

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 BIG464H28

47-103-03215-00-00

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 easing. 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: BIG464H28

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

U.S. WELL NUMBER: 47-103-03215-00-00

Horizontal 6A / New Drill

Date Issued: 12/12/2017

Promoting a healthy environment.

API Number: 103-03215

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

- 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: 103-03-15

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.

WW-6B (04/15)

4710303215

API NO. 47- 103	<u>-03215</u>
OPERATOR W	ELL NO. BIG464H28
Well Pad Nan	A. BIG464

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

1) Well Operat	tor: EQTP	roduction C	ompany	306686	Wetzel	Grant	Big Run
				Operator ID	County	District	Quadrangle
2) Operator's V	Well Number	r: BIG464H2	28	Well Pac	Name: BIG46	64	
3) Farm Name	/Surface Ow		est Resources Co		d Access: Rt. 2	250	
4) Elevation, c	urrent groun	d: <u>1305'</u>	Ele	evation, proposed	post-construction	on: 1246'	
5) Well Type	(a) Gas	X	_ Oil	Unde	erground Storag	ge	
	Other						
	(b)If Gas	Shallow	<u>X</u>	Deep			
		Horizontal	X	· · · · · · · · · · · · · · · · · · ·		<u>_</u>	Da 4
6) Existing Pac	i: Yes or No	No			_		DMH 5-14-17
	rget Formati 419', 51', 262		(s), Antici	pated Thickness a	nd Expected Pr	essure(s):	(19-)1
8) Proposed To	tal Vertical	Depth: 741	9				
9) Formation a	t Total Verti	cal Depth:	Marcellus				
10) Proposed T	otal Measur	ed Depth:	12336				
11) Proposed F	Iorizontal Le	g Length:	4215			- ·	
12) Approxima	nte Fresh Wa	ter Strata De	pths:	109,184,432			
13) Method to	Determine F	resh Water I	epths: F	rom offset wells			
14) Approxima	ite Saltwater	Depths: 17	24,1848				
15) Approxima	ate Coal Sear	n Depths: 5	56,795,89	7,912			
16) Approxima	ate Depth to 1	Possible Voi	d (coal mi	ne, karst, other):	None reported		
17) Does Propo directly overlyi				ns Yes	No	x	RECEIVED Office of Oil and Gas
(a) If Yes, pro	ovide Mine I	nfo: Name	:				SEP 1 9 2017
		Depth	:				WV Department of
		Seam:					Environmental Protection
		Owne	r:				
					·· -		

API NO. 47-103 - 03215

OPERATOR WELL NO. BIG464H28
Well Pad Name: BIG464

18)

CASING AND TUBING PROGRAM

ТҮРЕ	Size (in)	New or Used	<u>Grade</u>	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	12336	12336	500' above top producing zone
Tubing	2 3/8		J-55	4.7		May not be run, if run set 40'	
Liners						above top perf or 80° inclination	

DMH 9-14-17

ТҮРЕ	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		7.5.65 (6)	1.120/2.000
Liners							

PACKERS

Kind:	Office of Oil and G
Sizes:	SEP I 9 2017
Depths Set:	Environmental Protecti

WW-6B (10/14)

4710303215 API NO. 47-103 - 03215

OPERATOR WELL NO. BIG464H28
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 5992'. Kick off and drill curve. Drill the lateral in the Marcellus. Cement casing.

Post 9-14-17

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

SEP 1 9 2017

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

WV Department of Environmental Protection

Lead (Class A Cement): 0.2% CD-20 (dispersant makes cement easier to mix). .15% SuperFL-300 (fluid loss/lengthens thickening time) .15% SEC-10 (fluid loss) 50:50 POZ (extender)
Tail (Class H Cement): 0.2% Super CR-1 (Relarder). 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. 60 % Calculm Carbonate. Acid solubility.

25) Proposed borehole conditioning procedures:

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

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

*Note: Attach additional sheets as needed.

8,121' MD

	BIG464H28 tun Quad zel County, WV		Azimuth 157 Vertical Section 4968					
Note: Diagram is not to scale	Top Base			Casing and Cementing			Deepest Fresh Wat	(a 400)
Formations	TVD TVD			Type	Conductor	Surface	Intermediate	Production
Conductor	40	7111		Hole Size, In.	30	17 1/2	12 3/8	8 1/2
Base Red Rock	132	4		Casing Size, OD In.	26	13 3/8	9 5/8	5 1/2
Base Fresh Water	432	1111	11	Casing Wall Thickness, In.	0.312	0.380	0.395	0.361
0		1111		Depth, MD	40'	1,019'	2,841'	12,336"
Surface Casing	1019	4111		Weight	85.6#	54.5#	40#	20#
NEO .		-111	_	Grade	A-500	J-55	A-500	P-110
		111		New or Used	New	New	New	New
Maxton	1812 - 1991	111		Burst (psi)	1378	2.700	3.950	12.640
Big Lime	2254 - 2330	111		Cement Class	A	A/Type 1	A / Type 1	A/H
Big Injun	2342 - 2411	111		Cement Yield	1.18	1.19	1.19	1,123 / 2,098
Weir	2540 - 2690	3111	1					1,12372.050
Gantz	2755 - 2791	111	4	Top of Cement (Planned)	Surface	Surface	Surface	500' above top Producing Zone
Intermediate Casing	2841	411		Method	Displacement	Displacement	Displacement	Displacement
Cition fact	2896 - 2952			Est. Volume (cu ft)	49	952	1,108	2,492
Thirty foot	2991 - 3018	11		LSt. Volume (50 ft)	- 40	302	1,100	Calcium Carbonate, Fluid Loss,
Gordon Forth Sand Bayard	3047 - 3092 3117 - 3130 3242 - 3260			Possible Additives	N/A	Calcium Chloride	Calcium Chloride	Extender, Dispersent, Viscosifier Defoamer, POZ, Bonding Agent, Retarder, Anti-Settling/Suspensio Agent
Warren Speechley Balltown A Riley Benson Alexander Sonyea Middlesex Genesee Geneseo Tully Hamilton Marcellus Production Casing Onondaga	3665 - 3689 3785 - 3833 4143 - 4158 4628 - 4670 5257 - 5306 5671 - 5738 6937 - 7100 7100 - 7156 7156 - 7243 7243 - 7275 7275 - 7300 7300 - 7398 7398 7398 - 7449 12336 MD			79-H-17		A STANSON TO A STANSON THE STA	ale N. S. S. V. S. Salake S. Lewis (N. Salake (N. Salak	

Proposed Well Work:

Drill and complete a new horizontal well in the Marcellus formation.

Drill the vertical to an approximate depth of 5992'.

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

Office of Oil and Ga

12,336' MD

4,215' Lateral



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

9-14-17

Enc.

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SEP 19 2017

WV Department of Environmental Protection

4710303215

API Number 47 - 103

Operator's Well No. BIG464H28

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

FLUIDS/ CUTTINGS DISPOSAL & RECLAMATION PLAN

Operator Name_EQT Production Company	OP Code 306686	
Watershed (HUC 10) Wiley Fork Quadr	rangle Big Run	
Do you anticipate using more than 5,000 bbls of water to complete the proj		
Will a pit be used? Yes No ✓	1.0	
If so, please describe anticipated pit waste:		
Will a synthetic liner be used in the pit? Yes No	If so, what ml.?	
Proposed Disposal Method For Treated Pit Wastes:		
Land Application		
Underground Injection (UIC Permit Number	0014, 8462, 4037)
Reuse (at API Number Various)
Off Site Disposal (Supply form WW-9 for disposal (Explain_	osal location)	Done
Will closed loop system be used? If so, describe: Yes, The closed loop system will prepared for transportation to an organized for transportation to a constant for transportation for transportation to a constant for transportation for	remove drill cuttings from the drilling fluid. The drill cuttings are then off-site disposal facility.	9-14-1
Drilling medium anticipated for this well (vertical and horizontal)? Air, fre	eshwater, oil based, etc. See Attached	3
-If oil based, what type? Synthetic, petroleum, etc. Synthetic Mud		
Additives to be used in drilling medium? See Attached		
Drill cuttings disposal method? Leave in pit, landfill, removed offsite, etc.	Landfill	3
-If left in pit and plan to solidify what medium will be used? (cen	nent, lime, sawdust) N/A	
-Landfill or offsite name/permit number? See Attached List	2.0.00.00.00.00.00	
Permittee shall provide written notice to the Office of Oil and Gas of any low West Virginia solid waste facility. The notice shall be provided within 24 has where it was properly disposed.	oad of drill cuttings or associated waste rejected at lours of rejection and the permittee shall also discle	any ose
I certify that I understand and agree to the terms and conditions of on August 1, 2005, by the Office of Oil and Gas of the West Virginia Depa provisions of the permit are enforceable by law. Violations of any term of law or regulation can lead to enforcement action. I certify under penalty of law that I have personally examined application form and all attachments thereto and that, based on my in obtaining the information, I believe that the information is true, accurate penalties for submitting false information, including the possibility of fine of Company Official Signature	artment of Environmental Protection. I understand or condition of the general permit and/or other appeared and am familiar with the information submitted aquiry of those individuals immediately responsite, and complete. I am aware that there are state or imprisonment.	that the plicable on this
Company Official (Typed Name) Victoria J. Roark	WDs	epartment of
Company Official Title Permitting Supervisor	Environme	ental Protection
Subscribed and sworn before me this 3th day of September 11 Usty S. Christie My commission expires 2/20/(8	OFFICIAL SEAL STATE OF WEST VIRGINIA Notary Public NOTARY PUBLIC Misty S Christie 1207 Briercliff Rd Bridgeport, WV 26330 My Commission Expires February 201200	**************************************

Anticipated Frac Additives Chemical Names and CAS numbers

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

Don H 9-14-17

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SEP 19 2017
WV Department of Environmental Protection



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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.

