

west virginia department of environmental protection

Office of Oil and Gas 601 57th Street, S.E. Charleston, WV 25304 (304) 926-0450 fax: (304) 926-0452 Jim Justice , Governor Austin Caperton , Cabinet Secretary www.dep.wv.gov

Tuesday, December 12, 2017 WELL WORK PERMIT Horizontal 6A / New Drill

EQT PRODUCTION COMPANY 625 LIBERTY AVE., SUITE 1700

PITTSBURGH, PA 15222

Re:

Permit approval for BIG464H13

47-103-03211-00-00

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

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

Per 35 CSR 4-5.2.g this permit will expire in two (2) years from the issue date unless permitted well work is commenced. If there are any questions, please feel free to contact me at (304) 926-0450.

James A. Martin

Chief

Operator's Well Number: BIG464H13

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

U.S. WELL NUMBER: 47-103-03211-00-00

Horizontal 6A / New Drill

Date Issued: 12/12/2017

Promoting a healthy environment.

API Number: 103-032 ||

PERMIT CONDITIONS

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. This proposed activity may require permit coverage from the United States Army Corps of Engineers (USACE). Through this permit, you are hereby being advised to consult with USACE regarding this proposed activity.
- 2. If the operator encounters an unanticipated void, or an anticipated void at an unanticipated depth, the operator shall notify the inspector within 24 hours. Modifications to the casing program may be necessary to comply with W. Va. Code § 22-6A-5a (12), which requires drilling to a minimum depth of thirty feet below the bottom of the void, and installing a minimum of twenty (20) feet of casing. Under no circumstance should the operator drill more than one hundred (100) feet below the bottom of the void or install less than twenty (20) feet of casing below the bottom of the void.
- 3. When compacting fills, each lift before compaction shall not be more than 12 inches in height, and the moisture content of the fill material shall be within limits as determined by the Standard Proctor Density test of the actual soils used in specific engineered fill, ASTM D698, Standard Test Method for Laboratory Compaction Characteristics of Soil Using Standard Effort, to achieve 95 % compaction of the optimum density. Each lift shall be tested for compaction, with a minimum of two tests per lift per acre of fill. All test results shall be maintained on site and available for review.
- 4. Operator shall install signage per § 22-6A-8g (6) (B) at all source water locations included in their approved water management plan within 24 hours of water management plan activation.
- 5. Oil and gas water supply wells will be registered with the Office of Oil and Gas and all such wells will be constructed and plugged in accordance with the standards of the Bureau for Public Health set forth in its Legislative rule entitled *Water Well Regulations*, 64 C.S.R. 19. Operator is to contact the Bureau of Public Health regarding permit requirements. In lieu of plugging, the operator may transfer the well to the surface owner upon agreement of the parties. All drinking water wells within fifteen hundred feet of the water supply well shall be flow tested by the operator upon request of the drinking well owner prior to operating the water supply well.
- 6. Pursuant to the requirements pertaining to the sampling of domestic water supply wells/springs the operator shall, no later than thirty (30) days after receipt of analytical data provide a written copy to the Chief and any of the users who may have requested such analyses.
- 7. 24 hours prior to the initiation of the completion process the operator shall notify the Chief or his designee.
- 8. During the completion process the operator shall monitor annular pressures and report any anomaly noticed to the chief or his designee immediately.
- 9. 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.
- 10. 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.

API Number: 103-03211

PERMIT CONDITIONS

11. The operator shall provide to the Office of Oil and Gas the dates of each of the following within 30 days of their occurrence: completion of construction of the well pad, commencement of drilling, cessation of drilling, completion of any other permitted well work, and completion of the well. Such notice shall be provided by sending an email to DEPOOGNotify@wv.gov.

API NO. 47-103 - 03211
OPERATOR WELL NO. BIG464H13
Well Pad Name: BIG464

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

1) Well Operat	or: EQT F	Production C	ompany	306686	Wetzel	Grant	Big Run
				Operator ID	County	District	Quadrangle
2) Operator's V	Well Numbe	er: BIG464H1	13	Well Pa	d Name: Bl	G464	
3) Farm Name	/Surface Ow	Coastal Fore VNer: DBA Coastal	st Resources Cor Timberlands Cor		nd Access: F	Rt 250	Office of Oil and Ga
4) Elevation, c	urrent grour	nd: 1305'	Ele	evation, proposed	post-constru	uction: 1245'	SFP 1 0 2012
5) Well Type	(a) Gas	X	_ Oil	Und	erground Sto	orage	- W/O-
	Other						WV Department of Environmental Protection
	(b)If Gas	Shallow	X	Deep			
0 B : :: B :		Horizontal	<u>X</u>				DMH
6) Existing Pac					_		9-14-17
7) Proposed Ta	rget Format 419', 51', 262	tion(s), Depth 20 PSI	(s), Antici	pated Thickness a	and Expected	d Pressure(s):	
8) Proposed To	tal Vertical	Depth: 741	9				
9) Formation a	t Total Vert	ical Depth: 1	Marcellus				
10) Proposed T	otal Measur	red Depth:	11759				
11) Proposed H	Iorizontal L	eg Length: 2	2781				
12) Approxima	te Fresh Wa	ater Strata Dej	pths:	109,184,432			
13) Method to	Determine I	Fresh Water D	epths: F	rom offset wells			
14) Approxima	ite Saltwatei	r Depths: 17	24,1848				
15) Approxima	te Coal Sea	m Depths: 5	56,795,89	97,912			
16) Approxima	te Depth to	Possible Void	d (coal mir	ne, karst, other):	None repor	ted	
17) Does Propo directly overlyi				ns Yes		No <u>×</u>	
(a) If Yes, pro	ovide Mine	Info: Name:	<u></u>				
		Depth	:				
		Seam:					

API NO. 47-103 - 03211

OPERATOR WELL NO. BIG464H13
Well Pad Name: BIG464

18)

CASING AND TUBING PROGRAM

TYPE	Size (in)	New or Used	Grade	Weight per ft. (lb/ft)	FOOTAGE: For Drilling (ft)	INTERVALS: Left in Well (ft)	CEMENT: Fill-up (Cu. Ft.)/CTS
Conductor	26	New	A-500	85.6	40	40	49 ft^3 / CTS
Fresh Water	13 3/8	New	J-55	54.5	1019	1019	952 ft^3 / CTS
Coal							77211777010
Intermediate	9 5/8	New	A-500	40	2841	2841	1108 ft^3 / CTS
Production	5 1/2	New	P-110	20	11759	11759	500' above top producing zone
Tubing	2 3/8		J-55	4.7		May not be run, if run set 40'	
Liners						above top perf or 80° inclination.	Office of Oil a

DAH 9-14-17 SEP 1 9 2017

Environmental Prot

TYPE			Wall		A	1	Contection
	Size (in)	Wellbore Diameter (in)	Thickness (in)	Burst Pressure (psi)	Anticipated Max. Internal Pressure (psi)	Cement Type	Cement Yield (cu. ft./k)
Conductor	26	30	.312	1378	17	Class A	1.18
Fresh Water	13 3/8	17 1/2	.38	2700	2160	See Variance	1.19
Coal							1.10
Intermediate	9 5/8	12 3/8	.395	3950	3160	See Variance	1.19
Production	5 1/2	8 1/2	.361	12640	10112	Class A/H	1.123/2.098
Tubing	2 3/8	NA	.19	7700			
Liners							,

PACKERS

Kind:		
Sizes:		
Depths Set:		-

W	W-6	В
(10	0/14	1)

API NO. 47-103 - 0321 OPERATOR WELL NO. BIG464H13

Well Pad Name: BIG464

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

Drill and complete a new horizontal well in the Marcellus Formation. Drill the vertical to an approximate depth of 3199'. Kick off and drill curve. Drill the lateral in the Marcellus. Cement casing.

DM H G-14-17 Office of Oil and Gas

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

WV Department of Environmental Protection

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, friction reducer, biocide, and scale inhibitor), referred to in the industry as a "slickwater" completion. Maximum anticipated internal casing pressure is expected to be approximately 10000 psi, maximum anticipated treating rates are expected to average approximately 100 bpm. Stage lengths vary from 150 to 300 feet. Average approximately 350,000 gallons of water per stage. Sand sizes vary from 100 mesh to 20/40 mesh. Average approximately 400,000 pounds of sand per stage.

- 21) Total Area to be disturbed, including roads, stockpile area, pits, etc., (acres): no additional
- 22) Area to be disturbed for well pad only, less access road (acres): no additional
- 23) Describe centralizer placement for each casing string:
- Surface: Bow spring centralizers One centralizer at the shoe and one spaced every 500'.
- Intermediate: Bow spring centralizers— One centralizer at the shoe and one spaced every 500°.
- Production: One solid body centralizer spaced every joint from production casing shoe to KOP

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

Conductor: Class A no additives Surface (Type 1 Cement): 0-3% Calcium Chloride, Used to speed the setting of cement slurries

Intermediate (Type 1 Cement): 0-3% Calcium Chloride. Used to speed the setting of cement sturries. Production:

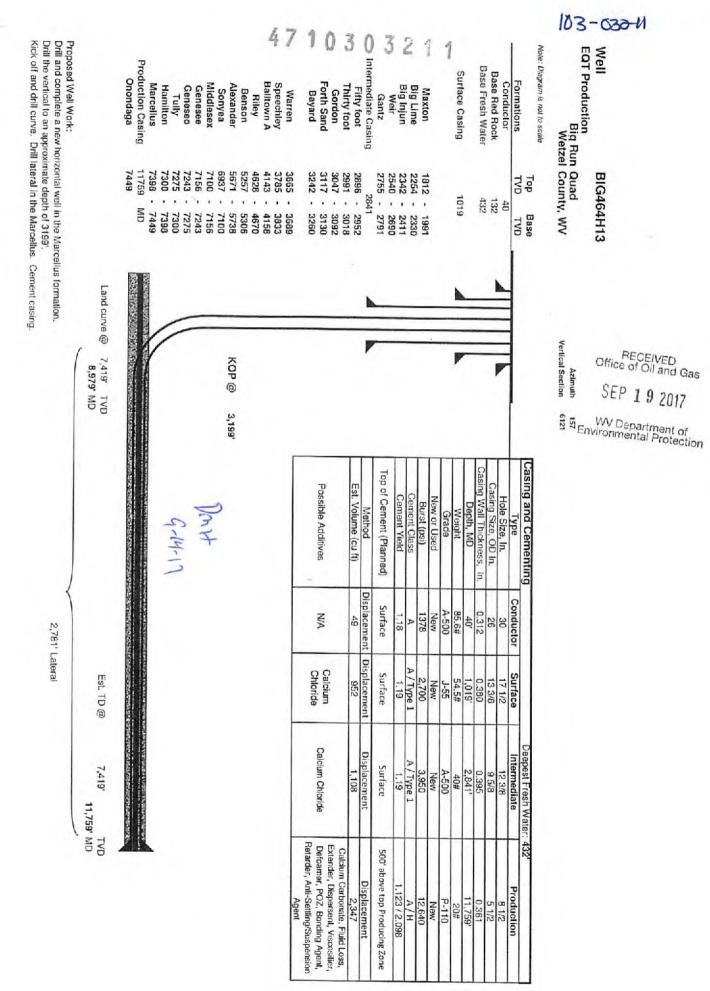
Lead (Class A Cement): 0.2% CD-20 (dispersant makes cement easier to mix). .15% SuperFL-300 (fluid loss/lengthens thickening time) .15% SEC-10 (fluid loss) 50:50 POZ (extender) Tall (Class H Cement): 0.2% Super CR-1 (Retarder). Lengthens thickening time. .3% Super FL-200 (fluid loss) .2% SEC-10 (Fluid loss) .2% SuperFL-350 (fluid loss) Reduces amount of water lost to formation. 50 % Calcuim Carbonate. Acid solubility.

