



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: 47-8510231, 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: 516207
Farm Name: MORTON, JERRY
API Well Number: 47-8510231
Permit Type: Horizontal 6A Well
Date Issued: 08/17/2015

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PERMIT CONDITIONS

4708510231

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.

API Number: _____

PERMIT CONDITIONS 4708510231

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.

4708510231

API NO. 47 - 085 -
OPERATOR WELL NO. 516207
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: 516207 Well Pad Name: PEN54

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

4) Elevation, current ground: 1,022.0 Elevation, proposed post-construction: 1,016.0

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

Other

(b) If Gas: Shallow Deep

Horizontal

6) Existing Pad? Yes or No: no

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

Target formation is Marcellus at a depth of 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: 17,390

11) Proposed Horizontal Leg Length: 10,600

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:

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API NO. 47 - 85 -
OPERATOR WELL NO. 516208
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	17,256	17,256	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							
Intermediate	9 5/8	12 3/8	0.395	3,950	3160	* See Note 2	1.21
Production	5 1/2	8 1/2	0.361	12,640	10112	-	1.27/1.86
Tubing							
Liners							

Packers

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

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

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

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

Drill and complete a new horizontal well in the marcellus formation. The vertical drill to go down to an approximate depth of 5367 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 psl, 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 % Calcium Carbonate. Acid solubility.

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

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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.

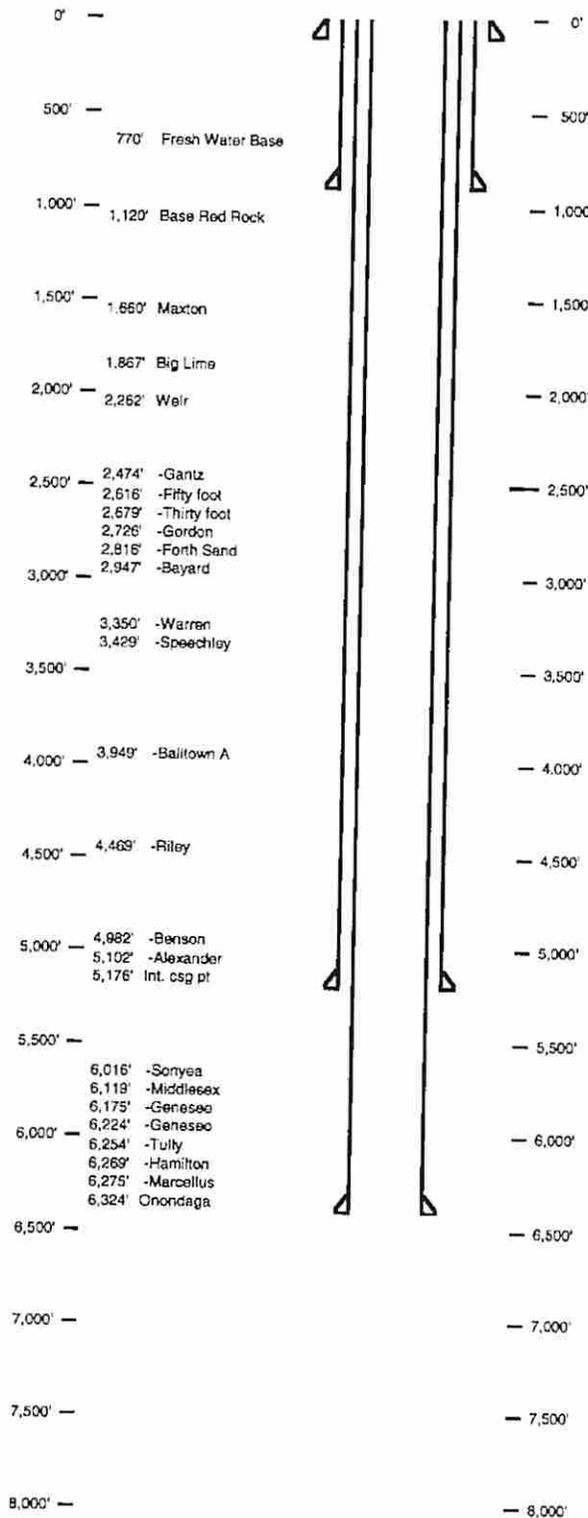
*Note: Attach additional sheets as needed.

4708510231

Well Schematic
EQT Production

Well Name
County
State
West Virginia

Elevation KB:
Target
Prospect
Azimuth
Vertical Section



Hole Size 24" - 20" Conductor at 40'
BK Size 17.5"

TOC • Surface
13 3/8", MC-50, 54.6# • 17.5" R MD
BK Size 12.375"

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TOC •
9 5/8", MC-50, 40# • 17.5" R MD
BK Size 8.5"

KOP •
10 Deg DLS

Land •
R MD
R TVD

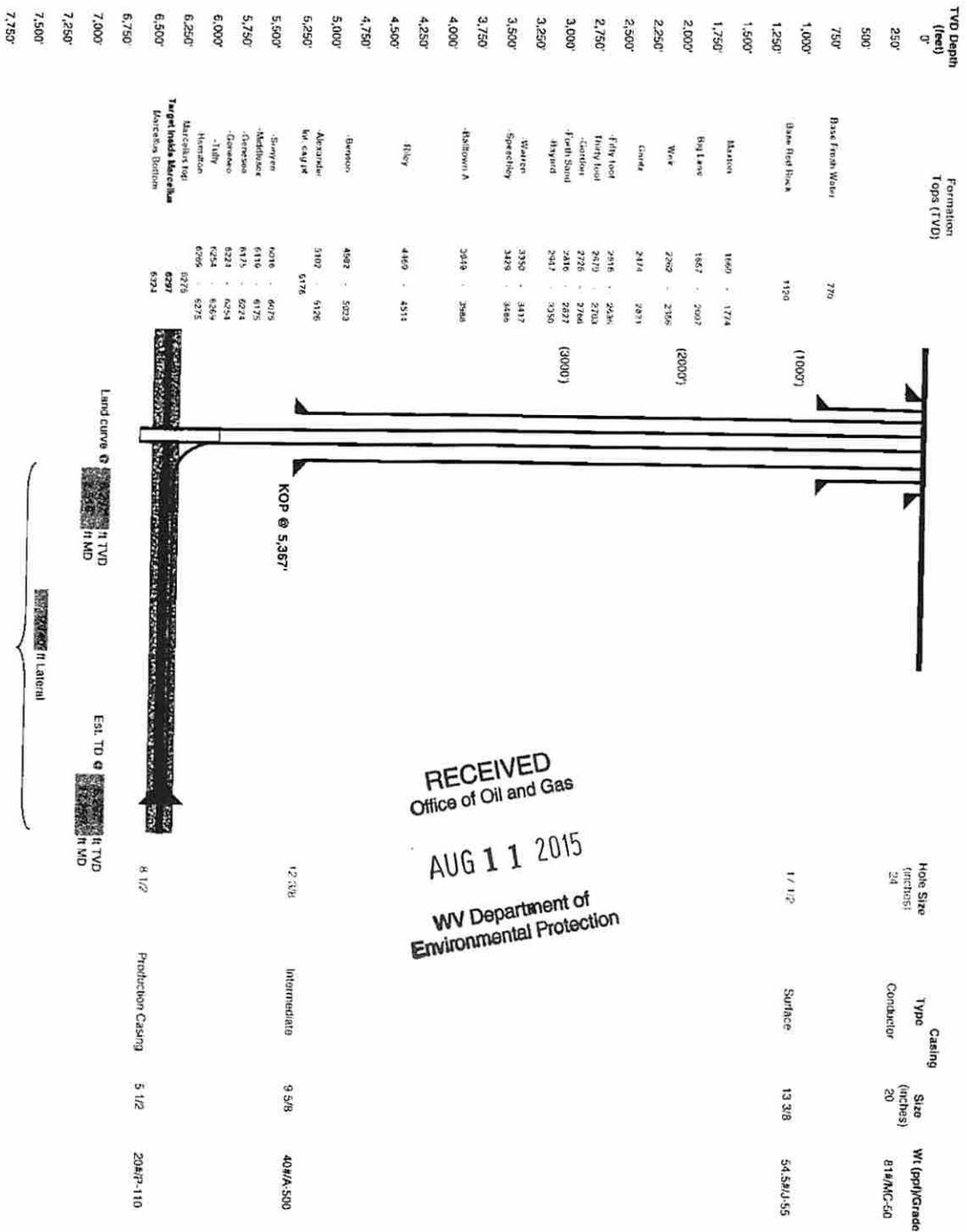
5 1/2", P-110, 20#
R MD
R TVD

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EQT Production
PENS4H11

West Virginia

Vertical Section



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Proposed Well Work:
DRL and complete a new horizontal well in the Marcellus formation.
The vertical drill to go down to an approximate depth of 5367'.
Then kick off the horizontal leg into the Marcellus using a slick water frac.



4708510231

April 8, 2015

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

Re: Casing on Wells (PEN54)

Dear Mr. Smith,

EQT is requesting the 13-3/8" surface casing be set at 870' KB, 100' below the deepest fresh water. This will cover up red rock formations that have given EQT drilling issues in the past. We will set the 9-5/8" intermediate string at 5176' KB, 50' below the porosity zone in the Alexander formation.

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

Sincerely,

Vicki Roark
Permitting Supervisor

Enc.

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Duck
1-15-15



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Charleston, WV 25304
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(304) 926-0452 fax

Earl Ray Tomblin, Governor
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March 18, 2014

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

Re: Cement Variance Request

Dear Sir or Madam,

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

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

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

Sincerely,

James Peterson
Environmental Resources Specialist / Permitting

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

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

REPORT OF THE OFFICE

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

FINDINGS OF FACT

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

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CONCLUSIONS OF LAW

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

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

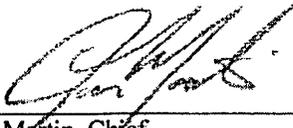
ORDER

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

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

IN THE NAME OF THE STATE OF WEST VIRGINIA

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



James Martin, Chief
Office of Oil and Gas

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WW-9
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Page 1 of 2
API No. 47 - 085 - 10232
Operator's Well No. 516208

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

Drill cuttings disposal method? Leave in pit, landfill, removed offsite, etc. Landfill
- If left in pit and plan to solidify what medium will be used? (Cement, Lime, sawdust) n/a
- Landfill or offsite name/permit number? See Attached List

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

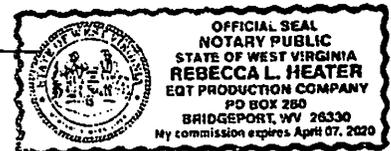
I certify that I understand and agree to the terms and conditions of the GENERAL WATER POLLUTION PERMIT issued on August 1, 2005, by the Office of Oil and Gas of the West Virginia Department of Environmental Protection. I understand that the provisions of the permit are enforceable by law. Violations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

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

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

Subscribed and sworn before me this 11 day of August, 20 15
Rebecca J. Heater Notary Public

My commission expires 4-7-20



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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 13 lbs/acre (500 lbs minimum)

Mulch 2 Tons/acre

Seed Mixtures

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

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

Photocopied section of involved 7.5' topographic sheet.

Plan Approved by: *David Wilson*

Comments: *gravel & mulch all cut area no less than 2 ton per acre maintain all pH 5 during operation*

Title: *oil & gas inspector* Date: *7-15-13*

Field Reviewed? () Yes () No

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EQT Production Water plan
Offsite disposals for Marcellus wells

CWS TRUCKING INC.

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

LAD LIQUID ASSETS DISPOSAL INC.

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

TRI COUNTY WASTE WATER MANAGEMENT, INC.

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

Waste Management - Meadowfill Landfill

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

Waste Management - Northwestern Landfill

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

BROAD STREET ENERGY LLC

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

TRIAD ENERGY

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

KING EXCAVATING CO.

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

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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

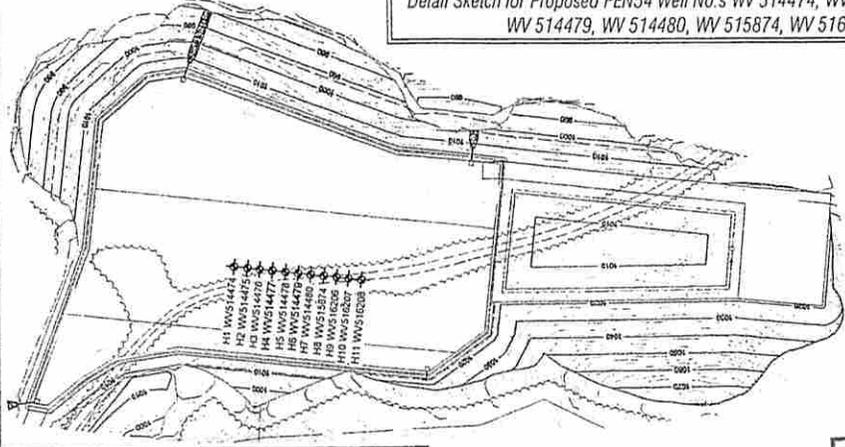
SHEET 2 OF 2
SCALE: 1"=500'



MATCH LINE

10908

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.