James Peterson

Environmental Resources Specialist / Permitting

Promoting a healthy environment.

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WV Denortmen 11 Environmental Presention

EQT Production

Hydraulic Fracturing Monitoring Plan

Pad ID: BIG464

Wetzel County, WV

8/21/17

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VM Decentment of Environmental Protection

Page **1** of **2**

12/15/2017

Purpose

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

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

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

1. Communications with Well Operators

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

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

EQT will recommend to these operators at a minimum to:

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

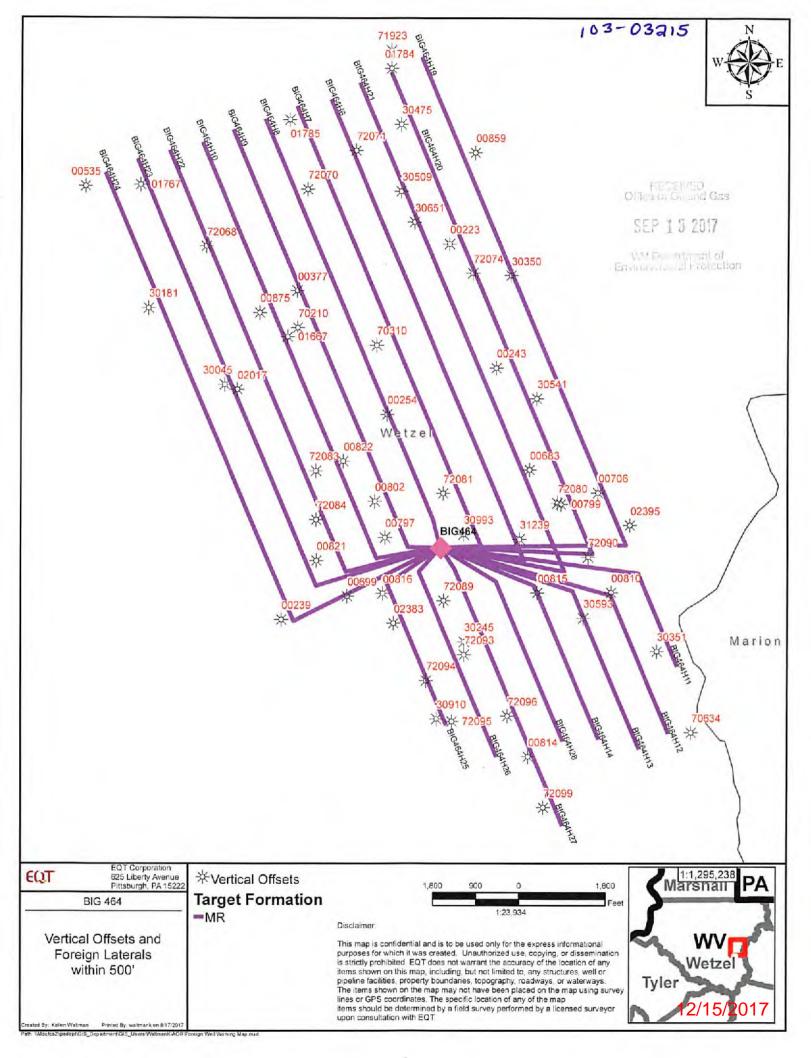
EQT will provide information relating to the hydraulic fracturing schedule, communication with other operators, and ongoing monitoring of the work upon request of OOG or immediately in the event of any noted abnormalities.