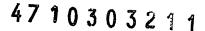
25) Proposed borehole conditioning procedures:

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

Production: Pump marker sweep with nut plug to determine actual hole washout. Calculate a gauge holes bottoms up volume. Perform a cleanup cycle by pumping 3-5 bottoms up or until the shakers are clean. Check volume of cuttings coming across the shakers every 15 minutes.

*Note: Attach additional sheets as needed.







August 16, 2017

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

Re: Casing plan on Wells (BIG464)

Dear Mr. Smith,

EQT is requesting the 13-3/8" surface casing be set at 1019' KB, 100' below the workable Pittsburgh Coal seam. We will set the 9-5/8" intermediate string at 2841' KB, 50' below the base of the Gantz formation.

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

RECEIVED Office of Oil and Gas

SEP 1 9 2017

WV Department of Environmental Protection

Sincerely,

Vicki Koark

Permitting Supervisor

Enc.

DMH G-14-17

EQT Production

Hydraulic Fracturing Monitoring Plan

Pad ID: BIG464

Wetzel County, WV

8/21/17

Office of Oil and Gas

SEP 1 3 2017

WV Department of Environmental Protection

Page **1** of **2** 12/15/2017

Purpose

The purpose of this pad-specific Hydraulic Fracturing Monitoring Plan is to identify and notify conventional well operators near EQT hydraulic fracturing in Wetzel County, WV prior to hydraulic fracturing at the following EQT wells on BIG464 pad: BIG464H13, BIG464H14, BIG464H26, BIG464H27, BIG464H28

Due to the requirements under 35CSR8 5.11, the permittee is required to review the area surrounding the proposed well pad so as to identify and evaluate potential conduits for unintended fracture propagation. A report is required to be submitted along with a well work permit application.

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 coordination with well operators of the timing and location of the hydraulic fracturing, establishment of measures 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 Well Operators

EQT, using available data (WV Geological Survey, WVDEP website, and IHS data service), has identified all known wells and well operators within 500 feet of this pad and the lateral sections that are known or could reasonably be expected to be within range of the fracture propagation. A map showing these wells along with a list of the wells and operators is included in **Attachment A**.

EQT will notify these operators of the hydraulic fracturing schedule for these wells, and coordinate with them throughout the fracturing process.

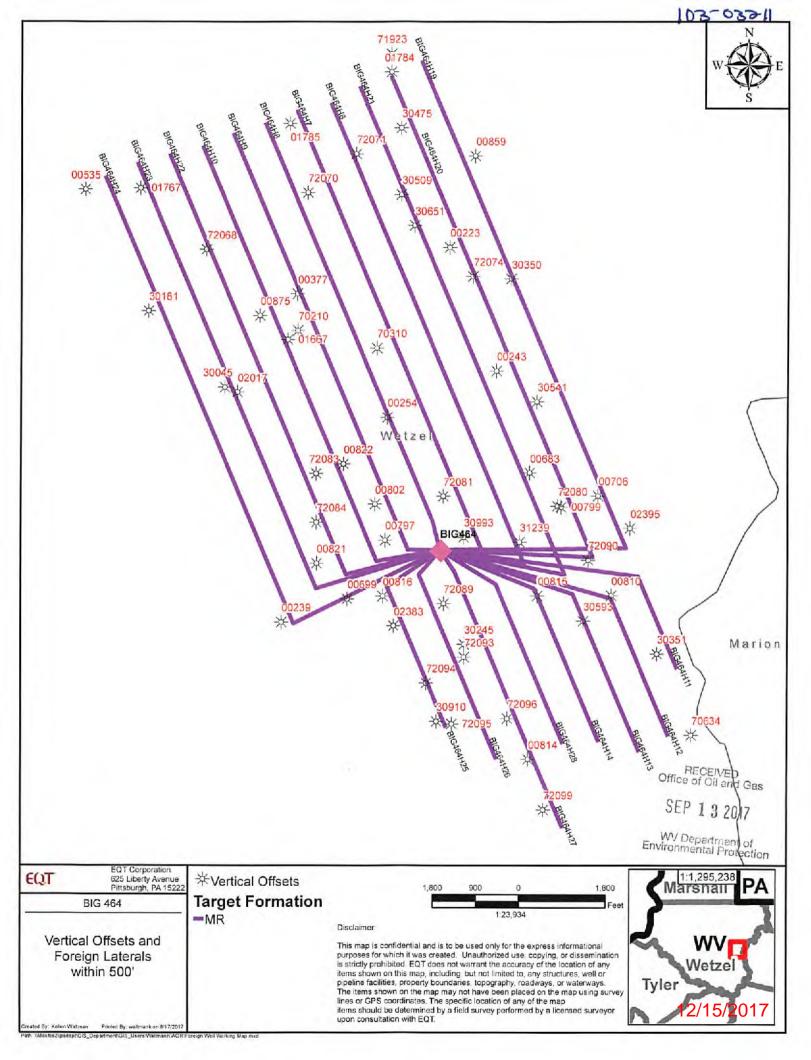
EQT will recommend to these operators at a minimum to:

- 1. Inspect their surface equipment prior to fracturing to establish integrity and establish pre-frac well conditions
- Observe wells closely during and after fracturing and monitor for abnormal increases in water, gas or pressure
- 3. Inspect or install master valves or other necessary equipment for wellhead integrity capable of a pressure recommended by EQT
- 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 other operators, and ongoing monitoring of the work upon request of OOG or immediately in the event of any noted abnormalities.





Total Depth Permit 3230 00223 2146 30045 2146 30045 2936 30181 2908 30245 2573 30350 3355 30351 3072 30475 3102 30593 3107 3037 3307 01784 -1954 00822 3426 00239 3449 00254 3154 00699 3086 00796 3264 01767 3554 01767 3554 01767 3554 01767 3554 01767 3554 01767 3554 01767 3562 02395 711 02017 70634	00797 00802 00816 00816 00816 00821 00829 00875 01667 70210 00535 31239 70310 71923 72070 72071 72074 72081 72081 72081
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Office of Oil and Gas
SEP 1 3 2017

WV Department of Environmental Protection

11-80-801

WellID	WellStatus	date	Operator	Longitude	Latitude	TargetFm	DatumElev	TotalDepth	Permit_1
4710300535	STORAGE	1/2/1963	EPC	-80.5421	39.5878		1008	-2049	535
4710300822	GAS	8/30/1929	EPC	-80.5231	39.5721		0	-1954	822
4710370634	LOC			-80.4975	39.5567		0	-99999	70634

Office of Oil and Gas

SEP 1 3 2017

WV Department of Environmental Protection

PΙ	Number	47	-	103	

Operator's Well No. BIG464H13

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 (HUC 10) Wiley Fork Quadrangle Big Run	
Do you anticipate using more than 5,000 bbls of water to complete the proposed well work? Yes No No	
If so, please describe anticipated pit waste:	
Will a synthetic liner be used in the pit? Yes No If so, what ml.?	
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) My	
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.	-η
Drilling medium anticipated for this well (vertical and horizontal)? Air, freshwater, oil based, etc. See Attached	
-If oil based, what type? Synthetic, petroleum, etc. Synthetic Mud RECEIVED Office of Oil and G.	
	as
Drill cuttings disposal method? Leave in pit, landfill, removed offsite, etc. Landfill SEP 1 9 2017	
-If left in pit and plan to solidify what medium will be used? (cement, lime, sawdust) N/A WW Department of Environmental Protect	:
-Landfill or offsite name/permit number? See Attached List	ion
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	
Company Official (Typed Name) Victoria J. Roark	
Company Official Title Permitting Supervisor	
Subscribed and sworn before me this 8th day of September 12017 Author Official SEAL SEAL STATE OF WEST VIRGINIA Public NOTARY PUBLIC Misty S Christie 1207 Briercliff Rd Bridgeport, WV 26330 12/15/201	7
Bridgeport, WV 26330 \$ 12/15/2017	Ī

Proposed Revegetation Trea	atment: Acres Disturbed 1	25.43 Prevegetation pl	H
Lime 3	Tons/acre or to corre		
Fertilizer type Gr	anular 10-20-20		
Fertilizer amount_	1/3	lbs/acre	
Mulch 2		_Tons/acre	
		Saud Mintures	
т	emporary	Seed Mixtures Perma	
Seed Type	lbs/acre	Seed Type	lbs/acre
KY-31	40	Orchard Grass	15
			10
Alsike Clover	5	Alsike Clover	5
Annual Rye Attach: Maps(s) of road, location, porovided). If water from the	15 it and proposed area for land pit will be land applied, inc	Alsike Clover d application (unless engineered plans include dimensions (L x W x D) of the pit, and	5
Annual Rye Attach: Maps(s) of road, location, p provided). If water from the acreage, of the land applicate	15 it and proposed area for land pit will be land applied, inc	d application (unless engineered plans included limensions (L x W x D) of the pit, and	5
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Annual Rye Attach: Maps(s) of road, location, p provided). If water from the acreage, of the land applicate Photocopied section of invo	it and proposed area for land pit will be land applied, incition area.	d application (unless engineered plans included lude dimensions (L x W x D) of the pit, and	5
Annual Rye Attach: Maps(s) of road, location, p provided). If water from the acreage, of the land applicate Photocopied section of invo	it and proposed area for land pit will be land applied, incition area.	d application (unless engineered plans included lude dimensions (L x W x D) of the pit, and	ding this info have been dimensions (L x W), and

(Yes

Field Reviewed?

WW-9 Attachment

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

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

Additives to be used in drilling medium?

Air - biodegradable oil lubricant, detergent, defoaming, water. Water based mud – Barite, viscosifer, alkalinity control, lime, filtration control, deflocculates, biodegradable oil lubricant, defoaming, walnut shell, salt, x-cide, carbonates. Oil based mud – synthetic base oil, emulsifier, salt, lime, viscosifer, alkalinity control, filtration control, deflocculates, biodegradable oil lubricant, defoaming, carbonates.

Office of Oil and Gas

SEP 1 3 2017

WV Department of Environmental Protection

EQT Production Water plan

Offsite disposals for Marcellus wells

CWS TRUCKING INC.

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

LAD LIQUID ASSETS DISPOSAL INC.

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

TRI COUNTY WASTE WATER MANAGEMENT, INC.

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

Waste Management - Meadowfill Landfill

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

Waste Management - Northwestern Landfill

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

BROAD STREET ENERGY LLC

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

TRIAD ENERGY

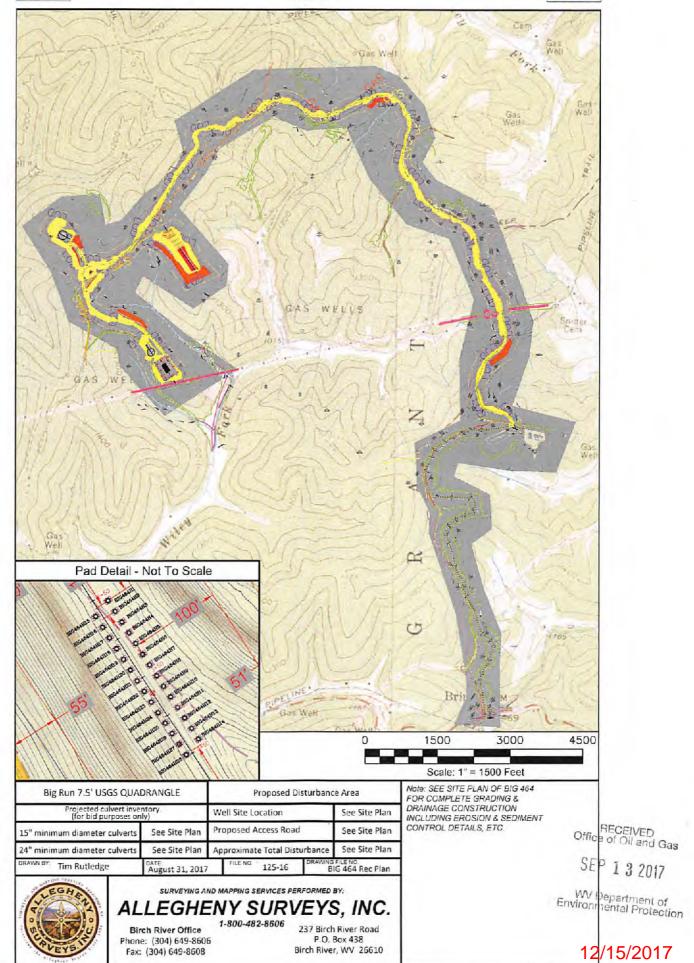
P.O. Box 430
Reno, OH 45773
740-516-6021 Well
740-374-2940 Reno Office Jennifer
Nobel County/Jackson Township
Permit # 4037

KING EXCAVATING CO.