Professional Energy Consultants
DIVISION OF BATHLAND 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

[Signature] Not To Scale

4708510234

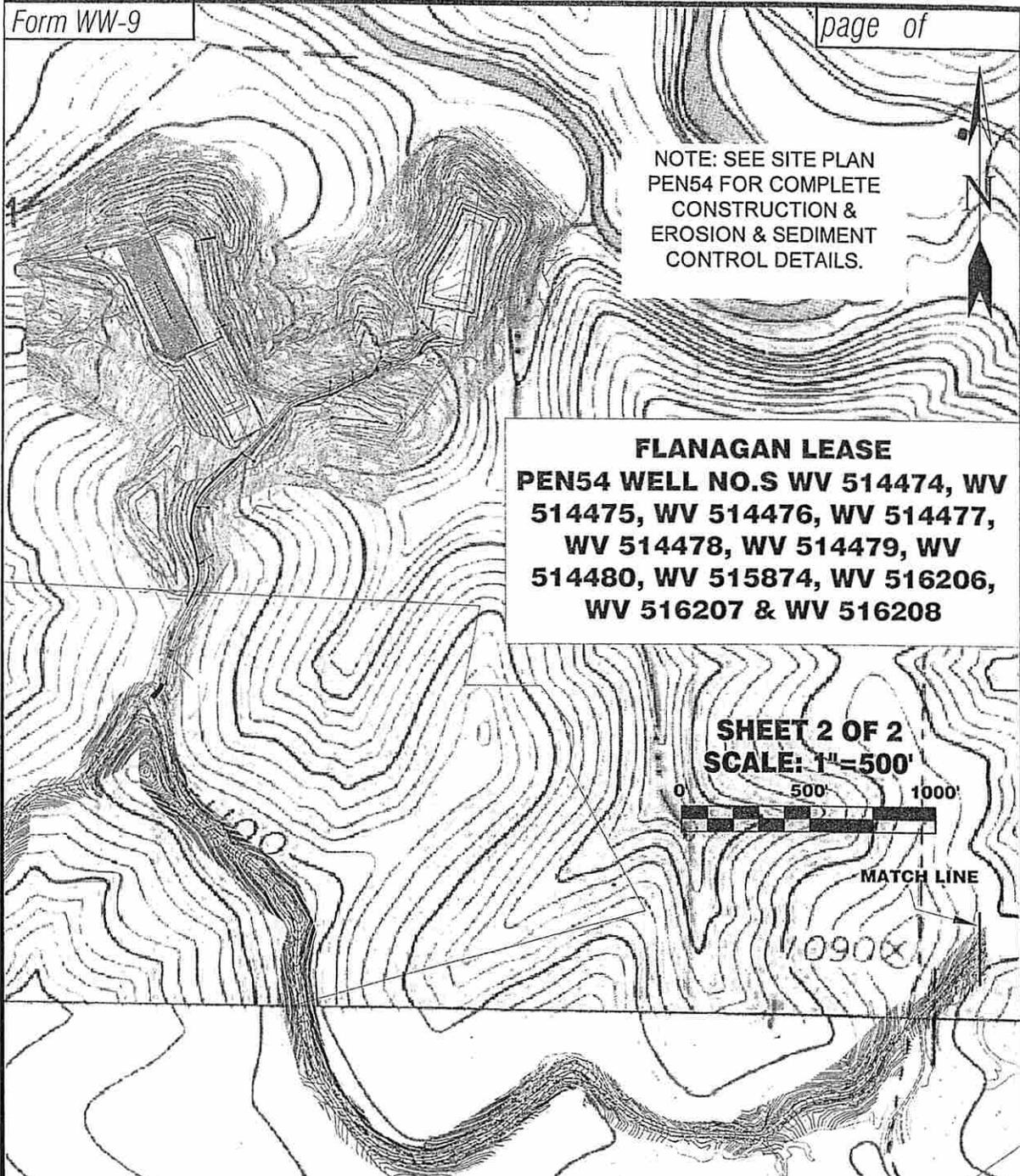
NOTE: SEE SITE PLAN PEN54 FOR COMPLETE CONSTRUCTION & EROSION & SEDIMENT CONTROL DETAILS.

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

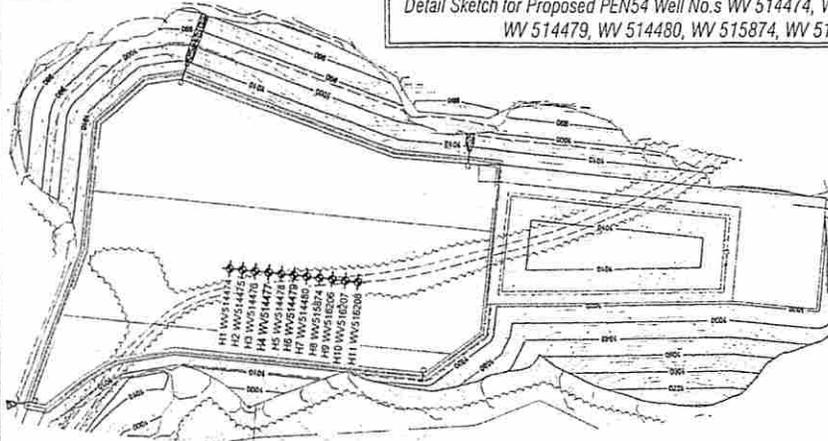
SHEET 2 OF 2
SCALE: 1"=500'



MATCH LINE



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.

Professional Energy Consultants
A DIVISION OF SMITHLAND SURVEYING, INC.



SURVEYORS
ENGINEERS
ENVIRONMENTAL
PROJECT MGMT.

TOPO SECTIONS OF PENNSBORO 7.5' TOPO QUADRANGLE

DRAWN BY K.D.W.	FILE NO. 8083	DATE 06-25-15	CADD FILE: 8083PEN54REC.dwg
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[Signature]
Not To Scale



4708510231

Where energy meets innovation.™

Site Specific Safety Plan

EQT PEN 54 Pad

Toll Gate
Ritchie County, WV

For Wells:

516207

Date Prepared:

November 17, 2014

EQT Production

Title

Date

WV Oil and Gas Inspector

Title

Date

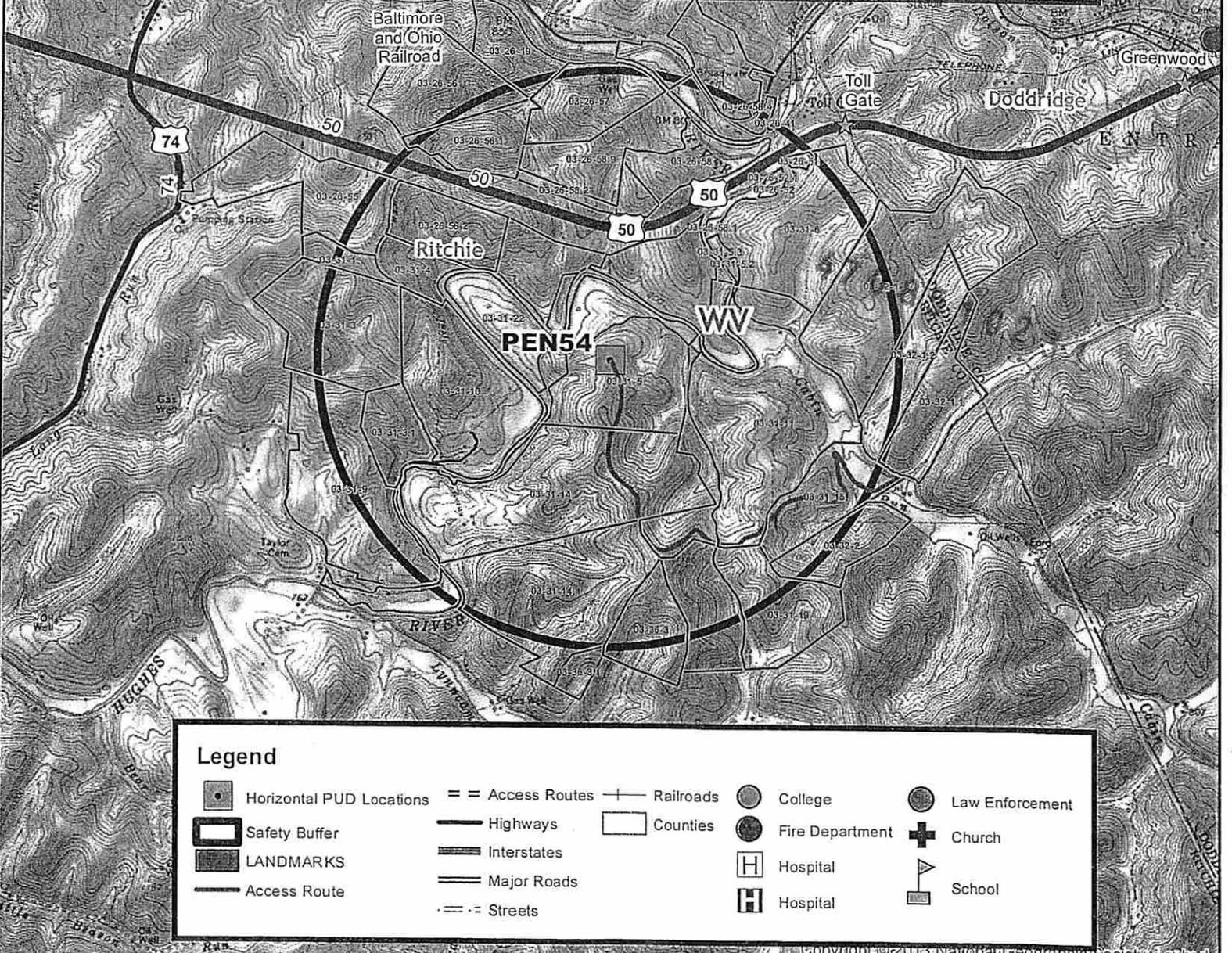
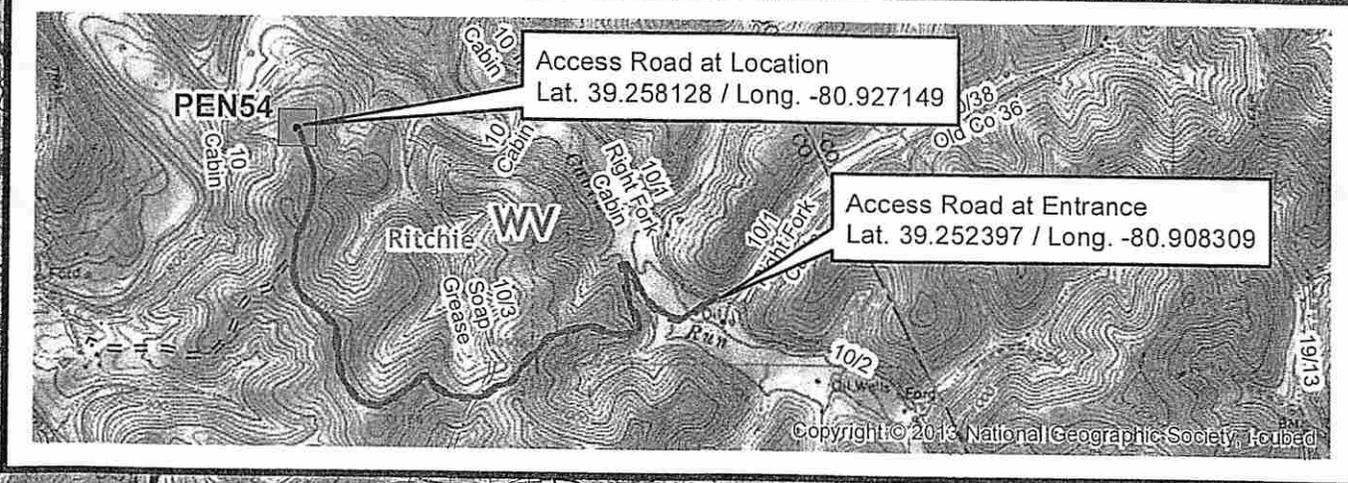
Permitting Supervisor

7-2-15

oil & gas inspector

7-13-15

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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: ES/mmw
 Plotted By: mmw/mmw 9/17/2015
 Map Date: Dec Land GIS - White Oak Office

4708510231

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. THE EXACT LOCATION OF THE FACILITIES INCLUDING BUT NOT LIMITED TO WELLS, PIPELINES, STRUCTURES, FACILITIES, LEASE BOUNDARIES OR ANY OTHER 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 REPRESENTATION OR WARRANTY AS TO THE ACCURACY OF THE MAP OR THE INFORMATION SHOWN THEREON. THE SPECIFIC LOCATION OF ANY OF THE INFORMATION, INCLUDING ANY 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.