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Office of Oil and Gas

SEP 1 3 2017

VMD's pratical of Environment up a resolution

Page 2 of 2



1146 GR ABD-GW 35.58421 - 80.51347	API Number Abanonded Da	S	Elevation Elevation	Elevation Ref. Final Statu Lat			Permit Date SPUD Date	SPUD Date TD Formation	Total Depth Permit
9/29/1932 PITTSUMENER AND CASC AS CORPORATION (1946 GR ABD-CW) 83.55/8153 - 85.51/1922 CR ABC-CW 83.55/8153 - 85.51/1923 CR ABC-CW 83.55/813 - 85.51/1923 CR	4 :	4/8/1939	1148 GR	ABD-GW	39.584421	-80.515215	2/22/1939	3/9/1939 BAYARD	3230 00223
9/12/19/20 CANDOUNTON COMPANY 1120 GR ABD-GW 39:5808666 60:5701/19/20 12/2/19/20 CANDOUNTON COMPANY 1120 GR ABD-GW 39:5808666 60:575/19/20 12/2/2/20 CANDOUNTON COMPANY 1120 GR ABD-GW 39:580866 60:575/19/20 12/2/2/20 CANDOUNTON COMPANY 1120 GR ABD-GW 39:580866 60:575/19/20 12/2/2/20 CANDOUNTON COMPANY 1120 GR ABD-GW 39:580866 60:572/2/20 60:272/2/20 CANDOUNTON COMPANY 1120 GR ABD-GW 39:580866 60:272/2/20 60:272/2/20 CANDOUNTON COMPANY 1120 GR ABD-GW 39:580866 60:272/2/20 60:272/2/20 CANDOUNTON COMPANY 1120 GR ABD-GW 39:580866 60:272/2/20 60:272/2/20 CANDOUNTON COMPANY 1120 GR ABD-GW 39:580867 60:272/2/20 GR ABD-GW 39:580867 60:272/2/20 GR ABD-GW 39:580867 60:272/2/20 GR ABD-GW 39:580867 60:272/20 GR ABD-GW 39:580867 60:272/20 GR ABD-GW 39:580867 60:272/2/20 GR ABD-GW 39:272/20	5		\$	ABD-GW	39.576512	-80.531847		BIG INJUN /SD/	2146 30045
374/1928 CAMPEGE MATURAL GAS COMPONATION 120 GR	5		905 GR	ABD-GW	39.580866	-80.537468	5/29/1923	6/13/1923 HAMPSHIRE	2936 30181
1,11/13/15/15/15/15/15/15/15/15/15/15/15/15/15/	33		1040 GR	ABD-GW	39.561853	-80.514238	6/25/1902	7/10/1902 HAMPSHIRE	2908 30245
12.00 CM ABO-W 3555127 ABO-W 3555127 ABO-W 3555127 ABO-W 3555127 ABO-W 3555127 ABO-W 3555128 ABO-W 355	4		1427 GR	ABD-GW	39.582608	-80.510678		POCONO	2573 30350
9/12/12/22 DUNNAMAR OIL & GAS COMPANY 1120 GR ABO-WG 39:591148 64)213678 5/1/12/12/22 DUNNAMAR OIL & GAS COMPANY 1127 GR ABO-WG 39:591148 64)212/12/22 DUNNAMAR OIL & GAS COMPONY 1127 GR ABO-WG 39:551199 60:512/38 5/1/12/12/22 DUNNAMAR OIL & GAS COMPONATION 1120 GR ABO-WG 39:551299 60:512/38 5/1/12/22 DUNNAMAR OIL & GAS COMPONATION 1120 GR ABO-WG 39:551299 60:512/38 5/1/12/22 DUNNAMAR OF ABO-WG 39:572/39 60:512/38 6/1/12/22 DUNNAMAR OF ABO-WG 39:572/39 6/1/2/2/22 DUNNAMAR OF ABO-WG 39:572/39 6/1/2/2/2/2/2/2/2/2/2/2/2/2/2/2/2/2/2/2/	4		1620 GR	ABD-GW	39.561272	-80.5	10/11/1910	10/26/1910 HURON LOWER	3355 30351
1577 GR ABD-GW 35.58192 37.15128 4	4		1120 GR	ABD-GW	39.591194	-80.518768		5/18/1916 HURON LOWER	3072 30475
1,1/1,1/2,1/200 CARNEGIE WATURAL GAS CORPORATION 1,120 GR ABD-GW 39,58567 96,05,1797 5/4/1919 5/4/1919 PTTSRINEGIE WATURAL GAS CORPORATION 1,120 GR ABD-GW 39,587699 60,515,298 6/4/1919 5/4/1919 CARNEGIE WATURAL GAS CORPORATION 1,120 GR Carnegie MATURAL GAS CORPORATION 1,100 GR Carnegie MATURAL GAS CORPORATION 1,140 GR	5		1182 GR	ABD-GW	39.587421	-80.518768	2/12/1928	2/27/1928 HAMPSHIRE	3102 30509
1,1/1391 CARNEGIE NATURAL GAS CORPORATION 1120 GR ABD-GW 39.55749 60.516298 8/1915 7/19/1911 CARNEGIE NATURAL GAS CORPORATION 1131 GR CABC-GW 39.55749 60.516298 8/1915 7/19/1911 CARNEGIE NATURAL GAS CORPORATION 1131 GR CABC-GW 39.55749 60.516298 8/1915 7/19/1911 CARNEGIE NATURAL GAS CORPORATION 1131 GR CABC-GW 39.56749 60.51639 8/19/191 7/19/1911 CARNEGIE NATURAL GAS CORPORATION 1131 GR CABC-GW 39.56749 60.51738	4		1527 GR	ABD-GW	39.563159	-80.505433	5/1/1922	5/16/1922 HAMPSHIRE	3438 30593
7/13/15/20 AMERICA MATURAL GAS CORPORATION 1250 GR ABD-GW 39.557949 60.516239 8/8/1915 11/1/1940 HOPE NATURAL GAS CORPORATION 1131 GR ABD-GW 39.557949 60.516239 8/8/1915 11/1/1940 HOPE NATURAL GAS CORPORATION 1131 GR ABD-GW 39.577343 60.512462 6/3/1931 11/1/1940 HOPE NATURAL GAS CORPORATION 1131 GR GAS 39.57734 60.512462 6/3/1940 11/1/1940 HOPE NATURAL GAS GAS 39.57734 6/3/1940 11/1/1940 HOPE NATURAL GAS GARANIA REGOURCES 60.57734 6/3/1940 11/1940 HOPE NATURAL GAS CORPORATION COMPANY 11/1952 AMERICA GAS 39.5747 60.51236 11/3/1940 11/1940 HOPE NATURAL GAS CORPORATION 11/1940 HOPE NATURAL GAS CORPORATION COMPANY 11/1954 GR GAS 39.5747 60.50367 11/3/1940 11/1940 HOPE NATURAL GAS CORPORATION COMPANY 11/1940 HOPE NATURAL GAS CORPORATION	84		1401 GR	ABD-GW	39.585667	-80.517797	5/4/1919	5/19/1919 HAMPSHIRE	3297 30651
11/1/1940 HOPE MATURAL GAS CORPORATION 11131 GR ABD-GW 39.567949 90.514238 5/3/1911 111/1/1940 HOPE MATURAL GAS CORPORATION 1117/1940 HOPE MATURAL GAS GAPPARA 90.214238 5/3/1911 111/1940 HOPE MATURAL GAS GAPPARA 90.21428 5/3/1911 11/1940 HOPE MATURAL GAS GAPPARA 90.21428 5/3/1911 11/1940 HOPE MATURAL GAS GAPPARA 90.21428 6/3/1912 11/1940 HOPE MATURAL GAS GAPPARA 90.21428 6/3/1940 11/1940 HOPE MATURAL GAS GAPPARA 90.21428 6/3/1940 11/1940 11/1940 HOPE MATURAL GAS GAPPARA 90.21428 6/3/1940 11/1940 11/1940 HOPE MATURAL GAS GAPPARA 90.21428 6/3/1940 11/	51		1250 GR	ABD-GW	39.557499	-80.516298	8/8/1916	8/23/1916 SALT SD 3	1848 30910
11/15/1900 PATICHAL GAS 11/15/	S		1131 GR	ABD-GW	39.567949	-80.514238	5/3/1911	5/18/1911 FIETH SAND	3000 3005
1,17,1912 ANUA RESOURCES GR			1272 GR	D&A	39.577383	-80.511802	9/17/1940	10/2/1940 CONFMALIGH /SERIES/	1018 00243
64/12000 DAC ENERGY LLC 8397 GR 840		7/1/1952 ANJA RESOURCES	85	D&A	39.581796	-80.526452	6/5/1952	6/15/1952 BAVARD	3197 00377
9/30/1929 FFC 410 GR 645 39.5512 39.572 49.104 9/14/1940 EGT PRODUCTION COMPANY 144 GR 645 39.5512 59.572 59.104 9/14/1941 EGT PRODUCTION COMPANY 144 GR 645 39.5512 59.1038 7/18/14/14/19 1/17/194 9/14/1941 EGT PRODUCTION COMPANY 144 GR 645 39.5747 50.21388 7/18/14/14/19 1/17/194 1/17/1941 EGT PRODUCTION COMPANY 1090 GR 645 39.56646 50.20393 7/18/14/190 1/17/194 1/17/1941 EGT PRODUCTION COMPANY 1090 GR 645 39.56646 50.507055 10/14/190 1/17/190 1/17/1941 EGT PRODUCTION COMPANY 1186 GR 645 39.56646 50.507055 10/14/190 1/17/190 1/17/1941 EGT PRODUCTION COMPANY 1090 GR 645 39.56644 60.507055 10/14/190 1/17/190 1/17/1940 ALLIANCE PETROLEIM CORPORATION 1054 GR 645 39.567023 60.51946 8/12/1900 1/17/1940 ALLIANCE PETROLEIM CORPORATION 1054 GR 645 39.567023 60.51946 8/12/1900 1/17/1940 ALLIANCE PETROLEIM CORPORATION 1054 GR 645 39.567023 60.51946 8/12/1900 1/17/1940 ALLIANCE PETROLEIM CORPORATION 1054 GR 645 GR 39.567023 60.51946 8/12/1900 1/17/1950 ALLIANCE PETROLEIM CORPORATION 678 795000 1/17/1950 ALLIANCE PETROLEIM CORPORATION 678 795000 1/17/1950 ALLIANCE PETROLEIM CORPORATION 678 795000 39.567023 60.51016 60.5101		6/1/2000 DAC ENERGY LLC	937 GR	D&AW	39.594383	-80.519486	5/12/2000	5/22/2000 DEVONIAN	3307 01784
9/19/1900 EGT PRODUCTION COMPANY 1410 GR 645 39:563159 90:527772 8/4/1940 8/19 8/19/1912 5/19 14/1912 5/1912		8/30/1929 EPC		GAS	-80.5231	39.5721	1-1-1-		-1954 00822