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



PAGE 1 OF 1



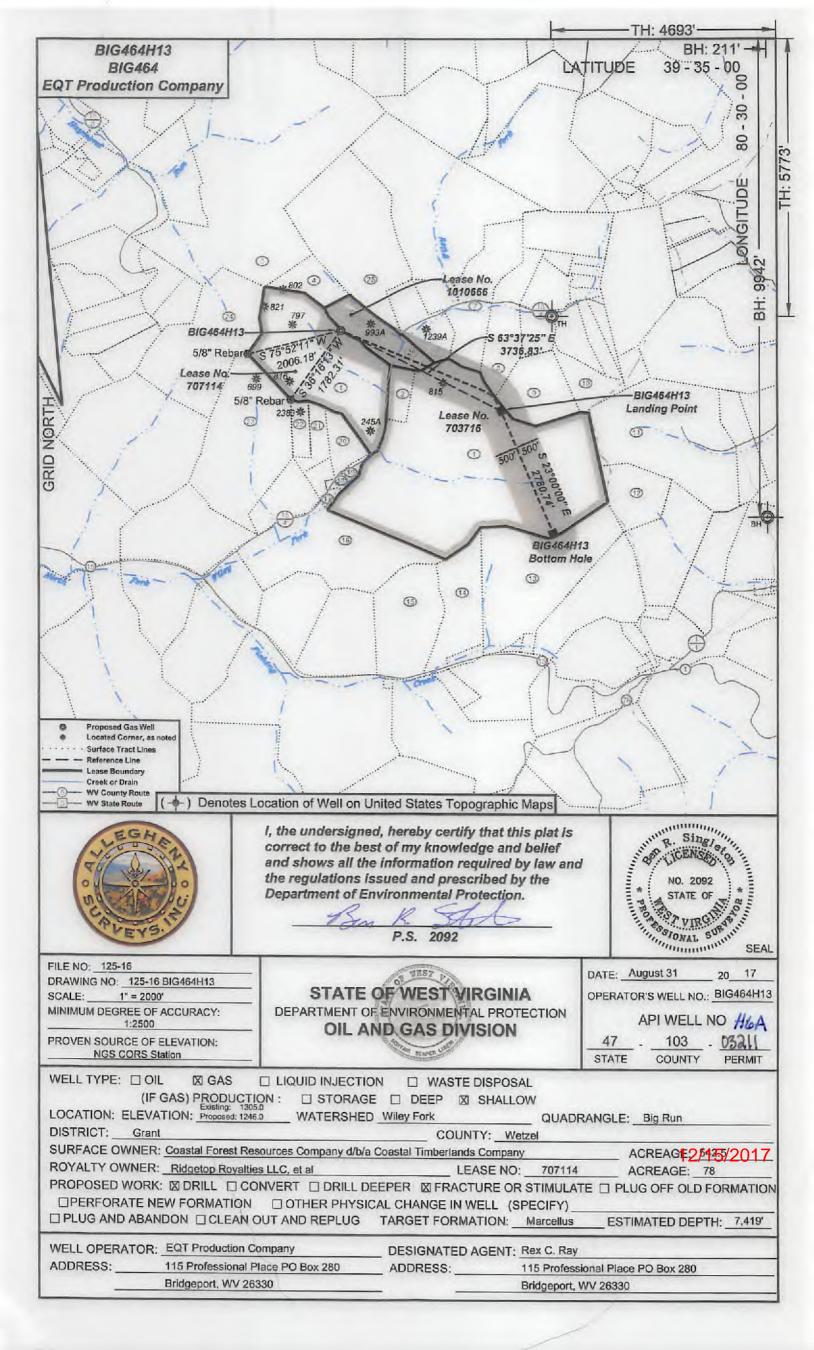
4710303211 WW-9 BIG 464 PAGE 1 OF 1 Gns Web RECEIVED Office of Oil and Gas Pad Detail - Not To Scale SEP 1 9 2017 WV Department of Environmental Protection DnH 6-14-17 Brig Gas Wet 0 1500 3000 4500 Scale: 1" = 1500 Feet Note: SEE SITE PLAN OF BIG 464 Big Run 7.5' USGS QUADRANGLE Proposed Disturbance Area FOR COMPLETE GRADING & DRAINAGE CONSTRUCTION INCLUDING EROSION & SEDIMENT Projected culvert inventory (for bid purposes only) Well Site Location See Site Plan CONTROL DETAILS, ETC. Proposed Access Road See Site Plan 15" minimum diameter culverts See Site Plan 24" minimum diameter culverts See Site Plan Approximate Total Disturbance See Site Plan Tim Rutledge 125-16 NG FILE NO BIG 454 Rec Plan SURVEYING AND MAPPING SERVICES PERFORMED BY: ALLEGHENY SURVEYS, INC. 1-800-482-8606 237 Birch River Road Birch River Office P.O. Box 438 Birch River, WV 26610 Phone: (304) 649-8606 Fax: (304) 649-8608 12/15/2017



Site Specific Safety Plan

EQT BIG 464 Pad Mannington Wetzel County, WV

	For Wells:		Office of Oil and Gas
			SEP 1 9 2017
			WV Department of Environmental Protection
EQT Production Regunal Vand Supr Title	Date Prepared:	WV Oil and Gas Inspector Title	· ckr
9-7-17 Date		<u>G-14-17</u> Date	



BIG464H13 BIG464 EQT Production Company

Tract I.D.	Tax Map No.	Parcel No.	County	District	Surface Tract Owner	Acres
1	20	1	Wetzel	Grant	Coastal Forest Resources Co.	542,50
2	15	27	Wetzel	Grant	William J. Barr	10.00
3	14	6	Wetzel	Grant	Coastal Lumber Co.	332.90
4	14	27	Wetzel	Grant	The E. Lorna Howard Trust, LLC, et al.	22.00
5	14	34	Wetzel	Grant	The E. Lorna Howard Trust, LLC, et al.	25.25
6	15	16	Wetzel	Grant	Donald J. D'Lusky	25.00
7	15	18	Wetzel	Grant	Donald J. D'Lusky	39.50
8	15	29	Wetzel	Grant	Terry W. & Carolyn P. Phillips	40.00
9	15	34	Wetzel	Grant	John C. & Donald J. D'Lusky	42.00
10	15	35	Wetzel	Grant	John C. & Donald J. D'Lusky	17.60
11	43	11	Marion	Mannington	Robert & Maxine Tonkery	85.00
12	43	11.1	Marion	Mannington	David A. & Diane E. Floyd	30.00
13	20	3	Wetzel	Grant	Linda Corwin, et al.	99.82
14	20	2	Wetzel	Grant	Scott A. Shannon, et al.	41.40
15	20	2.1	Wetzel	Grant	Larry & Mary Shimp	63.00
16	19	19.3	Wetzel	Grant	Richard M. & Mary G. Underwood	99.82
17	19	14	Wetzel	Grant	Mabel F. Barr	1.00
18	19	12	Wetzel	Grant	Mabel F. Barr	1,10
19	19	13	Wetzel	Grant	Mabel F. Barr	2.00
20	14	45	Wetzel	Grant	Coastal Forest Resources Co.	11.06
21	14	44	Wetzel	Grant	Mabel F. Barr	11.00
22	14	43	Wetzel	Grant	Mabel F. Barr	11.01
23	14	42	Wetzel	Grant	Donald J. D'Lusky	111.00
24	14	33	Wetzel	Grant	Atlee & Hilda Conaway	108.00
25	14	20	Wetzel	Grant	The E. Lorna Howard Trust, LLC, et al.	126.50
26	none	none	Wetzel	Grant	Unknown	unknow

Notes:
BIG464H13 coordinates are
NAD 27 Nr. 390,422.16 E: 1,713,398.55
NAD 27 Lat: 39.567484 Long: 80.516651
NAD 83 UTM Nr. 4,379,874.97 E: 541,533.96
BIG464H13 Landing Point coordinates are
NAD 27 Nr. 388,782.01 E: 1,716,746.35
NAD 27 Lat: 39.563030 Long: 80.504711
NAD 83 UTM Nr. 4,379,386.23 E: 542,552.34
BIG464H13 Bottom Hole coordinates are
NAD 27 Nr. 386,202.33 E: 1,717,832.87
NAD 27 Lat: 39.556036 Long: 80.500756
NAD 83 UTM Nr. 4,378,611.92 E: 542,906.35
West Virginia Coordinate system of 1927 (North Zone)
based upon Differential GPS Measurements.
Plat orientation, corner and well ties are based upon
the grid north meridian.
Well location references are based upon the grid north
meridian.
UTM coordinates are NAD83, Zone 17, Meters.



* 802

* 821
797
* 993A
1239A

* 2500'

* 816
* 816
* 815
* Scale 1" = 2000'

 Lease No.
 Acres
 Owner

 703716
 400
 Ridgetop Royalties LLC, et al

 1010666
 32
 Ridgetop Royalties LLC, et al

Well References

A 16A° 07'06"

A 16A° 07'06"

A 16A° 07'06"

B 16A6464H13

B 16A6464H13

B 16A6464H13

B 16A6464H13

B 16A6464H13



Proposed Gas Well Located Corner, as n

Surface Tract Lines Reference Line

Lease Boundary

Creek or Drain WV County Route

I, the undersigned, hereby certify that this plat is correct to the best of my knowledge and belief and shows all the information required by law and the regulations issued and prescribed by the Department of Environmental Protection.

P.S. 2092



20

FILE NO: _125-16

DRAWING NO: _125-16 BIG464H13

SCALE: _____1" = 2000'

MINIMUM DEGREE OF ACCURACY: ______1:2500

PROVEN SOURCE OF ELEVATION:

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

WEST P

OFLINA	or.	S WELL INC		-101011110
	A	PI WELL	N	O HGA
47		103		03211

DATE: August 31

TACO CONO Station	-	23/10/2000		STATE	COUNTY	PERMIT
WELL TYPE: ☐ OIL ☐ GAS			SPOSAL HALLOW			
LOCATION: ELEVATION: Existing: 13 Proposed: 12	FION: STORAGE 05.0 WATERSHED	Wiley Fork		RANGLE:	Big Run	
DISTRICT: Grant			: Wetzel			
SURFACE OWNER: Coastal Forest R	esources Company d/b/a Co	pastal Timberlands C	ompany	1	CREAGE 25	25/2017
ROYALTY OWNER: Ridgetop Royalt					CREAGE: 7	8
PROPOSED WORK: ☑ DRILL ☐ C☐ C☐ PERFORATE NEW FORMATION	ONVERT DRILL DEE	PER IN FRACTUR	RE OR STIMULA	TE PLU	JG OFF OLD F	FORMATION
□ PLUG AND ABANDON □ CLEAN					MATED DEPT	H: _7,419'
WELL OPERATOR: EQT Production	Company	DESIGNATED AG	ENT: Rex C. Ray			
ADDRESS: 115 Professional	Place PO Box 280	ADDRESS:	115 Profes	sional Place	PO Box 280	
Bridgeport, WV 2	6330		Bridgeport,	WV 26330		

Operator's	Well No	BIG464H13	
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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:

Number	Grantor, Lessor, etc.	Grantee, Lessee, etc.	Royalty	Book/Page
Lease Name or				1000

see attached

Office of Oil and Gas

SEP 1 3 2017

WV Department of Environmental Protection

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

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

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

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

Well Operator: EQT Production Company

By: Victoria J Roark

Its: Regional Land Supervisor

Operator's Well No.