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

6/17/15

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Page 1 of 2

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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Well ID	Prior Operator on Record	Operator-DEP*	Status	Latitude	Longitude	Vertical TD	Closest Distance from PEN54 Lateral Map View	PEN54 Vertical TD	Hypotenuse Distance	Producing Formation	Gas Show/Pay Zone Depths
4708500472	McLurey, Glen F	OPERATOR UNKNOWN	Abandoned Well	39.263	-80.9199	1776	113	7106	7106.898409	Big Injun	1752
4708500501				39.2598	-80.9311	1777	265	7087	7091.952764	Big Injun	1705
4708502274	Hodge, T.F.	MOUNTAIN STATE OIL COMPANY LLC	GAS - Active	39.2349	-80.92349	2404	1319	7714	7825.954063	Big Injun, Berea, U. Dev	1842-2387
4708503549	Mulvin Oil Corp.	MOUNTAIN STATE OIL COMPANY LLC	GAS - Active	39.2316	-80.91713	2534	184	7844	7846.157786	Big Injun	2450
4708503651	Mulvin Oil Corp.	MOUNTAIN STATE OIL COMPANY LLC	GAS - Active	39.2352	-80.9172	1980	231	7290	7293.658958	Big Injun	1880
4708503919	Carnegie Natural Gas Co		Plugged	39.23089	-80.9094	2079	202	7369	7391.766616		
4708503967			Plugged	39.268067	-80.920055	1764	239	7074	7078.036239		
4708503975			Abandoned Well	39.24291	-80.92534	1924	303	7234	7240.342879	Big Injun	1668-1849
4708504097			GAS - Active	39.24479	-80.93999	1845	1177	7155	7751.116252	Big Injun	1653-1790
4708504094	Mulvin Oil Corp.	MOUNTAIN STATE OIL COMPANY LLC	GAS - Active	39.2371	-80.9236	2506	658	7816	7843.648386	Big Injun	2006-2284
4708504182	Haught, Glen L and Sons	KEY OIL COMPANY	GAS - Active	39.2722	-80.9201	2410	249	7720	7723.575921	Big Injun, Wier	1876-2141
4708504223	Haught, Glen L and Sons	KEY OIL COMPANY	New Drilled	39.26472	-80.93333	1051	235	10636	10638.91428		
4708504244	Carnegie Natural Gas Co		Abandoned Well	39.27859	-80.93312	2017	180	7327	7329.210667		
4708504248	Carnegie Natural Gas Co		Plugged	39.27328	-80.929227	1732	1020	7042	7115.487615		
4708504578	Perkins Oil and Gas	PERKINS OIL & GAS INC	GAS - Active	39.2586	-80.9179	2535	1459	7845	7975.517905	Big Injun	1672-1757
4708504873	Carnegie Natural Gas Co		GAS - Active	39.235	-80.912	5990	135	11300	11300.80639	Bradford, Big Injun	4222-5040
4708507611	Haddad & Brooks, Inc.	KEY OIL COMPANY	GAS - Active	39.2708	-80.92	5213	97	10523	10523.44706	Riley, Benson, Alexander	4300-4984
4708507642	Haddad & Brooks, Inc.	KEY OIL COMPANY	GAS - Active	39.2766	-80.9232	5300	75	10610	10610.26508	Riley, Benson, Alexander	4429-5094
4708507644	Haddad & Brooks, Inc.	KEY OIL COMPANY	GAS - Active	39.267	-80.9234	5375	351	10685	10690.76358	Riley, Benson, Alexander	4500-5186
4708507654	Haddad & Brooks, Inc.	ENERGY CORPORATION OF AMERICA	GAS - Active	39.2523	-80.9329	4506	822	9816	9850.357354	Maxton, Big Injun, Warren, Riley	1888-4346
4708507682	Energy, A Partnership	KEY OIL COMPANY	GAS - Active	39.27274	-80.9254	5123	333	10433	10438.31299	Riley, Benson, Alexander	4215-4891
4708507684	Energy, A Partnership	ENERGY CORPORATION OF AMERICA	GAS - Active	39.27277	-80.9113	5389	667	10699	10742.61095	Warren, Riley	3427-4602
4708507686	Eastern American Energy Corp	ENERGY CORPORATION OF AMERICA	GAS - Active	39.2477	-80.9306	4942	906	10252	10291.95511	Warren, Riley	3307-4797
4708507704	Eastern American Energy Corp	ENERGY CORPORATION OF AMERICA	GAS - Active	39.2442	-80.9275	4988	620	10263	10316.64694	Warren, Bradford	3335-4475
4708507705	Eastern American Energy Corp	ENERGY CORPORATION OF AMERICA	GAS - Active	39.2529	-80.9224	4933	84	10263	10263.34375	Big Injun, Warren, Bradford	1909-4447
4708507713	Eastern American Energy Corp	ENERGY CORPORATION OF AMERICA	GAS - Active	39.2494	-80.9257	4678	336	9989	9993.649984	Warren, Speachtley, Riley	3381-4528
4708507714	Eastern American Energy Corp	KEY OIL COMPANY	GAS - Active	39.2829	-80.923	5220	839	10530	10563.37167	Riley, Benson, Alexander	4322-5013
4708507762	Eastern American Energy Corp	ENERGY CORPORATION OF AMERICA	GAS - Active	39.2455	-80.9215	4773	174	10083	10084.50123	Maxton, Keener, Warren, Riley	1932-4887
4708507764	Eastern American Energy Corp	ENERGY CORPORATION OF AMERICA	GAS - Active	39.2474	-80.9117	5013	670	10232	10344.71986	Maxton, Keener, Warren, Riley	1900-4325
4708507765	Eastern American Energy Corp	ENERGY CORPORATION OF AMERICA	GAS - Active	39.2431	-80.9172	4521	15	9831	9831.011443	Big Injun, Warren, Bradford	1792-4310
4708507767	Eastern American Energy Corp	ENERGY CORPORATION OF AMERICA	GAS - Active	39.2544	-80.9276	4678	90	9988	9988.405478	Warren, Bradford	3349-4491
4708507768	Eastern American Energy Corp	ENERGY CORPORATION OF AMERICA	GAS - Active	39.2413	-80.9243	4604	219	9914	9916.418557	Maxton, Big Injun, Warren, Speachtley, Riley	1858-4822
4708507771	Eastern American Energy Corp	ENERGY CORPORATION OF AMERICA	GAS - Active	39.2647	-80.918	5286	86	10596	10596.34899	Warren, Riley, Benson	3265-5058
4708507772	Eastern American Energy Corp	ENERGY CORPORATION OF AMERICA	GAS - Active	39.268	-80.914	5265	1373	10575	10663.75897	Warren, Riley, Benson, Alexander	3355-5061
4708507773	Eastern American Energy Corp	ENERGY CORPORATION OF AMERICA	GAS - Active	39.2639	-80.9129	5375	1288	10575	10653.14831	Warren, Speachtley, Riley, Benson	3352-5082
4708507781	Eastern American Energy Corp	ENERGY CORPORATION OF AMERICA	GAS - Active	39.2607	-80.9197	5046	547	10336	10370.4361	Warren, Riley, Alexander	3064-4866
4708507792	Eastern American Energy Corp	ENERGY CORPORATION OF AMERICA	GAS - Active	39.2628	-80.9244	5148	205	10458	10460.00903	Warren, Riley, Alexander	3176-4978
4708507794	Eastern American Energy Corp	ENERGY CORPORATION OF AMERICA	GAS - Active	39.2571	-80.9245	5160	160	10470	10471.22247	Maxton, Keener, Big Injun, Warren, Riley, Benson	1640-4869
4708507796	Eastern American Energy Corp	ENERGY CORPORATION OF AMERICA	GAS - Active	39.2519	-80.9304	5221	205	10531	10532.99511	Big Injun, Warren, Riley, Benson	1838-5033
4708507798	Eastern American Energy Corp	ENERGY CORPORATION OF AMERICA	GAS - Active	39.2562	-80.9174	5027	251	10337	10340.04691	Keener, Big Injun, Warren, Riley, Benson	1590-4862
4708507805	Eastern American Energy Corp	PERKINS OIL & GAS INC	GAS - Active	39.2381	-80.9147	2275	250	7585	7589.118855	Big Injun	1876
4708507810	Eastern American Energy Corp	ENERGY CORPORATION OF AMERICA	GAS - Active	39.2348	-80.912	4817	106	10766	10766.52182	Warren, Riley	3427-4821
4708507811	Eastern American Energy Corp	ENERGY CORPORATION OF AMERICA	GAS - Active	39.2388	-80.9199	4832	1138	10127	10190.29897	Maxton, Keener, Warren, Balltown, Riley	2004-4664
4708507814	Eastern American Energy Corp	ENERGY CORPORATION OF AMERICA	GAS - Active	39.2368	-80.9129	4432	399	9762	9770.150715	Maxton, Warren, Riley	1642-4321
4708507835	Eastern American Energy Corp	ENERGY CORPORATION OF AMERICA	GAS - Active	39.265	-80.9329	5331	399	10641	10648.47792	Warren, Riley, Alexander	3334-5124
4708507836	Eastern American Energy Corp	ENERGY CORPORATION OF AMERICA	GAS - Active	39.2602	-80.9342	5075	282	10385	10388.82809	Warren, Riley, Benson	3133-4639
4708507855	Eastern American Energy Corp	ENERGY CORPORATION OF AMERICA	GAS - Active	39.2681	-80.937	5365	1235	10675	10746.20165	Warren, Riley, Alexander	3322-5106
4708507856	Eastern American Energy Corp	ENERGY CORPORATION OF AMERICA	GAS - Active	39.2704	-80.9333	5314	514	10624	10636.42666	Warren, Riley, Alexander	3280-5068
4708507856	Eastern American Energy Corp	ENERGY CORPORATION OF AMERICA	GAS - Active	39.2326	-80.9365	4446	434	9756	9765.64857	Warren, Riley	3133-4274
4708507858	Eastern American Energy Corp	ENERGY CORPORATION OF AMERICA	GAS - Active	39.2338	-80.9211	4534	472	9844	9855.309229	Warren, Riley	3212-4354
4708507863	Eastern American Energy Corp	ENERGY CORPORATION OF AMERICA	GAS - Active	39.2294	-80.9204	5196	966	10560	10550.31715	Warren, Riley, Benson	3445-4921
4708507866	Eastern American Energy Corp	ENERGY CORPORATION OF AMERICA	GAS - Active	39.2622	-80.9413	5380	1477	10477	10791.5536	Warren, Riley, Alexander	3315-5112
4708507891	Eastern American Energy Corp	ENERGY CORPORATION OF AMERICA	GAS - Active	39.2709	-80.9289	5272	5	10582	10582.00118	Warren, Riley, Alexander	3315-5112
4708507891	Eastern American Energy Corp	ENERGY CORPORATION OF AMERICA	GAS - Active	39.2804	-80.9203	5371	402	10690	10699.62728	Warren, Riley, Alexander	3315-5112
4708507905	Eastern American Energy Corp	ENERGY CORPORATION OF AMERICA	GAS - Active	39.2843	-80.9279	5146	1149	10681	10742.62361	Warren, Riley, Alexander	3390-5193
4708507969	Eastern American Energy Corp	ENERGY CORPORATION OF AMERICA	GAS - Active	39.2555	-80.9375	5172	942	10482	10496.4749	Warren, Riley, Benson, Alexander	3391-5015
4708508162	KEY OIL COMPANY	KEY OIL COMPANY	GAS - Active	39.2776	-80.9306	5140	1412	10450	10544.96297	Riley, Benson, Alexander	4338-4712
4708508163	KEY OIL COMPANY	KEY OIL COMPANY	GAS - Active	39.281	-80.9294	5090	1216	10400	10470.84791	Riley, Benson, Alexander	4326-4894
4708508173	KEY OIL COMPANY	KEY OIL COMPANY	GAS - Active	39.2738	-80.93	4991	712	10501	10523.57722	Riley, Benson, Alexander	4276-4933
4708530382	H BRENN	GAS - Active	1860	39.25889	-80.9358	1860	161	7143	7171.807373	Big Injun	4239-4891
4708530516	HOPE NAT GAS	GAS - Active	1733	39.27667	-80.93	1733	143	7049	7135.145268	Maxton, Big Injun	1550-1694
4708530547	PGH & WV GAS	GAS - Active	1833	39.26222	-80.93111	1833	35	7133	7133.085868	Big Injun, Squaw	1708-1800

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4708530659
4708530675
4708530815
4708530816
4708531355

PGH & WV GAS
PGH & WV GAS
F S DEEM
F S DEEM
EPC

GAS - Active
GAS - Active
Unknown
Unknown
Unknown

39,28417 -80,92333
39,25167 -80,92611
39,23972 -80,91889
39,23972 -80,91611
39,27083 -80,92833

1897
2001
1693
1067
1999

784
107
2
232
310

7147 7189,87291 Maxton
7351 7351,77866 Maxton, Big Injun
7003 7003,000286 Unknown
10618 10620,53428 Unknown
7309 7315,571133 Maxton, Big Injun