9/1/1991 EGI PRODUCTION COMPANY 979 GR 645 39.55477 80.519588 7/37/1911 80.517/1911 BOSS WHARTION 1/1/1981 EGI PRODUCTION COMPANY 979 GR 645 39.556958 7/35/1922 5/10 8/1/1/1981 EGI PRODUCTION COMPANY 1090 GR 645 39.55695 8.25032 10/24/1380 11/24 11/1/1981 EGI PRODUCTION COMPANY 1186 GR 645 39.55695 80.50705 10/24/1380 11/24 11/1/1981 EGI PRODUCTION COMPONATION 1186 GR 645 39.55695 80.50705 10/24/1380 11/24 11/1/1981 EGI PRODUCTION COMPONATION 1186 GR 645 39.55692 80.52094 8/37/2008 10/84 11/1/1992 PODUCTION COMPANY 1186 GR 645 39.55692 80.52094 8/37/2008 10/84 11/1/1992 PODUCTION COMPANY 1186 GR 75EUDO 39.57622 80.52094 8/37/2008 10/84 11/1/1992 PODUCTION COMPANY 1186 GR 75EUDO 39.55762 80.52094 8/37/2008 10/84 11/1/1993 PODUCTION COMPANY 1186 GR 75EUDO 39.55762 80.52094 8/37/2008 10/84 11/1/1993 PODUCTION COMPANY 1186 GR 75EUDO 39.55693 80.52094 8/37/2008 10/84 11/1/1993 PODUCTION COMPANY 1186 GR 75EUDO 39.55693 80.52094 8/37/2008 10/84 11/1/1993 PODUCTION COMPANY 1186 GR 75EUDO 39.55693 80.52094 8/37/2008 10/84 11/1/1993 PODUCTION COMPANY 1186 GR 75EUDO 39.55693 80.52094 8/37/2008 10/84 11/1/1993 PODUCTION COMPANY 1186 GR 75EUDO 39.55693 80.52094 8/37/2008 10/84 11/1/1993 PODUCTION COMPANY 1186 GR 75EUDO 39.55693 80.52094 8/37/2008 10/84 11/1/1993 PODUCTION COMPANY 1186 GR 75EUDO 39.55693 80.52094 8/37/2008 10/84 11/1/1993 PODUCTION COMPANY 1186 GR 75EUDO 39.5593 80.52193 80.52194 8/37/2008 90.52094 8/37/2008 90.52094 8/37/2009 8/37/2009 90.52094 8/37/2009 90.52094 8/37/2009 90.52094 8/37/2009 90.52094 8/37/2009 90.52094 8/37/2009 90.52094 8/37/2009 90.52094 8/37/2009 90.52094 8/37/2009 90.52094 8/37/2009 90.52094 90.52094 8/37/2009 90.52094 90.52		9/19/1940 EOT PRODUCTION COMPANY	1410 GR	GAS	39 563159	-80 57776	8/4/1940	8/19/1940 HANADSHIDE	2475 00120
8/9/1922 EGT PRODUCTION COMPANY 11/1/1981 EGT PRODUCTION COMPANY 11/1/1982 LGT PRODUCTION COMPANY 1		9/1/1941 EOT PRODUCTION COMPANY	1464 GR	GAS	39.57477	-80 519858	7/18/1941	9/15/1943 HANNE STIINE 8/2/1941 EIETH SAND	3446 00255
8/1/1911 FOSS & WHARTON 11/1/1911 FOSS & WHARTON 11/1/1912 FOS & SUPPLIANCE PERFOLEUM CORPORATION 11/1/1911 FOS & SUPPLIANCE PERFOLEUM CORPORATION 11/1/1911 FOS & SUPPLIANCE PERFOLEUM CORPORATION 11/1/1912 FOS & SUPPLIANCE PERFOLEUM CORPORATION 11/1/1913 FOS & SUPPLIANCE PERFOL		8/9/1922 FOT PRODUCTION COMPANY	0 GR	GAS	39 564465	-80 522855	4/25/1922	5/10/1922 HAMBSHIRE	2154 00599
11/1/1981 EGT PRODUCTION COMPANY 1109 GRS GAS 39:56654 - 30:570755 10/24/1980 11/2/1981 LGT PRODUCTION COMPANY 111/2/1989 ALLIANCE PETROLEUM CORPORATION 1186 GR GAS 39:56542 - 30:570755 10/24/1980 11/2/1981 LGT PRODUCTION CORPORATION 1186 GR GAS 39:56291 - 30:513436 g1/29/1098 g/39/2009 ALLIANCE PETROLEUM CORPORATION 1186 GR GAS 39:56291 - 30:513436 g1/29/1098 g/39/2009 ALLIANCE PETROLEUM CORPORATION 1186 GR GAS 39:56291 - 30:513436 g1/29/1098 g/39/2009 ALLIANCE PETROLEUM CORPORATION 1186 GR GAS 39:56291 - 30:513436 g1/29/2008 11/2/29/2004 DIVANATEC ENERGY INCORPORATION 1186 GR GAS 39:56291 - 30:513436 g1/29/2008 11/2/29/2004 DIVANATEC ENERGY INCORPORATION 1186 GR PSEUDO GRS SUPPLY CORPORATION 1187 GRS SUPPLY CORPORATION 1186 GR PSEUDO GRS SUPPLY CORPORATION 1186 GR PSEUDO GRS SUPPLY CORPORATION 1186 GR PSEUDO GRS SUPPLY CORPORATION 1187 GRS SUPPLY CORPORATION 1187 GRS SUPPLY CORPORATION 1188 GRS SUPPLY CORPORATION 1189 GRS SUPPLY CORPORATION 1188 GRS SUPPLY CORPORATION 1189 GRS		8/7/1917 ROSS & WHARTON	979 GR	GAS	39 570771	-80 504309	5/2/1917	5/12/1917 HAMABCHIBE	90400 POTS
11/12/1998 ALLIANICE PETROLEUM CORPORATION 1455 GR GAS 39:597822 - 30:539034 10/16/1999 10/16/1999 ALLIANICE PETROLEUM CORPORATION 1455 GR GAS 39:597822 - 30:539034 10/16/1999 10/16/1999 ALLIANICE PETROLEUM CORPORATION 1455 GR GAS 39:597822 - 30:539034 10/16/1999 10/16/1999 ALLIANICE PETROLEUM CORPORATION 1064 GR GAS 39:597822 - 30:539034 10/16/1999 10/16/1999 10/16/1999 ALLIANICE PETROLEUM CORPORATION 1064 GR GAS 39:597822 - 30:539031 11/30/2003 11/10 CR GAS 20PPLY CORPORATION GR PSEUDO 39:567803 - 30:52045 GR CARGIE PRODUCTION COMPANY GR PSEUDO 39:56401 - 30:503872 GR CARGIE PRODUCTION COMPANY GR PSEUDO 39:56401 - 30:503937 GR CARGIE PRODUCTION COMPANY GR PSEUDO 39:56401 - 30:530372 GR CARGIE PRODUCTION COMPANY GR PSEUDO 39:56401 - 30:530372 GR CARGIE PRODUCTION COMPANY GR PSEUDO 39:56401 - 30:530372 GR CARGIE PRODUCTION COMPANY GR PSEUDO 39:56401 - 30:530372 GR CARGIE PRODUCTION COMPANY GR PSEUDO 39:56401 - 30:530372 GR CARGIE PRODUCTION COMPANY GR PSEUDO 39:56401 - 30:530372 GR CARGIE PRODUCTION COMPANY GR PSEUDO 39:56401 - 30:530372 GR CARGIE PRODUCTION COMPANY GR PSEUDO 39:56401 - 30:530372 GR CARGIE PRODUCTION COMPANY GR PSEUDO 39:56401 - 30:530372 GR CARGIE PRODUCTION COMPANY GR PSEUDO 39:56401 - 30:530372 GR CARGIE PRODUCTION COMPANY GR PSEUDO 39:56401 - 30:530372 GR CARGIE PRODUCTION COMPANY GR PSEUDO 39:57019 - 30:530372 GR CARGIE PRODUCTION COMPANY GR PSEUDO 39:57019 - 30:530372 GR CARGIE PRODUCTION COMPANY GR PSEUDO 39:57014 GR CARGIE PRODUCTION COMPANY GR PSEUDO 39:57014 GR CARGIE PRODUCTION COMPANY GR CARGIE PRODUCTION		1/1/1981 FOT PRODUCTION COMPANY	1090 GR	200	7 2 5 5 6 5 A 5 A 5 A 5 A 5 A 5 A 5 A 5 A 5	-80 507055		3/ 1/ 131/ HOUR SHIRE	00/00 0000
### 1/2/1909 ALIJANCE PETROLEUM CORPORATION 1186 GR GAS 39-5641481 - 80-55096 # 6/72/1909 # 8/15/1999 ALIJANCE PETROLEUM CORPORATION 1453 GR GAS 39-5641481 - 80-55096 # 8/12/1909 # 8/12/			85 858	5 V	39 587852		10/16/1999	11/24/1980 PEVONIAN (SD./	5000 00/99
9/9/2008 ALLIANCE PETROLEUM CORPORATION 11423 GR 4/29/2008 ALLIANCE PETROLEUM CORPORATION 1164 GR 4/29/2008 ALLIANCE PETROLEUM CORPORATION 1165 GR 5/2002 DYNATEC ENERGY INCORPORATION 1165 GR 11/25/2008 ALLIANCE PETROLEUM CORPORATION 126 GR 126 CONSOLIDATED GAS SUPPLY CORPORATION 127 GR 127 CONSOLIDATED GAS SUPPLY CORPORATION 128 GR			1186 GB	200	30.507.052		0001/00/3	10/20/1558 DEVOINIAN /50/	3264 01/6/
11/25/2008 ALLIANCE PEROLEIM CORPORATION 1064 GR 645 195-76219 61 20121479 12/1020 12/		9/30/2008 ALLIANCE PETROLETIM CORPORATION	1453 GB	אָל פֿ	39 56391	-80.32038	9/10/2008	8/3/1339 DEVOINIAN /3D/	3554 UI/85
CONSOLIDATED GAS SUPPLY CORPORATION CR PSEUDO 39.55673 31/30/2003 31/10		11/25/2008 ALLIANCE PETROLEUM CORPORATION	1054 GR	S A G	39 568424	-80 501955	8/27/2008	5/23/2008 FOOKIN SAIND	3403 02303
CONSOLIDATED GAS SUPPLY CORPORATION GR PSEUDO 39.571577 80.509367 EQT PRODUCTION COMPANY GR PSEUDO 39.56783 80.520794 EQT PRODUCTION COMPANY GR PSEUDO 39.56831 80.520794 EQT PRODUCTION COMPANY GR PSEUDO 39.56841 80.520372 EQUITABLE PRODUCTION COMPANY GR PSEUDO 39.56841 80.520372 EQT PRODUCTION COMPANY GR PSEUDO 39.56841 80.520337 GR PSEUDO 39.56841 80.520337 CARNEGIE NATURAL GAS CORPORATION GR PSEUDO 39.56841 80.520332 CARNEGIE NATURAL GAS CORPORATION GR PSEUDO 39.56841 80.520332 CARNEGIE NATURAL GAS CORPORATION GR PSEUDO 39.56841 80.520332 AMJA RESOURCES AMJA RESOURCES AMJA RESOURCES ANJA RESOURCES ANJA RESOURCES ANJA RESOURCES AUKKNOWN GR UNKWNN 39.58754 80.523665 UNKNNN 39.58754 80.523665 UNKNOWN GR UNKWNN 39.58754 80.523665 UNKNNN 39.58754 80.523665 UNKNOWN GR UNKWNN 39.58757 80.523663 UNKNOWN GR UNKWNN 39.58757 80.523663 UNKNOWN GR UNKWNN 39.58757 80.52563 UNKNOWN GR UNKWNN 39.587157 80.525103			948 GR	GAS-CB	39.576229	-80 530913	11/30/2003	10/8/2008 BALAND	71000 112
