographic sheet.

Plan Approved by: *Danf...*

Comments: *preserve & mulch all cut area no less than 2 tons per acre maintain all trees during operation*

Title: *oil & gas inspector* Date: *7-13-13*

Field Reviewed? () Yes () No

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08/21/2015

EQT Production Water plan
Offsite disposals for Marcellus wells

CWS TRUCKING INC.

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

LAD LIQUID ASSETS DISPOSAL INC.

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

TRI COUNTY WASTE WATER MANAGEMENT, INC.

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

Waste Management - Meadowfill Landfill

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

Waste Management - Northwestern Landfill

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

BROAD STREET ENERGY LLC

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

TRIAD ENERGY

P.O. Box 4085
Reno, OH 45773
740-516-6021 Well
740-374-2940 Reno Office Jennifer
Nobel County/Jackson Township
Permit # 4037

KING EXCAVATING CO.

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

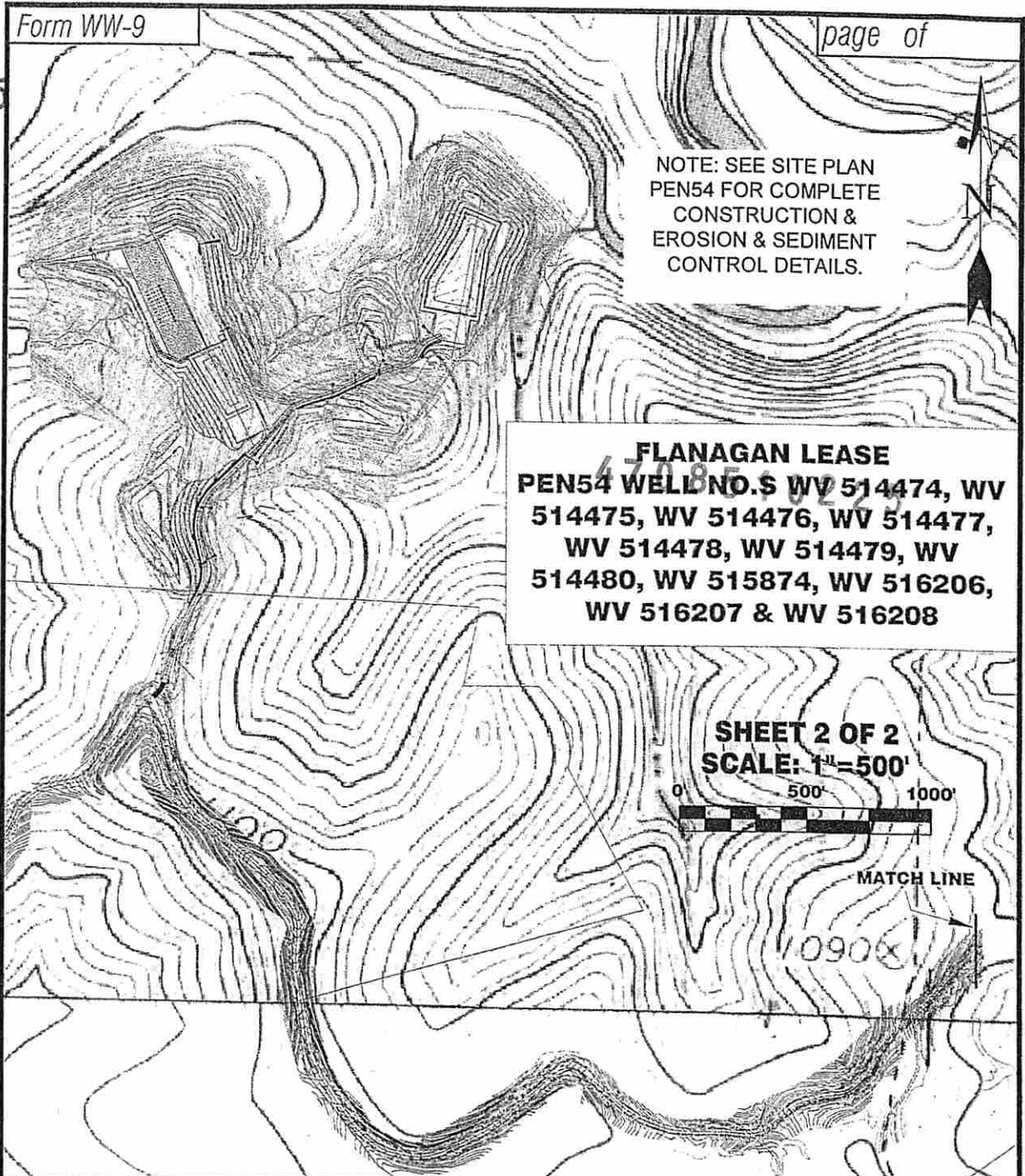
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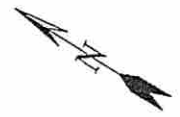
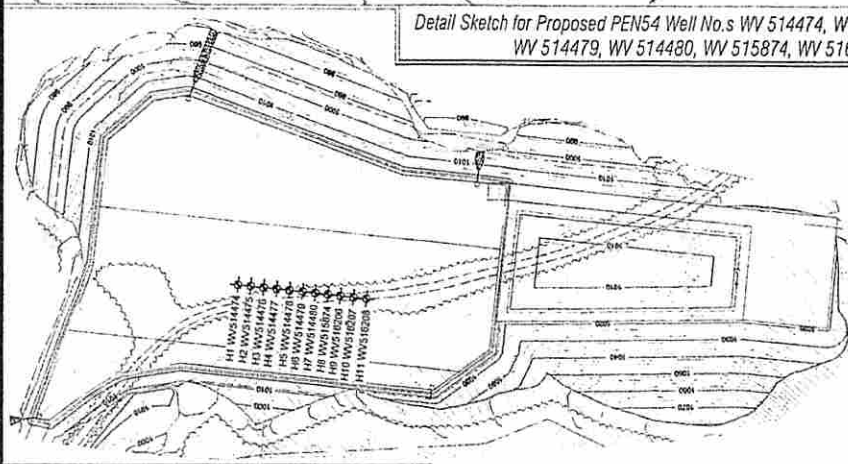
FLANAGAN LEASE
PEN54 WELL NO.S WV 514474, WV 514475, WV 514476, WV 514477, WV 514478, WV 514479, WV 514480, WV 515874, WV 516206, WV 516207 & WV 516208

SHEET 2 OF 2
SCALE: 1"=500'




MATCH LINE

Detail Sketch for Proposed PEN54 Well No.s WV 514474, WV 514475, WV 514476, WV 514477, WV 514478, WV 514479, WV 514480, WV 515874, WV 516206, WV 516207 & WV 516208



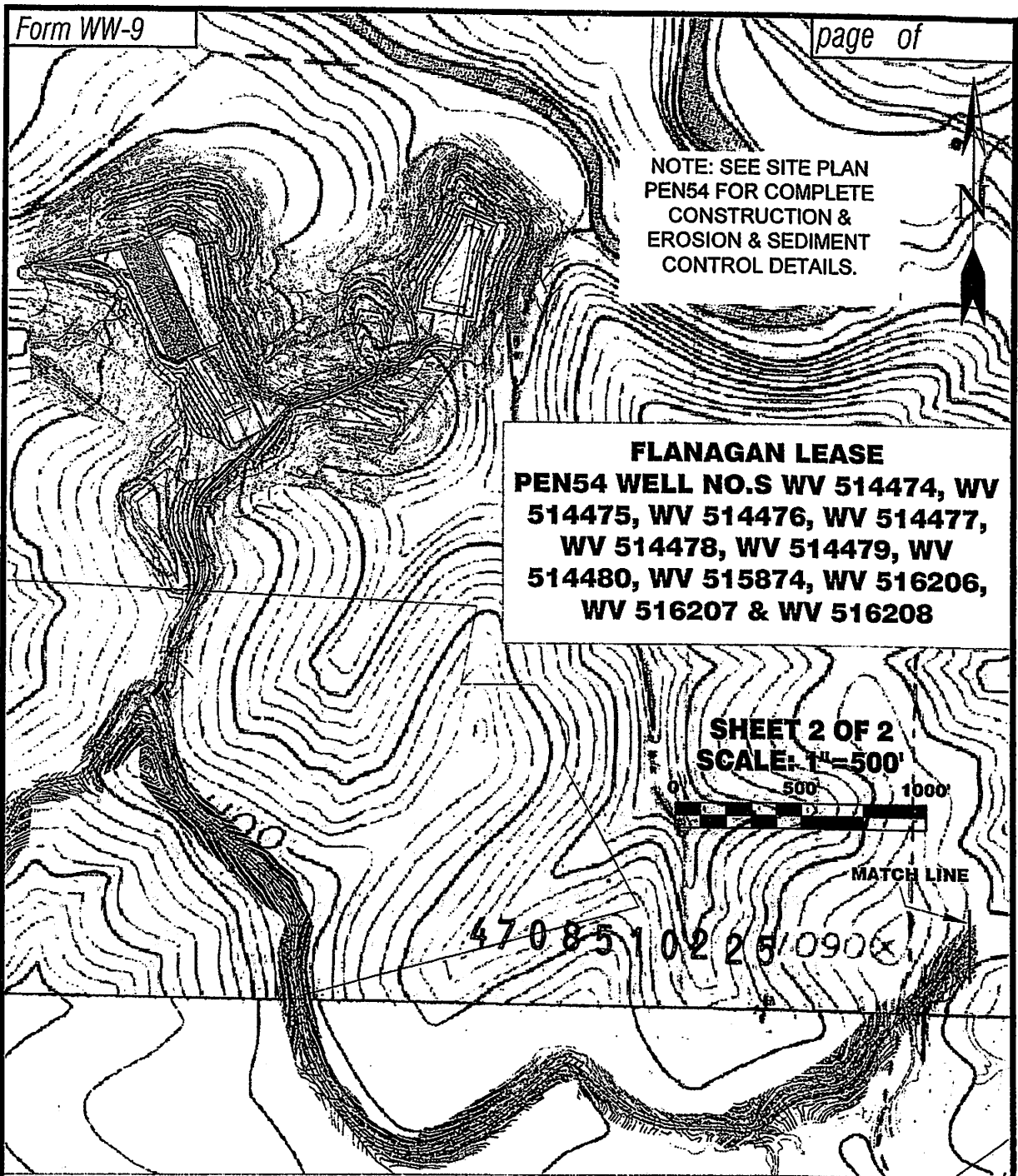
RECEIVED
 Office of Oil and Gas
 NOTE: SEE SITE PLAN PEN54 FOR COMPLETE CONSTRUCTION & EROSION & SEDIMENT CONTROL DETAILS
 Environmental Protection
 08/21/2015
 Not To Scale

Professional Energy Consultants
 A DIVISION OF BARTH LAND SURVEYING, INC.