1577-1595
1750-1994
Unknown
Unknown
1767-1994

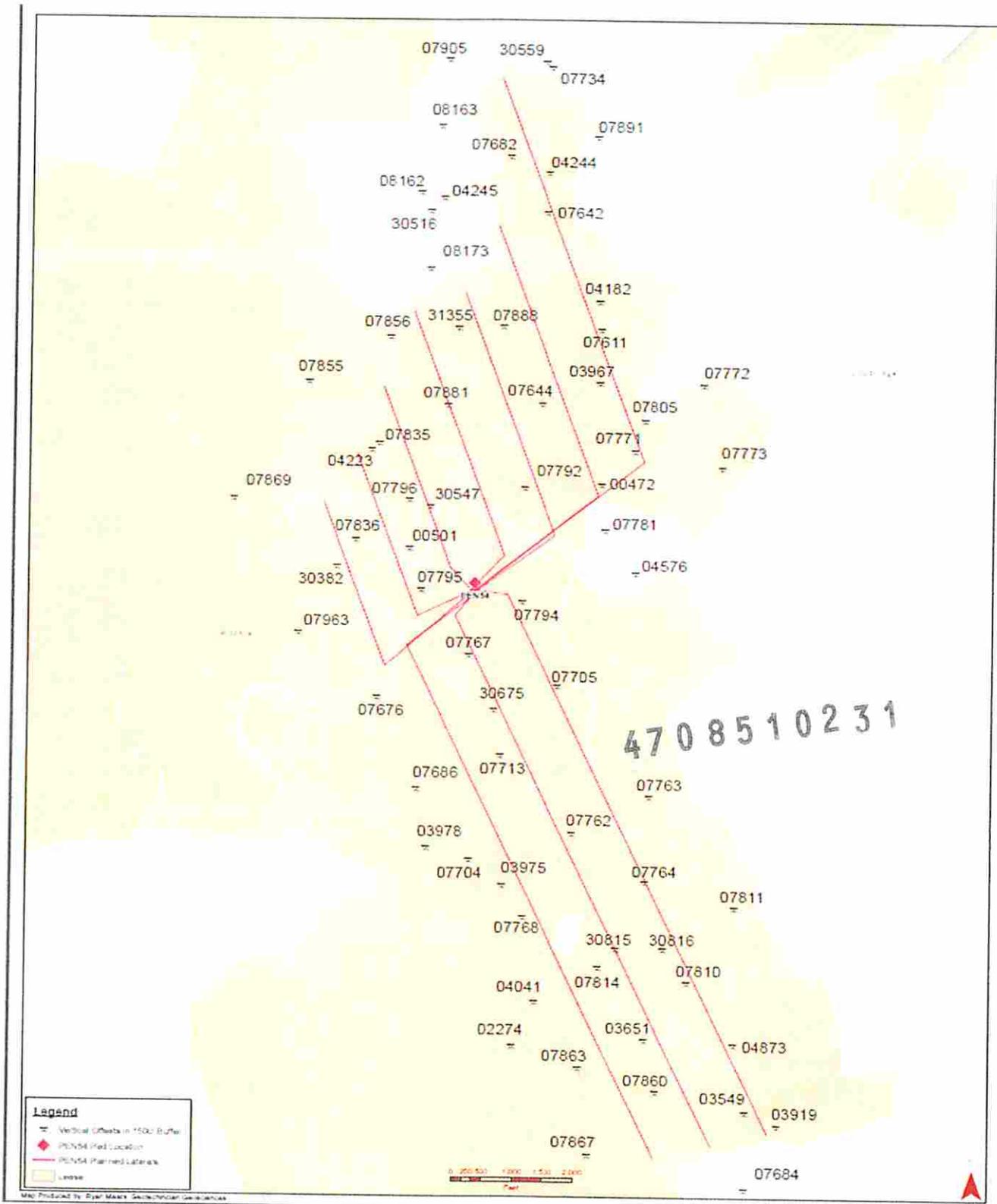
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JUL 18 2010

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Attachment A-3



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]

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).

4708510231

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

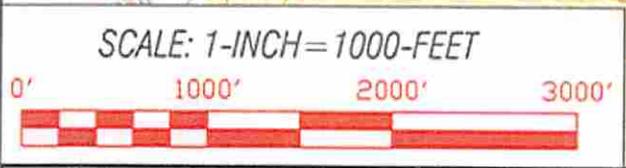
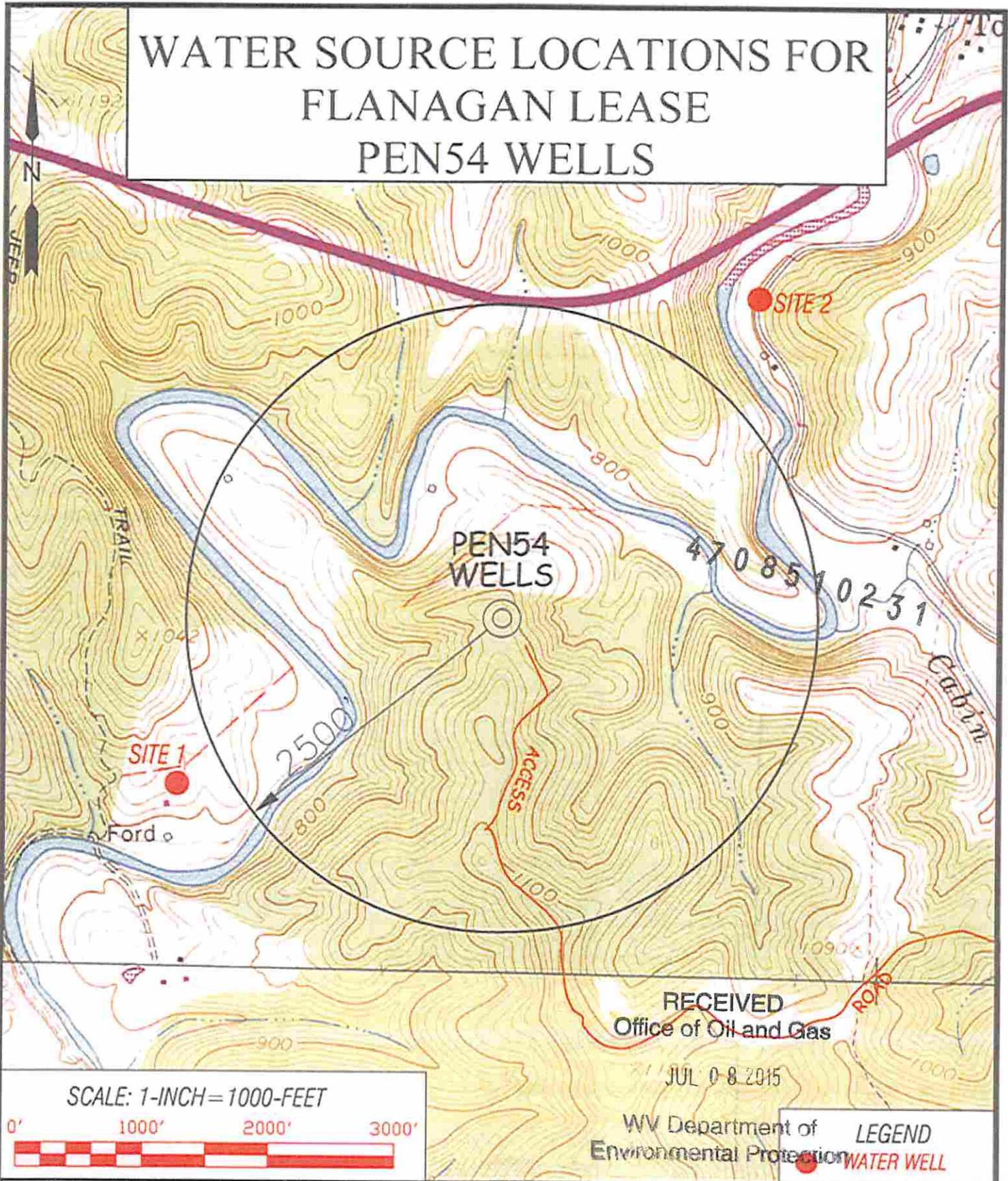
cc: James Martin, WV Office of Oil and Gas

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Office of Oil and Gas

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WV Department of
Environmental Protection
Attachment B

WATER SOURCE LOCATIONS FOR FLANAGAN LEASE PEN54 WELLS



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LEGEND
● WATER WELL

Professional Energy Consultants
A DIVISION OF SMITH LANGSAMPTON, INC.

SLS SURVEYORS
ENGINEERS
ENVIRONMENTAL
PROPERTY MANAGERS

DRAWN BY: K.D.W.
FILE NO.: 8083
DATE: 06/02/15
CADD FILE: 06/02/15/06/02/15.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 26330

LEGEND

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

LATITUDE 39°17'30"

**EQT PRODUCTION COMPANY
FLANAGAN LEASE
268 ACRES±
WELL NO. WV 516207**

(S.P.C. NORTH ZONE) (UTM(M) ZONE 17 NORTH)
NAD'27 S.P.C.(FT) N. 279,092.93 E. 1,595,832.12
NAD'27 GEO. LAT-(N) 39.257460 LONG-(W) 80.927356
NAD'83 UTM (M) N. 4,345,359.31 E. 506,282.13

LANDING POINT
NAD'27 S.P.C.(FT) N. 278,619.37 E. 1,595,463.69
NAD'27 GEO. LAT-(N) 39.256143 LONG-(W) 80.928631
NAD'83 UTM (M) N. 4,345,213.16 E. 506,172.29

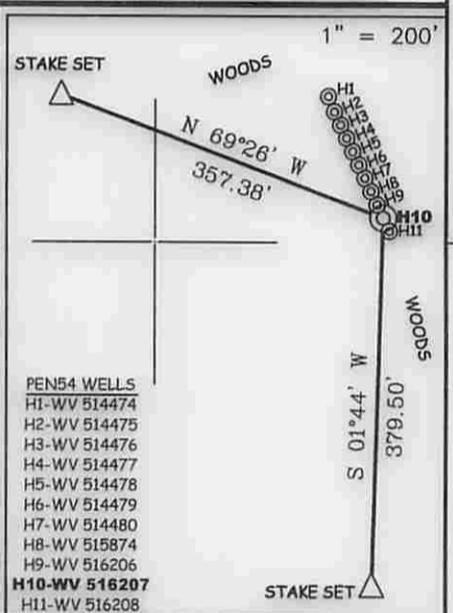
BOTTOM HOLE
NAD'27 S.P.C.(FT) N. 268,862.02 E. 1,599,605.44
NAD'27 GEO. LAT-(N) 39.229537 LONG-(W) 80.913464
NAD'83 UTM (M) N. 4,342,261.71 E. 507,483.69

ROYALTY OWNERS		
MABLE BROADWATER ET AL	360 AC±	LEASE NO. 105412
JANE PHILLIPS ET AL	55 AC±	LEASE NO. 105406
DONALD R. REYNOLDS ET AL	128 AC±	LEASE NO. 1005916
JOSEPH R. FLANAGAN ET AL	163 AC±	LEASE NO. 1005921
ORMA M. JOHNSON ET AL	557.5 AC±	LEASE NO. 105675

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.

REFERENCES



NAD'27 GRID NORTH

A	RANDALL OWENS ET AL	3.99 AC±	
B	RANDALL LAMM	43.5 AC±	TM 36-03
C	RANDALL LAMM	11.66 AC±	
D	FOUSS FARMS LLC	19 AC±	
E	FAITH E. BEE	51.88 AC±	
F	JOHN R. SUDOL ET AL	59.56 AC±	
G	RUTH HALL (LIFE)	69.5 AC±	
H	ERNEST McATEE ET AL	48.88 AC±	
I	EVERETT McATEE	16.53 AC±	
J	JUNIOR COTTRILL ET AL	33.065 AC±	TM 36-21
K	SHAWN M. GIBBONS	1.563 AC±	TM 36-11.3
L	JEFFREY L. MACE ET AL	0.50 AC±	
M	JEFFERY & ROSE JETT	0.472 AC±	TM 36-21.2
N	JEFFERY & ROSE JETT	25.015 AC±	TM 36-21.1
O	CHARLES E. COTTRILL ET AL	16.15 AC±	
P	JOHN P. COTTRILL ET AL	4.3 AC±	
Q	ROGER WILLIAMS ET AL	8.068 AC±	
R	GARY COTTRILL	5.051 AC±	TM 36-11.4
S	MARY SIMMONS (LIFE) ET AL	30 AC±	

Professional Energy Consultants
A DIVISION OF SMITH LAND SURVEYING, INC.
SLS SURVEYORS ENGINEERS ENVIRONMENTAL PROJECT MGMT.
(904) 462-6434 WWW.SLSURVEYS.COM

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

P.S. 849 *C. Victor Moyers*



(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS.
DATE JUNE 25, 20 15
REVISED JULY 01, 20 15
OPERATORS WELL NO. WV 516207
API WELL NO. 47-085-10231 WVA
STATE COUNTY PERMIT

MINIMUM DEGREE OF ACCURACY 1/200 FILE NO. 8083P516207R
HORIZONTAL & VERTICAL CONTROL DETERMINED BY DGPS (SURVEY GRADE TIE TO CORS NETWORK) SCALE 1" = 2000'

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

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

LOCATION: GROUND PROPOSED

ELEVATION 1,022' 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±

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

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

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

LONGITUDE 80°55'00"

12,459'

COUNTY NAME

PERMIT

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

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

- (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>105412</u>			Min 1/8 pd		
	Creed Collins and Susan Collins	W.A. Flanagan		LB24/317	
	W.A. Flanagan	J.L. Newman		LB53/362	
	J.L. Newman	The Philadelphia Company of West Virginia		LB53/363	
	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.		LB201/697	
	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>105406</u>			Min 1/8 pd		
	Nathaniel Dodd and Jennie Dodd	W.A. Flanagan		LB29/337	
	W.A. Flanagan	J.L. Newman		LB58/362	
	J.L. Newman	The Philadelphia Company of West Virginia		LB58/363	
	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		DB281/253	
	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

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1005916

Min 1/8 pd

Mary E. Sorrells	Eastern American Energy Corporation	LB197/229
Eastern American Energy Corporation	Energy Corporation of American (Merger)	CB6/450
Energy Corporation of American	Antero Resources Corporation	LB257/377
Antero Resources Corporation	EQT Production Company	LB277/1037

1005921

Min 1/8 pd

Robert F. Johnson, et al	Eastern American Energy Corporation	LB197/229
Eastern American Energy Corporation	Energy Corporation of American (Merger)	CB6/450
Energy Corporation of American	Antero Resources Corporation	LB257/377
Antero Resources Corporation	EQT Production Company	LB277/1037

105675

Min 1/8 pd

E.J. Taylor and Laura Taylor, his wife	J.L. Newman	LB30/149
J.L. Newman	The Philadelphia Company of West Virginia	LB91/265
E.J. Taylor etux	The Philadelphia Company of West Virginia	LB30/151
The Philadelphia Company of West Virginia	Pittsburgh and West Virginia Gas Company	LB55/362
Pittsburgh and West Virginia Gas Company	Equitable Gas Company	DB126/515
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

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

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

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

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

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

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

Page 1 of 1

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

Date of Notice Certification: 7-6-15

API No. 47 - 085 - 0
Operator's Well No. 516207
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>506,282.13</u>
County: <u>Ritchie</u>	UTM NAD 83 Northing: <u>4,345,359.31</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 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>4708510207</p> <p><input checked="" 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>
--	--

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.