BIG464H13

Lease No.	Grantor, Lessor, etc.	Grantee, Lessee, etc.	Royalty	Book/Page
<u>707114</u>	Ridgetop Royalties LLC, et al. (current royalty owner)		**	
	W.S. Furbee, et ux	Carnegie Natural Gas Company		DB 2A/182
•	Carnegie Natural Gas Company	Carnegie Production Company		DB 78A/513
	Carnegie Production Company	Equitable Production - Eastern States, Inc	.	see attached merger
	Equitable Production - Eastern States, Inc.	Equitable Production Company		see attached merger
	Equitable Production Company	EQT Production Company		CB 281/347
<u>1010666</u>	Ridgetop Royalties LLC, et al.	EQT Production Company	**	DB 166A/638
	Ridgetop Royalties LLC, et al. (current royalty owner)		**	
<u>703716</u>	Sara J. Furbee	C.D. Greenlee		DB 63/89
	C.D. Greenlee	Carnegie Natural Gas Company		See attached assignmen
	Carnegie Natural Gas Company	Carnegie Production Company		DB 78A/513
	Carnegie Production Company	Equitable Production - Eastern States, Inc	•	see attached merger
	Equitable Production - Eastern States, Inc.	Equitable Production Company		see attached merger
	Equitable Production Company	EQT Production Company		CB 281/347

**Per West Virginia Code Section 22-6-8.

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WV Department of Environmental Protection

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DEC 29 2002 2:01 PM FR EQT

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In compliance with the re tiness corporations; desiring			to cricles of merg	erorconsol	dation). the undersi
The name of the corporation	on surviving the me	rger is: EQUITABLE 1	RODUCTION - EA	ASTERN STA	KTES, INC.
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(b) c/o:					1, 7,
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C8:15-1926 (Rev.90)-2	
(Check, and it appropriate complete,	one of the following):
12 J. C.	va upon filing these Articles of Merger in the Department of State,
X The plan of merger shot be effecti	
he monner in which the plan of merge	If was adopted by each domestic corporation is as follows:
Name of Corporation	Monner of Adaption
Samegie Production Company	Adopted by action of the board of directors of the corporation
	pursuant to 15 PA, C, S. Section 1924(b)(2)
hock, and it appropriate complete, or The plan of menger is set forth in full _Punyant to 15 Pa.C.S. 5 1901 (relatin	ne of the following): In Echibir A affached hare to and made a part hereof. To to provision of certain provisions from filed plans the provisions if any, at the
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The plan of merger is set forth in full. Punyant to 15 Pa,C,S, § 1901 (relative plan of merger that amend ar const effect subsequent to the effective a hereof. The full text of the plan of maddress of which is: Number and Street	in Ethior A attached hareto and made a part hereof. In the provision of certain provisions from filed plans) the provisions, if any, at the lifute the operative Articles of Incorporation of the surviving corporation as in late of the plan are set forth in full in Exhibit A attached hereto and made a part hereor is an file at the principal place of business at the surviving corporation, the local corporation are each undersigned corporation has caused these Articles of fileer thereof this 29th and or December 2000. Equitable Production - Fastern States, Inc. [Name of Corporation] BY: Many of Oliverships.
_Punvant to 15 Pa.C.s. § 1901 (relating plan of merger that amend ar considered subsequent to the effective a hereof. The full text of the plan of maddress of which is: Number and Street	in Exhibit A attached hareto and made a part hereof. In the original provisions from filed plans) the provisions, if the provisions of certain provisions from filed plans) the provisions, if the provisions of the surviving corporation as in the plan are set forth in full in Exhibit A attached hereto and made a part hereof is an file at the plantage place of business at the surviving corporation, the capture of the plantage place of business at the surviving corporation, the capture of the plantage of the
The plan of merger is set forth in full. Punyant to 15 Pa,C,S, § 1901 (relative plan of merger that amend ar const effect subsequent to the effective a hereof. The full text of the plan of maddress of which is: Number and Street	in Europe A attached hareto and made a part hereof. In the following): In the following of certain provisions from filed plans) the provisions, if only, of the liftule the operative Articles of incorporation of the surviving corporation as in that of the plan are set forth in full in Exhibit A attached hereto and made a part herger is on file at the plancipal place of business of the surviving corporation, the lift of the plancipal place of business of the surviving corporation, the lift of the plancipal place of business of the surviving corporation, the lift of the plancipal place of business of the surviving corporation, the lift of the plancipal place of the surviving corporation and the surviving corporation a

P. 17

AGREEMENT AND PLAN OF MERGER BETWEEN EQUITABLE PRODUCTION – EASTERN STATES, INC. AND CARNEGIE PRODUCTION COMPANY

AGREEMENT AND PLAN OF MERGER, dated this 29th day of December, 2000, pursuant to Section 252 of the General Corporation Law of the State of Delaware and Section 1926 of the Pennsylvania Business Corporation Law of 1988 between Equitable Production – Eastern States, Inc., a Delaware corporation and Carnegle Production Company, a Pennsylvania corporation.

WHEREAS, the constituent corporations desire to merge into a single corporation.

NOW, THEREFORE, the corporations, parties to this Agreement, in consideration of the mutual covenants, agreements and provisions hereinafter contained and intending to be legally bound, do hereby prescribe the terms and conditions of said merger and mode of carrying the same into effect as follows:

FIRST: Effective December 31, 2000, Carnegie Production Company hereby merges into Equitable Production - Eastern States, Inc. and Equitable Production - Eastern States, Inc. shall be the surviving corporation.

SECOND: The Certificate of Incorporation of Equitable Production — Eastern States, Inc. as heretofore amended and is in effect on the date of the merger provided in this Agreement, shall continue in full force and effect as the Certificate of Incorporation of the corporation surviving this merger.

THIRD: The manner of converting the outstanding shares of the common stock of each of the constituent corporations into shares or other securities of the surviving corporation shall be as follows: Each share of common stock of the surviving corporation, Equitable Production - Eastern States, Inc., which is issued and outstanding on the effective date of this Agreement, shall remain issued and outstanding. Each share of common stock of the merged corporation, Carnegie Production Company, shall be cancelled.

FOURTH: The terms and conditions of the merger are as follows:

(a) The by-laws of the surviving corporation as they shall exist on the effective date of this Agreement shall be and remain the by-laws of the surviving corporation until the same shall be altered, amended and repealed as therein provided.

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- (b) The directors and officers of the surviving corporation shall continue in office until the next annual meeting of stockholders and until their successors shall have been elected and qualified.
- Upon the merger becoming effective, all the property, rights, privileges, (c) franchises, patents, trademarks, licenses, registrations and other assets of every kind and description of the merged corporation shall be transferred to, vested in and devolved upon the surviving corporation without further act or deed and all property, rights, and every other interest of the surviving corporation and the merged corporation shall be effectively the property of the surviving corporations as they were of the surviving corporation and the merged corporation respectively. The merged corporation hereby agrees from time to time, as and when requested by the surviving corporation or by its successors or assigns, to execute and deliver or cause to be executed and delivered all such deeds and instruments and to take or cause to be taken such further or other action as the surviving corporation and may deem to be necessary or desirable in order to vest in and confirm to the surviving corporation title to and possession of any property of the merged corporation acquired or to be acquired by reason of or as a result of the merger herein provided for and otherwise to carry out the intent and purposes hereof and the proper officers and directors of the merged corporation and the proper officers and directors of the surviving corporation are fully authorized in the name of the merged corporation or otherwise to take any and all such action.

IN WITNESS WHEREOF, the parties to this agreement, pursuant to the approval and authority duly given by resolutions adopted by their respective Board of Directors and stockholders have caused these presents to be executed by the officers of each party hereto as the respective act, deed and agreement of said corporations on this 29th day of December 2000.

EQUITABLE PRODUCTION -EASTERN STATES, INC.

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VP and Corporate Secretar

CARNEGIE PRODUCTION COMPANY

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Office of Oil and Gas

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WV Department of Environmental Protection

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PENNSYLVANIA DEPARTMENT OF STATE
CORPORATION BUREAU
ROOM 308 NORTH OFFICE BUILDING
P.O. BOX 8722
HARRISBURG, PA 17105-8722

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EQUITABLE PRODUCTION COMPANY

PR

THE CORPORATION BUREAU IS HAPPY TO SEND YOU YOUR FILED DOCUMENT. PLEASE NOTE THE FILE DATE AND THE SIGNATURE OF THE SECRETARY OF THE COMMONWEALTH. THE CORPORATION BUREAU IS HERE TO SERVE YOU AND WANTS TO THANK YOU FOR DOING BUSINESS IN PENNSYLVANIA. IF YOU HAVE ANY QUESTIONS PERTAINING TO THE CORPORATION BUREAU, CALL (717) 787-1057.

ENTITY NUMBER: 2980374

MICROFILM NUMBER: 2001032

1297-1300

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Office of Oil and Gas

SEP 1 3 2017

WV Department of Environmental Protection

C T CORP SYSTEM COUNTER

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Microfilm Number		Flied with the Depa	rtment of Stat	APR 3 0 2007
Entity Number 2956374	·	Min	Hypry	inlh
		Secreto	ry of the Com	monwealth
ARTICLES OF	F MERGER-DOMESTIC DSCB:15-1926 (R		PORATION	
In compliance with the requirements of business corporations, desiring to effect a m		to articles of merge	r or consollda	flon), the undersigned
1. The name of the corporation surviving the	e merger is: Equitable Produ	ection Company	***************************************	
2. (Check and complete one of the followin * The surviving corporation is a domest Commonwealth or (b) name of its co Department is hereby authorized to (tic business corporation an immercial registered office correct the following inform	provider and the c	ounty of venu	e is (the
(a) Number and Street	City	State	Zip	County
(b) c/o: CT Corporation System			A	llegheny
Name of Commercial Reg	istered Office Provider			County
and the (a) address of its current reg office provider and the county of ver to conform to the records of the Dep	nue is (the Department is hoartment):	ereby authorized to	corect the fo	ollowing information
(a) Number and Street	City	State	Zip	County
(b) c/o: Name of Commercial Reg	stered Office Provider			County
For a corporation represented by a commercial corporation is located for venue and official pr		e county in (b) shall be	deemed the c	ounty in which the
The surviving corporation is a nonque and the address of its principal office	alified foreign business comes under the laws of such do	peration incorporate emiciliary jurisdiction	ed under the k is:	ows of
Number and Street	City	State	Zlp	
 The name and the address of the register provider and the county of venue of each which is a party to the plan of merger are 	ch other domestic business e as follows:	corporation and qu	ualified foreign	n business corporation
Name of Corporation Address o	of Registered Office or Nume of	Commercial Registers	d Office Provide	
Equitable Production Company	CT Corporation System			Allegheny Office of Oil and Coo
Equitable Production-Eastern	States, Inc. CT	Corporation Sy	zstem	Office of Oil and Gas Allegheny SEP 1 3 2017
				W/ Department
PARES - IOV 499 CT System Calling	√d ·			Environmental Protection

UZ

12/15/2017

DSCB:15-1926 (Rev 90)-2

The plan of merger shall be effective t				
X The plan of merger shall be effective of	on: April 30, 2001	at		Hour
	54.4			
The manner in which the plan of merger w	ras adopted by each dome	estic corporation is	as follows:	
		Adoption		
Name of Carporation			raignt to Sec.	1924 of the PA BCL
Equitable Production Company	Adopted by 2	,		
(Strike out this paragraph if no foreign corrapproved, as the case may be, by the fo	poration is a party to the maretan business corporation	erger). The plan w (or each of the fore	as authorized algn business	i, adopted or corporations) party to
the plan in accordance with the laws of	the jurisdiction in which it is	incorporated.		
(Check, and if appropriate complete, one	e of the following):			
X The plan of merger is set farth in full in	Exhibit A attached hereto	and made a part l	hereof.	
Pursuant to 15 Pa.C.S. § 1901 (relating plan of merger that amend or constitution of subsequent to the effective distribution of the plan of mergers of which is:	India tile oberen			AIA ARA ITKILIH U DUL
plan of merger that amend of consti- effect subsequent to the effective d hereof. The full text of the plan of manddress of which is:	India tile oberen			AIA ARA ITKILIH U DUL
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SEP 1 3 2017

WV Department of Environmental Protection

12/15/2017

AGREEMENT AND PLAN OF MERGER

BETWEEN

EQUITABLE PRODUCTION - EASTERN STATES, INC.