 SURVEYORS
 ENGINEERS
 ENVIRONMENTAL
 PROJECT MGMT.

DRAWN BY K.D.W.	FILE NO. 8083	DATE 06-25-15	CADD FILE: 8083PEN54REC.dwg
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TOPO SECTIONS OF PENNSBORO 7.5'
 TOPO QUADRANGLE

708510225



NOTE: SEE SITE PLAN
PEN54 FOR COMPLETE
CONSTRUCTION &
EROSION & SEDIMENT
CONTROL DETAILS.

FLANAGAN LEASE
PEN54 WELL NO.S WV 514474, WV
514475, WV 514476, WV 514477,
WV 514478, WV 514479, WV
514480, WV 515874, WV 516206,
WV 516207 & WV 516208

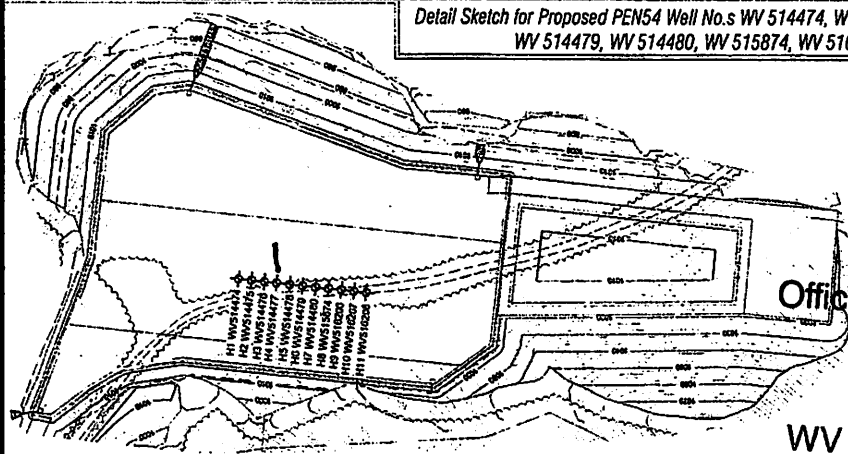
SHEET 2 OF 2
SCALE: 1"=500'



MATCH LINE

4708510225/0908

Detail Sketch for Proposed PEN54 Well No.s WV 514474, WV 514475, WV 514476, WV 514477, WV 514478, WV 514479, WV 514480, WV 515874, WV 516206, WV 516207 & WV 516208



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NOTE: SEE SITE PLAN
PEN54 FOR COMPLETE
CONSTRUCTION &
EROSION & SEDIMENT
CONTROL DETAILS.

08/27/2015



DRAWN BY: K.D.W. FILE NO.: 8083 DATE: 06-25-15 CADD FILE: 8083PEN54REC.dwg

TOPO SECTIONS OF PENNSBORO 7.5'
TOPO QUADRANGLE

Not To Scale



4708510225

Where energy meets innovation.™

Site Specific Safety Plan

EQT PEN 54 Pad

4708510225

Toll Gate
Ritchie County, WV

For Wells:

514477 _____

[Signature]

EQT Production

Date Prepared:

November 17, 2014

[Signature]

Permitting Supervisor

[Signature]

WV Oil and Gas Inspector

Title
Date 7/1/15

[Signature]

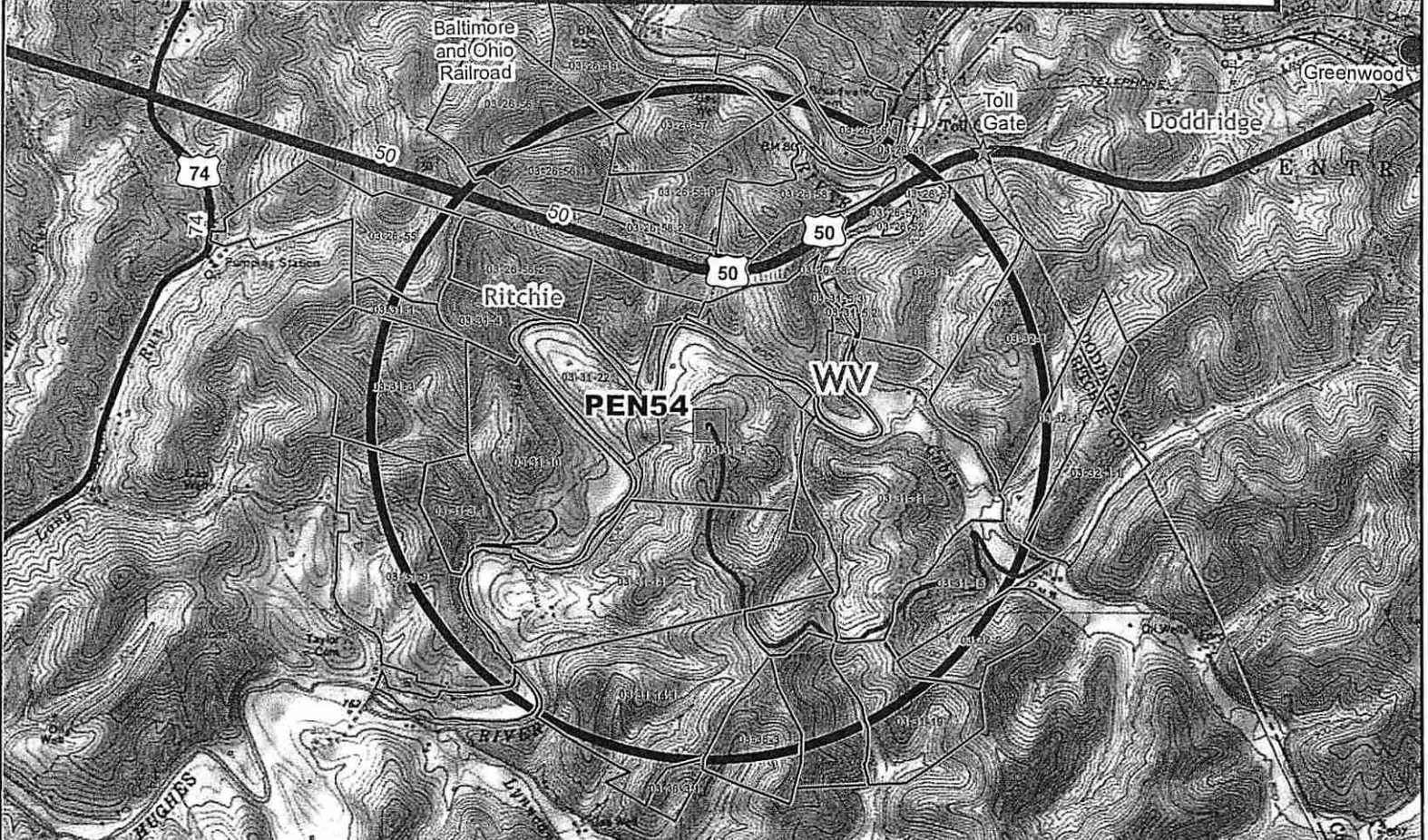
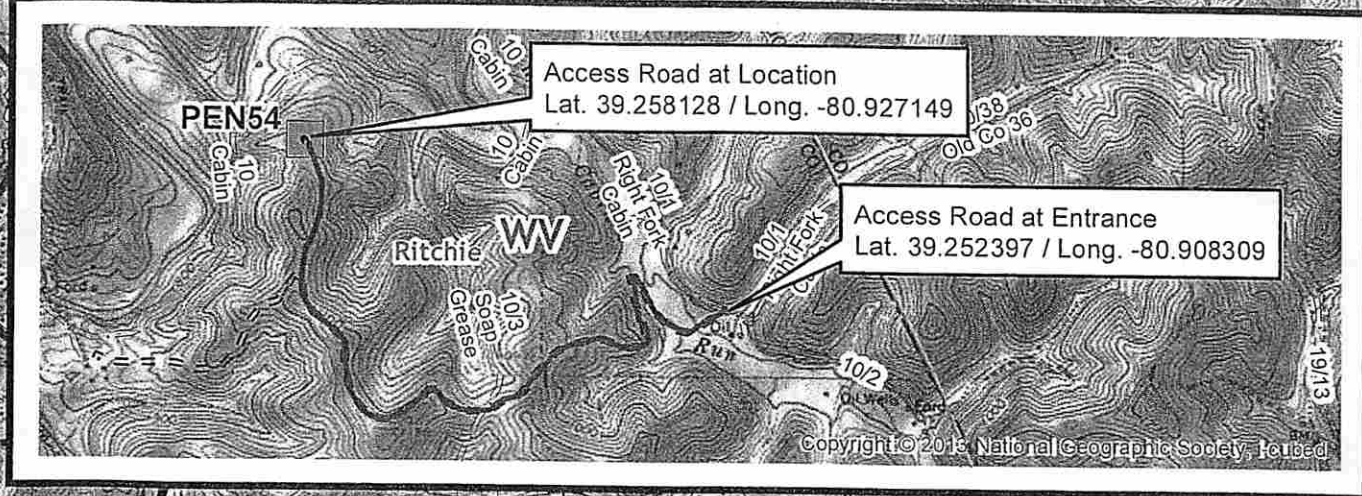
Title
Date 7-15-15