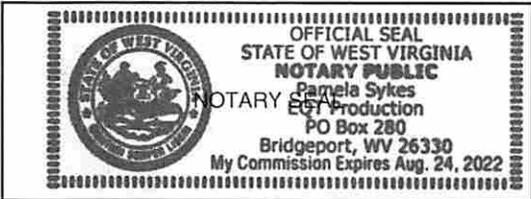
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Certification of Notice is hereby given:

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 6 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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WW-6A
(9-13)

API NO. 47 - 085 - 0
OPERATOR WELL NO. 516207
Well Pad Name: PEN54

**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

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

4708510231

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

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

OPERATOR OF ANY NATURAL GAS STORAGE FIELD

Name: _____
Address: _____

See Attached

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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 Spent ✓
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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6A

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Return Receipt (electronic) \$ _____

Certified Mail Restricted Delivery \$ _____

Adult Signature Required \$ _____

Adult Signature Restricted Delivery \$ _____

Postage
 \$ _____

Total F
 \$ _____

Sent To **Jerry Morton**

RR 1 Box 581

Street a **Pennsboro WV 26415**

City, State **Pennsboro WV 26415**

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Certified Mail Restricted Delivery \$ _____

Adult Signature Required \$ _____

Adult Signature Restricted Delivery \$ _____

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Total F
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Sent To **Heartwood Forestland Fund IV LP**

1512 East Franklin St

Street a **Suite 104**

City, State **Chapel Hill NC 27514**

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Return Receipt (electronic) \$ _____

Certified Mail Restricted Delivery \$ _____

Adult Signature Required \$ _____

Adult Signature Restricted Delivery \$ _____

Postage
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Total Postage
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Sent To **Randy Collins, Natalie Collins, Kate Collins**

5368 Muscovy Rd

Street and i **Middleburg FL 32068**

City, State **Middleburg FL 32068**

PEN54 Permit Ap & Planned Op

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Certified Mail Restricted Delivery \$ _____

Adult Signature Required \$ _____

Adult Signature Restricted Delivery \$ _____

Postage
 \$ _____

Total Postage
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Sent To **Coastal Forest Resources**

Db a Coastal Timberlands Co

Street i **PO Box 709**

City, State **Buckhannon, WV 26201**

PEN54 Permit Ap & Planned Op

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Extra Services & Fees (check box, add fee as appropriate)

<input type="checkbox"/> Return Receipt (hardcopy)	\$ _____
<input type="checkbox"/> Return Receipt (electronic)	\$ _____
<input type="checkbox"/> Certified Mail Restricted Delivery	\$ _____
<input type="checkbox"/> Adult Signature Required	\$ _____
<input type="checkbox"/> Adult Signature Restricted Delivery	\$ _____

Postage
 \$ _____

Total
 \$ _____

Sent To
 Phyllis A Rymer
 21166 State Rt 676
 Marietta OH 45750

Postmark Here
 BRIDGEPORT MO
 JUL 07 2015

PEN54 Permit Ap

PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions



7015 0640 0005 9572 2557

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Certified Mail Fee
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Extra Services & Fees (check box, add fee as appropriate)

<input type="checkbox"/> Return Receipt (hardcopy)	\$ _____
<input type="checkbox"/> Return Receipt (electronic)	\$ _____
<input type="checkbox"/> Certified Mail Restricted Delivery	\$ _____
<input type="checkbox"/> Adult Signature Required	\$ _____
<input type="checkbox"/> Adult Signature Restricted Delivery	\$ _____

Postage
 \$ _____

Total
 \$ _____

Sent To
 Byron Whealen
 678 N 38th Ave
 Deerfield Beach FL 33442

Postmark Here
 BRIDGEPORT MO
 JUL 07 2015

PEN54 Permit Ap

PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions

7015 0640 0005 9572 2540

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OFFICIAL USE

Certified Mail Fee
 \$ _____

Extra Services & Fees (check box, add fee as appropriate)

<input type="checkbox"/> Return Receipt (hardcopy)	\$ _____
<input type="checkbox"/> Return Receipt (electronic)	\$ _____
<input type="checkbox"/> Certified Mail Restricted Delivery	\$ _____
<input type="checkbox"/> Adult Signature Required	\$ _____
<input type="checkbox"/> Adult Signature Restricted Delivery	\$ _____

Postage
 \$ _____

Total Pos
 \$ _____

Sent To
 Anita W Gass
 2033 Butterfly Land
 Apt 222
 Naperville IL 60563

Postmark Here
 MPO
 JUL 07 2015

PEN54 Permit Ap

PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions

7015 0640 0005 9572 2564

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OFFICIAL USE

Certified Mail Fee
 \$ _____

Extra Services & Fees (check box, add fee as appropriate)

<input type="checkbox"/> Return Receipt (hardcopy)	\$ _____
<input type="checkbox"/> Return Receipt (electronic)	\$ _____
<input type="checkbox"/> Certified Mail Restricted Delivery	\$ _____
<input type="checkbox"/> Adult Signature Required	\$ _____
<input type="checkbox"/> Adult Signature Restricted Delivery	\$ _____

Postage
 \$ _____

Total
 \$ _____

Sent To
 Robert Singleton
 1561 Connell Rd
 Charleston WV 25314

Postmark Here
 BRIDGEPORT MO
 JUL 07 2015

PEN54 Permit Ap

PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions

7015 0640 0005 9572 2533

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Certified Mail Fee
 \$ _____

Extra Services & Fees (check box, add fee as appropriate)

<input type="checkbox"/> Return Receipt (hardcopy)	\$ _____
<input type="checkbox"/> Return Receipt (electronic)	\$ _____
<input type="checkbox"/> Certified Mail Restricted Delivery	\$ _____
<input type="checkbox"/> Adult Signature Required	\$ _____
<input type="checkbox"/> Adult Signature Restricted Delivery	\$ _____

Postage
 \$ _____

Total
 \$ _____

Sent To
 Braden M Nida
 150 Seneca Dr
 Marietta OH 45750

Postmark Here
 BRIDGEPORT MO
 JUL 07 2015

PEN54 Permit Ap

PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions

7015 0640 0005 9572 2571

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Certified Mail Fee
 \$ _____

Extra Services & Fees (check box, add fee as appropriate)

<input type="checkbox"/> Return Receipt (hardcopy)	\$ _____
<input type="checkbox"/> Return Receipt (electronic)	\$ _____
<input type="checkbox"/> Certified Mail Restricted Delivery	\$ _____
<input type="checkbox"/> Adult Signature Required	\$ _____
<input type="checkbox"/> Adult Signature Restricted Delivery	\$ _____

Postage
 \$ _____

Total
 \$ _____

Sent To
 Mollie Harrington, Charles W Morrison, Jr
 Claire Leugers; Trustees of Joan Morrison
 Morrison Residuary Trust
 102 NE Cypress Trail
 Jensen Beach FL 34957

Postmark Here
 BRIDGEPORT MO
 JUL 07 2015

RECEIVED
 WV Department of Environmental Protection

PEN54 Permit Ap

PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions

7015 0640 0005 9572 2588

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Certified Mail Fee	
\$	
Extra Services & Fees (check box, add fee as appropriate)	
<input type="checkbox"/> Return Receipt (hardcopy)	\$
<input type="checkbox"/> Return Receipt (electronic)	\$
<input type="checkbox"/> Certified Mail Restricted Delivery	\$
<input type="checkbox"/> Adult Signature Required	\$
<input type="checkbox"/> Adult Signature Restricted Delivery	\$
Postage	
\$	
Total Paid	Carolyn W Wilson
\$	3731 Buffalo Ln
Sent To	Montrose CO 81401
Street	
City, State, ZIP+4®	

PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions



7015 0640 0005 9572 2618

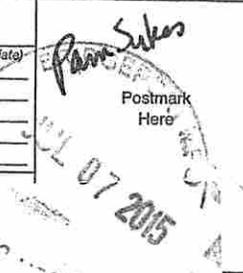
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Certified Mail Fee	
\$	
Extra Services & Fees (check box, add fee as appropriate)	
<input type="checkbox"/> Return Receipt (hardcopy)	\$
<input type="checkbox"/> Return Receipt (electronic)	\$
<input type="checkbox"/> Certified Mail Restricted Delivery	\$
<input type="checkbox"/> Adult Signature Required	\$
<input type="checkbox"/> Adult Signature Restricted Delivery	\$
Postage	
\$	
Total Paid	Gene C Singleton
\$	2504 22 nd Ave
Sent To	Parkersburg WV 26101
Street	
City, State, ZIP+4®	

PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions



7015 0640 0005 9572 2595

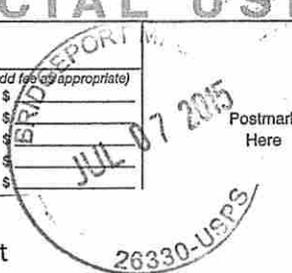
U.S. Postal Service™
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OFFICIAL USE

Certified Mail Fee	
\$	
Extra Services & Fees (check box, add fee as appropriate)	
<input type="checkbox"/> Return Receipt (hardcopy)	\$
<input type="checkbox"/> Return Receipt (electronic)	\$
<input type="checkbox"/> Certified Mail Restricted Delivery	\$
<input type="checkbox"/> Adult Signature Required	\$
<input type="checkbox"/> Adult Signature Restricted Delivery	\$
Postage	
\$	
Total Paid	Marsha Spent
\$	11133 N Eagle Crest Dr
Sent To	Oro Valley AZ 85737
Street	
City, State, ZIP+4®	

PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions



7015 0640 0005 9572 2625

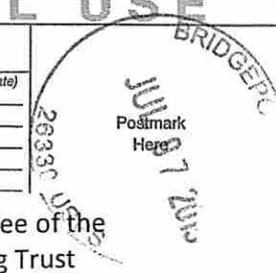
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OFFICIAL USE

Certified Mail Fee	
\$	
Extra Services & Fees (check box, add fee as appropriate)	
<input type="checkbox"/> Return Receipt (hardcopy)	\$
<input type="checkbox"/> Return Receipt (electronic)	\$
<input type="checkbox"/> Certified Mail Restricted Delivery	\$
<input type="checkbox"/> Adult Signature Required	\$
<input type="checkbox"/> Adult Signature Restricted Delivery	\$
Postage	
\$	
Total Paid	Deborah K Latham Trustee of the
\$	Deborah K Latham Living Trust
Sent To	1810 10 th Pike
Street	Vero Beach FL 32960
City, State, ZIP+4®	

PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions



7015 0640 0005 9572 2601

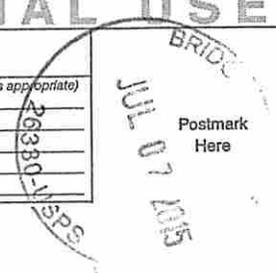
U.S. Postal Service™
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OFFICIAL USE

Certified Mail Fee	
\$	
Extra Services & Fees (check box, add fee as appropriate)	
<input type="checkbox"/> Return Receipt (hardcopy)	\$
<input type="checkbox"/> Return Receipt (electronic)	\$
<input type="checkbox"/> Certified Mail Restricted Delivery	\$
<input type="checkbox"/> Adult Signature Required	\$
<input type="checkbox"/> Adult Signature Restricted Delivery	\$
Postage	
\$	
Total Paid	Rebecca Pearson
\$	1812 W Mountain
Sent To	Ft Collins CO 80521
Street	
City, State, ZIP+4®	

PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions



7015 0640 0005 9572 2632

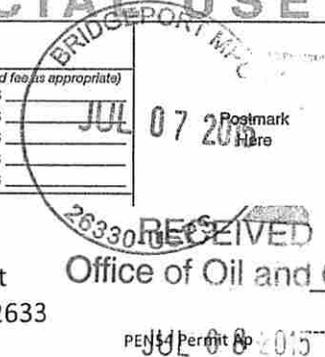
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OFFICIAL USE

