

# 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 BIG464H26

47-103-03213-00-00

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: BIG464H26

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

U.S. WELL NUMBER: 47-103-03213-00-00

Horizontal 6A / New Drill

Date Issued: 12/12/2017

Promoting a healthy environment.

API Number: 103-03213

# **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: 103-03213

# **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.

# 4710303213

API NO. 47-103 - 033-13
OPERATOR WELL NO. BIG464H26
Well Pad Name: BIG464

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

1) Well Operator: EQT Produc	ction Company	306686	Wetzel	Grant	Big Run
		Operator ID	County	District	Quadrangle
2) Operator's Well Number: BIC	G464H26	Well Pa	d Name: BIG	6464	
	Coastal Forest Resources C DBA Coastal Timberlands C		ad Access: R	T 250	
4) Elevation, current ground:	1305' El	evation, proposed	l post-construc	ction: 1246'	
5) Well Type (a) Gas X	Oil _		lerground Stor		
Other					
1,000	llow X	Deep			
	izontal X				DAH 9-14-17
6) Existing Pad: Yes or No No			_		9-14-17
<ol> <li>Proposed Target Formation(s) Marcellus, 7419', 51', 2620 PSI</li> </ol>		ipated Thickness	and Expected	Pressure(s):	, , , , , , , , , , , , , , , , , , , ,
A. A				-	
8) Proposed Total Vertical Depth	4/4				
9) Formation at Total Vertical D	The state of the s				
10) Proposed Total Measured De	epth: 12490				RECEIVED Gas
11) Proposed Horizontal Leg Lei	ngth: 4548			Offi	RECEIVED Gas
12) Approximate Fresh Water St	rata Depths:	109,184,432			SEP 19 2017
13) Method to Determine Fresh	Water Depths: F	rom offset wells			W Departmental Protection
14) Approximate Saltwater Dept	hs: 1724,1848			E	Willow
15) Approximate Coal Seam Dep	oths: 556,795,89	97,912			
16) Approximate Depth to Possib	ole Void (coal mi	ne, karst, other):	None reporte	ed	
17) Does Proposed well location directly overlying or adjacent to		ns Yes	N	10 x	**
(a) If Yes, provide Mine Info:	Name:				
	Depth:				
	Seam:				
	Owner:				

API NO. 47-103 - 03213

OPERATOR WELL NO. BIG464H26
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							
Intermediate	9 5/8	New	A-500	40	2841	2841	1108 ft^3 / CTS
Production	5 1/2	New	P-110	20	12490	12490	500' above top producing zone
Tubing	2 3/8		J-55	4.7		May not be run, if run set 40' above top perf or 80° inclination.	
Liners						above top perf of so inclination	

1707 H

TYPE	Size (in)	Wellbore Diameter (in)	Wall Thickness (in)	Burst Pressure (psi)	Anticipated Max. Internal Pressure (psi)	Cement Type	Cement Yield (cu. ft./k)
Conductor	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			ECEIVED GAS
Liners						Office	ECEIVED Gas

WV Department of Environmental Protection

# **PACKERS**

Kind:	
Sizes:	
Depths Set:	

# 47 10 3 0 3 2 1 3 API NO. 47- 103

OPERATOR WELL NO. BIG4B4H26 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 5908'. Kick off and drill curve. Drill the lateral in the Marcellus. Cement casing.

MM17 6-14-17

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

Hydraulic fracturing is completed in accordance with state regulations using water recycled from previously fractured wells and obtained from freshwater sources. This water is mixed with sand and a small percentage (less than 0.3%) of chemicals (including 15% Hydrochloric acid, 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): 125.43
- 22) Area to be disturbed for well pad only, less access road (acres): 7.42
- 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

Office of Oil and Gas

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 slurries.

WV Department of Environmental Protection Lead (Class A Cement): 0.2% CD-20 (dispersant makes cement easier to mbx). .15% SuperFL-300 (fluid loss/lengthens thickening time) .15% SEC-10 (fluid loss) 50:50 POZ (extender) Tail (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 % Calcum 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

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.

CVI

Well EQT Production Big Run Quad Wetzel County, WV Well BIG464H26

157 Vertical Section

Note: Diagram is not to scale

ì	roto: Diagram to mar to saute	Top Base	
	Formations	TVD TVD	
	Conductor	40	
	Base Red Rock	132	
	Base Fresh Water	432	
	Surface Casing	1019	
	Maxton	1812 - 1991	
	Big Lime	2254 - 2330	
	Big Injun	2342 - 2411	
	Weir	2540 - 2690	
	Gantz	2755 - 2791	
	Intermediate Casing	2841	
	Fifty foot	2896 - 2952	
	Thirty foot	2991 - 3018	
	Gordon	3047 - 3092	
	Forth Sand	3117 - 3130	
	Bayard	3242 - 3260	
	Warren	3665 - 3689	
	Speechley	3785 - 3833	
	Balltown A	4143 - 4158	
	Riley	4628 - 4670	
	Benson	5257 - 5306	
	Alexander	5671 - 5738	
	Sonyea	6937 - 7100	
	Middlesex	7100 - 7156	
	Genesee	7156 - 7243	
	Geneseo	7243 - 7275	
	Tully	7275 - 7300	
	Hamilton	7300 - 7398	
	Marcellus	7398 - 7449	
	Production Casing	12490 MD	
	Onondaga	7449	

Casing and Cementing			Deepest Fresh Wa	ter: 432'
Туре	Conductor	Surface	Intermediate	Production
Hole Size, In.	30	17 1/2	12 3/8	8 1/2
Casing Size, OD In.	26	13 3/8	9 5/8	5 1/2
Casing Wall Thickness, In.	0.312	0.380	0.395	0,361
Depth, MD	40'	1,019'	2,841'	12,490'
Weight	85.6#	54.5#	40#	20#
Grade	A-500	J-55	A-500	P-110
New or Used	New	New	New	New
Burst (psi)	1378	2,700	3,950	12,640
Cement Class	Α	A/Type 1	A/Type 1	A/H
Cement Yield	1.18	1,19	1.19	1.123 / 2.098
Top of Cement (Planned)	Surface	Surface	Surface	500' above top Producing Zone
Method	Displacement	Displacement	Displacement	Displacement
Est. Volume (cu ft)	49	952	1,108	2,531
Possible Additives	N/A	Calcium Chloride	Calcium Chloride	Calcium Carbonate, Fluid Loss, Extender, Dispersent, Viscosifier, Defoamer, POZ, Bonding Agent, Retarder, Anti-Settling/Suspension Agent

Land curve @ 7,419' TVD 7,942' MD

KOP@

5,908

Est. TD @

7,419

TVD

12,490' MD

Proposed Well Work:

Drill and complete a new horizontal well in the Marcellus formation. Drill the vertical to an approximate depth of 5908'.

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

4,548' Lateral

# **EQT Production**

**Hydraulic Fracturing Monitoring Plan** 

Pad ID: BIG464

Wetzel County, WV

8/21/17



# **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.

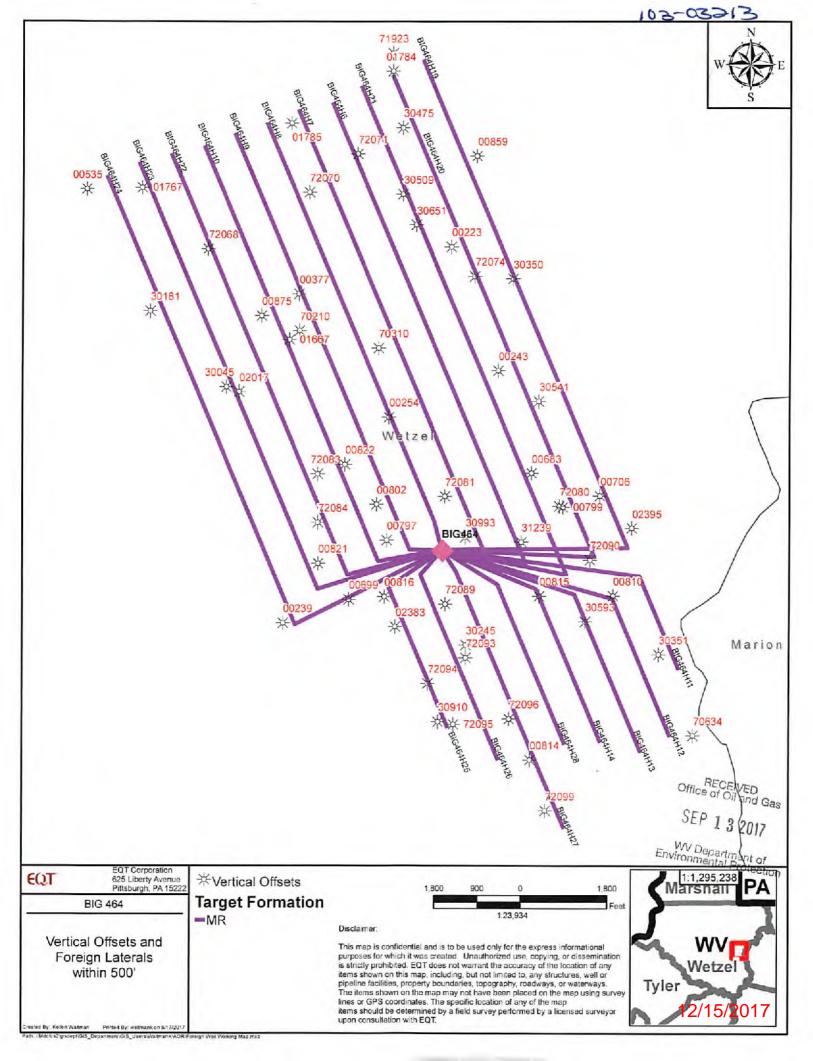
EQT will recommend to these operators at a minimum to:

- 1. Inspect their surface equipment prior to fracturing to establish integrity and establish pre-frac well conditions
- 2. 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.