CONSOLIDATED GAS SUPPLY CORPORATION GR PSEUDO 39.571577 - 80.509367 EGT PRODUCTION COMPANY GR PSEUDO 39.56461 - 80.50034 EQUITABLE PRODUCTION COMPANY GR PSEUDO 39.56461 - 80.503372 CARNEGIE NATURAL GAS CORPORATION GR PSEUDO 39.56461 - 80.503373 CARNEGIE NATURAL GAS CORPORATION GR PSEUDO 39.56461 - 80.5033159 HOPE NATURAL GAS CORPORATION GR PSEUDO 39.56497 - 80.522179 HOPE NATURAL GAS CORPORATION GR PSEUDO 39.56497 - 80.523159 HOPE NATURAL GAS GR PORDUCTION COMPANY GR PSEUDO 39.56497 - 80.523159 HOPE NATURAL GAS GR PORDUCTION COMPANY GR PSEUDO 39.56497 - 80.523159 HOPE NATURAL GAS GR PORDUCTION COMPANY GR PSEUDO 39.56497 - 80.523159 HOPE NATURAL GAS GR PORDUCTION GR PSEUDO 39.56497 - 80.523159 HOPE NATURAL GAS GR PORDUCTION GR PSEUDO 39.56497 - 80.523159 HOPE NATURAL GAS GR PORDUCTION GR PSEUDO 39.56497 - 80.523169 HOPE NATURAL GAS GR PORDUCTION GR PSEUDO 39.56497 - 80.523169 HOPE NATURAL GAS GR PORDUCTION GR PSEUDO 39.56929 - 80.513468 HOPE NATURAL GAS GR PORDUCTION GR PSEUDO 39.568219 - 80.513468 HOPE NATURAL GAS GR PORDUCTION GR PSEUDO 39.568219 - 80.513468 HOPE NATURAL GAS GR PORDUCTION GR PSEUDO 39.568219 - 80.513468 HOPE NATURAL GAS GR PORDUCTION GR PSEUDO 39.568219 - 80.513468			; !))))	-80.4975	39.5567	2001/02/		70534
EQT PRODUCTION COMPANY GR PSEUDO GR UNKWN GR UNKM GR UNKWN GR	986		8	PSEUDO	39.571577	-80.509367			00683
EQUITABLE PRODUCTION COMPANY GR PSEUDO 39.569835 -80.520794 EQUITABLE PRODUCTION COMPANY GR PSEUDO 39.56461 -80.503372 -80.509534 EQUITABLE PRODUCTION COMPANY GR PSEUDO 39.56461 -80.509534 -80.509534 EQUITABLE PRODUCTION COMPANY GR PSEUDO 39.56461 -80.50323 -80.509534 EQT PRODUCTION COMPANY GR PSEUDO 39.56461 -80.50323 -80.52023 PHILABELPHA OIL GR PSEUDO 39.56461 -80.52023 -80.525103 PHILABELPHA OIL GR PSEUDO 39.56649 -80.52023 -80.52713 HADRE NATURAL GAS GR PSEUDO 39.56641 -80.52023 -80.52715 HOPE NATURAL GAS GR UNKWWN 39.56641 -80.50805 -80.52126 J/2/1963 EPC UNKWOWN GR UNKWNN 39.56758 -80.521615 -76/1911 2/6/1911 2/2/1900 6/6 J/2/1961 GAS LONGORDICTION COMPONY GR UNKWNN 39.56758 <td></td> <td>EQT PRODUCTION COMPANY</td> <td>8</td> <td>PSEUDO</td> <td>39.567803</td> <td>-80.520045</td> <td></td> <td></td> <td>76200</td>		EQT PRODUCTION COMPANY	8	PSEUDO	39.567803	-80.520045			76200
EQUITABLE PRODUCTION COMPANY GR PSEUDO GR PSEU		EQUITABLE PRODUCTION COMPANY	8	PSEUDO	39.569835	-80.520794			00805
EQUITABLE PRODUCTION COMPANY GR PSEUDO 39.56461 -80.509554 EQT PRODUCTION COMPANY GR PSEUDO 39.56461 -80.508805 EQT PRODUCTION COMPANY GR PSEUDO 39.56461 -80.508805 CARNEGIE NATURAL GAS CORPORATION GR PSEUDO 39.56461 -80.52033 PHILADELPHIA OIL GRA CORPORATION GR PSEUDO 39.56467 -80.52303 PHILADELPHIA OIL GRA CORPORATION GR PSEUDO 39.56467 -80.52303 PHILADELPHIA OIL GRA CORPORATION GRA PSEUDO 39.57919 -80.527179 HOPE NATURAL GAS CORPORATION GRA PSEUDO 39.57919 -80.527179 1/2/1963 FC 37.7790 HOPE NATURAL GAS UPLY CORPORATION GR UNKWN 39.57641 -80.50805 3/23/1911 CONSOLIDATED GAS SUPLY CORPORATION GR UNKWN 39.56768 -80.51016 7/6/1900 HOPE NATURAL GAS UPLY CORPORATION GR UNKWN 39.587364 -80.52665 UNKNOWN GR UNKWN 39.587364 -80.525665 UNKNOWN GR UNKWN 39.58736 -80.523665 HOPE NATURAL GAS CORPORATION GR UNKWN 39.58731 -80.513486 UNKNOWN GR UNKWN 39.589581 -80.523166 HOPE NATURAL GAS GRANGGIE NATURAL GAS		EQT PRODUCTION COMPANY	8	PSEUDO	39.56461	-80.503372			00810
EQT PRODUCTION COMPANY GR PSEUDO 39.56461 -80.52022 CARNEGIE NATURAL GAS CORPORATION GR PSEUDO 39.56461 -80.52022 CARNEGIE NATURAL GAS CORPORATION GR PSEUDO 39.56461 -80.52022 CARNEGIE NATURAL GAS CORPORATION GR PSEUDO 39.58458 -80.52925 ANJA RESOURCES ANJA ANJA ANJA ANJA ANJA ANJA ANJA ANJA		EQUITABLE PRODUCTION COMPANY	8	PSEUDO	39.555322	-80.509554			00814
EQT PRODUCTION COMPANY GR PSEUDO GR 99.589586 GR UNKWN		EQT PRODUCTION COMPANY	8	PSEUDO	39.56461	-80.508805			00815
CARNEGIE NATURAL GAS CORPORATION GR PSEUDO 39.566497 -80.525103 PHILADELPHIA OIL GR PSEUDO 39.58958 -80.53225 ANJA RESOURCES 1066 GR PSEUDO 39.58057 -80.522179 ANJA RESOURCES 1066 GR PSEUDO 39.57919 -80.52179 ANJA RESOURCES 1008 STORAGE -80.52017 -80.52179 ANJA RESOURCES 1008 STORAGE -80.52017 -80.520179 ANJA RESOURAL GAS 1008 STORAGE -80.52011 2/6/1911 2/2/1900 A/6/1900 HOPE NATURAL GAS UNKWN 39.56768 -80.52016 2/6/1911 2/2/1900 A/6/1900 HOPE NATURAL GAS UNKWN 39.56768 -80.520607 5/2/1900 6/6 A/6/1900 HOPE NATURAL GAS GR UNKWN 39.584361 -80.52166 5/2/1900 6/6 A/6/1900 HOPE NATURAL GAS GR UNKWN 39.58973 -80.52106 5/2/1900 6/6 A/6/1900 HOPE NATURAL GAS GR UNKWN 39.58973 -80.52316		EQT PRODUCTION COMPANY	8	PSEUDO	39.56461	-80.520232			00816
PHILADELPHIA OIL GR PSEUDO GR PSEUDO GR PSEUDO MIA RESOURACES ANIA RESOURACES 1066 GR PSEUDO 39.57919 GR UNKWN 39.57641 30.522179 ANIKWNOWN GR UNKWN 39.57642 ANIKWNOWN GR UNKWN 40.57643 ANIKWNOWN GR UNKWN 40.58978 ANIKWNOWN GR UNKWN 40.58757 ANIKWN 40.58757 ANIKWNOWN ANIKWNOWN GR UNKWN ANIKWNOWN GR UNKWN ANIKWNOWN GR UNKWN ANIKWNOWN ANIKWNOW	9	CARNEGIE NATURAL GAS CORPOR	8 8	PSEUDO	39.566497	-80.525103			00821
PSEUDO	997		GR	PSEUDO	39.589586	-80.513301			00829
ANJA RESOURCES ANJA RESOURCES GR PSEUDO 1/2/1963 EPC 1/2/1964 EPC 1		EQT PRODUCTION COMPANY	8	PSEUDO	39.580576	-80.529225			00875
HOPE NATURAL GAS GR PSEUDO 39.579705 -80.526415 1/2/1963 EPC		ANJA RESOURCES	1066 GR	PSEUDO	39.57919	-80.527179			01667
1/2/1963 EPC 1/2/1963 EPC 1/2/1963 EPC UNKWN 1/2/1964 - 80.5421 39.5878 UNKWN 1/2/1970 HOPE NATURAL GAS SUPPLY CORPORATION GR UNKWN 1/2/1970 HOPE NATURAL GAS SUPPLY CORPORATION GR UNKWN 1/2/1970 HOPE NATURAL GAS CORPORATION GR UNKWN 1/2/1970 HOPE NATURAL GAS CORPORATION GR UNKWN 1/2/1970 G/1/1911 2/21 1/2/1970 G/1/1970 G/1/1911 2/21 1/2/1970 G/1/1970 G/1/1911 2/21 1/2/1970 G/1/1970 G/1/1970 G/1/1911 2/21 1/2/1970 G/1/1970 G/1/1970 G/1/1911 2/21 1/2/1970 G/1/1970 G/1/19		HOPE NATURAL GAS	8	PSEUDO	39.579705	-80.526415			70210
UNKWOWN GR		1/2/1963	1008	STORAGE	-80.5421	39.5878			00535
3/23/1911 CONSOLIDATED GAS SUPPLY CORPORATION GR UNKWN 39.567658 -80.510116 2/6/1911 2/21 7/6/1900 HOPE NATURAL GAS UNKNOWN GR UNKWN 39.589731 -80.523665 UNKWN 39.58754 -80.522665 UNKWN 39.58754 -80.522106 UNKWN 39.58773 -80.513488 CARNEGIE NATURAL GAS CORPORATION GR UNKWN 39.56969 -80.507306 HOPE NATURAL GAS UNKNOWN GR UNKWN 39.568819 -80.555103	346		8	UNKWN	39.575641	-80.508805			30541
GR UNKWN 39.578689 -80.520607 5/22/1900 6/6 GR UNKWN 39.595392 -80.519483 GR UNKWN 39.58734 -80.523159 GR UNKWN 39.58754 -80.523665 GR UNKWN 39.58773 -80.52106 GR UNKWN 39.589731 -80.52106 GR UNKWN 39.589731 -80.52106 GR UNKWN 39.58973 -80.513488 GR UNKWN 39.58969 -80.507306 GR UNKWN 39.58969 -80.555103 GR UNKWN 39.58919 -80.525103	973		8	UNKWN	39.567658	-80.510116	2/6/1911	2/21/1911	31239
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47103720900000	HOPE NATURAL GAS	GR	UNKWN 39.566642 -80.5	05058 72090
47103720930000	UNKNOWN	GR	UNKWN 39.561127 -80.5	14238 72093
47103720940000	HOPE NATURAL GAS	GR	UNKWN 39.559676 -80.5	17048 72094
47103720950000	UNKNOWN	GR	UNKWN 39.557353 -80.5	15174 72095
47103720960000	UNKNOWN	GR	UNKWN 39.557644 -80.5	11053 72096
47103720990000	UNKNOWN	· GR	UNKWN 39.552419 -80.	50843 72099