Certified Mail Fee	
\$	
Extra Services & Fees (check box, add fee as appropriate)	
<input type="checkbox"/> Return Receipt (hardcopy)	\$
<input type="checkbox"/> Return Receipt (electronic)	\$
<input type="checkbox"/> Certified Mail Restricted Delivery	\$
<input type="checkbox"/> Adult Signature Required	\$
<input type="checkbox"/> Adult Signature Restricted Delivery	\$
Postage	
\$	
Total Paid	Patricia A Zinn
\$	315 South 4 th St
Sent To	Douglas WY 82633
Street	
City, State, ZIP+4®	

PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions



WV Department of Environmental Protection

7015 0640 0005 9572 2649

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Certified Mail Fee

Return Receipt (hardcopy) \$ _____
 Return Receipt (electronic) \$ _____
 Certified Mail Restricted Delivery \$ _____
 Adult Signature Required \$ _____
 Adult Signature Restricted Delivery \$ _____



Postage

Total Postage \$ _____
 Sent To Virginia R Terry
 8868 State Rt 555
 Cutler OH 45724

PEN54 Permit Ap

PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions

7015 0640 0005 9572 2670

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Certified Mail Fee

Return Receipt (hardcopy) \$ _____
 Return Receipt (electronic) \$ _____
 Certified Mail Restricted Delivery \$ _____
 Adult Signature Required \$ _____
 Adult Signature Restricted Delivery \$ _____



Postage

Total Postage \$ _____
 Sent To First National Bank of Oregon
 Trustee for Lathan Flanagan
 31033 Foxridge Ln
 Eugene OR 97405

PEN54 Permit Ap

PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions

7015 0640 0005 9572 2656

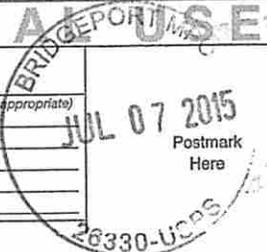
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Certified Mail Fee

Return Receipt (hardcopy) \$ _____
 Return Receipt (electronic) \$ _____
 Certified Mail Restricted Delivery \$ _____
 Adult Signature Required \$ _____
 Adult Signature Restricted Delivery \$ _____



Postage

Total Postage \$ _____
 Sent To Joyce L Wilson
 150 County Rd 4603
 Bogata TX 75417

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PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions

7015 0640 0005 9572 2687

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Certified Mail Fee

Return Receipt (hardcopy) \$ _____
 Return Receipt (electronic) \$ _____
 Certified Mail Restricted Delivery \$ _____
 Adult Signature Required \$ _____
 Adult Signature Restricted Delivery \$ _____



Postage

Total Postage \$ _____
 Sent To Linda Sue Hill
 626 Thorn Grove Pike Rd
 Strawberry Plains TN 37871

PEN54 Permit Ap

PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions

4708510231

7015 0640 0005 9572 2663

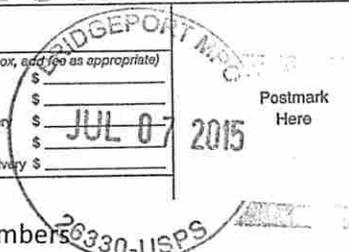
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Certified Mail Fee

Return Receipt (hardcopy) \$ _____
 Return Receipt (electronic) \$ _____
 Certified Mail Restricted Delivery \$ _____
 Adult Signature Required \$ _____
 Adult Signature Restricted Delivery \$ _____



Postage

Total Postage \$ _____
 Sent To Linda J Chambers
 47 Weber St
 Richwood WV 26261

PEN54 Permit Ap

PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions

7015 0640 0005 9572 2692

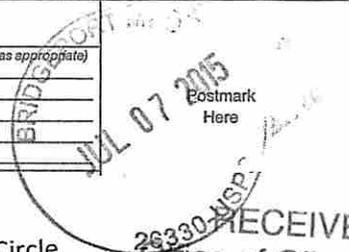
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Certified Mail Fee

Return Receipt (hardcopy) \$ _____
 Return Receipt (electronic) \$ _____
 Certified Mail Restricted Delivery \$ _____
 Adult Signature Required \$ _____
 Adult Signature Restricted Delivery \$ _____



Postage

Total Postage \$ _____
 Sent To Nelva Jean Ford
 8805 Mid Haven Circle
 Granbury TX 76048

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PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions

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7015 0640 0005 9572 2700

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Certified Mail Fee
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Extra Services & Fees (check box, add fee as appropriate)

Return Receipt (hardcopy) \$

Return Receipt (electronic) \$

Certified Mail Restricted Delivery \$

Adult Signature Required \$

Adult Signature Restricted Delivery \$

Postage
\$

Total Paid
\$

Sent To
\$

Street Address
City, State

Postmark Here
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BRIDGEPORT MPO
26330-USPS

PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions

7015 0640 0005 9572 2731

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Certified Mail Fee
\$

Extra Services & Fees (check box, add fee as appropriate)

Return Receipt (hardcopy) \$

Return Receipt (electronic) \$

Certified Mail Restricted Delivery \$

Adult Signature Required \$

Adult Signature Restricted Delivery \$

Postage
\$

Total Paid
\$

Sent To
\$

Street Address
City, State

Postmark Here
JUL 07 2015
BRIDGEPORT MPO
26330-USPS

PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions

7015 0640 0005 9572 2717

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Certified Mail Fee
\$

Extra Services & Fees (check box, add fee as appropriate)

Return Receipt (hardcopy) \$

Return Receipt (electronic) \$

Certified Mail Restricted Delivery \$

Adult Signature Required \$

Adult Signature Restricted Delivery \$

Postage
\$

Total Paid
\$

Sent To
\$

Street Address
City, State

Postmark Here
JUL 07 2015
BRIDGEPORT MPO
26330-USPS

PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions

7015 0640 0005 9572 2748

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OFFICIAL USE

Certified Mail Fee
\$

Extra Services & Fees (check box, add fee as appropriate)

Return Receipt (hardcopy) \$

Return Receipt (electronic) \$

Certified Mail Restricted Delivery \$

Adult Signature Required \$

Adult Signature Restricted Delivery \$

Postage
\$

Total Paid
\$

Sent To
\$

Street Address
City, State

Postmark Here
JUL 07 2015
BRIDGEPORT MPO
26330-USPS

PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions

7015 0640 0005 9572 2724

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Certified Mail Fee
\$

Extra Services & Fees (check box, add fee as appropriate)

Return Receipt (hardcopy) \$

Return Receipt (electronic) \$

Certified Mail Restricted Delivery \$

Adult Signature Required \$

Adult Signature Restricted Delivery \$

Postage
\$

Total Paid
\$

Sent To
\$

Street Address
City, State

Postmark Here
JUL 07 2015
BRIDGEPORT MPO
26330-USPS

PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions

7015 0640 0005 9572 2755

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Certified Mail Fee
\$

Extra Services & Fees (check box, add fee as appropriate)

Return Receipt (hardcopy) \$

Return Receipt (electronic) \$

Certified Mail Restricted Delivery \$

Adult Signature Required \$

Adult Signature Restricted Delivery \$

Postage
\$

Total Paid
\$

Sent To
\$

Street Address
City, State

Postmark Here
JUL 07 2015
BRIDGEPORT MPO
26330-USPS

PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions

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WV Department of Environmental Protection

7015 0640 0005 9572 2762

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Certified Mail Fee
 \$ _____

Extra Services & Fees (check box, add fee as appropriate)

<input type="checkbox"/> Return Receipt (hardcopy)	\$ _____
<input type="checkbox"/> Return Receipt (electronic)	\$ _____
<input type="checkbox"/> Certified Mail Restricted Delivery	\$ _____
<input type="checkbox"/> Adult Signature Required	\$ _____
<input type="checkbox"/> Adult Signature Restricted Delivery	\$ _____

Postage
 \$ _____

Total Postage
 \$ _____

Sent To
 Appalachian Royalty Co
 3049 Robert C Byrd Dr
 Beckley WV 25801

Street and
 City, State, ZIP+4®

Postmark Here
 JUL 07 2015

26330-USPS

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PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions

7015 0640 0005 9572 2922

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Certified Mail Fee
 \$ _____

Extra Services & Fees (check box, add fee as appropriate)

<input type="checkbox"/> Return Receipt (hardcopy)	\$ _____
<input type="checkbox"/> Return Receipt (electronic)	\$ _____
<input type="checkbox"/> Certified Mail Restricted Delivery	\$ _____
<input type="checkbox"/> Adult Signature Required	\$ _____
<input type="checkbox"/> Adult Signature Restricted Delivery	\$ _____

Postage
 \$ _____

Total Postage
 \$ _____

Sent To
 Karen Louise Plants
 PO Box 7304
 Glen Rose TX 76043

Street and
 City, State, ZIP+4®

Postmark Here
 JUL 07 2015

26330-USPS

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PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions

7015 0640 0005 9572 2908

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Certified Mail Fee
 \$ _____

Extra Services & Fees (check box, add fee as appropriate)

<input type="checkbox"/> Return Receipt (hardcopy)	\$ _____
<input type="checkbox"/> Return Receipt (electronic)	\$ _____
<input type="checkbox"/> Certified Mail Restricted Delivery	\$ _____
<input type="checkbox"/> Adult Signature Required	\$ _____
<input type="checkbox"/> Adult Signature Restricted Delivery	\$ _____

Postage
 \$ _____

Total Postage
 \$ _____

Sent To
 Warren R & Lena G Haight
 12864 Staunton Turnpike
 Smithville WV 26178

Street and
 City, State, ZIP+4®

Postmark Here
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26330-USPS

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PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions

7015 0640 0005 9572 2939

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Certified Mail Fee
 \$ _____

Extra Services & Fees (check box, add fee as appropriate)

<input type="checkbox"/> Return Receipt (hardcopy)	\$ _____
<input type="checkbox"/> Return Receipt (electronic)	\$ _____
<input type="checkbox"/> Certified Mail Restricted Delivery	\$ _____
<input type="checkbox"/> Adult Signature Required	\$ _____
<input type="checkbox"/> Adult Signature Restricted Delivery	\$ _____

Postage
 \$ _____

Total Postage
 \$ _____

Sent To
 Betty Lou Fankhauser
 753 Cedarcrest Dr
 Bound Brook NJ 08805

Street and
 City, State, ZIP+4®

Postmark Here
 JUL 07 2015

26330-USPS

PEN54 Permit Ap

PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions

7015 0640 0005 9572 2915

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Certified Mail Fee
 \$ _____

Extra Services & Fees (check box, add fee as appropriate)

<input type="checkbox"/> Return Receipt (hardcopy)	\$ _____
<input type="checkbox"/> Return Receipt (electronic)	\$ _____
<input type="checkbox"/> Certified Mail Restricted Delivery	\$ _____
<input type="checkbox"/> Adult Signature Required	\$ _____
<input type="checkbox"/> Adult Signature Restricted Delivery	\$ _____

Postage
 \$ _____

Total Postage
 \$ _____

Sent To
 Barry D Haight, Ira Haight & Robin J Cook
 Trustees for the Haight Family Trust
 210 E Main St
 Harrisville WV 26362

Street and
 City, State, ZIP+4®

Postmark Here
 JUL 07 2015

26330-USPS

PEN54 Permit Ap

PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions

7015 0640 0005 9572 2946

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Certified Mail Fee
 \$ _____

Extra Services & Fees (check box, add fee as appropriate)

<input type="checkbox"/> Return Receipt (hardcopy)	\$ _____
<input type="checkbox"/> Return Receipt (electronic)	\$ _____
<input type="checkbox"/> Certified Mail Restricted Delivery	\$ _____
<input type="checkbox"/> Adult Signature Required	\$ _____
<input type="checkbox"/> Adult Signature Restricted Delivery	\$ _____

Postage
 \$ _____

Total Postage
 \$ _____

Sent To
 Phillip Latham Sherror
 203 SW Bridge St #124
 Grants Pass OR 97526

Street and
 City, State, ZIP+4®

Postmark Here
 JUL 07 2015

26330-USPS

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 JUL 08 2015
 WV Department of Environmental Protection

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7015 0640 0005 9572 2953

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Certified Mail Fee
\$

Extra Services & Fees (check box, add fee as appropriate)

Return Receipt (hardcopy) \$

Return Receipt (electronic) \$

Certified Mail Restricted Delivery \$

Adult Signature Required \$

Adult Signature Restricted Delivery \$

Postage
\$

Total Postage \$

Sent To
\$ Ellen Sherror Francaviglia
3117 Lakeview Dr
Salem OR 97304

Street and Apt. _____
City, State, Zi. _____

PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions

7015 0640 0005 9572 2984

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Certified Mail Fee
\$

Extra Services & Fees (check box, add fee as appropriate)

Return Receipt (hardcopy) \$

Return Receipt (electronic) \$

Certified Mail Restricted Delivery \$

Adult Signature Required \$

Adult Signature Restricted Delivery \$

Postage
\$

Total Postage \$

Sent To
\$ Ann S Batta
PO Box 27570
San Diego CA 92198

Street and Apt. _____
City, State, Zi. _____

PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions

7015 0640 0005 9572 2960

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OFFICIAL USE

Certified Mail Fee
\$

Extra Services & Fees (check box, add fee as appropriate)