Office of Oil and Gas
SEP 1 3 2017



•										
		Completion D Current Operator	Elevation Elevation Re	f Final Statu	ı: Lat	Long	Permit Date	SPUD Date	TD Formation	Total Depth Permit
47103002230000	8/19/2015	4/8/1939 EQT PRODUCTION COMPANY	1148 GR	ABD-GW	39.584421	-80.515215	2/22/1939	3/9/1939	BAYARD	3230 00223
47103300450000	2/5/1931	HOPE NATURAL GAS	GR	ABD-GW	39.576512	-80.531847			BIG INJUN /SD/	2146 30045
47103301810000	12/16/1935	9/29/1923 PITTSBURGH & W VA GAS	906 GR	ABD-GW	39.580866	-80.537468	5/29/1923	6/13/1923	HAMPSHIRE	2936 30181
47103302450000	8/12/1937	3/24/1903 CARNEGIE NATURAL GAS CORPORATION	1040 GR	ABD-GW	39.561853	-80.514238	6/25/1902	7/10/1902	HAMPSHIRE	2908 30245
47103303500000	1/17/1941	HOPE NATURAL GAS	1427 GR	ABD-GW	39.582608	-80.510678			POCONO	2573 30350
47103303510000	4/17/1941	12/16/1910 CARNEGIE NATURAL GAS CORPORATION	1620 GR	ABD-GW	39.561272	-80.5	10/11/1910	10/26/1910	HURON LOWER	3355 30351
47103304750000	2/8/1944	9/22/1916 PITTSBURGH & W VA GAS	1120 GR	ABD-GW	39.591194	-80.518768	5/3/1916	5/18/1916	HURON LOWER	3072 30475
47103305090000	11/22/1945	6/20/1928 DUNN-MAR OIL & GAS COMPANY	1182 GR	ABD-GW	39.587421	-80.518768	2/12/1928	2/27/1928	HAMPSHIRE	3102 30509
47103305930001	10/14/1947	6/16/1922 UNKNOWN	1527 GR	ABD-GW	39.563159	-80.505433	5/1/1922	5/16/1922	HAMPSHIRE	3438 30593
47103306510000	6/15/1948	8/14/1919 PITTSBURGH & W VA GAS	1401 GR	ABD-GW	39.585667	-80.517797			HAMPSHIRE	3297 30651
47103309100000	4/9/1951	9/13/1916 CARNEGIE NATURAL GAS CORPORATION	1250 GR	ABD-GW	39.557499	-80.516298		8/23/1916		1848 30910
47103309930000	9/21/1953	7/19/1911 CARNEGIE NATURAL GAS CORPORATION	1131 GR	ABD-GW	39.567949	-80.514238		5/18/1911		3004 30993
47103002430000		11/1/1940 HOPE NATURAL GAS	1272 GR	D&A	39.577383	-80.511802			CONEMAUGH /SERIES/	1018 00243
47103003770000		7/1/1952 ANJA RESOURCES	GR	D&A	39.581796	-80.526452	6/5/1952			3197 00377
47103017840001		6/1/2000 DAC ENERGY LLC	937 GR	D&AW	39.594383	-80.519486	5/12/2000		DEVONIAN	3307 01784
47103008220000		8/30/1929 EPC		GAS	-80.5231	39.5721	-,,	-,,		-1954 00822
47103002390001		9/19/1940 EQT PRODUCTION COMPANY	1410 GR	GAS	39.563159		8/4/1940	8/19/1940	HAMPSHIRE	3426 00239
47103002540000		9/1/1941 EQT PRODUCTION COMPANY	1464 GR	GAS		-80.519858		• • •	FIFTH SAND	3449 00254
47103006990001		8/9/1922 EQT PRODUCTION COMPANY	0 GR	GAS	39.564465				HAMPSHIRE	3154 00699
47103007060000		8/7/1917 ROSS & WHARTON	979 GR	GAS		-80.504309			HAMPSHIRE	3086 00706
47103007990000		1/1/1981 EQT PRODUCTION COMPANY	1090 GR	GAS	39.569634				FOURTH SAND	3086 00799
47103017670000		11/12/1998 ALLIANCE PETROLEUM CORPORATION	868 GR	GAS	39.587852				DEVONIAN /SD/	3264 01767
47103017850000		8/13/1999 ALLIANCE PETROLEUM CORPORATION	1186 GR	GAS	39.591481		6/29/1999		DEVONIAN /SD/	3554 01785
47103023830000		9/30/2008 ALLIANCE PETROLEUM CORPORATION	1453 GR	GAS		-80.519436			FOURTH SAND	3403 02383
47103023950000		11/25/2008 ALLIANCE PETROLEUM CORPORATION	1064 GR	GAS	39.568424		8/27/2008			3262 02395
47103020170000		4/29/2004 DYNATEC ENERGY INCORPORATED	948 GR	GAS-CB	39.576229				PITTSBURGH COAL	711 02017
47103706340000		• • • • • • • • • • • • • • • • • • • •		LOC	-80.4975	39.5567	11,50,2005	12/10/2003	FII I SOUNGII COAL	70634
47103006830000	9/12/1986	CONSOLIDATED GAS SUPPLY CORPORATION	GR	PSEUDO		-80.509367				00683
47103007970000	.,,	EQT PRODUCTION COMPANY	GR	PSEUDO		-80.520045				00797
47103008020000		EQUITABLE PRODUCTION COMPANY	GR	PSEUDO		-80.520794				
47103008100000		EQT PRODUCTION COMPANY	GR	PSEUDO		-80.503372				00802
47103008140000		EQUITABLE PRODUCTION COMPANY	GR	PSEUDO		-80.509554				00810
47103008150000		EQT PRODUCTION COMPANY	GR	PSEUDO		-80.508805				00814
47103008160000		EQT PRODUCTION COMPANY	GR	PSEUDO		-80.520232				00815
47103008210000	11/7/2007	CARNEGIE NATURAL GAS CORPORATION	GR	PSEUDO		-80.525103				00816
47103008590000	5/11/1997	PHILADELPHIA OIL	GR	PSEUDO		-80.513301				00821
47103008750000	-,,	EQT PRODUCTION COMPANY	GR	PSEUDO		-80.529225				00859
47103016670000		ANJA RESOURCES	1066 GR	PSEUDO		-80.527179				00875
47103702100000		HOPE NATURAL GAS	GR	PSEUDO		-80.527179 -80.526415				01667
47103005350000		1/2/1963 EPC	1008	STORAGE	-80.5421	39.5878				70210
47103305410000	1/1/1946	UNKNOWN	GR	UNKWN	39.575641					00535
47103312390000	1/5/1973	3/23/1911 CONSOLIDATED GAS SUPPLY CORPORATION	GR	UNKWN			2/5/2011	2/24/4044		30541
47103703100000	2,5,25.5	7/6/1900 HOPE NATURAL GAS	GR			-80.510116		2/21/1911		31239
47103719230000		UNKNOWN	GR	UNKWN		-80.520607	5/22/1900	6/6/1900		70310
47103720680000		UNKNOWN		UNKWN		-80.519483				71923
47103720700000		HOPE NATURAL GAS	GR GR	UNKWN		-80.533159				72068
47103720710000		UNKNOWN		UNKWN		-80.525665				72070
47103720740000	-	UNKNOWN	GR	UNKWN		-80.522106				72071
47103720800000	"≒		GR	UNKWN		-80.513488				72074
47103720810000	₹	O HODE NATURAL CAS	GR	UNKWN		-80.507306				72080
47103720830000	۶	T S HINKNOWN	GR	UNKWN		-80.515736				72081
47103720830000	ສຸດ	THORE MATURAL GAS	GR	UNKWN		-80.525103				72083
47103720040000	곮	- Q MIOTE NATURAL GAS	GR	UNKWN	39.568819	-80.525103				72084
	72	မေ ⊇ို့ကိ								
	W/Department of Environmental Protection	CARNEGIE NATURAL GAS CORPORATION HOPE NATURAL GAS UNKNOWN HOPE NATURAL GAS OFFI  A GOOD  A GOO								
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47103720890000	UNKNOWN	GR	UNKWN 39.564175 -80.515736	72089
47103720900000	HOPE NATURAL GAS	GR	UNKWN 39.566642 -80.505058	72090
47103720930000	UNKNOWN	GR	UNKWN 39.561127 -80.514238	72093
47103720940000	HOPE NATURAL GAS	GR	UNKWN 39.559676 -80.517048	72094
47103720950000	UNKNOWN	GR	UNKWN 39.557353 -80.515174	72095
47103720960000	UNKNOWN	GR	UNKWN 39.557644 -80.511053	72096
47103720990000	UNKNOWN	GR	UNKWN 39.552419 -80.50843	72099

WV Department of Environmental Protection Office of Oil and Gas

WellID	WellStatus	date	Operator	Longitude	Latitude	TargetFm	DatumElev 1	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

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SEP 1 3 2017

WV Department of Environmental Protection



west virginia department of environmental protection

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

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

March 18, 2014

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

Re: Cement Variance Request

Dear Sir or Madam,

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

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

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

June 1

Environmental Resources Specialist / Permitting

Promoting a healthy environment.