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

WW-9 Attachment

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

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

Additives to be used in drilling medium?

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

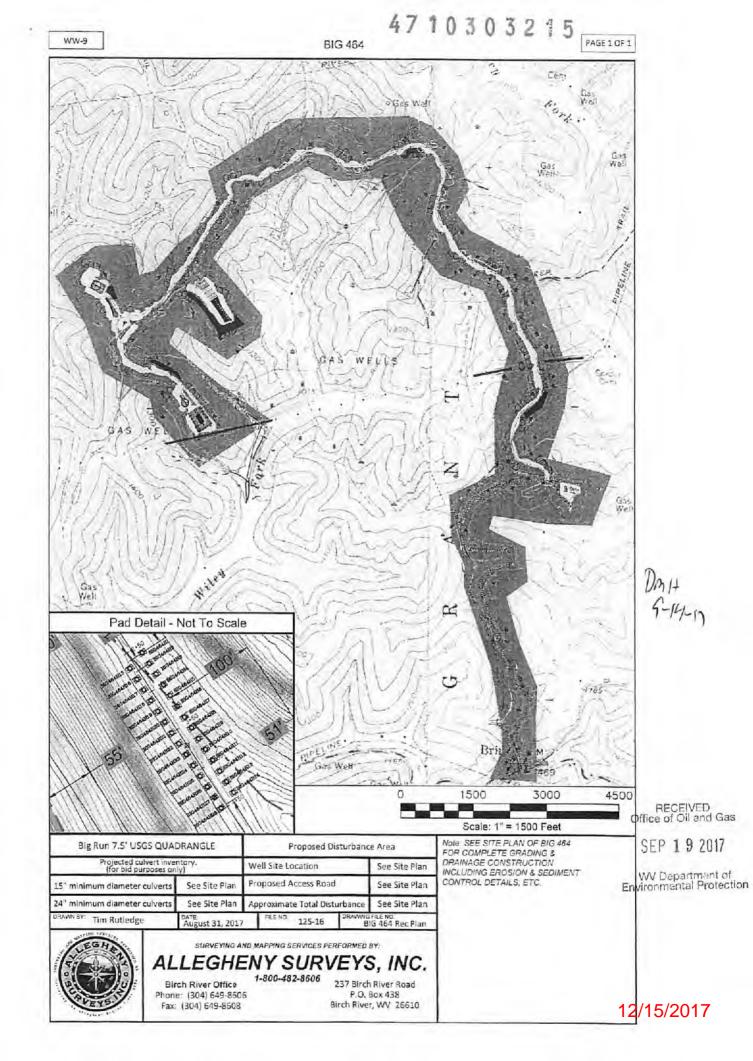
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4710303215

Operator's Well No. BIG464H28

		05.40	
Proposed Revegetation Trea			T
Lime 3	Tons/acre or to corre	et to pH 6.5	
Fertilizer type Gra	anular 10-20-20		
	1/3	lbs/acre	
Mulch 2		_Tons/acre	
		Seed Mixtures	
Te	emporary	Perma	nent
Seed Type	lbs/acre	Seed Type	lbs/acre
KY-31	40	Orchard Grass	15
Alsike Clover	5	Alsike Clover	5
Annual Rye	15		
Attach: Maps(s) of road, location, pirovided). If water from the creage, of the land application of invol	pit will be land applied, inc ion area	d application (unless engineered plans includuled lude dimensions (L x W x D) of the pit, and	ling this info have been dimensions (L x W), and a
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EQT Production Water plan

Offsite disposals for Marcellus wells

CWS TRUCKING INC.

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

LAD LIQUID ASSETS DISPOSAL INC.

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

TRI COUNTY WASTE WATER MANAGEMENT, INC.

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

Waste Management - Meadowfill Landfill

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

Waste Management - Northwestern Landfill

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

BROAD STREET ENERGY LLC

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

TRIAD ENERGY

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

KING EXCAVATING CO.

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

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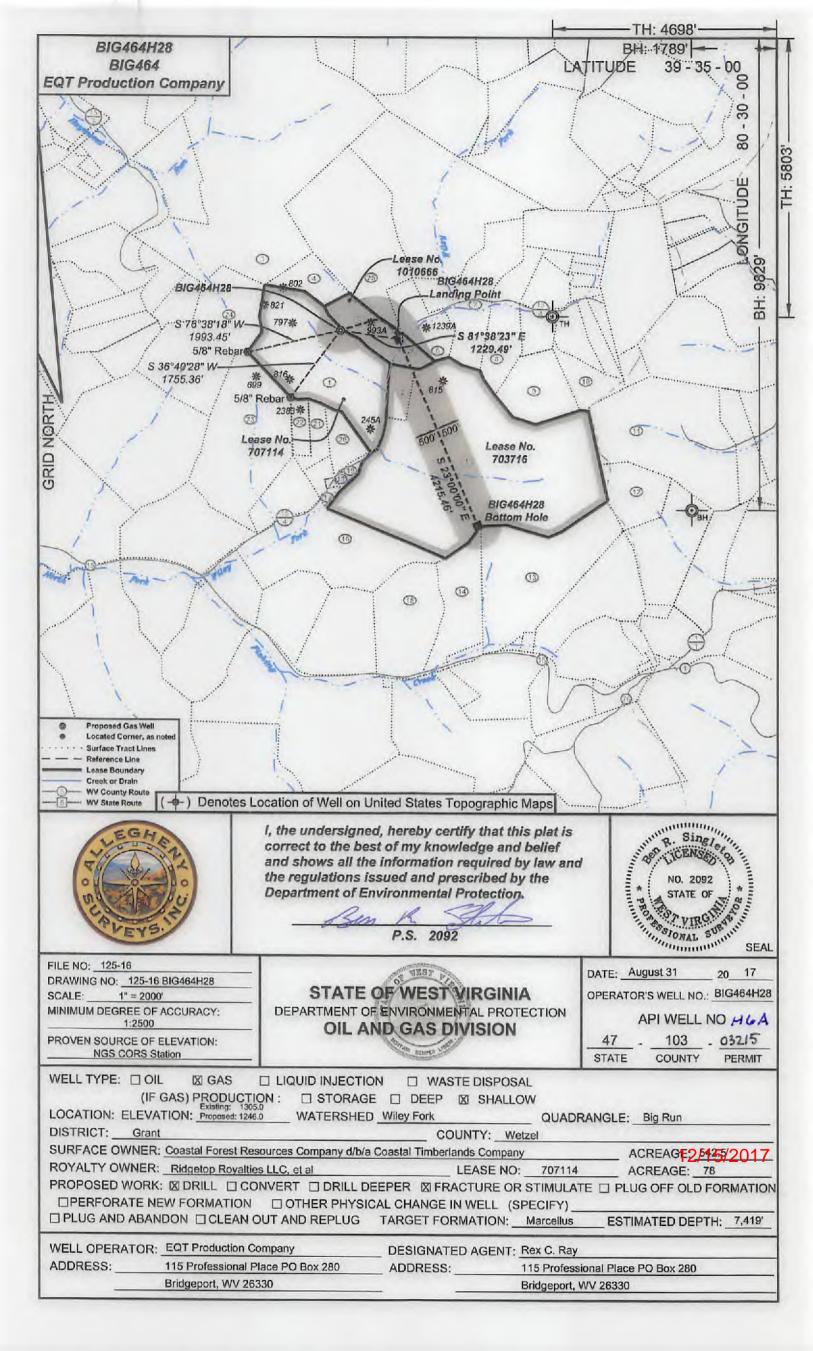
WM Department of Environmental Protection



Site Specific Safety Plan

EQT BIG 464 Pad Mannington Wetzel County, WV

	For Wells:		
EQTProduction Legrand Yan Sup v Date	Date Prepared:	December 21, 2016 WV Oil and Gas Inspector Title 41917 Date	BECEIVED Office of Oil and Gas SEP 1 9 2017 WV Department of Environmental Protection



BIG464H28 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:
BIG464H28 coordinates are
NAD 27 N: 390,393.08 E: 1,713,392.56
NAD 27 Lat: 39.567404 Long: -80.516671
NAD 83 UTM N: 4,379,866.08 E: 541,532.28
BIG464H28 Landing Point coordinates are
NAD 27 N: 390,214.31 E: 1,714,608.98
NAD 27 Lat: 39.566951 Long: -80.512350
NAD 83 UTM N: 4,379,817.81 E: 541,903.79
BIG464H28 Bottom Hole coordinates are
NAD 27 N: 386,333.96 E: 1,716,256.09
NAD 27 N: 386,333.96 E: 1,716,256.09
NAD 83 UTM N: 4,378,643.99 E: 542,425.29
West Virginia Coordinate system of 1927 (North Zone)
based upon Differential GPS Measurements.
Plat orientation, corner and well ties are based upon
the grid north meridian.
Well location references are based upon the grid north
meridian.
UTM coordinates are NAD83, Zone 17, Meters.