Return Receipt (hardcopy) \$

Return Receipt (electronic) \$

Certified Mail Restricted Delivery \$

Adult Signature Required \$

Adult Signature Restricted Delivery \$

Postage
\$

Total Postage \$

Sent To
\$ Gregory Flanagan
202 Willow St
Pensboro WV 26415

Street and Apt. _____
City, State, Zi. _____

PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions

7015 0640 0005 9572 2991

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OFFICIAL USE

Certified Mail Fee
\$

Extra Services & Fees (check box, add fee as appropriate)

Return Receipt (hardcopy) \$

Return Receipt (electronic) \$

Certified Mail Restricted Delivery \$

Adult Signature Required \$

Adult Signature Restricted Delivery \$

Postage
\$

Total Postage \$

Sent To
\$ Patricia L Moore
170 Birdhouse Lane
Bridgeport WV 26330

Street and Apt. _____
City, State, Zi. _____

PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions

7015 0640 0005 9572 2977

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OFFICIAL USE

Certified Mail Fee
\$

Extra Services & Fees (check box, add fee as appropriate)

Return Receipt (hardcopy) \$

Return Receipt (electronic) \$

Certified Mail Restricted Delivery \$

Adult Signature Required \$

Adult Signature Restricted Delivery \$

Postage
\$

Total Postage \$

Sent To
\$ Antero Resources Appalachian Corp
1625 17th St
Denver CO 80202

Street and Apt. _____
City, State, Zi. _____

PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions

7015 0640 0005 9572 3011

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Adult Signature Required \$

Adult Signature Restricted Delivery \$

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\$

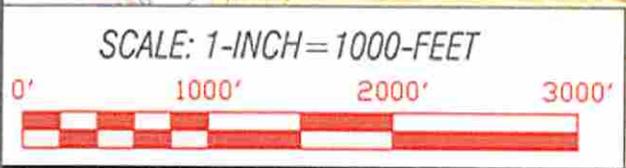
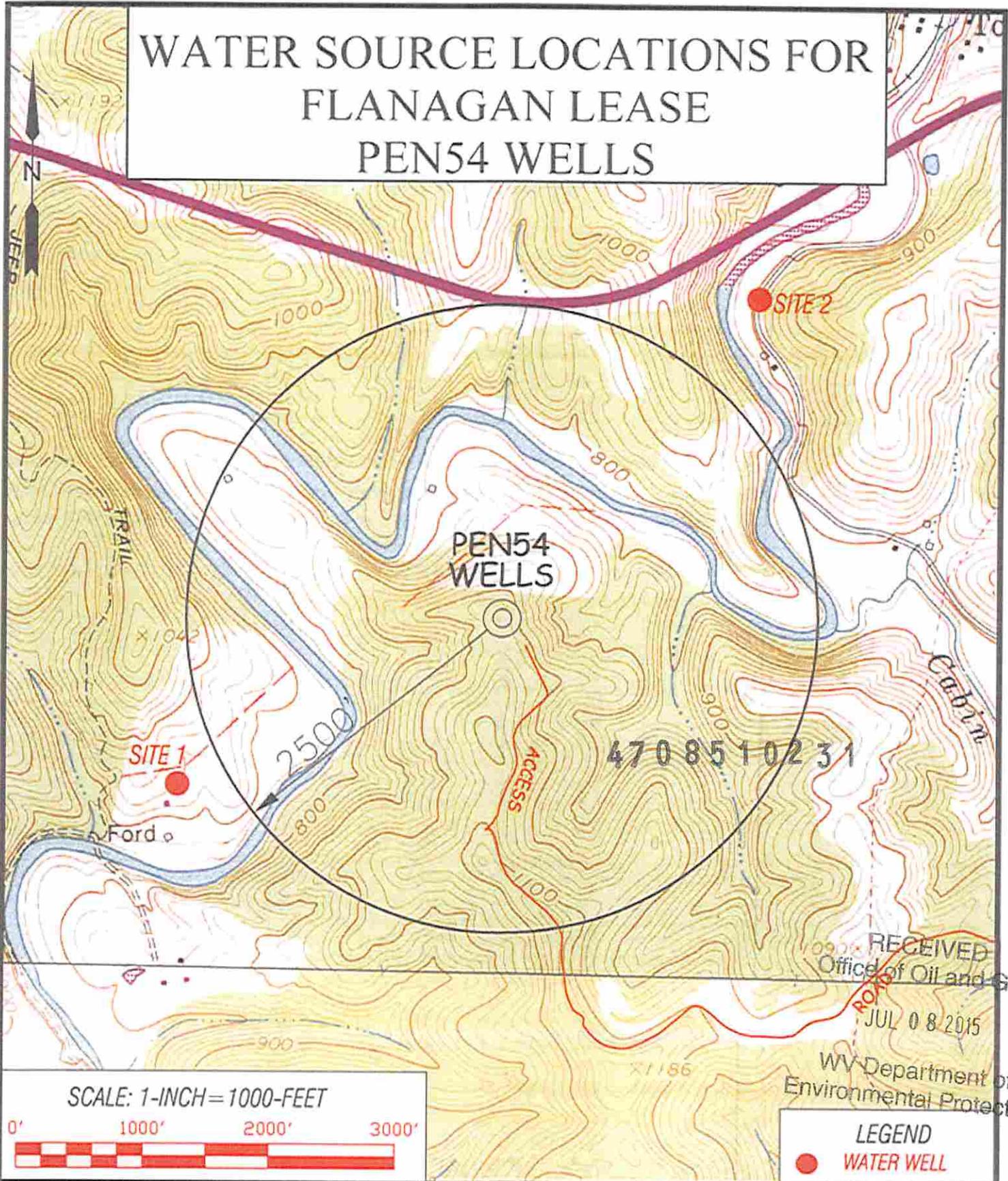
Total Postage \$

Sent To
\$ Joseph Flanagan
PO Box 2
Smithville WV 26178

Street and Apt. _____
City, State, Zi. _____

PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions

WATER SOURCE LOCATIONS FOR FLANAGAN LEASE PEN54 WELLS



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WV Department of
Environmental Protection

LEGEND
● WATER WELL

 Professional Energy Consultants <small>A DIVISION OF BARTH LAWYER ENGINEERS ARCHITECTS, INC.</small> SLS <small>SURVEYORS ENGINEERS ENVIRONMENTAL PLANNERS</small>	TOPO SECTION OF: PENNSBORO, WV 7.5' QUAD			OPERATOR: EQT PRODUCTION COMPANY 115 PROFESSIONAL PLACE P.O. BOX 280 BRIDGEPORT, WV 26330		
	DRAWN BY K.D.W.	FILE NO. 8083	DATE 06/02/15	CADD FILE: 0663WSPEN54.dwg	DISTRICT CLAY	COUNTY RITCHIE

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.

4708510231

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, vibration and other impacts of 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 4708510231

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

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

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WV Department of
Environmental Protection

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.

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

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

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WV Department of
Environmental Protection

Notice is hereby given by:

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: 304-848-0041

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.

[Handwritten Signature]

By: Victoria Roark

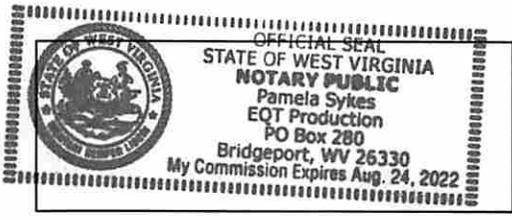
Its: Permitting Supervisor

Subscribed and sworn before n 6 day of July, 2015

[Handwritten Signature]

Notary Public

My Commission Expit 8-24-22



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WV Department of
Environmental Protection

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
5368 Muscovy Rd.
Address: Middlebourg, FL 32068-3531 1/2 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: _____

MINERAL OWNER(S)

Name: _____
Address: _____
Name: 708510231
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 statues 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

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Office of Oil and Gas
Address: 115 Professional Place, Bridgeport, WV 26330
EQT Representative: Jim Mencer

JUL 0 8 2015
Signature: [Signature]
WV Department of Environmental Protection

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

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: Jerry Morton 1/2 Interest
Address: RR1 Box 581
Pennsboro, WV 26415-9611

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

COAL OWNER OR LESSEE

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

Address: _____

MINERAL OWNER(S)

Name: _____
Address: 4708510231
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:

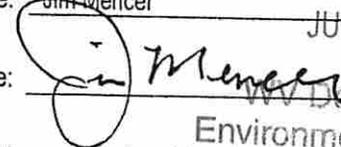
State: West Virginia
County: Ritchie
District: Clay Map 31 Parcel 5 243.50 acres
Quadrangle: Pennsboro

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

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

WW-6A5
(1/12)

Operator Well No. 516207

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: 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: 470851023 306,282,130000
County: Ritchie Northing: 4,345,359.310000
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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WV Department of
Environmental Protection

Operator Well No. 516207

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: 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: 506,282.130000
County: Ritchie Northing: 4,345,359.310000
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 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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WV Department of
Environmental Protection



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

4708510231

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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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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Environmental Protection

470851022

6-16-15

EQT PEN 54 SITE PLAN

EQT PRODUCTION COMPANY

PROPOSED WELL NO. H1 WV514474, H2 WV514475, H3 WV 514476, H4 WV514477, H5 WV514478, H6 WV514479, H7 WV514480, H8 WV515874, H9 WV516206, H10 WV516207, H11 WV516208
SITUATE ON THE WATERS OF NORTH FORK HUGHES RIVER IN CLAY DISTRICT, RITCHIE COUNTY, WV

PROJECT INFORMATION
 PROJECT NAME: EQT PEN 54
 SURFACE OWNER: RANDY, NATALIE & KATE COLLINS
 SURFACE TENANT: EQT PRODUCTION COMPANY, WV
 TAX MAP 31.05 (1/2 INTEREST)
 TOTAL PROPERTY AREA: 243.50 +/- ACRES
 TOTAL DISTURBANCE AREA: 32.67 +/- ACRES
 2. ARMY MORTON, RITCHIE COUNTY, WV
 TAX MAP 31.02 (1/2 INTEREST)
 TOTAL PROPERTY AREA: 243.50 +/- ACRES
 TOTAL DISTURBANCE AREA: 32.67 +/- ACRES
 3. HEARTWOOD FORESTLAND FUND I LLC, RITCHIE COUNTY, WV
 TAX MAP 31.01, 31.04, 31.05
 TOTAL PROPERTY AREA: 180.19 +/- ACRES
 TOTAL DISTURBANCE AREA: 18.03 +/- ACRES
 4. COASTAL FOREST RESOURCES DBA COASTAL FIBERLANDS CO, CLAY DISTRICT, RITCHIE COUNTY, WV
 TOTAL PROPERTY AREA: 42.51 +/- ACRES
 TOTAL DISTURBANCE AREA: 0.73 +/- ACRES
 OIL AND GAS ROYALTY OWNER:
 W. MANAHAN, ET AL. (50% +/- ACRES)
 RITCHIE COUNTY, WV

SITE LOCATION
 THE EQT PEN 54 WELL PAD IS LOCATED 1 1/2 MILES +/- SOUTH-EAST OF THE JUNCTION OF US ROUTE 59 AND WV 74.

LOCATION COORDINATES
 LOCATION: 30°27'15" N, 80°37'22" W (NAD 83)
 1/2 PEN 54 FLOWBACK PIT CENTER
 LOCATION: 30°25'48" N, 80°39'48" W (NAD 83)
 1/2 PEN 54 FLOWBACK PIT CENTER
 LOCATION: 30°25'00" N, 80°39'14" W (NAD 83)

GENERAL DESCRIPTION
 THE WELL PAD, FLOWBACK PIT, ACCESS ROAD AND COMPLETION PIT ARE BEING CONSTRUCTED TO ADD IN THE DEVELOPMENT OF INDIVIDUAL WATERSHEDS SPWAL GAS WELLS.