RECEIVED Office of Oil and Gas

SEP 1 3 2017



# west virginia department of environmental protection

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

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

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

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

# REPORT OF THE OFFICE

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

## FINDINGS OF FACT

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

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# CONCLUSIONS OF LAW

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

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

### ORDER

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

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

IN THE NAME OF THE STATE OF WEST VIRGINIA

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

James Martin, Chief Office of Oil and Gas

> RECEIVED Office of Oil and Gas

> > SEP 1 3 2017



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.

Sincerely,

Vicki Roark

Permitting Supervisor

Enc.

DMH 9-14-17

Office of Oil and Gas
Office of Oil and Gas

SEP 19 2017

WV Department of Environmental Protection

# 4710303213

API Number 47 -	103	-
Operator's	Well No.	. BIG464H26

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

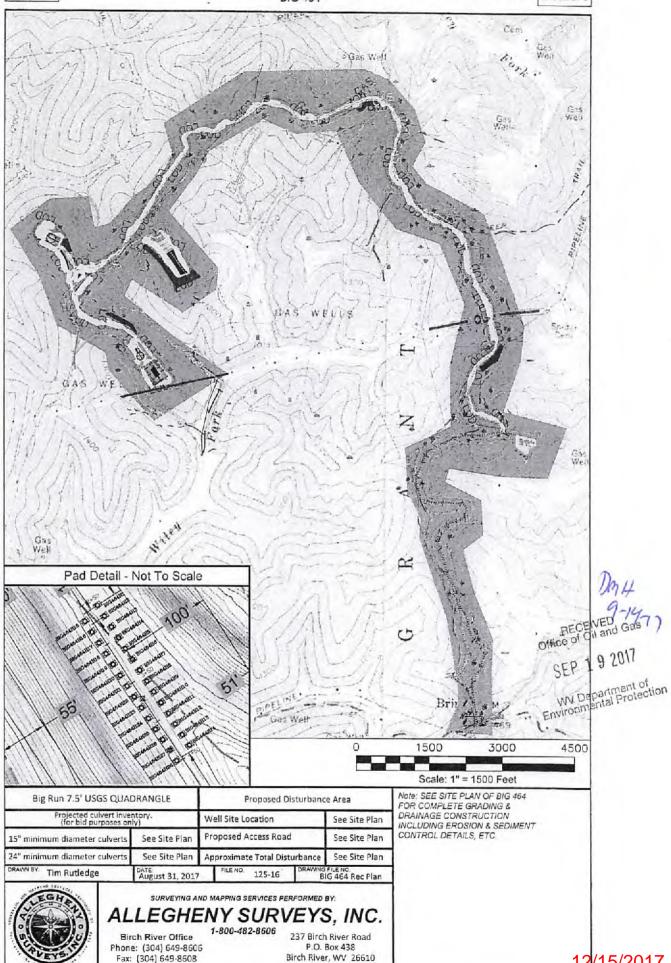
# FLUIDS/ CUTTINGS DISPOSAL & RECLAMATION PLAN

FLOIDS/ COTTINGS DIS	POSAL & 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 com	plete the proposed well work? Yes No	
Will a pit be used? Yes 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 Perm	nit Number0014, 8462, 4037	
Reuse (at API Number <u>various</u> Off Site Disposal (Supply form W	W-9 for disposal location)	
		٠١٦
	d loop system will remove drill cuttings from the drilling fluid. The drill cuttings are then	<i>' ]</i>
Drilling medium anticipated for this well (vertical and horizon	atal)? Air, freshwater, oil based, etc. See Attached	
-If oil based, what type? Synthetic, petroleum, etc. \$	Synthetic Mud	
Additives to be used in drilling medium? See Attached	RECEIVED Gas	
Drill cuttings disposal method? Leave in pit, landfill, removed	d offsite, etc. Landfill SEP 1 9 2017	
-If left in pit and plan to solidify what medium will be	e used? (cement lime sawdust) N/A	f
-Landfill or offsite name/permit number? See Attache	N Depart Protection	tion
Permittee shall provide written notice to the Office of Oil and West Virginia solid waste facility. The notice shall be provide where it was properly disposed.	Gas of any load of drill cuttings or associated waste rejected at any d within 24 hours of rejection and the permittee shall also disclose	
on August 1, 2005, by the Office of Oil and Gas of the West V provisions of the permit are enforceable by law. Violations of law or regulation can lead to enforcement action.  I certify under penalty of law that I have personall application form and all attachments thereto and that, base	conditions of the GENERAL WATER POLLUTION PERMIT issued Virginia Department of Environmental Protection. I understand that the of any term or condition of the general permit and/or other applicable by examined and am familiar with the information submitted on this ed on my inquiry of those individuals immediately responsible for true, accurate, and complete. I am aware that there are significant bility of fine or imprisonment.	
Company Official Signature		
Company Official (Typed Name) Victoria J. Roark		
Company Official Title Permitting Supervisor		
Subscribed and swom before me this 8th day of	Nerfenber, 20 17	
Mistre S. Churtie	OFFICIAL SEAL STATE OF WIRIGINIA	
My commission expires 2/20/18	NOTARY PUBLIC NOTARY PUBLIC Misty S Christie 1207 Briercliff Rd Bridgeport, WV 26330 Wy Commission Expires February 20, 2018	7

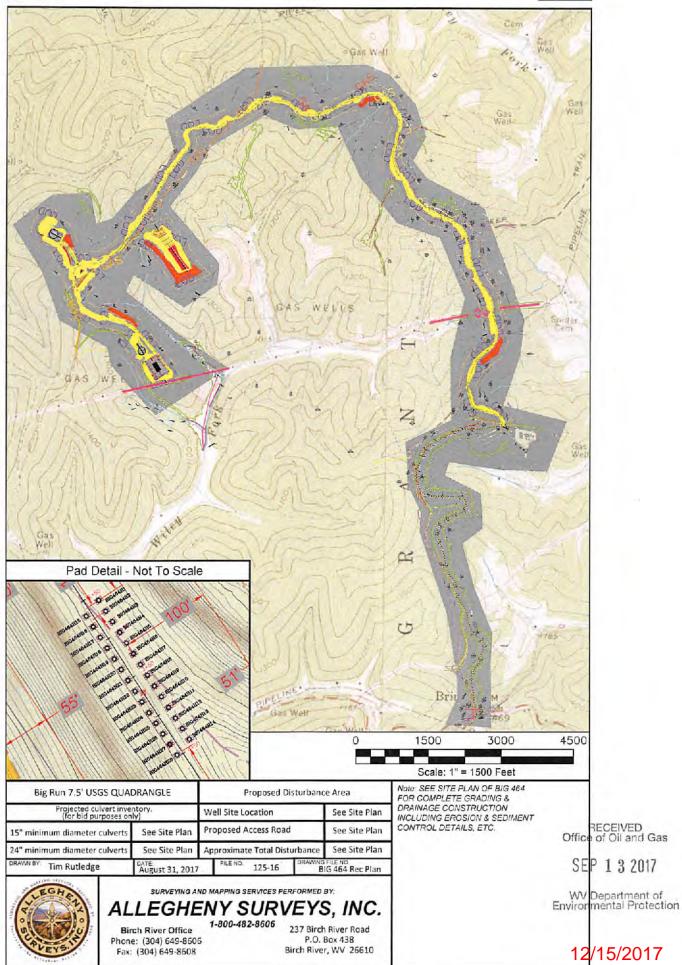
Operator's Well No. BIG464H26

	atment: Acres Disturbed	120.45 Prevegetation pF	I
Lime 3	Tons/acre or to corre	ect to pH 6.5	
Fertilizer type Gr	anular 10-20-20		
Fertilizer amount_	1/3	lbs/acre	
Mulch_2		Tons/acre	
		Seed Mixtures	
	emporary	Perma	nent
Seed Type KY-31	lbs/acre 40	Seed Type Orchard Grass	lbs/acre 15
Alsike Clover	5	Alsike Clover	5
Annual Rye	15		
Attach: Maps(s) of road, location, porovided). If water from the acreage, of the land applicate the process of the land applicate the la	e pit will be land applied, in tion area.	and application (unless engineered plans included limensions (L $\times$ W $\times$ D) of the pit, and the contract the contract that the contract is the contract that the contrac	dimensions (L x W), an
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Maps(s) of road, location, porovided). If water from the acreage, of the land applicate Photocopied section of involved Plan Approved by:	e pit will be land applied, in tion area.	t.	dimensions (L x W), an

PAGE 1 OF 1









# Site Specific Safety Plan

# EQT BIG 464 Pad Mannington Wetzel County, WV

	For Wells:		
EQT Production  Legional Dad Syst  Title  98-17  Date	Date Prepared:	400000000000000000000000000000000000000	RECEIVED Office of Oil and Gas SEP 19 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**