* 802

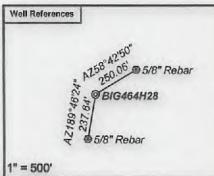
* 821
797
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993A
1239A
*
BIG464H28

*
816
*
2383*
245A
Scale 1" = 2000*

 Lease No.
 Acres
 Owner

 703716
 400
 Ridgetop Royalties LLC, et al

 1010666
 32
 Ridgetop Royalties LLC, et al





Proposed Gas Well

Creek or Drain

WV State Route

Located Corner, as no Surface Tract Lines Reference Line Lease Boundary

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

P.S. 2092



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DIOACALIDO

20

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

OPERAT	OR'S	WELL N	O.: DI	34041120
	AP	WEL	L NO	H6A
47		103	- 0	32/5

DATE: August 31

NGS CORS Station		September 19		STATE	COUNTY	PERMIT
WELL TYPE: □ OIL ☐ GAS	☐ LIQUID INJECTION	☐ WASTE DISP	OSAL			
(IF GAS) PRODUCT Existing: 130	ION: STORAGE	□ DEEP 🏻 SHA	LLOW			
LOCATION: ELEVATION: Proposed: 124	6.0 WATERSHED W	/iley Fork	QUADE	RANGLE:	Big Run	
DISTRICT: Grant		COUNTY:	Wetzel			
SURFACE OWNER: Coastal Forest Re	sources Company d/b/a Coa	astal Timberlands Com	pany	A	CREAGE2	25/2017
ROYALTY OWNER: Ridgetop Royalti	es LLC, et al	LEASE	NO: 707114		CREAGE: 7	
PROPOSED WORK: ☑ DRILL ☐ CO					IG OFF OLD F	ORMATION
□PERFORATE NEW FORMATION	☐ OTHER PHYSICAL	CHANGE IN WELL	(SPECIFY)_			
☐ PLUG AND ABANDON ☐ CLEAN	OUT AND REPLUG TA	ARGET FORMATION	N: Marcellus	ESTI	MATED DEPT	H: _7,419'
WELL OPERATOR: EQT Production O	Company	DESIGNATED AGEN	NT: Rex C. Ray			
ADDRESS: 115 Professional	Place PO Box 280	ADDRESS:	115 Profess	ional Place	PO Box 280	
Bridgeport, WV 26	3330		Bridgeport,	WV 26330		

WW-6A1 (5/13)

Operator's Well No.	BIG464H28

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

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

- (1) the tract of land is the same tract described in this Application, partly or wholly depicted in the accompanying plat, and described in the Construction and Reclamation Plan;
- (2) the parties and recordation data (if recorded) for lease(s) or other continuing contract(s) by which the Applicant claims the right to extract, produce or market the oil or gas are as follows:

Lease Name or Number	Cuantan Laggar ata	Cuentas Lassas etc	Davalta	Dools/Door
Number	Grantor, Lessor, etc.	Grantee, Lessee, etc.	Royalty	Book/Page

see attached

Office of Oil and Gas

SEP 1 3 2017

WV Department of Environmental Protection

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

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

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

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

Well Operator: EQT Production Company

By: Victoria J Roark

Its: Regional Land Supervisor

Page 1 of

WW-6A1 attachment

Operator's Well No.

BIG464H28

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

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

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Office of Oil and Gas

SEP 1 3 2017

WV Deportment of Environmental Protection

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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 marger and mode of carrying the same into effect as follows:

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

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

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

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

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

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

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

EQUITABLE PRODUCTION – EASTERN STATES, INC.

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VP and Corporate Secretary

CARNEGIE PRODUCTION COMPANY

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

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EQUITABLE PRODUCTION COMPANY

PA

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.

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The name of the corporation surviving	the merger is: Equitable Pro	duction Company		
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AGREEMENT AND PLAN OF MERGER

BETWEEN

EQUITABLE PRODUCTION - EASTERN STATES, INC.

AND

EQUITABLE PRODUCTION COMPANY

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

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

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

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

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

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

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

- (a) The by-laws of the surviving corporation as they shall exist on the effective date of this Agreement shall be and remain the by-laws of the surviving corporation until the same shall be altered, amended and repealed as therein provided.
- (b) The directors and officers of the surviving corporation shall continue in office until the next annual meeting of the shareholders

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and until their successors shall have been elected and qualified.

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

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

ATTEST:

EQUITABLE PRODUCTION – EASTERN STATES, INC.

Corporate Secretary

President

ATTEST

Corporate/Constant

EQUITABLE PRODUCTION COMPANY

By:

Presiden

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COMMONWEALTH OF PENNSYLVANIA

CEPARTMENT 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

Office of Oil and Gas

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which appear of record in this department

VAN Die Frimmer of Environmente Proceedigt



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.

Secretary of the Commonwealth

DPOS

In consideration of One-thousand (\$1,000.00) Dollars to me in hand paid by the Carnegie Natural Gas Company, receipt of which is hereby acknowledged, I, C. D. Greenlee of Pittsburg, Pennsylvania, the 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. Snodgrass; West by lands of James Allen, containing 500 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 Snedgrass; East by lands of Ney, Kendall and Allen; South by lands of Allen and Ott; West by lands 1716 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 Plesoants

1, 6 B. Johnson

a Molary Public of said County, do certify that

his wife, whose name is signed to the writing within, bearing date the 25" day of June 1900

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

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

RECEIVED Office of Oil and Gas

SEP 1 3 2017

trying marks Freedom



August 21, 2017

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

Re: BIG464

Grant District, Wetzel County

Dear Mr. Martin,

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

Sincerely,

Vicki Roark

Permitting Supervisor-WV

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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	API No. 47	I and	3215
Date of Notic	e Certification.		Well No. BIG4	
			lame: BIG464	
Notice has I	oeen given:	77 CH 1 HO 1		
		§ 22-6A, the Operator has provided the req	uired parties v	with the Notice Forms listed
below for the	tract of land as follows:	,, p p	miran pininas	The same states
State:	wv	UTM NAD 83 Easting:	541,532.28	
County:	Wetzel	Northing:	4,379,866.08	
District:	Grant	Public Road Access:	Rt 250	
Quadrangle:	Big Run	Generally used farm name:	Coastal Forest Re	sources Co dba Coastal Timberlands Co
Watershed:	Wiley Fork			
of this article Pursuant to	have been completed by the applicant west Virginia Code § 22-6A, the Op	perator has attached proof to this Notice Ce		requirements of section ten
that the Oper	rator has properly served the require	d parties with the following:		OOC OFFICE HEE
*PLEASE CHE	CK ALL THAT APPLY			OOG OFFICE USE ONLY
☐ 1. NOT	TICE OF SEISMIC ACTIVITY or	■ NOTICE NOT REQUIRED BECAUSEISMIC ACTIVITY WAS CONDUCT		☐ RECEIVED/ NOT REQUIRED
☐ 2. NOT	FICE OF ENTRY FOR PLAT SURV	'EY or 🔳 NO PLAT SURVEY WAS CO	NDUCTED	☐ RECEIVED
■ 3. NOT	TICE OF INTENT TO DRILL or	NOTICE NOT REQUIRED BECAU NOTICE OF ENTRY FOR PLAT SURV WAS CONDUCTED or		RECEIVED/ NOT REQUIRED
		☐ WRITTEN WAIVER BY SURFAC (PLEASE ATTACH)	E OWNER	
■ 4. NOT	TICE OF PLANNED OPERATION			☐ RECEIVED
■ 5. PUB	LIC NOTICE			☐ RECEIVED

Required Attachments:

■ 6. NOTICE OF APPLICATION

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

Officer of Childred Gas

SEP 1 8 2017

12/15/2017

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WW-6AC (1/12)

Certification of Notice is hereby given

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 CompanyAddress:115 Professional Place PO Box 280By:Victoria J RoarkBridgeport WV 26330Its:Permitting SupervisorFacsimile:304-848-0041Telephone:304-848-0076Email:vroark@eqt.com



Subscribed and sworn before me this 8th day of September 2017.

Misty S. Christie 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 deprivacyofficer@wv.gov.

Office of Oil and Gas

SEP 1 3 2017

12/15/2017

API NO. 47- 103 - 032 15
OPERATOR WELL NO. BIG464H2B
Well Pad Name: BIG464

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

Noti	ce Time Requireme	ent: notice shall be provided no later that	n the filing date of permit application.
Date Noti	of Notice:	Date Permit Application Filed: 9	817
7	PERMIT FOR AN' WELL WORK		PROVAL FOR THE AN IMPOUNDMENT OR PIT
Deliv	ery method pursu	ant to West Virginia Code § 22-6A-10)(b)
	PERSONAL	☐ REGISTERED ☑ METH	OD OF DELIVERY THAT REQUIRES A
	SERVICE		IPT OR SIGNATURE CONFIRMATION
registiced in the state of the	tered mail or by any repeter the control plan requirface of the tract on ad gas leasehold being the distor or lessee, in the ecoal seams; (4) The work, if the surface to undment or pit as desa water well, spring of dewater for consumpsed well work activities of the sheriff requision of this article to R. § 35-8-5.7.a requirement control of the surface of the surfa	method of delivery that requires a receipt of aired by section seven of this article, and to which the well is or is proposed to be located developed by the proposed well work, if and sediment control plan submitted pursual event the tract of land on which the well prowners of record of the surface tract or tract is to be used for the placement, construction in section nine of this article; (5) A for water supply source located within one ption by humans or domestic animals; and ty is to take place. (c)(1) If more than three on hold interests in the lands, the application in the contrary, notice to a lien holder is not aires, in part, that the operator shall also powner subject to notice and water testing	
	RFACE OWNER(s		☑ Well Plat Notice is hereby provided to:
	: See Attached)	☐ COAL OWNER OR LESSEE Name: See Attached
Addr	ess:		Address:
Vame	e:		COAL OPERATOR
Addr	ess:		Name:
1011	DEACE OWNED/a) (Road and/or Other Disturbance)	Address:
	: See Attached	(Road and/or Other Disturbance)	☑ SURFACE OWNER OF WATER WELL
			AND/OR WATER PURVEYOR(s)
			Name: See Attached
Vamo	:		Address:
Addr	ess:		☐ OPERATOR OF ANY NATURAL GAS STORAGE FIELD
SU	RFACE OWNER(s	(Impoundments or Pits)	Name:
	: See Attached	Jane Salar Salar Salar	Address:
addr			*Please attach additional forms if necessary