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Environmental Protection

08/21/2015



Legend

Horizontal PUD Locations	Access Routes	Railroads	College	Law Enforcement
Safety Buffer	Highways	Counties	Fire Department	Church
LANDMARKS	Interstates	Major Roads	Hospital	School
Access Route	Streets	Hospital		

EQT
 EQT Production
 White Oaks Office
 120 Professional Place
 Bridgeport, WV 26330

Site Safety Plan

PEN54
One Mile Safety Buffer
Ritchie County, WV

Created By: S50mmx Printed By: amonson 9/17/2015
 Map Date: Dept: Land GIS - White Oak Office

4708510225

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Department of Environmental Protection

08/21/2015

bal

DISCLAIMER:
 ALL INFORMATION DEPICTED ON THIS MAP PROVIDED BY EQT (SAID TERM SHALL MEAN EQT PRODUCTION OR EQT MIDSTREAM, DEPENDING ON WHICH EQT ENTITY PROVIDED THE MAP) IS FOR INFORMATION PURPOSES ONLY AND SHALL BE TREATED AS CONFIDENTIAL INFORMATION AND SHALL ONLY BE USED FOR THE SOLE PURPOSE FOR WHICH IT WAS PROVIDED. ANY OTHER USE OF THIS MAP, OR THE INFORMATION INCLUDED THEREON, IS STRICTLY PROHIBITED. EQT MAKES NO EXPRESS OR IMPLIED WARRANTY AS TO THE ACCURACY OF THE MAP, OR THE INFORMATION SHOWN THEREON. THE SPECIFIC LOCATION OF ANY OF THE INFORMATION SHOWN ON THIS MAP SHALL NOT BE RELIED UPON FOR THE SPECIFIC LOCATION OF THE FACILITIES, AND THE PARTIES AGREE THAT THE INFORMATION SHOWN ON THE MAP MAY NOT HAVE BEEN PLACED ON THE MAP USING SURVEY LINES OR GPS COORDINATES. EQT MAKES NO EXPRESS OR IMPLIED WARRANTY AS TO THE ACCURACY OF THE WELL, PIPELINE, STRUCTURE, FACILITY OR LEASE BOUNDARY, SHOULD BE DETERMINED BY A FIELD SURVEY PERFORMED BY A LICENSED SURVEYOR UPON CONSULTATION WITH EQT. THIS MAP MAY NOT BE COPIED OR OTHERWISE MADE AVAILABLE TO ANY OTHER PARTY IN PAPER OR ELECTRONIC FORMAT WITHOUT WRITTEN CONSENT FROM EQT. RECIPIENT EXPRESSLY AGREES THAT ITS USE AND/OR RETAINER OF THIS MAP SHALL BE DEEMED ITS AGREEMENT TO THE TERMS SET FORTH ABOVE.



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

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

John Centofanti
Corporate Director,
Environmental Affairs

(date)

[Conventional Well Operator]
[address]
[state]

4708510225

RE: Ritchie County Hydraulic Fracturing Notice

Dear Sir/Madam,

EQT has developed a Marcellus pad (Pennsboro 54 pad) located in Ritchie County, WV. As an owner or operator of conventional natural gas wells in this area, we are requesting your assistance in this matter.

Due to the apparent presence of unique geological conditions, the potential for communication between deep geologic zones exists in this area. This potential communication, via natural gas, water, or both, may occur between hydraulically fractured wells in the Marcellus formation (approximately 6,400' TVD) and existing conventional natural gas wells in the partially-depleted, relatively high permeability, Alexander formation (approximately 5,200' TVD).

EQT anticipates conducting hydraulic fracturing at the Pennsboro 54 pad during the second quarter of 2015. We have identified conventional natural gas wells operated by your company within 1,500' (lateral distance) of our new/planned laterals. Plats for each well on this pad are attached.

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

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

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

Sincerely,
EQT Production

John Centofanti
Corporate Director, Environmental Affairs

cc: James Martin, WV Office of Oil and Gas

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Attachment B

4708510225

EQT Production
Hydraulic Fracturing Monitoring Plan
Pad ID: PEN54
Ritchie County, WV

6/17/15

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JUL 08 2015

Page 1 of 2
WV Department of
Environmental Protection 08/31/2015

Purpose

The purpose of this pad-specific Hydraulic Fracturing Monitoring Plan is to identify and notify conventional well operators near EQT hydraulic fracturing in Ritchie County, WV prior to hydraulic fracturing at the following EQT wells on the PUL96 pad: 514474, 514475, 514476, 514477, 514478, 514479, 514480, 515874, 516206, 516207, 516208, 516209, and 516210.

Due to the apparent presence of unique geological conditions, the potential for communication between deep geologic zones exists in this area. This potential communication, via natural gas, water, or both, may occur between hydraulically fractured wells in the Marcellus formation (approximately 6,400' TVD) and existing conventional natural gas wells in the partially-depleted, relatively high permeability Alexander formation (approximately 5,200' TVD).

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

1. Communications with Conventional Well Operators

EQT, using available data (WV Geological Survey, WVDEP website, and IHS data service), has identified all known conventional wells and well operators within 1,500 feet of this pad and the lateral sections. A map showing these wells along with a list of the wells and operators is included in **Attachment A**.

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

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

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

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

2. Reporting

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

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08/21/2015

4708530559
4708530675
4708530815
4708530816
4708531355

PGH & WV GAS
PGH & WV GAS
F.S.DIEM
F.S.DIEM
EPC

GAS - Active
GAS - Active
Unknown
Unknown
Unknown

39,28417
39,25167
39,23972
39,23972
39,27083

-80,92333
-80,92611
-80,91889
-80,91611
-80,92833

1837
2041
1693
1087
1999

784
107
2
232
310

7147 7189,872391 Maxton
7351 7351,778696 Maxton, Big Injun
7003 7003,000286 Unknown
10618 10620,53426 Unknown
7309 7315,571133 Maxton, Big Injun

1577-1595
1756-1994
Unknown
Unknown
1767-1994

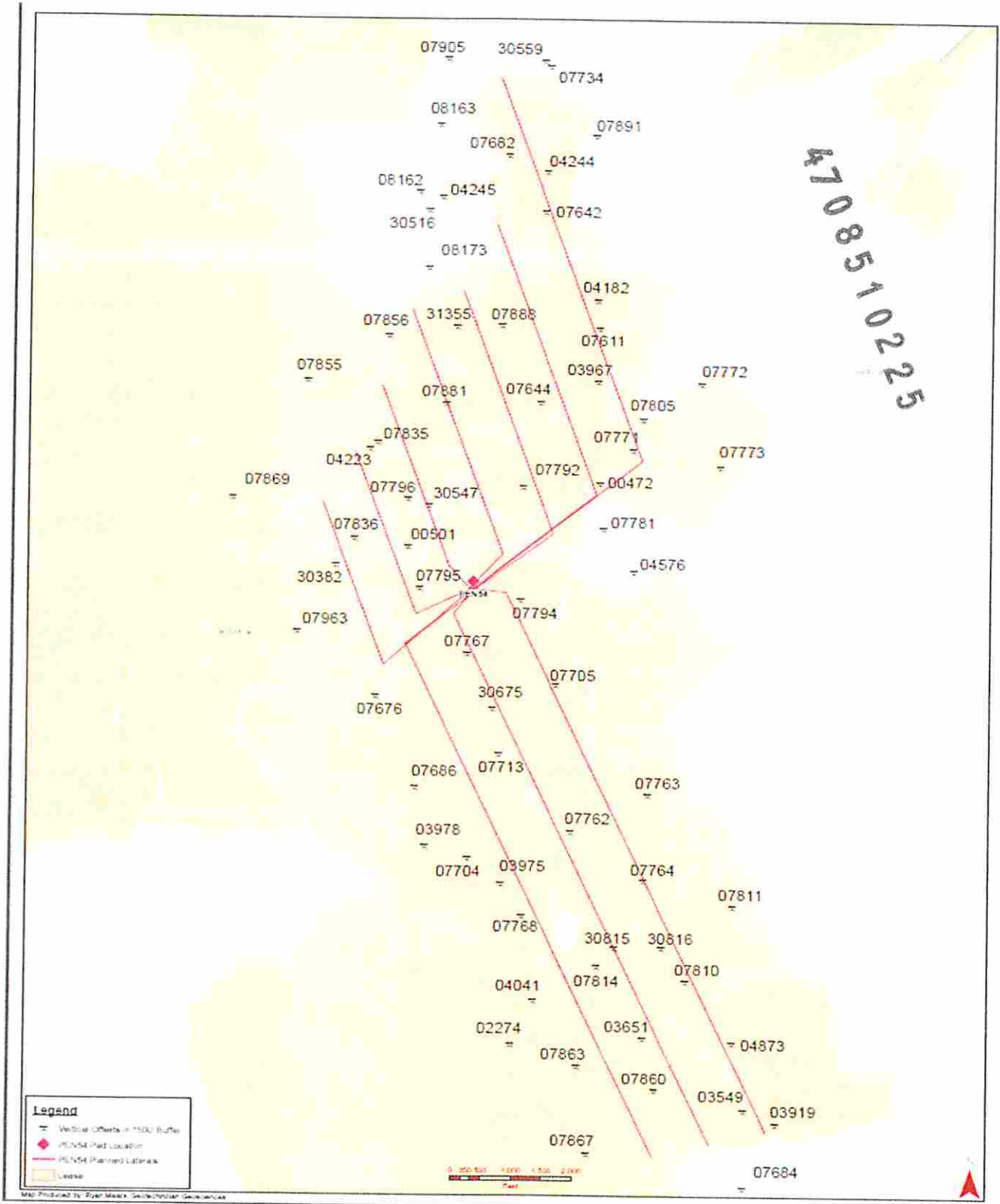
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Environmental Protection
08/21/2015