SITE DISTURBANCE COMPUTATIONS
 WELL PAD/FLOWBACK PIT AREA = 14.86 +/- ACRES
 ACCESS ROAD AREA = 10.53 +/- ACRES
 COMPLETION PIT AREA = 1.11 +/- ACRES
 TOTAL SITE DISTURBANCE AREA = 26.50 +/- ACRES

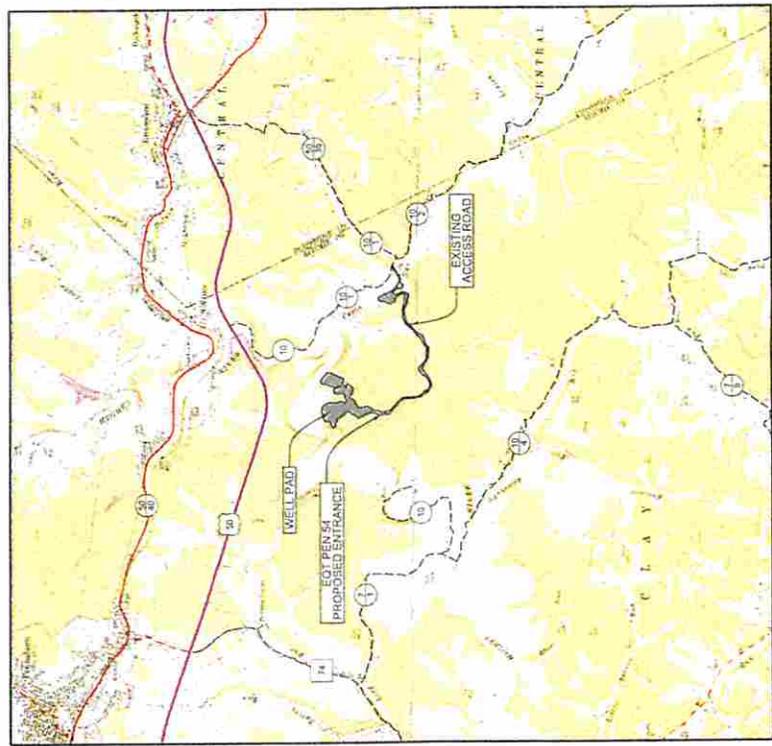
ENTRANCE PERMIT
 EQT PRODUCTION COMPANY WILL OBTAIN AN ENCROACHMENT PERMIT FROM THE WEST VIRGINIA DEPARTMENT OF TRANSPORTATION AND HIGHWAYS PRIOR TO COMMENCEMENT OF CONSTRUCTION ACTIVITIES.

MISS UTILITY STATEMENT
 MISS UTILITY OF WEST VIRGINIA HAS NOTED FOR THE LOCATION OF UTILITIES PRIOR TO CONSTRUCTION. MISS UTILITY HAS BEEN CONTACTED PRIOR TO START OF THE PROJECT.

ENVIRONMENTAL NOTES
 A WETLAND DELINEATION WAS PERFORMED BY POTEMPA & ASSOCIATES ON 8/20/13. THE DELINEATION IDENTIFIED WETLANDS AND WETLANDS THAT ARE MOST LIKELY WITHIN THE REGULATORY JURISDICTION OF THE U.S. ARMY CORPS OF ENGINEERS (USACE) AND/OR THE WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION (WVDEP). THE 100-FEET AND 200-FEET BUFFER ZONES AROUND THE DELINEATION DOES NOT, IN ANY WAY, REPRESENT A JURISDICTIONAL DETERMINATION OF THE LANDWARD LIMITS OF WATERS AND WETLANDS WHICH MAY BE SUBJECT TO FEDERAL, STATE OR LOCAL REGULATORY AGENCIES. THAT THE AT COMMENTED AGENCIES BE CONSULTED IN AN EFFORT TO OBTAIN WRITTEN CONFIRMATION OF THE DELINEATION DESCRIBED BY THIS REPORT PRIOR TO ENGAGING IN ANY CONSTRUCTION ACTIVITIES. THE APPROPRIATE PERMITS FROM THE FEDERAL AND/OR STATE REGULATORY AGENCIES PRIOR TO ANY PROPOSED IMPACTS TO WATERS OF THE U.S., INCLUDING WETLANDS AND STREAM CROSSINGS.

GEOTECHNICAL NOTES
 A SUBSURFACE INVESTIGATION HAS NOT BEEN PERFORMED AS OF 02/17/2015. THE ENGINEER AND SURVEYOR ARE NOT RESPONSIBLE FOR UNDISCOVERED SUBSURFACE CONDITIONS BEYOND THESE STANDARD PRACTICES SHOWN ON THIS PLAN AS A RESULT OF ANY OTHER GEOTECHNICAL COMPLIANCE ENCOUNTERED DURING CONSTRUCTION.

RESTRICTIONS NOTES
 1. THERE ARE INTERMITTENT STREAMS, LAKES, PONDS, OR RESERVOIRS WITHIN 100 FEET OF THE PROJECT LOD. THERE ARE WATERS WITHIN 100 FEET OF THE LOD, AND A WAIVER FROM THE WDCRP WILL BE APPLIED FOR THROUGH THE ARMY CORPS OF ENGINEERS BY EQT PRODUCTION COMPANY.
 2. THERE ARE NO DEVELOPMENTS WITHIN 100 FEET OF THE PAD AND LOD.
 3. THERE ARE NO GROUNDWATER WATER WELLS OR PUBLIC WATER SUPPLY FACILITIES WITHIN 100 FEET OF THE PAD AND LOD.
 4. THERE ARE NO KNOWN EXISTING WATER WELLS OR DEVELOPED SPRINGS WITHIN 250 FEET OF THE WELLED BEING DEVELOPED (INCLUDING DISCHARGED DRAINAGE CONSTRUCTION).
 5. THERE ARE NO OCCUPIED DWELLING STRUCTURES WITHIN 425 FEET OF THE CENTER OF THE PAD.
 6. THERE ARE NO AGRICULTURAL BUILDINGS LARGER THAN 7,500 SQUARE FEET WITHIN 625 FEET OF THE CENTER OF THE PAD.



MISS UTILITY OF WEST VIRGINIA
 1000 WEST VIRGINIA AVENUE, SUITE 200
 CHARLOTTE, NC 28202
 (704) 376-1000
 (704) 376-1001
 (704) 376-1002
 (704) 376-1003
 (704) 376-1004
 (704) 376-1005
 (704) 376-1006
 (704) 376-1007
 (704) 376-1008
 (704) 376-1009
 (704) 376-1010
 (704) 376-1011
 (704) 376-1012
 (704) 376-1013
 (704) 376-1014
 (704) 376-1015
 (704) 376-1016
 (704) 376-1017
 (704) 376-1018
 (704) 376-1019
 (704) 376-1020

Received
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 6/16/2015

SHEET NO.	DESCRIPTION
1	TITLE SHEET
2	PROPOSED LAYOUT
3-4	PROPOSED LAYOUT INDEX
5-12	PROPOSED LAYOUT LAYOUT
13-23	PROPOSED LAYOUT LAYOUT
24-29	ACCESS ROADS SECTION
30-33	PROPOSED LAYOUT PLAN
34-36	PROPOSED LAYOUT PLAN
37-40	CONSTRUCTION QUANTITIES
41-42	CONSTRUCTION QUANTITIES

LEGEND

EX INDEX CONTOUR	PROF INDEX CONTOUR
EX INTERMEDIATE CONTOUR	PROF INTERMEDIATE CONTOUR
EX BOUNDARY LINE	PROF CUT LINE
EX EDGE OF ROAD PAVEMENT	PROF LIMITS OF DISTURBANCE
EX GUARDRAIL	PROF UNDERPASS
EX FENCELINE	PROF UNDERPASS
EX GATE	PROF UNDERPASS
EX OVERHEAD UTILITY RW	PROF UNDERPASS
EX UTILITY POLE	PROF UNDERPASS
EX CITY WRR	PROF UNDERPASS
EX TELEPHONE LINE	PROF UNDERPASS
EX GASLINE RW	PROF UNDERPASS
EX WATERLINE	PROF UNDERPASS
EX WATER WELL	PROF UNDERPASS
EX GAS WELL	PROF UNDERPASS
EX TRENCH	PROF UNDERPASS
EX REFERENCE TREE	PROF UNDERPASS
EX DELINEATED STREAM	PROF UNDERPASS
EX DELINEATED WETLAND	PROF UNDERPASS
EX BUILDING	PROF UNDERPASS

OPERATOR
 EQT PRODUCTION COMPANY
 OPERATOR ID: 305666
 P.O. BOX 20
 FARMINGTON, WV 26030
 PHONE: (204) 482-2870

ENGINEER
 STANTEC CONSULTING INC
 111 ELKINS STREET
 FARMINGTON, WV 26034
 PHONE: (204) 347-5661

SURVEYOR
 SMITH LAND SURVEYING, INC
 12 WALKER DRIVE
 PO BOX 150
 FARMINGTON, WV 26034
 PHONE: (204) 482-9854



TITLE SHEET
 EQT PEN 54
 CLAY DISTRICT
 RITCHIE COUNTY, WV

DATE: 06/16/2015
 SCALE: AS SHOWN
 DESIGNED BY: BJK
 TITLE NO.: 470851022
 SHEET: 1 OF 42

PROJECT NAME: EQT PEN 54
 SITE/FACE OWNER:
 1. RANDY NAYLOR & LATE COLLINS WY
 104 MAP 34-202 (1/2 ACRES)
 TOTAL DISTURBANCE AREA: 24.29 +/- ACRES
 2. JERRY MORTON
 104 MAP 34-202 (1/2 ACRES)
 TOTAL DISTURBANCE AREA: 24.29 +/- ACRES
 3. HEARTWOOD FORESTRY AND FARM W LLC
 104 MAP 34-202 (1/2 ACRES)
 TOTAL DISTURBANCE AREA: 16.93 +/- ACRES
 4. COASTAL FOREST RESOURCES, CO., INC.
 104 MAP 34-202 (1/2 ACRES)
 TOTAL DISTURBANCE AREA: 0.71 +/- ACRES
 5. CLAY DISTRICT, RITCHEE COUNTY, WV
 104 MAP 34-202 (1/2 ACRES)
 TOTAL DISTURBANCE AREA: 0.71 +/- ACRES
 6. OIL AND GAS PROPERTY OWNERS
 WY FLEMINGBURG, ET AL (193 +/- ACRES)
 CLAY DISTRICT
 RITCHEE COUNTY, WV

APR# 8510222
 API# 8510225
 API# 8510226
 API# 8510227
 API# 8510228
 API# 8510229
 API# 8510230
 API# 8510231
 API# 8510232

LOCATION COORDINATES
 EQT PEN 54 WELL PAD CENTER
 EUTERIOR POINT CENTER
 EQT PEN 54 FLOWBACK PIT CENTER
 EQT PEN 54 COMPLETION PIT CENTER
 LATITUDE: 39.257216 LONGITUDE: 80.927222 (NAD 83)
 EQT PEN 54 WELL PAD CENTER
 EUTERIOR POINT CENTER
 EQT PEN 54 FLOWBACK PIT CENTER
 EQT PEN 54 COMPLETION PIT CENTER
 LATITUDE: 39.254122 LONGITUDE: 80.927194 (NAD 83)

GENERAL DESCRIPTION
 THE WELL PAD FLOWBACK PIT, ACCESS ROAD, AND COMPLETE FIT MATERIALS SHALL BE SITED IN THE DEVELOPMENT OF INDIVIDUAL WELLS.

SITE DISTURBANCE COMPUTATIONS
 WELL FLOWBACK AREA: 4.48 +/- ACRES
 ACCESS ROAD AREA: 0.53 +/- ACRES
 TOTAL SITE DISTURBANCE AREA: 5.01 +/- ACRES

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

MISS UTILITY STATEMENT
 MISS UTILITY OF WEST VIRGINIA WAS NOTED FOR THE LOCATION OF UTILITIES PRIOR TO THE PROJECT DESIGN. TICKET #1558222. IN ADDITION, MISS UTILITY WILL BE CONTACTED PRIOR TO START OF THE PROJECT.

ENVIRONMENTAL NOTES
 A WETLAND DELINEATION WAS PERFORMED BY POTENTIAL ASSOCIATES ON 05/20/14. 05/20/14, 05/21/14, 05/22/14, 05/23/14, AND 05/24/14 TO DETERMINE THE SITE FOR WATER QUALITY, WETLANDS, AND OTHER REGULATORY CONCERNS. THE RESULTS OF THE DELINEATION ARE PROVIDED IN POTENTIAL ASSOCIATES' REPORT FOR EQT PEN 54, DATED 05/20/14. THE 10/20/14 AND 2/5/2015 REPORT FOR EQT PEN 54, DATED 10/20/14, 10/21/14, 10/22/14, 10/23/14, 10/24/14, 10/25/14, 10/26/14, 10/27/14, 10/28/14, 10/29/14, 10/30/14, 10/31/14, 11/1/14, 11/2/14, 11/3/14, 11/4/14, 11/5/14, 11/6/14, 11/7/14, 11/8/14, 11/9/14, 11/10/14, 11/11/14, 11/12/14, 11/13/14, 11/14/14, 11/15/14, 11/16/14, 11/17/14, 11/18/14, 11/19/14, 11/20/14, 11/21/14, 11/22/14, 11/23/14, 11/24/14, 11/25/14, 11/26/14, 11/27/14, 11/28/14, 11/29/14, 11/30/14, 12/1/14, 12/2/14, 12/3/14, 12/4/14, 12/5/14, 12/6/14, 12/7/14, 12/8/14, 12/9/14, 12/10/14, 12/11/14, 12/12/14, 12/13/14, 12/14/14, 12/15/14, 12/16/14, 12/17/14, 12/18/14, 12/19/14, 12/20/14, 12/21/14, 12/22/14, 12/23/14, 12/24/14, 12/25/14, 12/26/14, 12/27/14, 12/28/14, 12/29/14, 12/30/14, 12/31/14, 1/1/15, 1/2/15, 1/3/15, 1/4/15, 1/5/15, 1/6/15, 1/7/15, 1/8/15, 1/9/15, 1/10/15, 1/11/15, 1/12/15, 1/13/15, 1/14/15, 1/15/15, 1/16/15, 1/17/15, 1/18/15, 1/19/15, 1/20/15, 1/21/15, 1/22/15, 1/23/15, 1/24/15, 1/25/15, 1/26/15, 1/27/15, 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