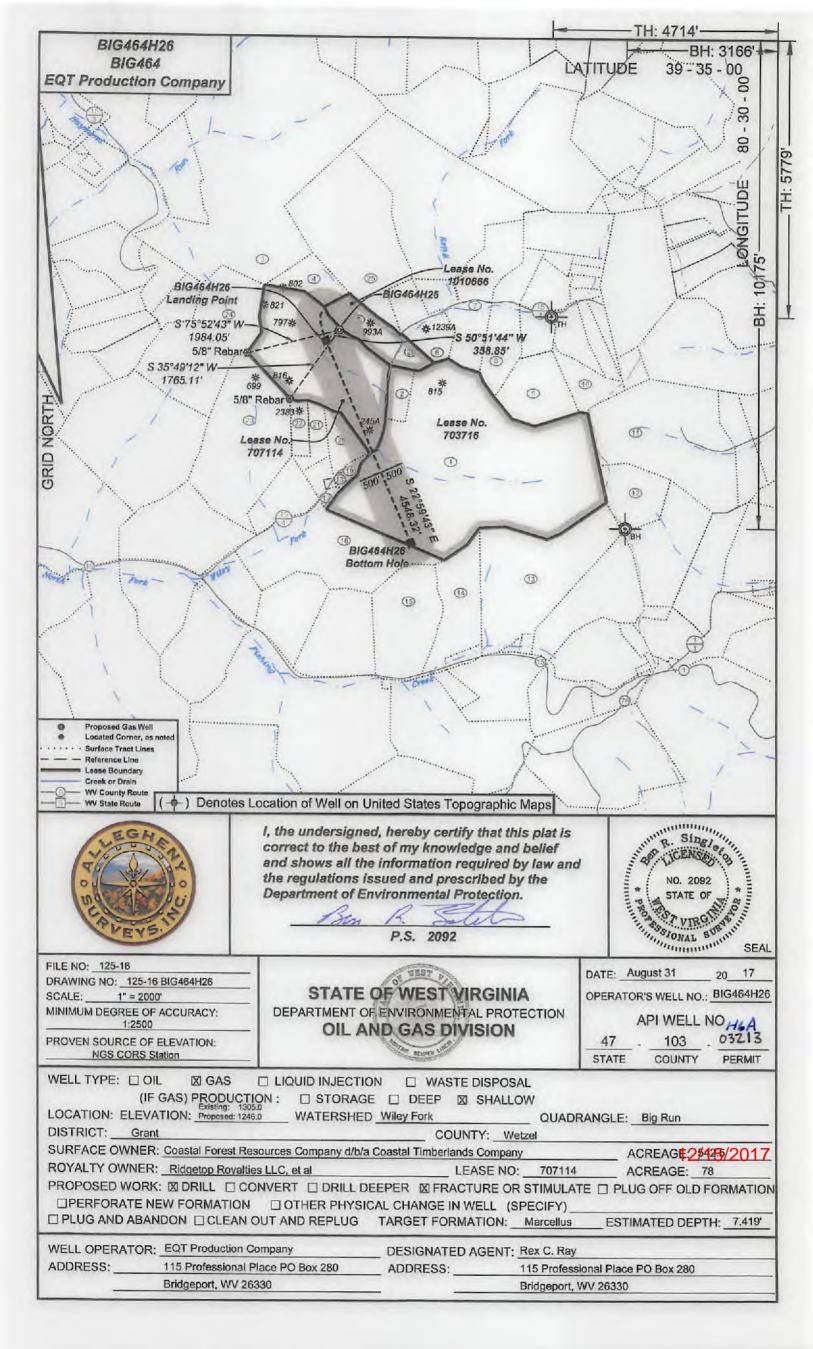
P.O. Box 430
Reno, OH 45773
740-516-6021 Well
740-374-2940 Reno Office Jennifer
Nobel County/Jackson Township
Permit # 4037

# KING EXCAVATING CO.

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

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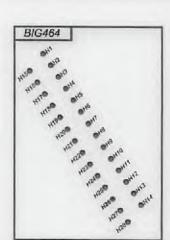
SEP 1 3 2017



# BIG464H26 **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: BIG464H26 coordinates are NAD 27 N: 390,416.46 E: 1,713,377.16 NAD 27 Lat: 39.567468 Long: -80.516727 NAD 83 UTM N: 4,379,873.12 E: 541,527.47 BIG484H26 Landing Point coordinates are NAD 27 N: 390,189,96 E: 1,713,098.82 NAD 27 N: 390,189,96 E: 1,713,098,82 NAD 27 Lat: 39,566838 Long: -80,517705 NAD 83 UTM N: 4,379,802,70 E: 541,443,82 BIG464H26 Bottom Hole coordinates are NAD 27 N: 386,003.06 E: 1,714,875,65 NAD 27 Lat: 39,555398 Long: -80,511236 NAD 83 UTM N: 4,378,536,15 E: 542,006,39 Virgina Coordinate success of 107,7 (Next) 750,0 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



Lease No. 703716 1010666

Owner Ridgetop Royalties LLC, et al Ridgetop Royalties LLC, et al

\*802 1239A Ø— BIG454H26 816 8154 2383 茶

Well References AZ65°04'23" 252.63 @ 5/8" Rebar \$5/8" Rebar 1" = 500"



Proposed Gas Well Located Corner, as n

Surface Tract Lines Reference Line Lease Boundary

Creek or Drain WV County Route WV State 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.

> > te P.S. 2092



FILE NO: 125-16 DRAWING NO: 125-16 BIG464H26 SCALE: 1" = 2000'

Bridgeport, WV 26330

MINIMUM DEGREE OF ACCURACY: 1:2500 PROVEN SOURCE OF ELEVATION:

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

DATE:	August 31	20_	17
OPERA	TOR'S WELL NO .:	BIG	164H26

API WELL NO HEA 47 103 51580

115 Professional Place PO Box 280

Bridgeport, WV 26330

THEO OUT O Station	Tolera Million	STATE	COUNTY	PERMIT
WELL TYPE: ☐ OIL ☐ GAS ☐ LIQUID INJECTION: ☐ STORA				
(IF GAS) PRODUCTION: STORAL STORAGE STORAL STORAGE		DANGI E	Rig Pup	
DISTRICT: Grant	COUNTY: Wetzel	JANGLE.	big Kull	
SURFACE OWNER: Coastal Forest Resources Company d/	b/a Coastal Timberlands Company	-	ACREAGE: 25/4	25/2017
ROYALTY OWNER: Ridgetop Royalties LLC, et al	LEASE NO: 70711	4	ACREAGE: 78	F3/2017
PROPOSED WORK: ☑ DRILL ☐ CONVERT ☐ DRILL	DEEPER STRACTURE OR STIMUL	ATE   PL	UG OFF OLD F	ORMATION
□PERFORATE NEW FORMATION □ OTHER PHY	SICAL CHANGE IN WELL (SPECIFY)			
□ PLUG AND ABANDON □ CLEAN OUT AND REPLUG	TARGET FORMATION: Marcellus	EST	IMATED DEPT	H: _7,419'
WELL OPERATOR: EQT Production Company	DESIGNATED AGENT: Rex C. Ra	у		
ADDRESS: 115 Professional Place PO Box 280	ADDRESS: 115 Profes	sional Place	PO Box 280	

WW-6A	1
(5/13)	

Operator's Well No.	BIG464H26
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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:

Lease Name or	Country Lauren etc	Country I	Describes	D1 /D
Number	Grantor, Lessor, etc.	Grantee, Lessee, etc.	Royalty	Book/Page

see attached

# 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

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WV Department of Environmental Protection

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

WW-6A1 attachment

Operator's Well No.

BIG464H26

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, I	nc.	see attached mei
	Equitable Production - Eastern States, Inc.	Equitable Production Company		see attached mei
	Equitable Production Company	EQT Production Company		CB 281/347
	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 ass
	Carnegie Natural Gas Company	Carnegie Production Company		DB 78A/513
	Carnegie Production Company	Equitable Production - Eastern States, In	nc.	see attached mei
	Equitable Production - Eastern States, Inc.	Equitable Production Company		see attached mei
	Equitable Production Company	EQT Production Company		CB 281/347
1010666	Ridgetop Royalties LLC, et al.	EQT Production Company	**	DB 166A/638

<sup>\*\*</sup>Per West Virginia Code Section 22-6-8.

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SEP 1 3 2017

DEC 29 2002 2:81 PH FR E9T

412 550 7781 TO 92815212

P. 15

ARTICLES OF MERGER-DOMESTIC BUSINESS CORPORATION  accretions of the polynomiature with the requirements of 15 Pa.C.S. \$ 1926 (value of the polynomiature).  In compliance with the requirements of 15 Pa.C.S. \$ 1926 (value of the polynomiature) of the polynomiature of the polynomiatur						DEC 5 5 SOUR
ARTICLES OF MERGER-DOMESTIC BUSINESS CORPORATION  accritional suriness of the Commercial of 15 Pa.C.S. § 1926 feating to articles of merger are consolidation), the undestiges corporations, desting to effect a merger hereby state that:  In compliance with the requirements of 15 Pa.C.S. § 1926 feating to articles of merger are consolidation), the undestiges of the comparation surviving the merger is: EQUITABLE PRODUCTION - EASTERN STATES, INC.  The unividing corporation surviving the merger is: EQUITABLE PRODUCTION - EASTERN STATES, INC.  The unividing corporation is a domestic business corporation and the (a) piddress of its current registered affice in the unividing corporation in a domestic business corporation and the (a) piddress of its current registered affice in the unividing corporation of the country of the production of	icrafilm Number		4.1	Flied with the Dep	oriment of St	ate on
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# 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 Carnegie 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 marged 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 comoration 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.