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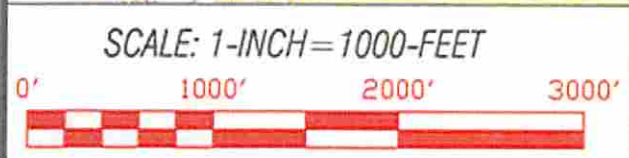
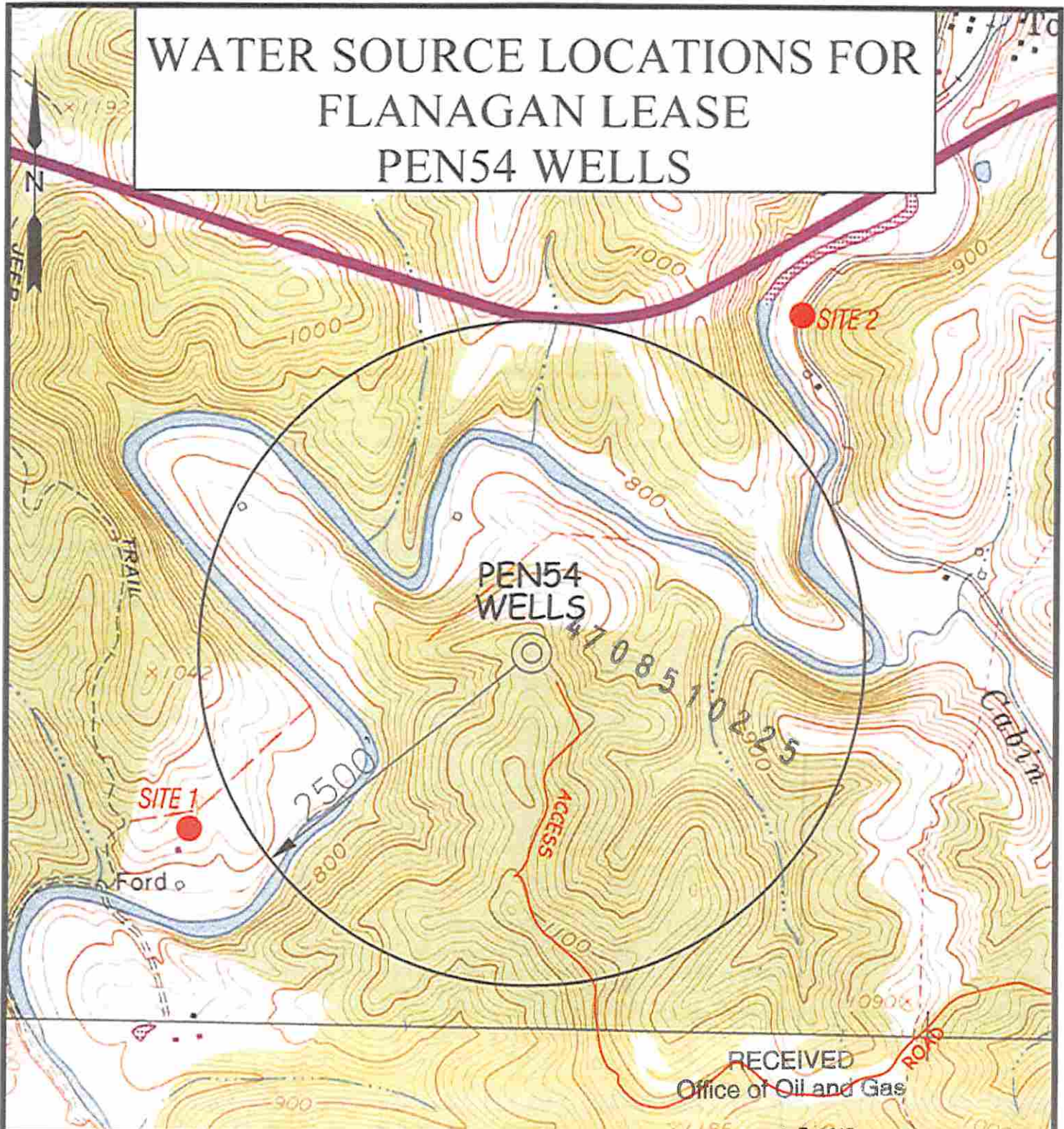
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08/21/2015

Attachment A-3

WATER SOURCE LOCATIONS FOR FLANAGAN LEASE PEN54 WELLS



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WV Department of Environmental Protection

LEGEND
● WATER WELL

Professional Energy Consultants
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ENGINEERS
ENVIRONMENTAL
PROJECT MANAGERS

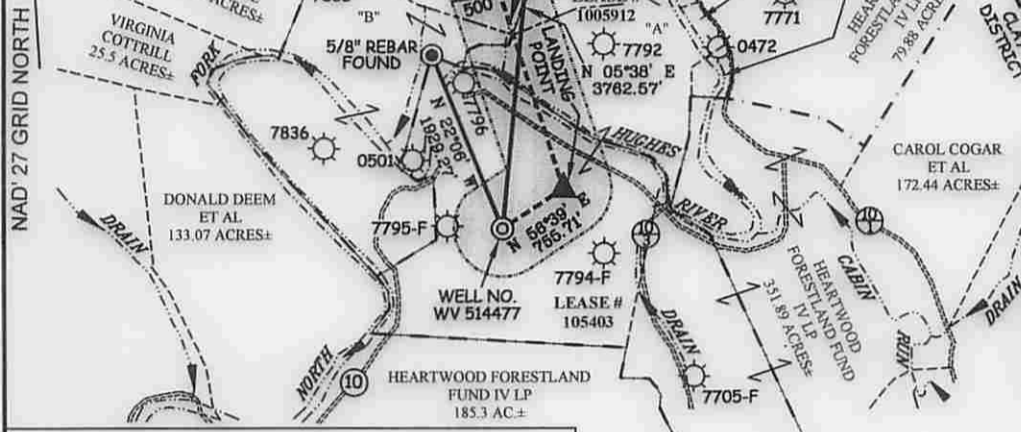
DRAWN BY: K.D.W. FILE NO: 8083 DATE: 06/02/15 CADD FILE: 8083WSPEN54.dwg

TOPO SECTION OF:
PENNSBORO, WV 7.5' QUAD

DISTRICT	COUNTY	TAX MAP-PARCEL NO.
CLAY	RITCHIE	31-09

OPERATOR:
EQT PRODUCTION COMPANY
115 PROFESSIONAL PLACE
P.O. BOX 280
BRIDGEPORT, WV 26308

08/21/2015



A	JERRY MORTON ET AL	243.50 AC.±	TM 31-05
B	JUDITH & JO ANN ROBINSON	106.265 AC.±	TM 31-22
C	JANICE WILLIAMS	1.715 AC.±	TM 26-58.2
D	JANICE WILLIAMS	111.876 AC.±	TM 26-58.9
E	ROY & LINDA HAMMOND	77.088 AC.±	TM 26-57.1
F	EQT PRODUCTION COMPANY	46.63 AC.±	
G	WV RAILROAD MAINTENANCE AUTHORITY	P/O 1141.03 AC.±	
H	WILLIAM & JANET BROADWATER	37.565 AC.±	
I	WILLIAM & JANET BROADWATER	107 AC.±	

REFERENCES

**EQT PRODUCTION COMPANY
FLANAGAN LEASE
268 ACRES±
WELL NO. WV 514477**

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

NAD'27 S.P.C.(FT) N. 279,174.49 E. 1,595,794.06
 NAD'27 GEO. LAT-(N) 39.257682 LONG-(W) 80.927495
 NAD'83 UTM (M) N. 4,345,383.96 E. 506,270.12

LANDING POINT

NAD'27 S.P.C.(FT) N. 279,589.98 E. 1,596,425.30
 NAD'27 GEO. LAT-(N) 39.258850 LONG-(W) 80.925290
 NAD'83 UTM (M) N. 4,345,513.76 E. 506,460.31

BOTTOM HOLE

NAD'27 S.P.C.(FT) N. 284,294.86 E. 1,594,896.60
 NAD'27 GEO. LAT-(N) 39.271699 LONG-(W) 80.930952
 NAD'83 UTM (M) N. 4,346,939.31 E. 505,970.67

LEGEND

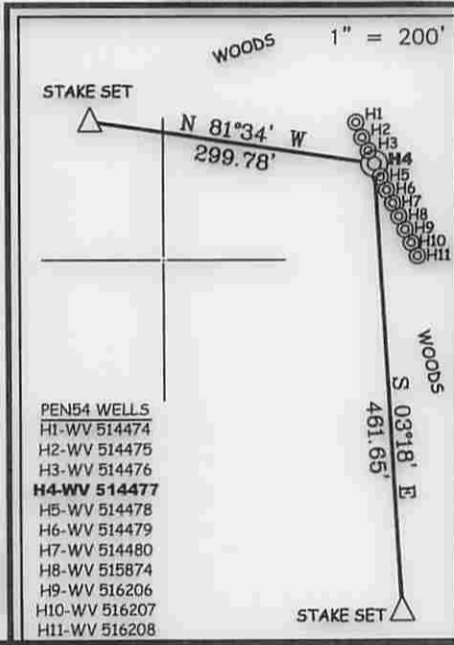
LEASE LINE	---
SURFACE LINE	----
WELL LATERAL	-----
OFFSET LINE	- - - - -
TIE LINE	=====
CREEK	~~~~~
ROAD	=====
RAIL ROAD	=====
COUNTY ROUTE	=====
STATE ROUTE	=====
PROPOSED WELL	⊙
EXISTING WELL	⊙
PERMITTED WELL	⊙
TAX MAP-PARCEL	TM 00-00

NOTES ON SURVEY

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

ROYALTY OWNERS

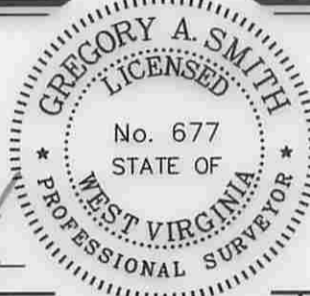
MARY LEE AZELVANDRE ET AL.	500 AC.±	LEASE NO. 114193
GUY FLANAGAN ET AL.	126 AC.±	LEASE NO. 1005912



Professional Energy Consultants
A DIVISION OF SMITH LAND SURVEYING, INC.