AND

EQUITABLE PRODUCTION COMPANY

AGREEMENT AND PLAN OF MERGER, dated this 30th day of April 2001, pursuant to Section 251 of the General Corporation Law of the State of Delaware between Equitable Production – Eastern States, Inc., a Delaware corporation, and Equitable Production Company, a Pennsylvania corporation.

WHEREAS, the constituent corporations desire to merge into a single corporation.

NOW, THEREFORE, the corporations, parties to this Agreement, in consideration of the mutual covenants, agreements and provisions hereinafter contained, do hereby prescribe the terms and conditions of said merger and mode of carrying the same into effect as follows:

FIRST: Effective on April 30, 2001, Equitable Production Company. hereby merges into itself Equitable Production – Eastern States, Inc., and Equitable Production Company shall be the surviving corporation.

SECOND: The Articles of Incorporation of Equitable Production Company as heretofore amended and as in effect on the date of the merger provided in this Agreement, shall continue in full force and effect as the Articles of Incorporation of the corporation surviving this merger.

THIRD: The outstanding shares of the capital stock of Equitable Production – Eastern States, Inc. shall be cancelled as of the effective date of the merger pursuant to this Agreement and no new shares issued therefor.

FOURTH: The terms and conditions of the merger are as follows:

- (a) The by-laws of the surviving corporation as they shall exist on the effective date of this Agreement shall be and remain the by-laws of the surviving corporation until the same shall be altered, amended Office of Oil and Gas and repealed as therein provided.

 SEP 1 3 2017
- (b) The directors and officers of the surviving corporation shall www Department of continue in office until the next annual meeting of the shareholders of the shareholders.

12/15/2017

and until their successors shall have been elected and qualified.

(c) Upon the merger becoming effective, all the property, rights, privileges, franchises, patents, trademarks, licenses, registrations and other assets of every kind and description of the merged corporation shall be transferred to, vested in and devolved upon the surviving corporation without further act or deed and all property, rights, and every other interest of the surviving corporation and the merged corporation shall be effectively the property of the surviving corporation as they were of the surviving and the merged corporations, respectively. The merged corporation hereby agrees from time to time, as and when requested by the surviving corporation or by its successors or assigns, to execute and deliver or cause to be executed and delivered all such deeds and instruments and to take or cause to be taken such further or other action as the surviving corporation may deem to be necessary or desirable in order to vest in and confirm to the surviving corporation title to and possession of any property of the merged corporation acquired or to be acquired by reason of or as a result of the merger herein provided for and otherwise to carry out the intent and purposes hereof and the proper officers and directors of the merged corporation and the proper officers and directors of the surviving corporation are fully authorized in the name of the merged corporation or otherwise to take any and all such action.

IN WITNESS WHEREOF, the parties to this agreement, pursuant to the approval and authority duly given by resolutions adopted by their Board of Directors have caused these presents to be executed by the President of each party hereto as the respective act, deed and agreement of said corporations on this 30th day of April 2001.

ATTEST:

EQUITABLE PRODUCTION – EASTERN STATES, INC.

President

TABLE PRODUCTION COMPANY Office of Oil and Gas

SEP 1 3 2017

WV Department of Environmental Protection

COMMONWEALTH OF DEPARTMENT OF STATE

APRIL 30, 2001

TO ALL WHOM THESE PRESENTS SHALL COME, GREETING:

EQUITABLE PRODUCTION COMPANY

I, Kim Pizzingrilli. Secretary of the Commonwealth of Pennsylvania do hereby certify that the foregoing and annexed is a true and correct photocopy of Articles of Merger

which appear of record in this department



IN TESTIMONY WHEREOF, I have hereunto set my hand and caused the Seal of the Secretary's Office to be affixed, the day and year above written.

Office of Oil and Gas

Secretary of the Commonwealth

DPOS

In consideration of One-thousand (\$1,000.00) Dollars to me in hand paid by the Carnegie Natural Gas Company, receipt of which is hereby acknowledged, I, C. D. Greenlee of Pittsburg, Pennsylvania, dio hereby sell, transfer and set over to the Carnegie Natural Cas Company, its successors and assigns, the gas and gas rights in two certain oil and gas leases on land situated in Grant District, Wetzel County, West Virgnia, bounded and described as follows: - Lease made by Wilson Ney, et. ux., February 16th, 1898, to C. D. Greenlee, bounded on the North by lands of James Furbee; , East by lands of John H. Snodgrass, et.al; South by lands of S. P. Snodgrass; West by lands of James Allen, containing 600 acres, more or less, recorded in deed book #55 page #146; also lease made by Sarah J. Furbee, dated March 20th, 1900, to C. D. Greenlee, bounded on the North by lands of Hiley and Snodgrass; East by lands of Ney, Kendall and Allen; South by lands of Allen and Ott; West by lands \$716 of Allen and Glover, containing 400 acres, more or less, recorded in deed book #63 page #89.

Together with all my estate, right, title, interest and privilege in and to the gas and gas rights in the herein described tracts of land. SIGNED, SEALED and DELIVERED by the parties hereto this 25 day

of June, A.D., 1900.

STATE OF WEST VIRGINIA

STATE OF WEST VIRGINIA

To-wit:

COUNTY OF Recoards

I, B. Johnson

a Molary Rublic of

said County, do certify that

hts wife, whose name is signed to

the writing within, bearing date the 25" day of June 1900

ha o this day acknowledged the same before be in my said County.

Given under my hand this 25" day of June 1900.

Office of Oil and Gas

SEP 1 3 2017

WV Department of Environmental Protection



August 21, 2017

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

Re: BIG464

Grant District, Wetzel County

Dear Mr. Martin,

EQT Production Company is submitting an application for a new well work permit for the above well number. Upon information and belief, Operator's lease and/ or other real property rights permit it to conduct drilling operations for the subject well in the location shown on the plat, including under any public roads that the well lateral crosses.

Sincerely,

Vicki Roark

Permitting Supervisor-WV

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

Date of Notice	ce Certification: 9-8-17		l No. 47		321
				Well No. BIG4	64H13
		We	ll Pad N	ame: BIG464	
Notice has I Pursuant to the	been given: ne provisions in West Virginia Code tract of land as follows:	§ 22-6A, the Operator has provided	d the req	uired parties v	with the Notice Forms listed
State:	w	Eas	ting:	541,533.96	
County:	Wetzel		thing:	4,379,874.97	
District:	Grant	Public Road Access:	맛요		
Quadrangle:	Big Run	Generally used farm i			Coastal Forest Resources Co. dba Coastal Timberlands C
Watershed:	Wiley Fork				
information re of giving the requirements Virginia Code of this article	ed the owners of the surface descri- equired by subsections (b) and (c), s surface owner notice of entry to s of subsection (b), section sixteen of e § 22-6A-11(b), the applicant shall have been completed by the applica	ection sixteen of this article; (ii) the article pursuant to subsection (a), so this article were waived in writtender proof of and certify to the sent.	t the received to the ting by the teretary	uirement was en of this arti- he surface ow that the notice	deemed satisfied as a result cle six-a; or (iii) the notice vner; and Pursuant to West
that the Ope	West Virginia Code § 22-6A, the Orator has properly served the require	perator has attached proof to this North dearnies with the following:	lotice Ce	ertification	OOG OFFICE USE
*PLEASE CHI	ECK ALL THAT APPLY				ONLY
☐ 1. NO	FICE OF SEISMIC ACTIVITY or	■ NOTICE NOT REQUIRED SEISMIC ACTIVITY WAS CO			RECEIVED/ NOT REQUIRED
☐ 2. NO	TICE OF ENTRY FOR PLAT SUR	YEY or 🔳 NO PLAT SURVEY V	VAS CC	NDUCTED	☐ RECEIVED
■ 3, NO	TICE OF INTENT TO DRILL or	NOTICE NOT REQUIRED NOTICE OF ENTRY FOR PLAY WAS CONDUCTED OF			☐ RECEIVED/ NOT REQUIRED
		☐ WRITTEN WAIVER BY S (PLEASE ATTACH)	URFAC	E OWNER	
■ 4. NO	ΓΙCE OF PLANNED OPERATION				☐ RECEIVED
■ 5. PUE	BLIC NOTICE				☐ RECEIVED
■ 6 NOT	FIGE OF APPLICATION				□ PECEIVED

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 satisfice, of file of Oil and Gas.

SEP 1 3 2017

Certification of Notice is hereby given,

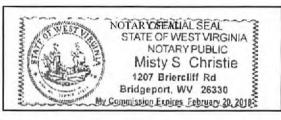
THEREFORE, 1 ________, have read and understand the notice requirements within West Virginia Code § 22-6A. I certify that as required under West Virginia Code § 22-6A, I have served the attached copies of the Notice Forms, identified above, to the required parties through personal service, by registered mail or by any method of delivery that requires a receipt or signature confirmation. I certify under penalty of law that I have personally examined and am familiar with the information submitted in this Notice Certification and all attachments, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

 Well Operator:
 EQT Production Company
 Address:
 115 Professional Place PO Box 280

 By:
 Victoria J Roark
 Bridgeport WV 26330

 Its:
 Regional Land Supervisor
 Facsimile:
 304-848-0041

 Telephone:
 304-848-0076
 Email:
 vroark@eqt.com



Subscribed and sworn before me this 8th day of Material Notary Public

My Commission Expires 2/36/18

Oil and Gas Privacy Notice:

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

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WW-6A (9-13) API NO. 47- 103 - 03211