EASTERN STATES, INC.

VP and Corporate Secretar

CARNEGIE PRODUCTION COMPANY

1

By: Hang ! Vent A

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WV Department of Environmental Protection

DEC-58-5000 T2:8T

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

315

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

Office of Oil and Gas

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WV Department of Environmental Protection

C T CORP SYSTEM COUNTER

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ntity Number 29 8037 Y		Ma	Dayport	nelli
		Secreto	ry of the Com	monwealth
ARTICLES O	OF MERGER-DOMESTIC DSC8:15-1924 (I		PORATION	10
In compliance with the requirements of usiness corporations, desiring to effect a second seco		; to articles of merge	er or consolida	fion), the undersigned
The <b>name</b> of the corporation surviving to	he merger is: Equitable Prod	uction Company	· · · · · · · · · · · · · · · · · · ·	
(Check and complete one of the follow * The surviving corporation is a dome Commonwealth or (b) name of its of Department is hereby authorized to	ostic business corporation are commercial registered offici	e provider and the a	ounty of venu	e is (the
(a) Number and Street	City	State	Zip	County
(b) c/o: CT Corporation System			À	ilegheny
Name of Commercial Re	gistered Office Provider			County
(a)	City	State	Zip	County
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(b) c/o: Name of Commercial Re	gistered Office Provider			County
For a corporation represented by a commerc corporation is located for venue and official	cial registered office provider. It	ne county in (b) shall be	e deemed the co	ounty in which the
The surviving corporation is a nonquand the address of its principal offic	udified foreign business cor	poration incorporati	ed under the lo	ows of
are me dadress of m principor one	to dilida ilia idina ai sami a	orradisca y juria archier	,	
Number and Street	City	State	Zlp	
. The name and the address of the regist provider and the county of venue of ea which is a party to the plan of merger of	ach other domestic busines are as follows;	s corporation and q	ualitied foreign	n business corporation
Name of Corporation Address	of Registered Office or Name o	t Commercial Registers	ed Office Provide	
Equitable Production Company	CT Corporation System			Allegheny Office Of Oil a
Equitable Production-Eastern	States, Inc. CT	Corporation S	ystem	Allegheny of Oil a
		-	•	SFP .
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PAG25 - 10/14/99 CT System Colline				SEP 1 3 2  WW Departmental Projection

2001 APR 30 PHIS: 26 212 F. 1027 W

200132 - 1298

DSCB:15-1926 (Rev 90)-2

The plan of merger shall be effective	nbou mind mese vucies of	Area Sci. it it is mobile			
X The plan of merger shall be effective	on: April 30, 2001	at	· · · · · · · · · · · · · · · · · · ·	Hour	
	54.4				
The manner in which the plan of merger v	was adopted by each dome	stic corporation is	as follows:		
	Manner of				
Name of Carporation		Adopted by Board of Directors pursuant to Sec. 1924 of the PA BCL			
Equitable Production Company	Adopted 2) =				
Strike out this paragraph it no foreign co approved, as the case may be, by the fo the plan in accordance with the laws of	rporation is a party to the ma preign business corporation ( the jurisdiction in which it is	erger). The plan wo or each of the fore incorporated.	as authorized Ilgn business	i, adopted or corporations) party to	
(Check, and if appropriate complete, on	e of the following):				
X The plan of merger is set farth in full in Pursuant to 15 Pa.C.S. § 1901 (relation	n Exhibit A attached hereta	and made a part l	vereof.		
a marking a second of the	percer is on file at the princip	di biaca ai samia	•	<del>-</del>	
hereof. The full fext of the planton address of which is:	titute the operative Articles of the plan are set forth nerger is on file at the principal City	State	Zlp	County	
hereof. The full fext of the platform address of which is:  Number and Street	City	State  ersigned corporati	Zip	County	
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PAGES - 10/14/99 CT System Online

# AGREEMENT AND PLAN OF MERGER

## BETWEEN

# EQUITABLE PRODUCTION - EASTERN STATES, INC.

## AND

# **EQUITABLE PRODUCTION COMPANY**

AGREEMENT AND PLAN OF MERGER, dated this 30<sup>th</sup> 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 and repealed as therein provided.

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(b) The directors and officers of the surviving corporation shall  $\varepsilon_n$  continue in office until the next annual meeting of the shareholders

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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 30<sup>th</sup> day of April 2001.

ATTEST:

Corporate Secretary

EQUITABLE PRODUCTION – EASTERN STATES, INC.

Bv:

President

ATTEST

Corporate/Secretary

EQUITABLE PRODUCTION COMPANY

Bv:

President

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12/15/2017

### COMMONWEALTH OF PENNSYLVANIA

### 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.

hegyerepellik

Secretary of the Commonwealth

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Office of Oil and Gas

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WV Department of Environmental Protectio

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, no hereby sell, transfer and set over to the Carnegie Natural Gas 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 Virginia, 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. F. Snoigrass; 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 Sncigrass; East by lands of Ney, Kendall and Allen; South by lands of Allen and Ott; West by lands 1714 of Allen and Clover, 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.

Witness:

(SEAL)

STATE OF WEST VIRGINIA

COUNTY OF Fleeganto

1, C B- Johnson

a Molan Rublic of said County, do certify that

historife, whose name of signed to the writing within, bearing date the 25" day of Johnson 1900 has this day acknowledged the same before be in my said County.

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

Office of Oil and Gas
SEP 13 2017

W. 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

Office of Oil and Gas

SEP 1 3 2017

WV Department of Environmental Protection

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

		NOTICE CERTIFICATION	
Data of Notic	ce Certification: 9/8/17	A.DI.N., 47, 102	. 03213
Date of Notic	ce Certification: 1/ 6 //	API No. 47- 103 Operator's Well N	- U3 & B
		Well Pad Name:	
Notice has l	heen given:	Wen I au Name.	210-10-1
		§ 22-6A, the Operator has provided the required p	arties with the Notice Forms listed
below for the	tract of land as follows:	5 22 or i, me operator has provided me required p	artes with the Fronce Forms fisted
State:	w	Easting: 541,527	.47
County:	Wetzel	UTM NAD 83 Pasting: 34,327 Northing: 4,379,83	3.12
District:	Grant	Public Road Access: Rte 250	
Quadrangle:	Big Run	Generally used farm name: Coastal F	crest Resources Co DBA Coastal Timberlands Co.
Watershed:	Wiley Fork		
information r of giving the requirements Virginia Codo of this article	equired by subsections (b) and (c), s surface owner notice of entry to s of subsection (b), section sixteen e § 22-6A-11(b), the applicant shall have been completed by the applica		nt was deemed satisfied as a result his article six-a; or (iii) the notice ace owner; and Pursuant to West notice requirements of section ten
	rator has properly served the requir	perator has attached proof to this Notice Certificated parties with the following:	ion
	ECK ALL THAT APPLY	ed parties with the following.	OOG OFFICE USE ONLY
☐ 1. NO	FICE OF SEISMIC ACTIVITY OF	■ NOTICE NOT REQUIRED BECAUSE NO SEISMIC ACTIVITY WAS CONDUCTED	RECEIVED/ NOT REQUIRED
☐ 2. NO	TICE OF ENTRY FOR PLAT SUR	VEY or <a> NO</a> PLAT SURVEY WAS CONDUC	TED RECEIVED
■ 3. NO	TICE OF INTENT TO DRILL OF	☐ NOTICE NOT REQUIRED BECAUSE NOTICE OF ENTRY FOR PLAT SURVEY WAS CONDUCTED or	☐ RECEIVED/ NOT REQUIRED
		☐ WRITTEN WAIVER BY SURFACE OW (PLEASE ATTACH)	NER
■ 4. NO	TICE OF PLANNED OPERATION		☐ RECEIVED
■ 5. PUE	BLIC NOTICE		☐ RECEIVED
■ 6. NO	TICE OF APPLICATION		☐ RECEIVED

#### Required Attachments:

The Operator shall attach to this Notice Certification Form all Notice Forms and Certifications of Notice that have been provided to the required parties and/or any associated written waivers. For the Public Notice, the operator shall attach a copy of the Class II Legal Advertisement with publication date verification or the associated Affidavit of Publication. The attached Notice Forms and Certifications of Notice shall serve as proof that the required parties have been noticed as required under West Virginia Code § 22-6A-11(b), the Certification of Notice to the person may be made by affidavit of personal services; and Gas the return receipt card or other postal receipt for certified mailing.