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SURVEYORS
ENGINEERS
ENVIRONMENTAL
PROJECT MGMT.

(304) 482-9334 WWW.SLSURVEYS.COM



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

P.S. 677 *Gregory A. Smith*

(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS.

DATE JUNE 25, 20 15

REVISED _____, 20 _____

OPERATORS WELL NO. WV 514477

API WELL NO. 47 - 085 - 10225 H6A

STATE COUNTY PERMIT

MINIMUM DEGREE OF ACCURACY 1/200 FILE NO. 8083P514477

HORIZONTAL & VERTICAL CONTROL DETERMINED BY DGPS (SURVEY GRADE TIE TO CORS NETWORK) SCALE 1" = 2000'

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

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

LOCATION: GROUND PROPOSED
ELEVATION 1,016' 1,016' WATERSHED NORTH FORK HUGHES RIVER

DISTRICT CLAY COUNTY RITCHIE QUADRANGLE PENNSBORO 7.5'

SURFACE OWNER JERRY MORTON ET AL ACREAGE 243.50±

ROYALTY OWNER ELLEN S. FRANCAVIGLIA ET AL ACREAGE 268± LEASE NO. 105403

PROPOSED WORK:

DRILL X CONVERT ___ DRILL DEEPER ___ REDRILL ___ FRACTURE OR STIMULATE X PLUG OFF OLD FORMATION ___ PERFORATE NEW FORMATION ___ PLUG AND ABANDON ___ CLEAN OUT AND REPLUG ___ OTHER ___

PHYSICAL CHANGE IN WELL (SPECIFY) _____ TARGET FORMATION MARCELLUS ESTIMATED DEPTH TVD 6,275'

WELL OPERATOR EQT PRODUCTION COMPANY **DESIGNATED AGENT** REX C. RAY

ADDRESS 115 PROFESSIONAL PLACE BRIDGEPORT, WV 26330 **ADDRESS** 115 PROFESSIONAL PLACE P.O. BOX 280 BRIDGEPORT, WV 26330

COUNTY NAME PERMIT

08/21/2015

**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>105403</u>			Min 1/8 pd	
	W.A. Flanagan, et al	The Philadelphia Company of West Virginia		LB63/295
	The Philadelphia Company of West Virginia	Pittsburgh and West Virginia Gas Company		DB55/362
	Pittsburgh and West Virginia Gas Company	Equitable Gas Company		DB 126/473
	Equitable Gas Company	Equitrans, Inc.		LB 201/253
	Equitrans, Inc.	Equitrans, LP.		AB269/182
	Equitrans, LP	Equitable Production/Eastern States, Inc.		DB234/830
	Equitable Production/Eastern States, Inc.	Equitable Production Company		CB557/56
	Equitable Production Company	EQT Production Co.		DB 281/346
				Doddridge
<u>114193</u>			Min 1/8 pd	
	Harry L. Broadwater and Sadie E. Broadwater, etal	W.J. Rowland		LB33/533
	W.J. Rowland	The Philadelphia Company of West Virginia		DB126/418
	The Philadelphia Company of West Virginia	Pittsburgh and West Virginia Gas Company		LB55/362
	Pittsburgh and West Virginia Gas Company	Equitable Gas Company		DB126/473
	Equitable Gas Company	Equitrans, Inc.		LB201/253
	Equitrans, Inc.	Equitrans, LP.		AB269/182
	Equitrans, LP	Equitable Production/Eastern States, Inc.		DB234/830
	Equitable Production/Eastern States, Inc.	Equitable Production Company		CB557/56
	Equitable Production Company	EQT Production Company		DB281/346
				Doddridge
<u>1005912</u>			Min 1/8 pd	
	Antero Resources Corporation	EQT Production Company		DB277/1037

4708510225

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.

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Office of Oil and Gas**

JUL 08 2015

WV Department of
Environmental Protection
08/21/2015

**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

Page 1 of 1

4708510225

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Office of Oil and Gas
JUL 08 2015
WV Department of
Environmental Protection
08/21/2015

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

Date of Notice Certification: 7-6-15

API No. 4708085 - 0
Operator's Well No. 70225 514477
Well Pad Name: PEN54

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>506,270.12</u>
County:	<u>Ritchie</u>	UTM NAD 83 Northing:	<u>4,345,383.96</u>
District:	<u>Clay</u>	Public Road Access:	<u>Rt 50</u>
Quadrangle:	<u>Pennsboro 7.5</u>	Generally used farm name:	<u>Jerry Morton et al</u>
Watershed:	<u>North Fork Hughes River</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 checked="" type="checkbox"/> NOTICE OF ENTRY FOR PLAT SURVEY or <input type="checkbox"/> NO PLAT SURVEY WAS CONDUCTED</p> <p><input type="checkbox"/> NOTICE OF INTENT TO DRILL or <input checked="" type="checkbox"/> NOTICE NOT REQUIRED BECAUSE NOTICE OF ENTRY FOR PLAT SURVEY WAS CONDUCTED OR</p> <p style="padding-left: 150px;"><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>OOG OFFICE USE ONLY</p> <p><input type="checkbox"/> RECEIVED/NOT REQUIRED</p> <p><input type="checkbox"/> RECEIVED</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> <p><input type="checkbox"/> RECEIVED</p> <p>RECEIVED Office of Oil and Gas</p>
---	---

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.

JUL 08 2015

WV Department of
Environmental Protection

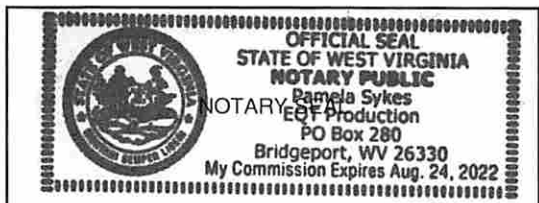
08/21/2015

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 2 day of July, 2015
Pamela Sykes Notary Public
My Commission Expires 8-24-22

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.

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Office of Oil and Gas
JUL 08 2015
WV Department of
Environmental Protection

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: 7-6-15 Date Permit Application Filed: 7-6-15

4708510225

Notice of:

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

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

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

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

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

SURFACE OWNER(s)
Name: Jerry Morton
Address: RR 1 Box 581
Pennsboro WV 26415

COAL OWNER OR LESSEE
Name: Phyllis A Rymer
Address: 21166 State Rt 676
Marietta OH 45750

See attached for additional coal owners.

Name: Randy Collins, Natalie Collins, Kate Collins
Address: 5368 Muscovy Road
Middleburg FL 32068

COAL OPERATOR
Name: _____
Address: _____

SURFACE OWNERS(s) (Road and/or Other Disturbance)
Name: Jerry Morton
Address: RR 1 Box 581
Pennsboro WV 26415

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

Name: Randy Collins, Natalie Collins, Kate Collins
Address: 5368 Muscovy Road
Middleburg FL 32068
See Attached

SURFACE OWNER(s) (Impoundments/Pits)
Name: Jerry Morton
Address: RR 1 Box 581
Pennsboro WV 26415
See Attached

OPERATOR OF ANY NATURAL GAS STORAGE FIELD
Name: _____
Address: _____

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*Please attach additional forms if necessary

WW6-A

Additional Surface Owners: Access Road

Heartwood Forestland Fund IV, LP ✓
1212 East Franklin St
Suite 104
Chapel Hill NC 27514

Coastal Forest Resources ✓
dba Coastal Timberlands Company
PO Box 709
Buckhannon WV 26201

Additional Surface Owners: Pits/Impoundments

Randy Collins, Natalie Collins, Kate Collins
5368 Muscovy Rd
Middleburg FL 32068

Additional Coal Owners

Braden M Nida ✓
150 Seneca Dr
Marietta OH 45750

Anita W Gass ✓
2033 Butterfly Lane
Apt 222
Naperville IL 60563

Byron Whealen ✓
678 N 38th Ave
Deerfield Beach FL 33442

Robert Singleton ✓
1561 Connell Rd
Charleston WV 25314

Mollie Harrington ✓
Charles Morrison
Claire Leugers
Trustees of Joan N Morrison Residuary Trust
102 NE Cypress Trail
Jensen Beach FL 34957

Carolyn W Wilson ✓
3731 Buffalo Lane
Montrose CO 81401

Marsha Spenst ✓
11133 N Eagle Crest Dr
Oro Valley AZ 85737

Rebecca Pearson ✓
1812 W Mountain
Ft Collins CO 80521

Gene C Singleton ✓
2504 22nd Ave
Parkersburg WV 26101

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Additional Coal Owners

Deborah K Latham
Trustee of the Deborah K Latham Living Trust
1810 10th Pike
Vero Beach FL 32960

Patricia A Zinn
315 South 4th St
Douglas WY 82633

Virginia R Terry
8868 State Rt 555
Cutler OH 45724

Joyce L Wilson
FKA Joyce L Fowler
150 County Rd 4603
Bogata TX 75417

Linda J Chambers
47 Weber St
Richwood WV 26261

First National Bank of Oregon
Trustee for Lathan Flanagan
31033 Foxridge Ln
Eugene OR 97405

Linda Sue Hill
626 Thorn Grove Pike Rd
Starwberry Plains TN 37871

Nelva Jean Ford
8805 Mid Haven Circle
Granbury TX 76048

Holmes & Vada J Lemon
1295 South Spring St
Harrisville WV 26362

Dewey W Jones
PO Box 172
Griffithville WV 25521

James P Rogers Jr
4000 Pinal
Catalina AZ 85739

Samuel C Rogers
204 Elanor St
Pennsboro WV 26415

Wilma J Coffield
1842 Tonawanda Ave
Akron OH 44305

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Additional Coal Owners

Stephen Ward ✓
2610 New York Ave
Parkersburg WV 26101

Appalachian Royalty Co ✓
3049 Robert C Byrd Dr
Beckley WV 25801

Warren R & Lena G Haught ✓
12864 Staunton Turnpike
Smithville WV 26178

Barry D Haught ✓
Ira Haught ✓
Robin J Cook
Trustees for the Haught Family Trust
210 E Main St
Harrisville WV 26362

Karen Louise Plants ✓
PO box 7304
Glen Rose TX 76043

Betty Lou Fankhauser ✓
753 Cedarcrest Dr ✓
Bound Brook NJ 08805

Philip Latham Sherror ✓
203 SW Bridge St #124
Grants Pass OR 97526

Ellen Sherror Francaviglia ✓
3117 Lakeview Dr ✓
Salem OR 97304

Gregory Flanagan ✓
202 Willow St ✓
Pennsboro WV 26415

Antero Resources Appalachian Corp ✓
1625 17th St
Denver CO 80202

Ann S Batta ✓
FKS Ann Sherror Killen ✓
PO Box 27570
San Deigo CA 92198

Patricia L Moore ✓
170 Birdhouse Lane ✓
Bridgeport WV 26330

Joseph Flanagan ✓
PO Box 2 ✓
Smithville WV 26178

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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.