OPERATOR WELL NO. BIG464H13

Well Pad Name: BIG464

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

Noti	ce Time Requireme	ent: notice shall be prov	ided no later tha	an the filing date of permit applicati	ion.	
	of Notice: 981	Date Permit Applica		8-17		
		Date Permit Applica	ition Filed: 4/	0 1		
Noti	ce of:					
V	PERMIT FOR ANY	V CERTIF	ICATE OF API	PROVAL FOR THE		
_	WELL WORK			AN IMPOUNDMENT OR PIT		
	WELL WORK	CONSTI	ROCTION OF	AN IMPOUNDMENT OR PIT		
Deli	very method pursua	ant to West Virginia C	ode § 22-6A-10	(b)		
	PERSONAL	REGISTERED	✓ METH	OD OF DELIVERY THAT REQUIR	RES A	
	SERVICE	MAIL	RECE	IPT OR SIGNATURE CONFIRMAT	ΓΙΟΝ	
the soil and description of th	urface of the tract on and gas leasehold being fibed in the erosion are ator or lessee, in the expectation of the surface to work, if the surface to undment or pit as design a water well, spring of the work activitient of the sheriff requision of this article to R. § 35-8-5.7.a requ	which the well is or is prog developed by the propo- nd sediment control plan is went the tract of land on vi- owners of record of the stract is to be used for the p scribed in section nine of or water supply source loo- ption by humans or dome- try is to take place. (c)(1) I on hold interests in the lating to be maintained pur- the contrary, notice to a I tires, in part, that the open	oposed to be locased well work, its submitted pursual which the well purface tract or traplacement, constitution article; (5) / cated within one stic animals; and If more than three unds, the applicant suant to section is ien holder is not rator shall also p	he well plat to each of the following peated; (2) The owners of record of the suffice tract is to be used for road ant to subsection (c), section seven of the proposed to be drilled is located [sic] is latest overlying the oil and gas leasehold function, enlargement, alteration, repair, any surface owner or water purveyor withousand five hundred feet of the center (6) The operator of any natural gas store tenants in common or other co-owners may serve the documents required upeight, article one, chapter eleven-a of the notice to a landowner, unless the lien be rovide the Well Site Safety Plan ("WSS as provided in section 15 of this rule."	urface tract or to ls or other land his article; (3) known to be un being develop removal or abordon to er of the well porage field with ers of interests of pon the person his code. (2) No holder is the la	racts overlying the disturbance as The coal owner, inderlain by one or ed by the proposed andonment of any of the applicant to ad which is used to ain which the described in described in the otwithstanding any indowner. W. Va.
☑ A	pplication Notice	☑ WSSP Notice ☑ E&	&S Plan Notice	☑ Well Plat Notice is hereby pro	ovided to:	
	JRFACE OWNER(s)		☐ COAL OWNER OR LESSEE		Office of Oil and Gas
	e: See Attached		-	Name: See Attached		SEP 1 3 2017
Add	ess:		-	Address:		-027 1 2 200
Vam	e:		-	COAL OPERATOR	Envi	WV Department of protection
Add			_	Name:	-1101	ronmental pent of
				Address:		otection
SU	RFACE OWNER(s	(Road and/or Other Dis	sturbance)			
	e: See Attached	Merchanism Control		SURFACE OWNER OF WATER	R WELL	
Add	ess:			AND/OR WATER PURVEYOR(s))	
			_	Name: See Attached		
Vam	e:		_	Address:		_
Add	ess:		_			
				☐ OPERATOR OF ANY NATURA		
		(Impoundments or Pits	5)	Name:		
	e: See Attached		<u> </u>	Address:		
Addı	ess:		_			- 12
			_	*Please attach additional forms if ne	ecessary	

API NO. 47-103 - 032 II
OPERATOR WELL NO. BIG464H13
Well Pad Name: BIG464

STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS OF TIME A DAY OF A TERM FROM OFFICE OF OIL AND GAS

VOLUNTARY STATEMENT OF NO OBJECTION

Instructions to Persons Named on Page WW-6A

The well operator named on page WW-6A is applying for a permit from the State of West Virginia to conduct oil or gas well work. Well work permits are valid for twenty-four (24) months. Please contact the listed well operator and the Office of Oil and Gas if you do not own any interest in the listed surface tract.

Comment and Waiver Provisions

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.

Pursuant to West Virginia Code § 22-6A-8(b) No permit may be issued less than thirty days after the filing date of the application for any well work except plugging or replugging; and no permit for plugging or replugging may be issued less than five days after the filing date of the application except a permit for plugging or replugging a dry hole: *Provided*, That if the applicant certifies that all persons entitled to notice of the application under the provisions of subsection (b), section ten of this article have been served in person or by certified mail, return receipt requested, with a copy of the well work application, including the erosion and sediment control plan, if required, and the well plat, and further files written statements of no objection by all such persons, the secretary may issue the well work permit at any time.

VOLUNTARY STATEMENT OF NO OBJECTION

State: County: District: Quadrangle:	the well plat, all for proposed well work on the trac	TM NAD 83 Easting:	541,533.96	
	Wetzel	Northing: 4	RT 250	
		ublic Road Access:		
		ienerally used farm name:	Coastal Forest Resources Co. cba Coastal Timberlands C	
Watershed:	Wiley Fark			
	The second of th			
*Please chec	k the box that applies	FOR EXECUT	TON BY A NATURAL PERSON	
/		200000000000000000000000000000000000000	TO DE LITTURE LE	
SURFA	CE OWNER	Signature:		
	CE OWNER CE OWNER (Road and/or Other Disturbance)	Signature: Print Name:		
SURFA		Signature: Print Name: Date:		
☑ SURFA	CE OWNER (Road and/or Other Disturbance) CE OWNER (Impoundments/Pits)	Signature: Print Name: Date: FOR EXECUT	TON BY A CORPORATION, ETC.	
SURFACE SURFACE	CE OWNER (Road and/or Other Disturbance) CE OWNER (Impoundments/Pits) OWNER OR LESSEE	Signature: Print Name: Date: FOR EXECUT Company:	TON BY A CORPORATION, ETC.	
SURFACE SURFACE	CE OWNER (Road and/or Other Disturbance) CE OWNER (Impoundments/Pits)	Signature: Print Name: Date: FOR EXECUT Company: By:	TION BY A CORPORATION, ETC.	
SURFACE SURFACE COAL COAL COAL COAL COAL COAL COAL COAL	CE OWNER (Road and/or Other Disturbance) CE OWNER (Impoundments/Pits) OWNER OR LESSEE	Signature: Print Name: Date: FOR EXECUT Company: By:	TON BY A CORPORATION, ETC. T Bluegras s	

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 of the privacy officer at deprivacy officer www.gov.

SEP 1 3 2017



Surface Owners: Access Road

Coastal Forest Resources Co DBA Coastal Timberlands Co PO Box 709 Buckhannon WV 26201

Rich Rager 4620 Simpson Road Grafton WV 26354

Timothy E Titus 7335 Willey Fork Rd Burton WV 26562

Higgins Family Trust 531 Franklin Trace Washington PA 15301

ET Bluegrass 625 Liberty Avenue, Suite 1700 Pittsburgh, PA 15222

Robert E Tonkery 33 Tonkery Dr Fairmont WV 26554

Paul Able Trustee et al PO Box 54 New Martinsville WV 26155

William J & Beverly L Barr 1044 Barr Road Smithfield WV 26437

Donald & Diana White 5017 Husky Hwy Mannington WV 26582

Beverly Hickman 132 Joes Run Rd Morgantown WV 26508 Paul Glover 15861 Rt 301 LaGrange OH 44050

Raymond Teagarden / 718 Evans Run Rd Mannington WV 26582

David A Floyd & Diane E Floyd 12 Emily Ct Fairmont WV 26554

Keith & Rita Powell 3898 Buffalo Brink Rd Mannington WV 26582

Office of Oil and Gas

SEP 1 3 2017

Surface Owners:

Coastal Forest Resources Co
DBA Coastal Timberlands Co
PO Box 709
Buckhannon WV 26201

ET Bluegrass 625 Liberty Avenue, Suite 1700 Pittsburgh, PA 15222



Office of Oil and Gas

SEP 1 3 2017

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Surface Owners: AST

Coastal Forest Resources Co DBA Coastal Timberlands Co PO Box 709 Buckhannon WV 26201

ET Bluegrass 625 Liberty Avenue, Suite 1700 Pittsburgh, PA 15222



Office of Oil and Gas

SEP 1 3 2017

WV Department of Environmental Protection

Coal Owners:

CNX Land LLC Engineering Operations Support Dept Coal Attn: Casey Saunders 1000 Consol Energy Dr Canonsburg PA 15317

Consol Mining Company
Engineering Operations Support Dept Coal
Attn: Casey Saunders
1000 Consol Energy Dr
Canonsburg PA 15317

Coastal Forest Resources Co DBA Coastal Timberlands Co PO Box 709 Buckhannon WV 26201

Jackson T. Beatty 14048 Roblar Street Sherman Oaks, CA 91423

Joe P. Beatty Jr. 818 Cabin John Parkway Rockville, MD 20852

William F. Beatty 83 Cozy mountain Lane Weaverville, NC 28787

James F. Beatty Trust 317 Washington Street East Charleston, WV 25301

SKB Mineral Interest LLC 3606 Pruetts Chapel Road Paraground, AK 72450

Scott T. Beatty 1003 Saint Johns Drive Charlevoix, MI 497230-1342

Ann Beatty Reynolds / P.O. Box 5 Elkview, WV 25071



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Coal Owners Continued:

Patrick G. Beatty 7755 Grant Creek Road Missoula, MT 59808

CBM Only

CNX Gas Company LLC 1000 Consol Energy Drive Canonsburg, PA 15317

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Owners of Water Sources:

ET Bluegrass 625 Liberty Avenue, Suite 1700 Pittsburgh, PA 15222

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SEP 1 3 2017

WV Department of Environmental Protection

12/15/2017

API NO. 47- 103 OPERATOR WELL NO.

Well Pad Name: BIG464

Notice is hereby given:

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

This Notice Shall Include:

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

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

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

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

Additional information related to horizontal drilling may be obtained from the Secretary, at the wv pepartinent of Entraction and Secretary and

Well Location Restrictions

SEP 1 3 2017 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 a partinent of hundred twenty-five feet of an occupied dwelling structure, or a building two thousand five hundred square feet or larger used to house or shelter dairy cattle or poultry husbandry. This limitation is applicable to those wells, developed springs, dwellings or agricultural buildings that existed on the date a notice to the surface owner of planned entry for surveying or staking as provided in section ten of this article or a notice of intent to drill a horizontal well as provided in subsection (b), section sixteen of this article was provided, whichever occurs first, and to any dwelling under construction prior to that date. This limitation may be waived by written consent of the surface owner transmitted to the department and recorded in the real property records maintained by the clerk of the county commission for the county in which such property is located. Furthermore, the well operator may be granted a variance by the secretary from these distance restrictions upon submission of a plan which identifies the sufficient measures, facilities or practices to be employed during well site construction, drilling and operations. The variance, if granted, shall include terms and conditions the department requires to ensure the safety and protection of affected persons and property. The terms and conditions may include insurance, bonding and indemnification, as well as technical requirements. (b) No well pad may be prepared or well drilled within one hundred feet measured horizontally from any perennial stream, natural or artificial lake, pond or reservoir, or a wetland, or within three hundred feet of a naturally reproducing trout stream. No well pad may be located within one thousand feet of a surface or ground water intake of a public water supply. The distance from the public water supply as identified by the department shall be measured as follows: (1) For a surface water intake on a lake or reservoir, the distance shall be measured from the boundary of the lake or reservoir. (2) For a surface water intake on a flowing stream, the distance shall be measured from a semicircular radius extending upstream of the surface water intake. (3) For a groundwater source, the distance shall be measured from the wellhead or spring. The department may, in its discretion, waive these distance restrictions upon submission of a plan identifying sufficient measures, facilities or practices to be employed during well site construction, drilling and operations to protect the waters of the state. A waiver, if granted, shall impose any permit conditions as the secretary considers necessary. (c) Notwithstanding the foregoing provisions of this section, nothing contained in this section prevents an operator from conducting the activities permitted or authorized by a Clean Water Act Section 404 permit or other approval from the United States Army Corps of Engineers within any waters of the state or within the restricted areas referenced in this section. (d) The well location restrictions set forth in this section shall not apply to any well on a multiple well pad if at least one of the wells was permitted prior to the effective date of this article. (e) The secretary shall, by December 31, 2012, report to the Legislature on the noise, light, dust and volatile organic compounds generated by the drilling of horizontal wells as they relate to the well location restrictions regarding occupied dwelling structures pursuant to this section. Upon a finding, if any, by the secretary that the well location restrictions regarding occupied dwelling structures are inadequate or otherwise require alteration to address the items