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WV Department of 12/15/2017

WW-6AC (1/12)

Certification of Notice is hereby give	Certification	of Notice	is hereby	giver
--	---------------	-----------	-----------	-------

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

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

 By:
 Victoria J Roark
 Bridgeport WV 26330

 Its:
 Permitting Supervisor
 Facsimile:
 304-848-0041

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

NOTATE OF WEST VIRGINIA
MISTRICA STATE OF WEST VIRGINIA
NOTATE OF WEST VIRGINI

Subscribed and sworn before me this 8th day of Negtonbe 2017

\_ Notary Public

My Commission Expires

#### Oil and Gas Privacy Notice:

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

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WW-6A (9-13) API NO. 47- 103 - 03213 OPERATOR WELL NO. BIG464H26 Well Pad Name: BIG464

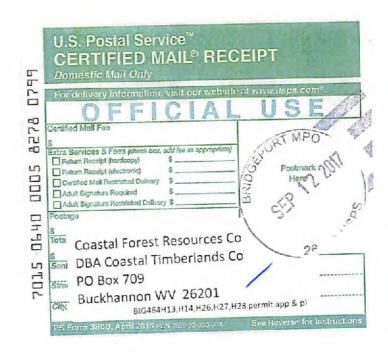
# STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS NOTICE OF APPLICATION

Notice Time Requirement: notice shall be provided no later th		
Date of Notice: Date Permit Application Filed: 9	8-17	
✓ PERMIT FOR ANY ☐ CERTIFICATE OF AP	PPROVAL FOR THE	
	F AN IMPOUNDMENT OR PIT	
Delivery method pursuant to West Virginia Code § 22-6A-1	10(b)	
☐ PERSONAL ☐ REGISTERED ☑ METE	HOD OF DELIVERY THAT REQUIRES A	
	HOD OF DELIVERY THAT REQUIRES A	
SERVICE MAIL RECE	EIPT OR SIGNATURE CONFIRMATION	
dediment control plan required by section seven of this article, and the surface of the tract on which the well is or is proposed to be located and gas leasehold being developed by the proposed well work, described in the erosion and sediment control plan submitted pursus operator or lessee, in the event the tract of land on which the well performed to the surface tract or the well work, if the surface tract is to be used for the placement, consimpoundment or pit as described in section nine of this article; (5) have a water well, spring or water supply source located within one provide water for consumption by humans or domestic animals; and proposed well work activity is to take place. (c)(1) If more than the subsection (b) of this section hold interests in the lands, the applicated of the sheriff required to be maintained pursuant to section provision of this article to the contrary, notice to a lien holder is no clode R. § 35-8-5.7.a requires, in part, that the operator shall also provise the purveyor or surface owner subject to notice and water testing	cated; (2) The owners of record of the surface tract or if the surface tract is to be used for roads or other land uant to subsection (c), section seven of this article; (3) proposed to be drilled is located [sic] is known to be tracts overlying the oil and gas leasehold being develor struction, enlargement, alteration, repair, removal or at Any surface owner or water purveyor who is known to thousand five hundred feet of the center of the well and (6) The operator of any natural gas storage field with the traction of the common or other co-owners of interests and may serve the documents required upon the person the eight, article one, chapter eleven-a of this code. (2) If the tractice to a landowner, unless the lien holder is the laprovide the Well Site Safety Plan ("WSSP") to the surface of the surface of the surface of the Safety Plan ("WSSP") to the surface of the surface of the Safety Plan ("WSSP") to the surface of the surface of the Safety Plan ("WSSP") to the surface of the surface of the Safety Plan ("WSSP") to the surface of the s	tracts overlying the d disturbance as ) The coal owner, underlain by one or ped by the proposed bandonment of any to the applicant to pad which is used to thin which the described in the Notwithstanding any landowner. W. Va.
☑ Application Notice ☑ WSSP Notice ☑ E&S Plan Notice	e  Well Plat Notice is hereby provided to:	
SURFACE OWNER(s)	☐ COAL OWNER OR LESSEE	
Name: See Attached	Name: See Attached	_
Address:	Address:	_
Name:	☐ COAL OPERATOR	_
Address:	Name: Address:  ZSUPFACE OWNER OF WATER WELL	
SURFACE OWNER(s) (Road and/or Other Disturbance)	Address:	Office of CIVED
Jame: See Atteched	SURFACE OWNER OF WATER WELL	— Of Chand Gas
Address:	AND/OR WATER PURVEYOR(s)	SEP 13 2017
	Name: See Attached	
Name:	Address:	- WOULD
Address:	Address.	WV Department of
		WV Department of vironmental/Protection
SURFACE OWNER(s) (Impoundments or Pits)	☐ OPERATOR OF ANY NATURAL GAS STO	WV Department of nvironmentell/Protection
SURFACE OWNER(s) (Impoundments or Pits) Name: See Attached	OPERATOR OF ANY NATURAL GAS STO	WV Dapartment off ovironmental/Protection DRAGE FIELD
■ 1 - 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	☐ OPERATOR OF ANY NATURAL GAS STO	WV Dapartment off ovironmental/Protection DRAGE FIELD

#### 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





#### 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

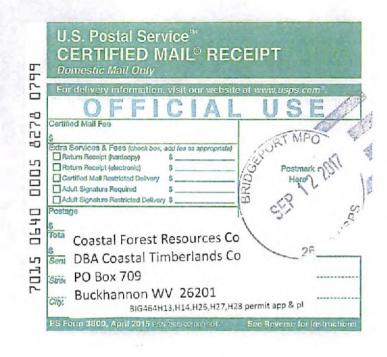
Keith & Rita Powell 3898 Buffalo Brink Rd Mannington WV 26582



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



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WV Department of Environmental Protection 12/15/2017

#### 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





### 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

> RECEIVED Office of Oil and Gas

SEP 1 3 2017

WV Department of Environmental Protection 12/15/2017

### **Owners of Water Sources:**

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

Office of Oil and Gas

SEP 1 3 2017

WV Department of Environmental Protection

RECEIVED Office of Oil and Gas

WW-6A (8-13)

SEP 1 3 2017

WV Department of Environmental Protection API NO. 47- 103 - **03213**OPERATOR WELL NO. BIG464H26

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 Department of Environmental Protection headquarters, located at 601 57<sup>th</sup> Street, SE, Charleston, WV 25304 (304-926-0450) or by visiting <a href="https://www.dep.wv.gov/oil-and-gas/pages/default.aspx">www.dep.wv.gov/oil-and-gas/pages/default.aspx</a>.

#### **Well Location Restrictions**

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

API NO. 47-103 - 03213 OPERATOR WELL NO. BIG464H26

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 as 15 Cheved location or construction of the applicant's proposed well work to the Secretary at:

Chief, Office of Oil and Gas
Department of Environmental Protection
601 57<sup>th</sup> 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 - 03 2 13

OPERATOR WELL NO. BIG464H26

Well Pad Name: BIG464

### **Time Limits and Methods for Filing Comments.**

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

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

#### **Comment Requirements**

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

Disclaimer: All comments received will be placed on our web site <a href="http://www.dep.wv.gov/oil-and-gas/Horizontal-Permits/Pages/default.aspx">http://www.dep.wv.gov/oil-and-gas/Horizontal-Permits/Pages/default.aspx</a> 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

WV Department of Environmental Protection

WW-6A (8-13) API NO. 47-103 - 03213
OPERATOR WELL NO. BIG464H26
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
My Commission Expires February 20, 2018

Subscribed and sworn before me this

h day of Deptember

Notary Public

My Commission Expires

Office of Oil and Gas

SEP 1 3 2017

WV Department of Environmental Protection

Topo Quad: Big Run 7.5' 1" = 1000" Scale: Wetzel County: Date: December 19, 2016 District: Grant Project No: 125-34-G-16 Water **BIG 464** 3 Potential Water Sources within 2500 Site Site 2 Site 3 1500 Site 4 1500 LEGEND NAD 27, North Zone N: 390,461.51 Red Symbol - Declined Sampling E: 1,713,355.50 Blue Symbol - Requested Sampling / Unable to Contact WGS 84 Well Spring LAT: 39.567675 Pond LONG: -80.516616 Building llen Cem ELEV: 1264.00 SURVEYING AND MAPPING SERVICES PERFORMED BY: PREPARED FOR: EQT Production Company ALLEGHENY SURVEYS, INC. 1-800-482-8606 P.O. Box 280 P.O. Box 200 Bridgeport, WV 26330 SEP 1 3 2017 237 Birch River Road Birch River, WV 26610 PH: (304) 649-8606 Envil 2/15/20107 FAX: (304) 649-8608

WW-6A4 (1/12)