Written Comment:

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

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

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

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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.

Victoria Roark

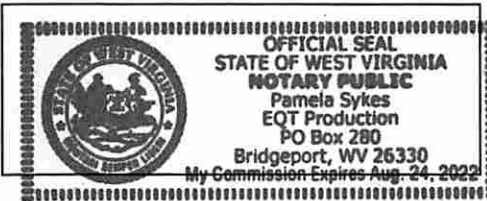
By: Victoria Roark

Its: Permitting Supervisor

Subscribed and sworn before on 2 day of July, 2015

Pamela Sykes Notary Public

My Commission Expires 8-24-22



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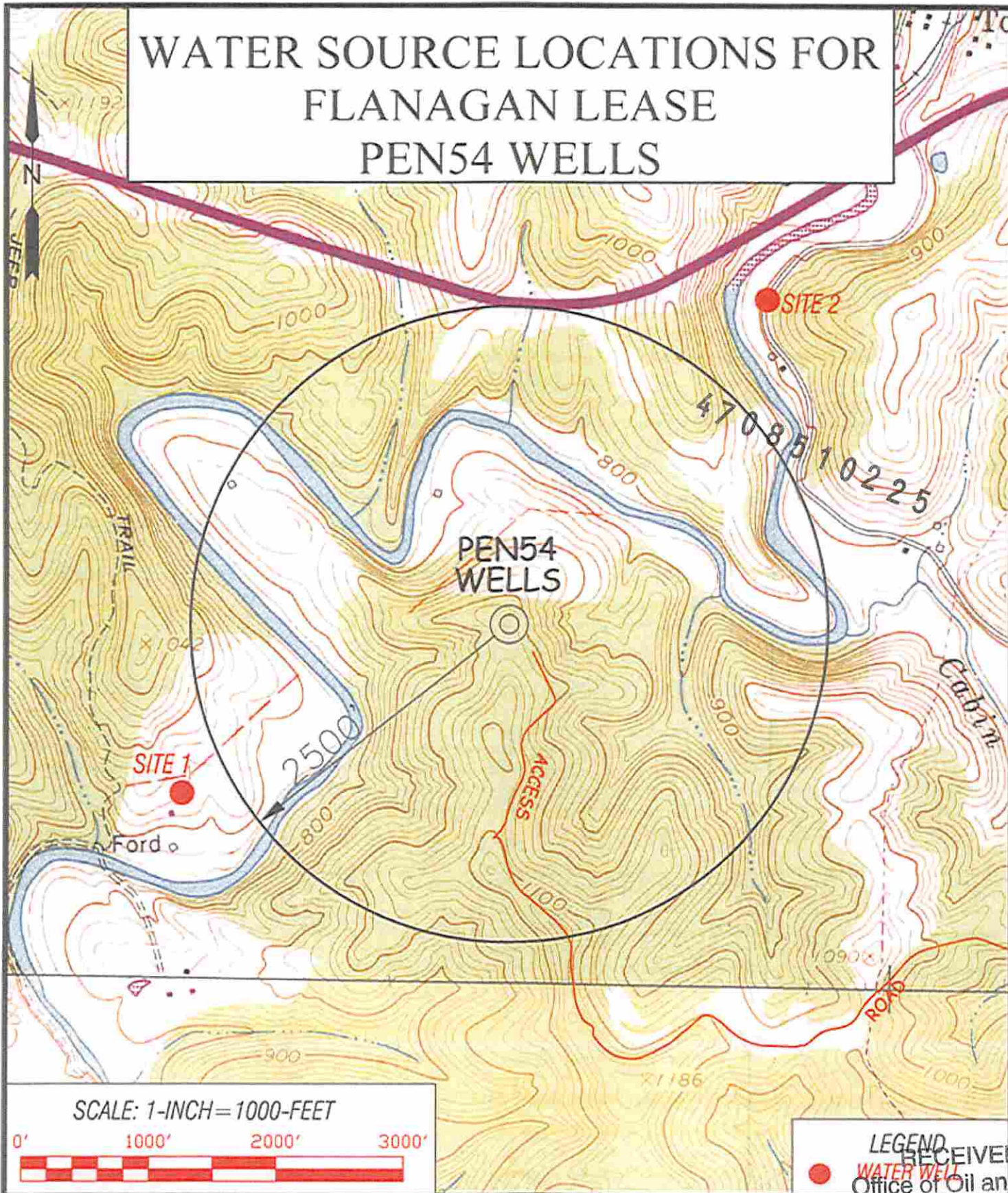
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WATER SOURCE LOCATIONS FOR FLANAGAN LEASE PEN54 WELLS



Professional Energy Consultants
A DIVISION OF SMITH LAND SURVEYING, INC.

SLS
SURVEYORS
ENGINEERS
ENVIRONMENTAL
PROPERTY MANAGERS

ALL RIGHTS RESERVED

DRAWN BY: K.D.W.
FILE NO.: 8083
DATE: 06/02/15
CADD FILE: 8083PEN54.dwg

TOPO SECTION OF:
PENNSBORO, WV 7.5' QUAD

DISTRICT	COUNTY	TAX MAP-PARCEL NO.
CLAY	RITCHIE	31-09

OPERATOR:
EQT PRODUCTION COMPANY
115 PROFESSIONAL PLACE
P.O. BOX 280
BRIDGEPORT, WV 26308

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WV Department of Environmental Protection
08/21/2015

STATE OF WEST VIRGINIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS
NOTICE OF ENTRY FOR PLAT SURVEY

Notice Time Requirement: Notice shall be provided at least SEVEN (7) days but no more than FORTY-FIVE (45) days prior to entry.

Date of Notice: April 9, 2014

Date of Planned Entry: April 16, 2014

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

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

Pursuant to West Virginia Code § 22-6A-10(a), prior to filing a permit application, the operator shall provide notice of planned entry on to the surface tract to conduct any plat surveys required pursuant to this article. Such notice shall be provided at least seven days but no more than forty-five days prior to such entry to: (1) The surface owner of such tract; (2) to any owner or lessee of coal seams beneath such tract that has filed a declaration pursuant to section thirty-six, article six, chapter twenty-two of this code; and (3) any owner of minerals underlying such tract in the county tax records. The notice shall include a statement that copies of the state Erosion and Sediment Control Manual and the statutes and rules related to oil and gas exploration and production may be obtained from the Secretary, which statement shall include contact information, including the address for a web page on the Secretary's web site, to enable the surface owner to obtain copies from the secretary.

Notice is hereby provided to:

SURFACE OWNER(S)

Name: Randy Collins, Natalie Collins & Kate Collins ✓
Address: 5368 Muscovy Rd.
Middlebourg, FL 32068-3531 ½ Interest

Name: _____
Address: _____
Name: _____
Address: _____

COAL OWNER OR LESSEE

Coal Declaration pursuant to §22-6A-10 and §22-6-36
Name: Not of Record

Address: 4708570225

MINERAL OWNER(S)

Name: _____
Address: _____
Name: _____
Address: _____

*Please attach additional forms if necessary

Notice is hereby given:

Pursuant to West Virginia Code § 22-6A-10(a), notice is hereby given that the undersigned well operator is planning entry to conduct a plat survey on the tract of land as follows:

State: West Virginia
County: Ritchie
District: Clay Map 31 Parcel 5 243.50 acres
Quadrangle: Pennsboro

Approx. Latitude & Longitude: 39.25555 / -80.92743
Public Road Access: Cabin Road
Watershed: North Fork Hughes River
Generally Used Farm Name: _____

Copies of the state Erosion and Sediment Control Manual and the statutes and rules related to oil and gas exploration and production 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). Copies of such documents or additional information related to horizontal drilling may be obtained from the Secretary by visiting www.dep.wv.gov/oil-and-gas/pages/default.aspx.

Notice is hereby given by:

Well Operator: EQT Production Company
Telephone: 304-848-0094
Facsimile: 304-848-0040
Email: EQTLandEntryNotice@eqt.com

Address: 115 Professional Place, Bridgeport, WV 26330
EQT Representative: Jim Mencer

Signature: _____

Oil and Gas Privacy Notice:

The Office of Oil and Gas processes your personal information, such a name, address and telephone number, as part of 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.

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(1/12)

Operator Well No. 514477

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: 7-6-15 Date Permit Application Filed: 7-6-15

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: Jerry Morton ✓
Address: RR 1 Box 581
Pennsboro WV 26415

Name: Randy Collins, Natalie Collins, Kate Collins ✓
Address: 5368 Muscovy Road
Middleburg FL 32068

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: 506,270.120000
County: Ritchie Northing: 4,345,383.960000
District: Clay Public Road Access: Rt 50
Quadrangle: Pennsboro 7.5 Generally used farm name: Jerry Morton et al
Watershed: North Fork Hughes River

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

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.