API NO. 47- 103 - 03211

OPERATOR WELL NO. BIG464H13

Well Pad Name: BIG464

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

Water Well Testing:

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

Water Testing Laboratories:

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

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

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

Written Comment:

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

SEP 1 3 2017

WV Department of Environmental Protection

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

WW-6A (8-13) API NO. 47-103 - **O371**OPERATOR WELL NO. BIG464H13
Well Pad Name: BIG464

<u>Time Limits and Methods for Filing Comments.</u>

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

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

Comment Requirements

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

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

Permit Denial or Condition

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

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

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

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

Office of Oil and Gas

SEP 1 3 2017

WW-6A (8-13)

API NO. 47- 103 OPERATOR WELL NO. BIG464H13 Well Pad Name: BIG464

Notice is hereby given by:

Well Operator: EQT Production Company

Telephone: 304-848-0076

Email: vroark@eqt.com

Address: 115 Professional Place PO Box 280

Bridgeport WV 26330

Facsimile: 304-848-0041

Oil and Gas Privacy Notice:

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

OFFICIAL SEAL
STATE OF WEST VIRGINIA
NOTARY PUBLIC
Misty S Christie
1207 Briercliff Rd
Bridgeport, WV 26330 OFFICIAL SEAL

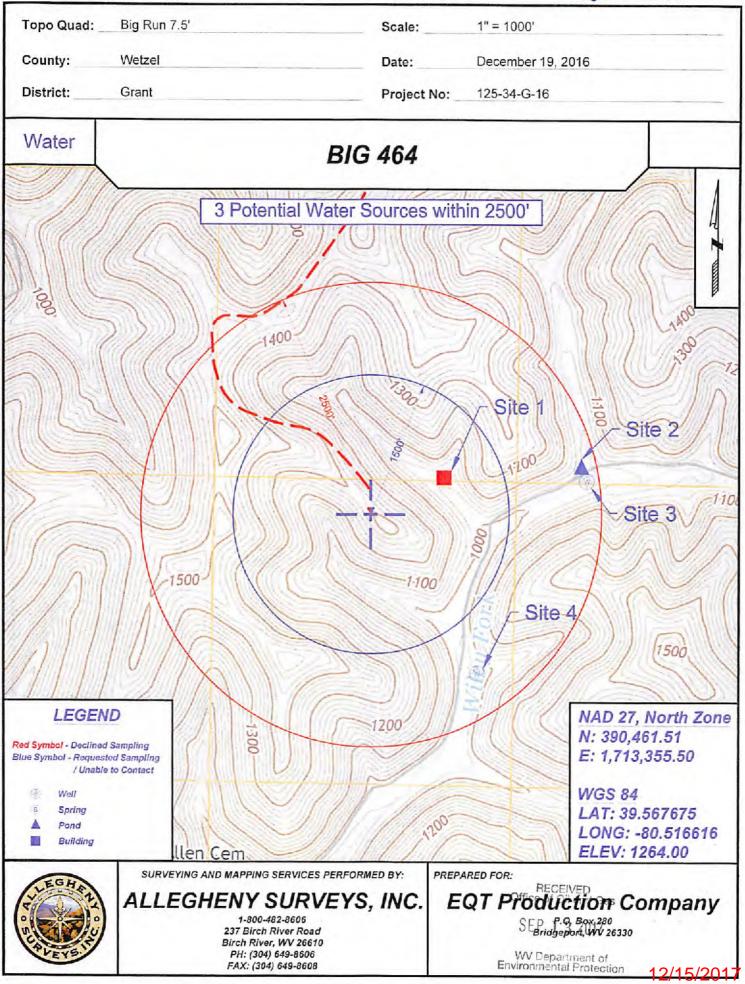
Commission Expires February 20, 2018

Subscribed and sworn before me this 8th day of Myden

Notary Public

My Commission Expires

Office of Oil and Gas



Operator Well No. BIG464H13

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

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

Watershed: Wiey Fork This Notice Shall Include: Pursuant to West Virginia Code § 22-6A-16(b), this notice shall include the name, address, telephone number, and facsimile number and electronic mail address of the operator and the operator's authorized representative. Additional related to horizontal drilling may be obtained from the Secretary, at the WV Department of Environmental Protection he located at 601 57th Street, SE, Charleston, WV 25304 (304-926-0450) or by visiting www.dep.wv.gov/oil-and-gas/pages/d Notice is hereby given by: Well Operator: EQT Production Company Authorized Representative: Victoria Roark	at least TEN (10) days prior to filing a permit application. ermit Application Filed:		Notice Time Date of Notic
Pursuant to W. Va. Code § 22-6A-16(b), at least ten days prior to filing a permit application, an operator shall, by certified receipt requested or hand delivery, give the surface owner notice of its intent to enter upon the surface owner's land for th drilling a horizontal well: Provided, That notice given pursuant to subsection (a), section ten of this article satisfies the roof this subsection as of the date the notice was provided to the surface owner: Provided, however, That the notice requires subsection may be waived in writing by the surface owner. The notice, if required, shall include the name, address, teleph and if available, facsimile number and electronic mail address of the operator and the operator's authorized representative. Notice is hereby provided to the SURFACE OWNER(s): Name: See Attached Address: Notice is hereby given: Pursuant to West Virginia Code § 22-6A-16(b), notice is hereby given that the undersigned well operator has an intent to the surface owner's land for the purpose of drilling a horizontal well on the tract of land as follows: State: W County: Welzel UTM NAD 83 Easting: S41,533-96 County: Welzel UTM NAD 83 Northing: Authorized farm name: Welzel Quadrangle: Big Run Generally used farm name: Constal Forest Resources Co. dba Coastal Walershed: Wiley Fork This Notice Shall Include: Pursuant to West Virginia Code § 22-6A-16(b), this notice shall include the name, address, telephone number, and facsimile number and electronic mail address of the operator and the operator's authorized representative. Additional related to horizontal drilling may be obtained from the Secretary, at the WV Department of Environmental Protection he located at 601 57th Street, SE, Charleston, WV 25304 (304-926-0450) or by visiting www.dep.wvy.gov/oil-and-gas/pages/d Notice is hereby given by: Well Operator: EOT Production Company	22-6A-16(b)	ethod pursuant to West Virginia Code § 22-6	Delivery met
receipt requested or hand delivery, give the surface owner notice of its intent to enter upon the surface owner's land for th drilling a horizontal well: Provided, That notice given pursuant to subsection (a), section ten of this article satisfies the roft this subsection as of the date the notice was provided to the surface owner. Provided, however, That the notice required subsection may be waived in writing by the surface owner. The notice, if required, shall include the name, address, teleph and if available, facsimile number and electronic mail address of the operator and the operator's authorized representative. Notice is hereby provided to the SURFACE OWNER(s): Name: See Attached Address: Name: See Attached Address: Name: See Attached Address: Notice is hereby given: Pursuant to West Virginia Code § 22-6A-16(b), notice is hereby given that the undersigned well operator has an intent to the surface owner's land for the purpose of drilling a horizontal well on the tract of land as follows: State: W UTM NAD 83 Easting: Stating: Orant Public Road Access: HT 250 Quadrangle: Big Run Generally used farm name: Coastal Forest Resources Co. dba Coastal Watershed: Wiley Fork This Notice Shall Include: Pursuant to West Virginia Code § 22-6A-16(b), this notice shall include the name, address, telephone number, and facsimile number and electronic mail address of the operator and the operator's authorized representative. Additional related to horizontal drilling may be obtained from the Secretary, at the WV Department of Environmental Protection he located at 601 57th Street, SE, Charleston, WV 25304 (304-926-0450) or by visiting www.dep.wv.gov/oil-and-gas/pages/d Notice is hereby given by: Well Operator: EQT Production Company Authorized Representative: Victoria Roark	EQUESTED		
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District: Quadrangle: Big Run Watershed: Wiley Fork This Notice Shall Include: Pursuant to West Virginia Code § 22-6A-16(b), this notice shall include the name, address, telephone number, and facsimile number and electronic mail address of the operator and the operator's authorized representative. Additional related to horizontal drilling may be obtained from the Secretary, at the WV Department of Environmental Protection helocated at 601 57th Street, SE, Charleston, WV 25304 (304-926-0450) or by visiting www.dep.wv.gov/oil-and-gas/pages/d Notice is hereby given by: Well Operator: EQT Production Company Authorized Representative: Victoria Roark	orizontal well on the tract of land as follows: LITM NAD 83 Easting: 541,533.96	owner's land for the purpose of drilling a horizo	the surface ov State:
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A.1.1.			
Address: 115 Professional Place PO Box 280 Address: 115 Professional Place PO Box 280	Authorized Representative: Victoria Roark	Or: EQT Production Company	1 To
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Bridgeport WV 26330 Bridgeport WV 26330			
Telephone: 304-848-0076 Telephone: 304-848-0076		304-848-0076	Control of the Contro
Email: vroark@eqt.com Email: vroark@eqt.com	A SOUTH GOLD TO SOUTH SO	vroark@eqt.com	
Facsimile: 304-848-0041 Facsimile: 304-848-0041	Facsimile: 304-848-0041	304-848-0041	Facsimile:

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.

SEP 1 3 2017



Surface Owners:

Coastal Forest Resources Co
DBA Coastal Timberlands Co
PO Box 709
Buckhannon WV 26201

ET Bluegrass 625 Liberty Avenue, Suite 1700 Pittsburgh, PA 15222

> Office of Oil and Gas SEP 1 3 2017

Surface Owners: Access Road

Coastal Forest Resources Co DBA Coastal Timberlands Co PO Box 709 Buckhannon WV 26201

Rich Rager 4620 Simpson Road Grafton WV 26354

Timothy E Titus 7335 Willey Fork Rd Burton WV 26562

Higgins Family Trust 531 Franklin Trace Washington PA 15301

ET Bluegrass 625 Liberty Avenue, Suite 1700 Pittsburgh, PA 15222

Robert E Tonkery 33 Tonkery Dr Fairmont WV 26554

Paul Able Trustee et al PO Box 54 New Martinsville WV 26155

William J & Beverly L Barr 1044 Barr Road Smithfield WV 26437

Donald & Diana White 5017 Husky Hwy Mannington WV 26582

Beverly Hickman 132 Joes Run Rd Morgantown WV 26508 Paul Glover 15861 Rt 301 LaGrange OH 44050

Raymond Teagarden 718 Evans Run Rd Mannington WV 26582

David A Floyd & Diane E Floyd 12 Emily Ct Fairmont WV 26554

Keith & Rita Powell 3898 Buffalo Brink Rd Mannington WV 26582



Office of Oil and Gas

SEP 1 3 2017

Surface Owners: AST

Coastal Forest Resources Co
DBA Coastal Timberlands Co
PO Box 709
Buckhannon WV 26201

ET Bluegrass 625 Liberty Avenue, Suite 1700 Pittsburgh, PA 15222

> RECEIVED Office of Oil and Gas

SEP 1 3 2017

WV Department of Environmental Protection

12/15/2017

WW-6A4W (1/12)

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

WAIVER

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

State:	wv	LITA NA D 02	Easting:	541,533.96	
County:	Wetzel	UTM NAD 83	Northing:	4,379,874.97	
District: Quadrangle:	Grant Big Run	Public Road Acc		RT 250 Coastal Forest Resources Co. dba Coastal Timberlands	
		Generally used to	farm name:		
Watershed:	Wiley Fork			This enails Co	
			/	1	
Name: ET Blue	grass	Signature:	11	2/2	
Address: 625 L	liberty Avenue, Suite 1700		1		
Pittsburgh, PA 15	222	Date:	8-	3/1-17	

Oil and Gas Privacy Notice:

Surface Owner Waiver:

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.