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

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

Notice Time Date of Notic	Requirement: Notice shall be provided at le	east TEN (10) days prior to filing a it Application Filed:	
Delivery met	thod pursuant to West Virginia Code § 22-	6A-16(b)	
☐ HAND DELIVE	CERTIFIED MAIL RETURN RECEIPT REQU	ESTED	
receipt request drilling a hore of this subsect subsection ma	V. Va. Code § 22-6A-16(b), at least ten days sted or hand delivery, give the surface owner izontal well: <i>Provided</i> , That notice given pution as of the date the notice was provided to ay be waived in writing by the surface owner le, facsimile number and electronic mail add	notice of its intent to enter upon the insuant to subsection (a), section to the surface owner: <i>Provided, how</i> . The notice, if required, shall include	ne surface owner's land for the purpose of n of this article satisfies the requirements vever, That the notice requirements of this ude the name, address, telephone number,
	reby provided to the SURFACE OWN		
Name: See Atta Address:	ched	Name: See Attached Address:	
Addiess.		Address.	
	reby given: Vest Virginia Code § 22-6A-16(b), notice is wner's land for the purpose of drilling a horiz		
Pursuant to W the surface ov State: County: District:	Vest Virginia Code § 22-6A-16(b), notice is		
Pursuant to V	Vest Virginia Code § 22-6A-16(b), notice is wher's land for the purpose of drilling a horiz www.  Wetzel  Grant	contal well on the tract of land as fo  UTM NAD 83  Easting: Northing: Public Road Access:	Hows: 541,527,47 4,379,873.12 Rte 250
Pursuant to W the surface ov State: County: District: Quadrangle: Watershed: This Notice Pursuant to W facsimile nun related to hor	Vest Virginia Code § 22-6A-16(b), notice is when's land for the purpose of drilling a horiz www.  Wetzel  Grant  Big Run	contal well on the tract of land as fo  UTM NAD 83  Easting: Northing: Public Road Access: Generally used farm name:  stice shall include the name, addrerator and the operator's authorize ecretary, at the WV Department of	Illows: 541,527.47 4,379,873.12 Rte 250 Coastal Forest Resources Co DBA Coastal Timberlands Co. ess, telephone number, and if available, and representative. Additional information f Environmental Protection headquarters,
Pursuant to Wether surface of State: County: District: Quadrangle: Watershed:  This Notice Pursuant to Wether facsimile number related to hor located at 601  Notice is he	West Virginia Code § 22-6A-16(b), notice is wher's land for the purpose of drilling a horiz www.  Wetzel  Grant  Big Run  Wiley Fork  Shall Include: West Virginia Code § 22-6A-16(b), this no mber and electronic mail address of the operizontal drilling may be obtained from the S to 57th Street, SE, Charleston, WV 25304 (30-1) reby given by:	contal well on the tract of land as for UTM NAD 83 Easting: Northing: Public Road Access: Generally used farm name:  extice shall include the name, addrerator and the operator's authorized ecretary, at the WV Department of 4-926-0450) or by visiting www.de	Illows: 541,527.47 4,379,873.12 Rte 250 Coastal Forest Resources Co DBA Coastal Timberlands Co. ess, telephone number, and if available, and representative. Additional information f Environmental Protection headquarters,
Pursuant to W the surface ov State: County: District: Quadrangle: Watershed: This Notice Pursuant to W facsimile nun related to hor located at 601 Notice is he	West Virginia Code § 22-6A-16(b), notice is wher's land for the purpose of drilling a horiz www.  Wetzel  Grant  Big Run  Wiley Fork  Shall Include: West Virginia Code § 22-6A-16(b), this not mber and electronic mail address of the operizontal drilling may be obtained from the State of the State of Street, SE, Charleston, WV 25304 (30-14).	contal well on the tract of land as fo  UTM NAD 83  Easting: Northing: Public Road Access: Generally used farm name:  stice shall include the name, addrerator and the operator's authorize ecretary, at the WV Department of	Illows: 541,527.47 4,379,873.12 Rte 250 Coastal Forest Resources Co DBA Coastal Timberlands Co. ess, telephone number, and if available, and representative. Additional information f Environmental Protection headquarters,
Pursuant to Wethe surface over State: County: District: Quadrangle: Watershed: This Notice Pursuant to Vetacsimile number and to hore located at 601 Notice is he Well Operato	West Virginia Code § 22-6A-16(b), notice is wher's land for the purpose of drilling a horiz www.  Wetzel  Grant  Big Run  Wiley Fork  Shall Include: West Virginia Code § 22-6A-16(b), this no mber and electronic mail address of the operizontal drilling may be obtained from the S to 57th Street, SE, Charleston, WV 25304 (30-1) reby given by:	contal well on the tract of land as for UTM NAD 83 Easting: Northing: Public Road Access: Generally used farm name:  extice shall include the name, addrerator and the operator's authorized ecretary, at the WV Department of 4-926-0450) or by visiting www.de	Illows: 541,527.47  4,379,873.12  Rte 250  Coastal Forest Resources Co DBA Coastal Timberlands Co.  ess, telephone number, and if available, and representative. Additional information f Environmental Protection headquarters, p.wv.gov/oil-and-gas/pages/default.aspx.
Pursuant to Wether surface of State: County: District: Quadrangle: Watershed:  This Notice Pursuant to Wether shed to hor located at 601 Notice is he Well Operato Address: Bridgeport WV 20	Vest Virginia Code § 22-6A-16(b), notice is wher's land for the purpose of drilling a horiz www.  Wetzel  Grant  Big Run  Wiley Fork  Shall Include: West Virginia Code § 22-6A-16(b), this not niber and electronic mail address of the operizontal drilling may be obtained from the Start Street, SE, Charleston, WV 25304 (30-reby given by:  T: EQT Production Company  115 Professional Place PO Box 280	contal well on the tract of land as for UTM NAD 83 Easting: Northing: Public Road Access: Generally used farm name:  dice shall include the name, addrerator and the operator's authorized ecretary, at the WV Department of 4-926-0450) or by visiting www.de  Authorized Representative: Address: Bridgeport WV 26330	Illows: 541,527.47 4,379,873.12 Rte 250 Coastal Forest Resources Co DBA Coastal Timberlands Co. ess, telephone number, and if available, and representative. Additional information f Environmental Protection headquarters, p.wv.gov/oil-and-gas/pages/default.aspx.  Victoria Roark
Pursuant to Wether surface of State: County: District: Quadrangle: Watershed:  This Notice Pursuant to Wether facsimile number related to hor located at 601  Notice is he Well Operato Address: Bridgeport WV 20 Telephone:	Vest Virginia Code § 22-6A-16(b), notice is wher's land for the purpose of drilling a horiz www.  Wetzel  Grant  Big Run  Wiley Fork  Shall Include: West Virginia Code § 22-6A-16(b), this not niber and electronic mail address of the operizontal drilling may be obtained from the Start Street, SE, Charleston, WV 25304 (30-reby given by:  T: EQT Production Company  115 Professional Place PO Box 280	contal well on the tract of land as for UTM NAD 83 Easting: Northing: Public Road Access: Generally used farm name:  citice shall include the name, addrerator and the operator's authorized ecretary, at the WV Department of 4-926-0450) or by visiting www.de  Authorized Representative: Address: Bridgeport WV 26330 Telephone:	Illows: 541,527.47 4,379,873.12 Rte 250 Coastal Forest Resources Co DBA Coastal Timberlands Co. ess, telephone number, and if available, and representative. Additional information f Environmental Protection headquarters, p.wv.gov/oil-and-gas/pages/default.aspx.  Victoria Roark
Pursuant to W the surface ov State: County: District: Quadrangle: Watershed: This Notice Pursuant to W facsimile nun related to hor located at 601 Notice is he	Vest Virginia Code § 22-6A-16(b), notice is wher's land for the purpose of drilling a horiz www.  Wetzel  Grant  Big Run  Wiley Fork  Shall Include: West Virginia Code § 22-6A-16(b), this not mber and electronic mail address of the operizontal drilling may be obtained from the State Street, SE, Charleston, WV 25304 (30-15)  reby given by:  T: EQT Production Company  115 Professional Place PO Box 280 6330	contal well on the tract of land as for UTM NAD 83 Easting: Northing: Public Road Access: Generally used farm name:  dice shall include the name, addrerator and the operator's authorized ecretary, at the WV Department of 4-926-0450) or by visiting www.de  Authorized Representative: Address: Bridgeport WV 26330	Illows: 541,527.47 4,379,873.12 Rte 250 Coastal Forest Resources Co DBA Coastal Timberlands Co. ess, telephone number, and if available, ed representative. Additional information f Environmental Protection headquarters, p.wv.gov/oil-and-gas/pages/default.aspx.  Victoria Roark 115 Professional Place PO Box 280

#### 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 <a href="mailto:depprivacyofficer@wv.gov">depprivacyofficer@wv.gov</a>.

Office of Oil and Gas



#### 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

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SEP 1 3 2017

WV Department of Environmental Protection 12/15/2017

#### 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

WV Department of

#### **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

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Office of Oil and Gas

SEP 1 3 2017

WV Department of Environmental Protection

12/15/2017

Operator Well No. BIG464H26

# 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:	w	UTM NAD 83	Easting:	541,527.47
County:	Wetzel	UIM NAD 83	Northing:	4,379,873.12
District:	Grant	Public Road Ac	cess:	Rte 250
Quadrangle:	Big Run	Generally used	farm name:	Coastal Forest Resources Co DBA Coastal Timberlands Co
Watershed:	Wiley Fork			
Name: ET Blue		Signature:	4	M_
Address: 625 I	liberty Avenue, Suite 1700			
Pittsburgh, PA 15	5222	Date:	18	.30-17

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 <a href="mailto:depprivacyofficer@wv.gov">depprivacyofficer@wv.gov</a>.