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Office of Oil and Gas

JUL 08 2015

WV Department of
Environmental Protection

WW-6A5
(1/12)

Operator Well No. 514477

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: 7-6-15 Date Permit Application Filed: 7-6-15

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

CERTIFIED MAIL RETURN RECEIPT REQUESTED HAND DELIVERY

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

Notice is hereby provided to the SURFACE OWNER(s)

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

Name: Heartwood Forestland Fund IV LP
Address: 1512 East Franklin St
Suite 104
Chapel Hill NC 27514

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

Notice is hereby given:

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

State: WV UTM NAD 83 Easting: 506,270.120000
County: Ritchie Northing: 4,345,383.960000
District: Clay Public Road Access: Rt 50
Quadrangle: Pennsboro 7.5 Generally used farm name: Jerry Morton et al
Watershed: North Fork Hughes River

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

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 of the Office of Oil and Gas 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.

4708510225

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Office of Oil and Gas
JUL 08 2015
WV Department of
Environmental Protection
08/21/2015



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

May 15, 2015

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

4708510225

Subject: DOH Permit for the PEN 54 Pad Site, Ritchie County

- | | | |
|-----------------|-----------------|-----------------|
| 514474 PEN54H1 | 514475 PEN54H2 | 514476 PEN54H3 |
| 514477 PEN54H4 | 514478 PEN54H5 | 514479 PEN54H6 |
| 514480 PEN54H7 | 515874 PEN54H8 | 516206 PEN54H9 |
| 516207 PEN54H10 | 516208 PEN54H11 | 516209 PEN54H12 |
| 516210 PEN54H13 | | |

Dear Mr. Martin,

This well site will be accessed from Permit #03-2015-0161 issued to EQT Production Company for access to the State Road. The well site is located off of Ritchie County Route 10/1 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

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JUL 08 2015

08/21/2015
WV Department of
Environmental Protection

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

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JUL 08 2015

WV Department of
Environmental Protection

08/21/2015

PROJECT INFORMATION

PROJECT NAME: EQT PEN 54
 SURFACE OWNER:
 1. RANDY NAYLOR & LAURE COLLINS
 174 MAP 1-1-01-012 INTEREST
 TOTAL PROPERTY AREA: 243.59 +/- ACRES
 TOTAL DISTURBANCE AREA: 32.87 +/- ACRES
 APT# 8510222
 APT# 8510226
 APT# 8510227
 APT# 8510228
 APT# 8510229
 APT# 8510230
 APT# 8510231
 APT# 8510232

2. JERRY MORTON
 104 MAP 1-0-01-12 INTEREST
 TOTAL PROPERTY AREA: 243.59 +/- ACRES
 TOTAL DISTURBANCE AREA: 32.87 +/- ACRES
 APT# 8510222
 APT# 8510230
 APT# 8510231
 APT# 8510232

3. CLAY DISTRICT RITCHEE COUNTY, WV
 104 MAP 1-0-01-12 INTEREST
 TOTAL PROPERTY AREA: 243.59 +/- ACRES
 TOTAL DISTURBANCE AREA: 32.87 +/- ACRES
 APT# 8510222
 APT# 8510230
 APT# 8510231
 APT# 8510232

4. COASTAL FOREST RESOURCES DBA COASTALTIMBERLANDS.COM
 104 MAP 1-0-01-12 INTEREST
 TOTAL PROPERTY AREA: 243.59 +/- ACRES
 TOTAL DISTURBANCE AREA: 32.87 +/- ACRES
 APT# 8510222
 APT# 8510230
 APT# 8510231
 APT# 8510232

5. OIL AND GAS LEASING OWNERS
 W. RANAMONING, ET AL, 590 +/- ACRES
 CLAY DISTRICT
 RITCHEE COUNTY, WV

LOCATION COORDINATES
 EQT PEN 54 WELL PAD CENTER
 LATITUDE: 39.25719 LONGITUDE: 81.92722 (NAD 83)
 EQT PEN 54 COMPLETION POINT CENTER
 LATITUDE: 39.25719 LONGITUDE: 81.92722 (NAD 83)
 EQT PEN 54 COMPLETION POINT CENTER
 LATITUDE: 39.25429 LONGITUDE: 81.92714 (NAD 83)

GENERAL DESCRIPTION
 THE WELL PAD, FURNACE PIT, ACCESS ROAD, AND COMPLETION PIT MATERIALS SHALL BE PLACED IN THE DISTURBANCE OF INDIVIDUAL ACREAGES.

SITE DISTURBANCE COMPUTATIONS
 WELL PAD/COMPLETION PIT AREA: 4.86 +/- ACRES
 ACCESS ROAD AREA: 3.53 +/- ACRES
 TOTAL SITE DISTURBANCE AREA: 8.39 +/- ACRES

ENTRANCE PERMIT
 EQT PRODUCTION COMPANY WILL OBTAIN AN ENCROACHMENT PERMIT FROM THE WEST VIRGINIA DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS PRIOR TO COMMENCEMENT OF CONSTRUCTION ACTIVITIES.

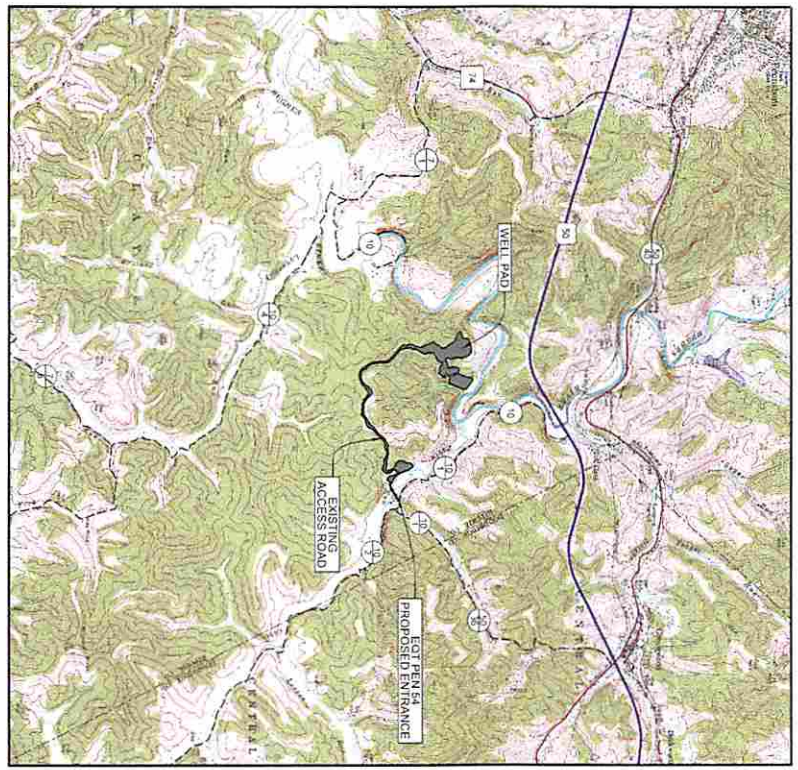
MISS UTILITY STATEMENT
 MISS UTILITY OF WEST VIRGINIA WAS NOTED FOR THE LOCATION OF UTILITY PRIOR TO THE PROJECT DESIGN. TYPICAL REISSUES, IN ADDITION, MISS UTILITY WILL BE CONDUCTED PRIOR TO START OF THE PROJECT.

ENVIRONMENTAL NOTES
 A WETLAND DELINEATION WAS PERFORMED BY POTESTKA & ASSOCIATES ON 8/20/14. A WETLAND DELINEATION REPORT IS ATTACHED TO THIS PLAN. THE REPORT RECOMMENDS THAT THE WETLANDS BE PROTECTED FROM DISTURBANCE. THE REPORT RECOMMENDS THAT THE WETLANDS BE PROTECTED FROM DISTURBANCE. THE REPORT RECOMMENDS THAT THE WETLANDS BE PROTECTED FROM DISTURBANCE.

GEOTECHNICAL NOTES
 A SOIL BORING INVESTIGATION WAS NOT BEEN PERFORMED AS OF 8/20/2014. THE INVESTIGATION SHOULD BE CONDUCTED PRIOR TO CONSTRUCTION. THE INVESTIGATION SHOULD BE CONDUCTED PRIOR TO CONSTRUCTION. THE INVESTIGATION SHOULD BE CONDUCTED PRIOR TO CONSTRUCTION.

RESTRICTIONS NOTES
 1. THERE ARE RETAINMENT STREAMS, LAKES, PONDS, OR RESERVOIRS WITHIN 100 FEET OF THE PROJECT LOD. THESE ARE WITHIN 100 FEET OF THE LOD AND A BUFFER FROM THE WOODPILL WILL BE APPLIED FOR THROUGH THE PROJECT LOD.
 2. THERE ARE NO NATURALLY PRODUCING TROUT STREAMS WITHIN 500 FEET OF THE PAD AND LOD.
 3. THERE ARE NO DISCHARGING WATER FROM OR PUBLIC WATER SUPPLY FACILITIES WITHIN 1000 FEET OF THE PAD AND LOD.
 4. THERE ARE NO DISCHARGING WATER FROM OR PUBLIC WATER SUPPLY FACILITIES WITHIN 1000 FEET OF THE PAD AND LOD.
 5. THERE ARE NO OCCUPIED DWELLING STRUCTURES WITHIN 625 FEET OF THE CENTER OF THE PAD.
 6. THERE ARE NO OCCUPIED DWELLING STRUCTURES WITHIN 1250 FEET WITHIN 125 FEET OF THE CENTER OF THE PAD.

EQT PEN 54 SITE PLAN
EQT PRODUCTION COMPANY
 PROPOSED WELL NO. H1 WV/514474, H2 WV/514475,
 H3 WV 514476, H4 WV/514477, H5 WV/514478,
 H6 WV/514479, H7 WV/514480, H8 WV/515874, H9 WV/516206,
 H10 WV/516207, H11 WV/516208
 SITUATE ON THE WATERS OF NORTH FORK HUGHES
 RIVER IN CLAY DISTRICT, RITCHEE COUNTY, WV



GRID NORTH AND ELEVATIONS SHOWN HEREON WERE ESTABLISHED BY SURVEY GRADE GPS.