Office of Oil and Gas

SEP 1 3 2017

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

Date of Noti		ermit Application Filed:	date of permit	
Delivery met	thod pursuant to West Virginia (Code § 22-6A-16(c)	1 1 - 1	
	FIED MAIL RN RECEIPT REQUESTED	☐ HAND DELIVERY		
return receipt the planned of required to be drilling of a damages to th (d) The notice of notice.	requested or hand delivery, give to operation. The notice required by exprovided by subsection (b), section thorizontal well; and (3) A propose we surface affected by oil and gas of the section shall be	the surface owner whose land y this subsection shall inclu- tion ten of this article to a surf- ted surface use and compens operations to the extent the da- e given to the surface owner a	will be used for the: (1) A copy the cowner whose ation agreement mages are com	ication, an operator shall, by certified mail or the drilling of a horizontal well notice of of this code section; (2) The information se land will be used in conjunction with the nt containing an offer of compensation for opensable under article six-b of this chapter, sted in the records of the sheriff at the time
	eby provided to the SURFACE On a listed in the records of the sherift			
the mic addics	a nated in the records of the ancient			
Mana		Name:		
Name: Address: Notice is here Pursuant to Wooperation on	eby given:	Address	:	well operator has developed a planned act of land as follows:
Name: Address: Notice is here Pursuant to Woperation on State: County: District:	eby given: /est Virginia Code § 22-6A-16(c), the surface owner's land for the puwwwww.wetzel Grant	Address notice is hereby given that th urpose of drilling a horizonta UTM NAD 8	e undersigned well on the tra Easting: Northing:	well operator has developed a planned act of land as follows: 541,533.96 4,379,874.97 RT 250
Name: Address: Notice is here Pursuant to W	eby given: Vest Virginia Code § 22-6A-16(c), the surface owner's land for the pure of th	Address notice is hereby given that th urpose of drilling a horizonta UTM NAD 8	e undersigned well on the tra Easting: Northing:	well operator has developed a planned act of land as follows: 541,533.96 4,379,874.97
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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.

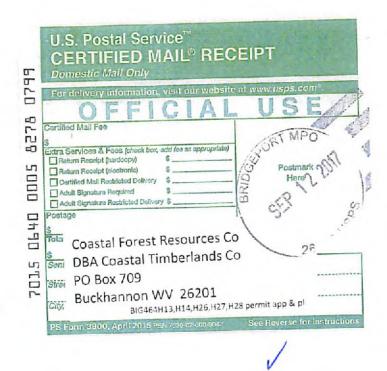
RECEIVED Office of Oil and Gas

SEP 1 3 2017

Surface Owners:

Coastal Forest Resources Co DBA Coastal Timberlands Co PO Box 709 Buckhannon WV 26201

ET Bluegrass 625 Liberty Avenue, Suite 1700 Pittsburgh, PA 15222



RECEIVED Office of Oil and Gas

SEP 1 3 2017

Surface Owners: Access Road

Coastal Forest Resources Co DBA Coastal Timberlands Co PO Box 709 Buckhannon WV 26201

Rich Rager 4620 Simpson Road Grafton WV 26354

Timothy E Titus 7335 Willey Fork Rd Burton WV 26562

Higgins Family Trust 531 Franklin Trace Washington PA 15301

ET Bluegrass 625 Liberty Avenue, Suite 1700 Pittsburgh, PA 15222

Robert E Tonkery 33 Tonkery Dr Fairmont WV 26554

Paul Able Trustee et al PO Box 54 New Martinsville WV 26155

William J & Beverly L Barr 1044 Barr Road Smithfield WV 26437

Donald & Diana White 5017 Husky Hwy Mannington WV 26582

Beverly Hickman 132 Joes Run Rd Morgantown WV 26508 Paul Glover 15861 Rt 301 LaGrange OH 44050

Raymond Teagarden 718 Evans Run Rd Mannington WV 26582

David A Floyd & Diane E Floyd 12 Emily Ct Fairmont WV 26554

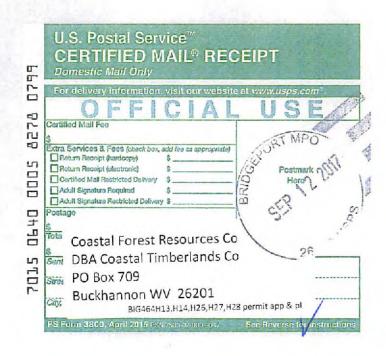
Keith & Rita Powell 3898 Buffalo Brink Rd Mannington WV 26582



Surface Owners: AST

Coastal Forest Resources Co DBA Coastal Timberlands Co PO Box 709 Buckhannon WV 26201

ET Bluegrass 625 Liberty Avenue, Suite 1700 Pittsburgh, PA 15222



Office of Oil and Gas
SEP 1 3 2017

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

Thomas J. Smith, P. E. Secretary of Transportation/ Commissioner of Highways

Revised September 6, 2017

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

Subject: DOH Permit for the BIG 464 Pad Site, Marion County

	BIG464H1	BIG464H2	BIG464H3	BIG464H4	BIG464H5	BIG464H6
	BIG464H7	BIG464H8	BIG464H9	BIG464H10	BIG464H11	BIG464H12
47-103-03211	BIG464H13	BIG464H14	BIG464H15	BIG464H16	BIG464H17	BIG464H18
	BIG464H19	BIG464H20	BIG464H21	BIG464H22	BIG464H23	BIG464H24
	BIG464H26	BIG464H27	BIG464H28			

Dear Mr. Martin,

Jim Justice

Governor

This well site will be accessed from Permit # 04-2014-0722 transferred to EQT Production Company and the haul route revised for access to the State Road. The well site is located off of Marion County Route 1 SLS.

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

Very Truly Yours,

Gary K. Clayton, P.E.

Regional Maintenance Engineer Central Office O&G Coordinator

Cc: Nick Bumgardner

EQT Production Company

CH, OM, D-4, File

SEP 1 3 2017

WV Department of Environmental Protection

12/15/2017

Anticipated Frac Additives Chemical Names and CAS numbers 7 1 0 3 0 3 2 1 1

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

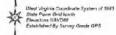
DMH 6-14-17

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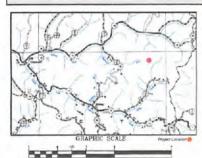
SEP 1 9 2017

BIG 464 WELL PAD FINAL SITE DESIGN

FINAL SITE DESIGN, CONSTRUCTION PLANS, & EROSION & SEDIMENT CONTROL PLANS



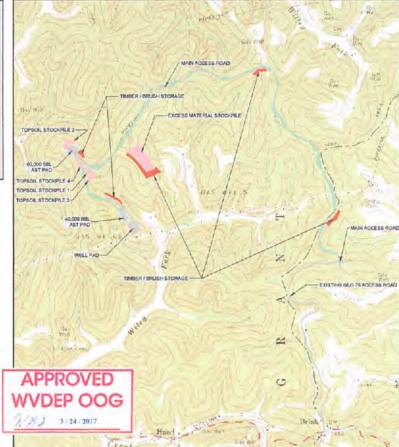




	Deta . 1 MITE		
FLOODPLAI	N CON	DITIONS	3
DO SITE CONSTRUCTON ACTIVITIE	S TAKE PLACE I	N FLOODPLAIN:	NO
PERMIT NEEDED FROM COUNTY F	LOODPLAIN COO	RDINATOR:	NO
HEC-RAS STUDY COMPLETED			NO
FLOODPLAIN SHOWN ON DRAWING	18:		NO.
FIRM MAP NUMBER(S) FOR SITE:	54049000650	D - 54103C0250C + 5	4103002250
ACREAGES OF CONSTRUCTION IN	FLDOOPLAIN	NA	

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





WELL LOCATION RESTRICTIONS Ved Pad complies with the Well Location Restrictions of WV

200' from edge of disturbance to naturally reproducing inou

-80.31502 Evisting GLO 75 Access Fload 24 548249

Design Certification The drawings, construction notes, and reference diagrams attached hereto have been prepared in accordance with the West Virginia Gods of State Rules, Chissian of Emironmental Protection, Office of

The Information reflects a 40,000 B&L Above Ground Storage Tank (AST) Fled with secondary confainment and a 50,000 B&L Above Ground Storage Tank Pad BIG 484 H24- LAT 39.567597 / LONG: -80.516522

Hornor Brothers Engineers make no certifications relating to the design, construction or materials associated with the Above Ground Storage Tank (AST).

FAN ADDRESS STREET, AND ADDRESS. Triggeripheron visit APRIL

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Engineers rivonmental and Engineering

P.O. B

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CHEET INDEV

SHEET INDEX	
COVER SHEET / LOCATION MAP	1
EXISTING CONDITIONS PLAN	2-3
SCHEDULE OF QUANTITIES & UTILITY INFORMATION.	. 4
CONSTRUCTION, GENERAL AND ESS NOTES	5
OVERVIEW PLAN	. 6-7
EXISTING GLO 78 ACCESS ROAD	8-13
FINAL SITE DESIGN PLANS	14-23
WELL PAD PROFILES & SECTIONS	30-34
60,000 BBL AST PAD PROFILES & SECTIONS	35-36
40,000 BBL AST PAD PROFILES & SECTIONS	37-38
EXISTING GLO 75 ACCESS PROFILE & SECTIONS	39-50
MAIN ACCESS ROAD PROFILE & SECTIONS	51-58
60,000 BBL AST ACCESS ROAD PROFILE & SECTIONS	89
40 000 BBL ASTACCESS ROAD PROFILE & SECTIONS	90
STOCKPILES PROFILES & SECTIONS	91-98
CONSTRUCTION DETAILS	29-101
RECTAMATION PLANS	100.112

WELL LEGEND

BIG 454 H15- LAT 39.567938 / LONG: -80.516819 BIG 484 H15- LAT 39.567915 / LONG: +80.516799 EIG 454 H14- LAT: 39.567893 / LONG: -80.516780 BIG 454 H13- LAT: 39.567870 / LONG: -80.516760 BIG 484 H12- LAT: 39.567847 / LONG: -80.516740 RIG 484 H11- LAT: 39 567824 / LONG: -80 516720 BIG 464 H10- LAT- 39.567802 / LONG: -80.516700 BIG 484 H9- LAT 39.567779 / LONG: -80.516680 BIG 454 HB- LAT 39.567756 / LONG: -80.516660 BIG 484 HT+ LAT 39.567733 / LONG: +80.516641 BIG 454 H6+ LAT-39 567710 / LONG: -80 516621 BIG 484 H5+ LAT: 39.567688 / LONG: -80.516601 BIG 464 H4- LAT 39.567665 / LONG: -80.516581 BIG 464 H3- LAT: 39.567642 / LONG: -80.516561 BIG 464 HZ- LAT- 39.567619 / LONG: +80.516541

Fred Grey - EQT Production Compa 304848-0085 Off

Surveyes & Fregioner Bun Sirginton - PS -Alleghany Surveys Inc. 304-649-8505 Off

Tom Corellers - PE. PS -Hortor Brothers Engineers 304-624-6445 Octor

DATE	REVISIONS
12 fd 2016	WELL AS HEAPER BUT
12.19.7016	L'PUATE PROPERTY OWNER
12/06/2017	WIGOVED PAO EN CRANCE / ALGED NEW WELL LAYOUT (UPLG) ED RESPECTS LINES. REVISED ENCESS STOCKFULE & TOPSOIL, STOCKFULE I CYS AUPATED WELL COOKES
02 19 2017	ADDED NOTE ABOUT SECONDARY CONTAINMENT ON 44,000 BIG. AST / ADDED ASSESSMENT DETAIL.
67 14 2017	PREVIOUS SINGLE WELL LANGE TO

Date: 12/07/2016 Scale N.A requel by TDC SSS TRAINS

PREPARED FOR EQT PRODUCTED COMPANY

WELL PAD SITE
NOT DISTRICT WETZEL COINTY, IN
WORDN DISTRICT WATCH.