Office of Oil and Gas

SEP 1 3 2017

WV Department of Environmental Protection

12/15/2017

WW-6A5 (1/12) Operator Well No. BIG464H26

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

	e: Date Permit	Application Filed:		application.
Delivery met	hod pursuant to West Virginia Code	§ 22-6A-16(c)		
	FIED MAIL EN RECEIPT REQUESTED	HAND DELIVERY		
return receipt the planned o required to be drilling of a h damages to the	requested or hand delivery, give the su peration. The notice required by this provided by subsection (b), section ten provided well; and (3) A proposed su e surface affected by oil and gas operate	arface owner whose land is subsection shall inclu- in of this article to a surf- arface use and compen- tions to the extent the da	I will be used for de: (1) A copy ace owner whost sation agreement amages are com	cation, 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 at containing an offer of compensation for pensable under article six-b of this chapter, sted in the records of the sheriff at the time
(at the address	by provided to the SURFACE OWN listed in the records of the sheriff at the			
Address:		Addres		
operation on state: County: District:	est Virginia Code § 22-6A-16(c), notice the surface owner's land for the purpose www.  Wetzel  Grant		I well on the tra  Easting:  Northing:	
Quadrangle: Watershed:	Big Run Wiley Fork	Generally use	ed farm name:	Coastal Forest Resources Co DBA Coastal Timberlands Co.
to be provided horizontal well surface affects information re	fest Virginia Code § 22-6A-16(c), this d by W. Va. Code § 22-6A-10(b) to all; and (3) A proposed surface use and ed by oil and gas operations to the explained to horizontal drilling may be oblocated at 601 57th Street, SE, Ch	a surface owner whose compensation agreeme tent the damages are co btained from the Secret	e land will be unt containing arompensable und	code section; (2) The information required used in conjunction with the drilling of a confer of compensation for damages to the ler article six-b of this chapter. Additional Department of Environmental Protection or by visiting

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SEP 1 3 2017

WV Department of Environmental Protection 12/15/2017

#### 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



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WV Department of Environmental Protection 12/15/2017

#### 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

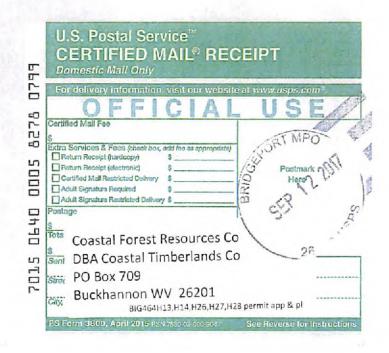
Keith & Rita Powell 3898 Buffalo Brink Rd Mannington WV 26582



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



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SEP 1 3 2017

WV Department of Environmental Protection

API NO, 47- 103 - 032 S

OPERATOR WELL NO, BIG464H25

Well Pad Name: BIG464

# STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION, 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 , hereby state that I have read the Instructions to Persons Named on Page WW-6A and the associated provisions listed above, and that I have received copies of a Notice of Application, an Application for a Well Work Permit on Form WW-6A and attachments consisting of pages one (1) through , including the erosion and sediment control plan, if required, and the well plat, all for proposed well work on the tract of land as follows: State: Easting: 541,527.47 UTM NAD 83 County: Wetzel Northing: 4,379,873.12 District: Grant Public Road Access: Rte 250 Quadrangle: Big Run Generally used farm name: Coastal Forest Resources Co DBA Coastal Timberlands Co. Watershed: Wiley Fork I further state that I have no objection to the planned work described in these materials, and I have no objection to a permit being issued on those materials. \*Please check the box that applies FOR EXECUTION BY A NATURAL PERSON ☑ SURFACE OWNER Signature: Print Name: SURFACE OWNER (Road and/or Other Disturbance) Date: SURFACE OWNER (Impoundments/Pits) FOR EXECUTION BY A CORPORATION, ETC. ☐ COAL OWNER OR LESSEE Company: ☐ COAL OPERATOR Altometria WATER PURVEYOR Signature: Date: □ OPERATOR OF ANY NATURAL GAS STORAGE FIELD

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. Office five of the 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.

Environment of 12/15/2047



### 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 57<sup>th</sup> 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
BIG464H13	BIG464H14	BIG464H15	BIG464H16	BIG464H17	BIG464H18
BIG464H19	BIG464H20	BIG464H21	BIG464H22	BIG464H23	BIG464H24
BIG464H26✓	BIG464H27	BIG464H28			
	,				

47-103-03213

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

Ce: Nick Bumgardner

EQT Production Company CH, OM, D-4, File

SEP 1 3 2017

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WV Department of Environmental Protection

12/15/2017

# Anticipated Frac Additives 47 10 3 0 3 2 1 3 Chemical Names and CAS numbers

<u>Material</u>	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

DR H G14-17

Office of Oil and Gas

SEP 19 2017

WV Department of Environmental Protection

### BIG 464 WELL PAD FINAL SITE DESIGN

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





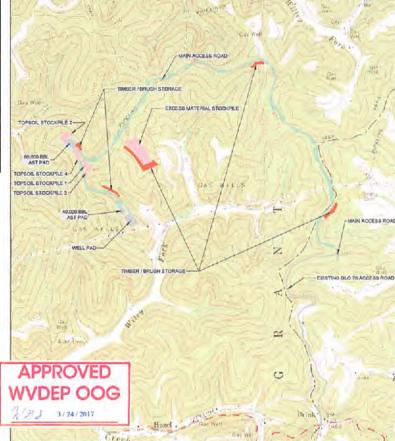


FLOODPLAIR	A COND	DITIONS	3
DO SITE CONSTRUCTON ACTIVITIE	S TAKE PLACE IN	FLOCOPLAIN.	NO
PERMIT NEEDED FROM COUNTY F.	OCCPLAIN COOF	IDINATOR:	NO
HECARAS STUDY COMPLETED:		NO	
FLOCOPLAIN GHOWN ON DRAWINGS:		NO	
FIRM MAP NUMBER(S) FOR SITE:	54049000650	- 54103C0250C - 5	4103C0225
ACHEAGES OF CONSTRUCTION IN	FLOODPLAIN:	N.A.	

1 DER - 1 MEE

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

\* 309 Form extra of disturbance to naturally reproducing tract

1000 of surface or proceed nates intoles to a public water except,

	LATITLEE	LENG/TUEV
Center of Well Pag	39.567675	-80.518516
Center of 50 000 Sdc. AST Paul	39.575120	+40 524345
Center of 40,000 BSL AST Pad	39.566544	-80.5+7732
Sta. 0+00 Main Access	39.564622	-80-491250
Sta. 6+30 50 500 AST Access	39.573440	-80.523538
3la 6+30 41 000 AST Access	39.504629	+80.518025
Evaling GLO 78 Apoeta Road @ Marion Co. Route 1	39.548246	-80-792947

Design Dertification

GF and Get 535-4-21.

The information reflects a 40,000 BBL. Above Ground Storage Tank (AST) Fad with secondary containment and a 60,000 BBL. Above Ground Storage Tank Pad.

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MARKET PRO->

2650 mer Sendouse of the W. TORRESPONDE L'ENGINE

EXISTING CONDITIONS PLAN. SCHEDULE OF QUANTITIES & UTILITY INFORMATION.

SCHEDULE OF QUANTITIES & LITLITY IN POPMATION, CONSTRUCTION, GENERAL AND ES NOTES OVERHIEV PLAN.

SISTEMS GO 78 ACCESS ROAD.

FINAL STE GERBINA PLANSCHOM.

80 000 BBL AST PAD PROFILES & SECTIONS.

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CONSTRUCTION DETAILS RECLAMATION PLANS

WELL LEGEND

BIG 464 H15+ LAT 39,567938 / LONG: +80,516819

BIG 464 H15- LAT 39.567915 / LONG -80.516799

BIG 454 H14- LAT 39.567893 / LONG -80.516780

8/9 484 Ht3- / AT: 39 567870 / LONG: -80 516760

BIG 464 H12- LAT- 39.567847 / LONG -80.516740

BIG 464 H11- LAT- 39.567824 / LONG: -80.516720

BIG 464 H10- LAT 39.567802 / LONG -80.516700 BIG 464 H9- LAT: 39.567779 / LONG: -80.516680

EIG 484 HB- LAT- 39.567758 / LONG -80.516660

E/G 484 H7+ LAT: 39.567733 / LONG: -80.516641

BIG 464 M6- LAT: 39 567710 / LONG: -80 516621

EIG 454 H5+ LAT 39.567688 / LONG -80.516601

BIG 454 H4+ LAT: 39.567685 / LONG: -80.516581 BIG 484 H3- LAT: 39.567642 / LONG: -80.516561

BIG 484 HZ+ LAT: 39.567519 / LONG: -80.516541

BIG 484 HZ4- LAT: 39.567597 / LONG: -80.516522

SHEET INDEX

Make the latter banks at the late.

35-35 37-38

Project Contacts

Fred Grey - EQT

Production Company 304-848-0085 Off.

Surveyes & Engineer

Ben Singleton - PS -Allegheny Staveys Inc. 304-649-6505 Off.

Tom Continue PE, P3 .

Harnor Brothers Engineers 304-624-6445 Office

REVISIONS

02/06/2013

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THIS DOCUMENT PREPARED FOR EQT PRODUCTS COMPANY

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ENTRANCE ADDRESSES	Date: 12/07/2018	
FLATED PROPERTY LINES. IS STOCKPILE & TOPSON, I A FRATED WELL COORDS.	Scale N.A.	
A 30ALT S BOONDARY	Designed By TBC	
S 4L900 BSE AST / ADDED	File No. 171 (COURT by	
WELLIAGING TO	Page 1 of 111	

The drawings, construction notes, and reference degrams affeched hereto have been prepared in accordance with the West Veginia Gods of State Rales, Division of Environmental Protection, Office of

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