LIST OF DRAWINGS

SHEET NO.	DESCRIPTION
1	TITLE SHEET
2	GENERAL NOTES
3A	OVERALL PLAN/SHEET INDEX
3-B	ACCESS ROAD AND WELL SITE LAYOUT
13-22	WELL PAD/COMPLETION PIT/COMPLETION CROSS SECTIONS
24-29	ACCESS ROAD PROFILE
30-33	ACCESS ROAD CROSS SECTIONS
34	EXCESS MATERIAL STOCKPILE PROFILES
35-37	EXCESS MATERIAL STOCKPILE CROSS SECTIONS
39-44	TOPSOIL STOCKPILE PROFILES
45-47	TOPSOIL STOCKPILE CROSS SECTIONS
48-51	RECLAMATION PLAN
52-53	CONSTRUCTION DETAILS
54-55	CONSTRUCTION QUANTITIES

LEGEND

EX INDEX CONTOUR	EX INTERMEDIATE CONTOUR	EX BOUNDARY LINE	EX EDGE OF ROAD PAVEMENT	EX GROUNDWATER	EX OVERHEAD UTILITY	EX OVERHEAD UTILITY ROW	EX UTILITY POLE	EX GUY WIRE	EX TELEPHONE LINE	EX GASLINE BW	EX WATERLINE	EX WATER WELL	EX GAS WELL	EX FENCELINE	EX REFERENCE TREE	EX DECONTAMINATED STREAM	EX DECONTAMINATED WETLAND	EX BUILDING	
PROJ INDEX CONTOUR	PROJ INTERMEDIATE CONTOUR	PROJ OUTLINE	PROJ HILLLINE	PROJ LIMITS OF DISTURBANCE	PROJ ENVIRONMENTAL ASSESSMENT	PROJ WELL PAD	PROJ COMPLETION BINN	PROJ ROAD CENTERLINE	PROJ LAT BOTTOM/DIRCH	PROJ VERTIC	PROJ CHECKDAMS	PROJ GUY WIRE	PROJ SPRAY GUN/DIR PROTECTION	PROJ SPRAY NET/ PROTECTION	PROJ COMPOST/TULSEROCK	PROJ HILLLINE	PROJ ROCK CONSTRUCTION	PROJ ROCK CONSTRUCTION	PROJ ROCK CONSTRUCTION
EX INDEX CONTOUR	EX INTERMEDIATE CONTOUR	EX BOUNDARY LINE	EX EDGE OF ROAD PAVEMENT	EX GROUNDWATER	EX OVERHEAD UTILITY	EX OVERHEAD UTILITY ROW	EX UTILITY POLE	EX GUY WIRE	EX TELEPHONE LINE	EX GASLINE BW	EX WATERLINE	EX WATER WELL	EX GAS WELL	EX FENCELINE	EX REFERENCE TREE	EX DECONTAMINATED STREAM	EX DECONTAMINATED WETLAND	EX BUILDING	
PROJ INDEX CONTOUR	PROJ INTERMEDIATE CONTOUR	PROJ OUTLINE	PROJ HILLLINE	PROJ LIMITS OF DISTURBANCE	PROJ ENVIRONMENTAL ASSESSMENT	PROJ WELL PAD	PROJ COMPLETION BINN	PROJ ROAD CENTERLINE	PROJ LAT BOTTOM/DIRCH	PROJ VERTIC	PROJ CHECKDAMS	PROJ GUY WIRE	PROJ SPRAY GUN/DIR PROTECTION	PROJ SPRAY NET/ PROTECTION	PROJ COMPOST/TULSEROCK	PROJ HILLLINE	PROJ ROCK CONSTRUCTION	PROJ ROCK CONSTRUCTION	PROJ ROCK CONSTRUCTION

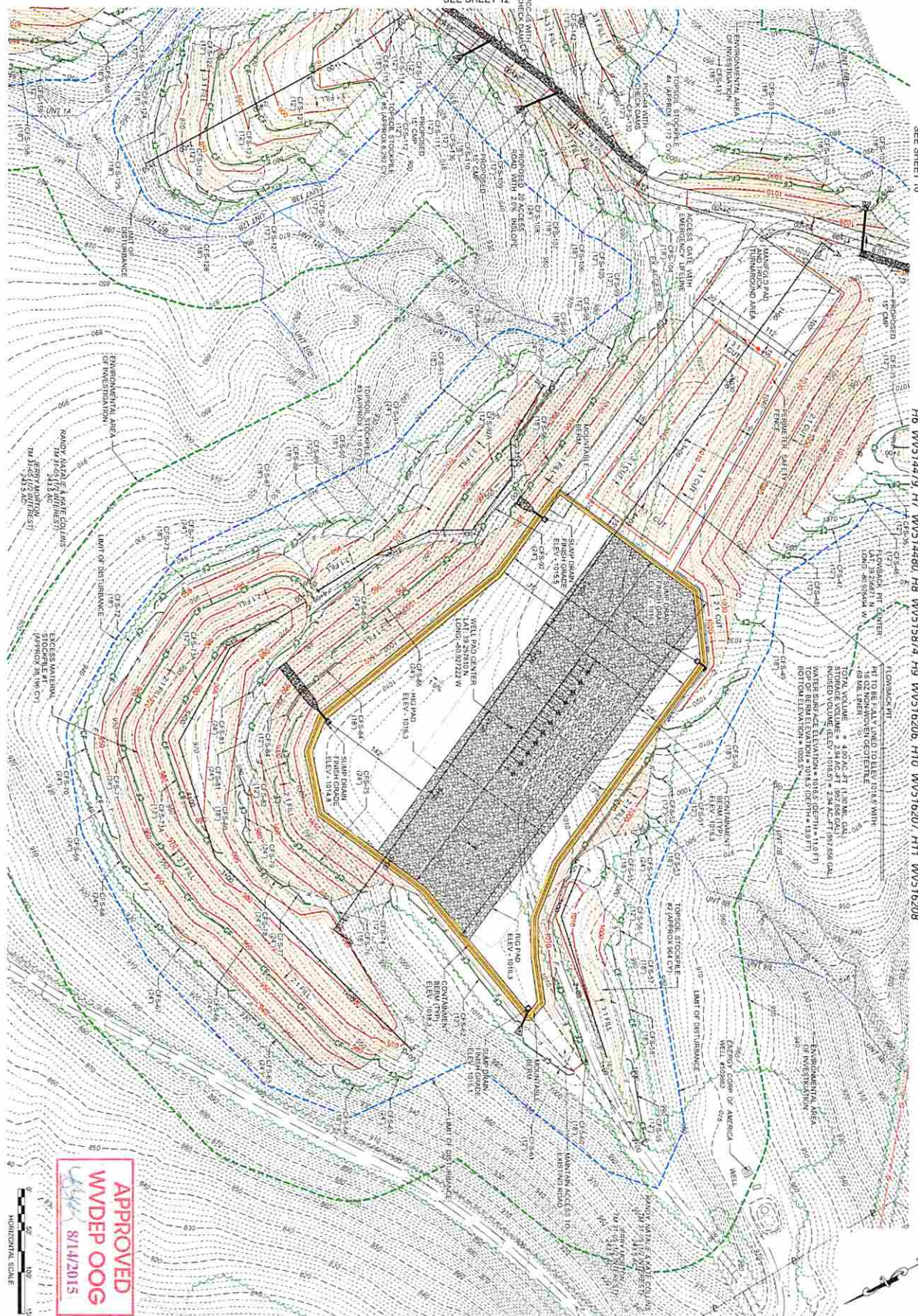
OPERATOR
 EQT PRODUCTION COMPANY
 OPERATOR ID: 300888
 P.O. BOX 286
 WY 26100
 PHONE: (304) 355-3300

ENGINEER
 STANTER CONSULTING, INC.
 111 ELMORE STREET
 PARKERSBURG, WV 26104
 PHONE: (304) 361-9600

SURVEYOR
 SMITH LAND SURVEYING, INC.
 12 WASHINGTON DRIVE
 PO BOX 150
 PARKERSBURG, WV 26101
 PHONE: (304) 467-5934

SEE SHEET 12

SEE SHEET 10



EQT PEN 54 WELL PAD SITE PLAN
 PROPOSED WELL NO. H1 W/514474, H2 W/514475, H3 W/514476, H4 W/514477, H5 W/514478,
 H6 W/514479, H7 W/514480, H8 W/515874, H9 W/515874, H10 W/516206, H11 W/516207, H11 W/516208

LEAKBACK RPT
 HIT TO BE TALL ENOUGH TO BE TALL WITH
 LAT 33.6471 N
 LONG. 103.0364 W
 TOTAL VOLUME = 4,000.00 FT³ (80,000 GALS)
 STORAGE VOLUME = 238 AC. FT (4,760,000 GALS)
 WATER SURFACE ELEVATION = 1083.5 (DEPTH = 110 FT)
 BOTTOM ELEVATION = 1082.5 (DEPTH = 110 FT)

APPROVED
WVDEP OOG
 8/14/2015



DATE	DESCRIPTION
08/20/15	ISSUED FOR PERMITS
08/20/15	ISSUED FOR PERMITS
08/20/15	ISSUED FOR PERMITS
08/20/15	ISSUED FOR PERMITS

WELL PAD LAYOUT
EQT PEN 54
 CLAY DISTRICT
 RITCHIE COUNTY WV



Professional Energy Consultants
 A DIVISION OF BRITANNIA ENERGY SERVICES, INC.
SLS
 SERVICES PROVIDED:
 ENVIRONMENTAL
 PROJECT MGMT.
 1000 W. 10th Street
 Oklahoma City, Oklahoma 73102
 Phone: 405.462.1000

Stantec
 111 FLORISSANT STREET
 SUITE 200
 OKLAHOMA CITY, OKLAHOMA 73102
 PHONE: 405.462.1000

08/21/2015