Office or Call and Gas

SEP 1 3 2017 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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Office of Oil and Gas

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



RECEIVED Office of Oil and Gas

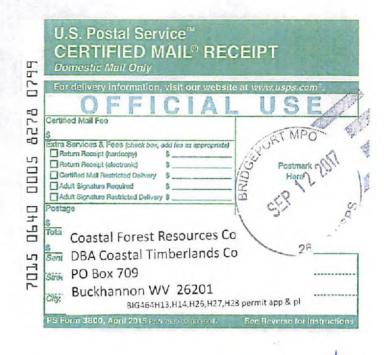
SEP 1 3 2017

WV Department of Environmental Protection

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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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 314 Washington Street East Charleston, WV 25301

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

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

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



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Coal Owners Continued:

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

CBM Only

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

> RECEIVED Office of Oil and Gas

Owners of Water Sources:

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

> RECEIVED Office of Oil and Gas

WW-6A (8-13) PEOFIVED
Office of Oil and Gas

SEP 1 3 2017

API NO. 47-103 - 03315

OPERATOR WELL NO. BIG464H28

Well Pad Name: BIG464

Notice is hereby given:

W// Demail municipal to be

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

This Notice Shall Include:

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

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

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

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

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

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

OPERATOR WELL NO. BIG464H28

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

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

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

RECEIVED
Office of Oil and Cas

WW-6A (8-13)

API NO. 47- 103

OPERATOR WELL NO. BIG464H28

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

Permit Denial or Condition

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

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

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

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



WW-6A (8-13)

API NO. 47-103 - 03215

OPERATOR WELL NO. BIG464H28

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 8th day of Olestante

Mit of Chustie

Notary Public

2017

My Commission Expires

PESEIVED Office of Oil and Gas

SEP 1 3 2017

WV Department of Environmental Protection

103-03215 RECEIVED Topo Quad: Big Run 7.5' Scale: 1" = 1000" SEP 1 8 2017 County: Wetzel Date: December 19, 2016 WV Department of Environmental Protestion District: Grant Project No: 125-34-G-16 Water **BIG 464** 3 Potential Water Sources within 2500 Site Site 2 Site 3 Site 4 1500 LEGEND NAD 27, North Zone 1200 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 Bullding ELEV: 1264.00 llen Cem SURVEYING AND MAPPING SERVICES PERFORMED BY: PREPARED FOR: ALLEGHENY SURVEYS, INC. **EQT Production Company** 1-800-482-8606 P.O. Box 280 237 Birch River Road Bridgeport, WV 26330 Birch River, WV 26610 PH: (304) 649-8606

12/15/201

FAX: (304) 649-8608

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.

Date of Notic	Requirement: Notice shall be provided at le	east TEN (10) days prior to filing a it Application Filed:	permit application.
Delivery met	hod pursuant to West Virginia Code § 22-	6A-16(b)	
☐ HAND DELIVE	CERTIFIED MAIL RETURN RECEIPT REQU	ESTED	
receipt request drilling a hor of this subsection management	V. Va. Code § 22-6A-16(b), at least ten days atted or hand delivery, give the surface owner zontal well: <i>Provided</i> , That notice given pution as of the date the notice was provided to be waived in writing by the surface owner le, facsimile number and electronic mail additional contents.	notice of its intent to enter upon the ursuant to subsection (a), section to the surface owner: <i>Provided, how</i> . The notice, if required, shall incl.	ne surface owner's land for the purpose of en of this article satisfies the requirements vever, That the notice requirements of this ude the name, address, telephone number,
Notice is he Name: See Atta	reby provided to the SURFACE OWN		
Address:	cned	Name: See Attached	
Address.		Address:	
State:	oner's land for the purpose of drilling a horiz	UTM NAD 83 Easting:	541,532.28
County: District:	Wetzel Grant	Northing:	4,379,866.08
District:	1110000	Public Road Access:	
County: District: Quadrangle: Watershed:	Grant	Northing:	4,379,866.08 Rt 250
District: Quadrangle: Watershed: This Notice Pursuant to V facsimile nun related to hor	Grant Big Run	Public Road Access: Generally used farm name: stice shall include the name, addrerator and the operator's authorize ecretary, at the WV Department of	4,379,856.08 Rt 250 Coastal Forest Resources Co dba Coastal Timberlands Co. ess, telephone number, and if available, ed representative. Additional information f Environmental Protection headquarters.
District: Quadrangle: Watershed: This Notice Pursuant to V facsimile num related to hor located at 601	Grant Big Run Wiley Fork Shall Include: Vest Virginia Code § 22-6A-16(b), this no ober and electronic mail address of the oper izontal drilling may be obtained from the Science of Street, SE, Charleston, WV 25304 (304)	Public Road Access: Generally used farm name: stice shall include the name, addrerator and the operator's authorize ecretary, at the WV Department of	4,379,856.08 Rt 250 Coastal Forest Resources Co dba Coastal Timberlands Co. ess, telephone number, and if available, ed representative. Additional information f Environmental Protection headquarters.
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District: Quadrangle: Watershed: This Notice Pursuant to V facsimile nun related to hor located at 601 Notice is he Well Operato	Grant Big Run Wiley Fork Shall Include: Vest Virginia Code § 22-6A-16(b), this no obser and electronic mail address of the operizontal drilling may be obtained from the Scizontal drilling may be	Public Road Access: Generally used farm name: ctice shall include the name, addrerator and the operator's authorize ecretary, at the WV Department of 4-926-0450) or by visiting www.de	4,379,856.08 Rt 250 Coastal Forest Resources Co dba Coastal Timberlands Co. ess, telephone number, and if available, ed representative. Additional information f Environmental Protection headquarters, ep.wv.gov/oil-and-gas/pages/default.aspx. Victoria Roark
District: Quadrangle: Watershed: This Notice Pursuant to V facsimile nun related to hor located at 601 Notice is he Well Operato Address: Bridgeport WV 26	Grant Big Run Wiley Fork Shall Include: Vest Virginia Code § 22-6A-16(b), this no obser and electronic mail address of the operizontal drilling may be obtained from the Scizontal drilling may be	Public Road Access: Generally used farm name: stice 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:	4,379,856.08 Rt 250 Coastal Forest Resources Co dba Coastal Timberlands Co. ess, telephone number, and if available, ed representative. Additional information f Environmental Protection headquarters, ep.wv.gov/oil-and-gas/pages/default.aspx. Victoria Roark
District: Quadrangle: Watershed: This Notice Pursuant to V facsimile nun related to hor located at 601 Notice is he Well Operato Address:	Grant Big Run Wiley Fork Shall Include: Vest Virginia Code § 22-6A-16(b), this no ober and electronic mail address of the oper izontal drilling may be obtained from the Scientific Street, SE, Charleston, WV 25304 (304) Teby given by: EQT Production Company 115 Professional Place PO Box 280	Public Road Access: Generally used farm name: stice shall include the name, addrerator and the operator's authorize ecretary, at the WV Department of 4-926-0450) or by visiting www.de Authorized Representative: Address: Bridgeport WV 26330	4,379,856.08 Rt 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 deprivacyofficer@wv.gov.

Surface Owners:

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

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

Office of Oil and Gas
SEP 1 3 2017

WW Department of Environmental Protection

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



SEP 13 2017

WW Department of Environmental Protection

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



WW-6A4W (1/12)

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

WAIVER

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

notice require	ments under West Virginia Coc	that I have read the notice product I have read the § 22-6A-16(b) for the tract	of land as fo	llows:
State:	Wetzel	UTM NAD 83	Easting:	541,532.28
County:			Northing:	4,379,866.08
District:	Grant	Public Road Acc	cess:	Rt 250
Quadrangle:	Big Run	Generally used t	farm name:	Coastal Forest Resources Co dba Coastal Timberlands Co.
Watershed:	Wiley Fork			
Name: ET Blue		Signature:	4	- fyl-
Address: 625 L	liberty Avenue, Suite 1700			
Pittsburgh, PA 15	222	Date:	18-	30-11

Oil and Gas Privacy Notice:

Surface Owner Waison

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

SEP 1 3 2017

WY Description of the Environment of Environment of

WW-6A5 (1/12) 103-037 IS Operator Well No. BIG464H28

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

Date of Notic	Requirement: notice shall be provided ce: Date Permit			application.
Delivery met	thod pursuant to West Virginia Code	§ 22-6A-16(e)	1	
CERTI	FIED MAIL ERN RECEIPT REQUESTED	HAND DELIVERY		
Pursuant to Vereturn receipt the planned of required to be drilling of a damages to the damages to the damages. Notice is her at the addres Name:	W. Va. Code § 22-6A-16(c), no later the requested or hand delivery, give the supperation. The notice required by this exprovided by subsection (b), section tenderizontal well; and (3) A proposed suppersurface affected by oil and gas operating the surface affected by oil and gas operating the surfa	nan the date for filing to preach the subsection shall include to of this article to a surface use and compen- tions to the extent the date in to the surface owner to	I will be used for de: (1) A copy ace owner whos sation agreement amages are comp at the address list	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
	100 miles	-		(4)
Pursuant to Woperation on State:	Vest Virginia Code § 22-6A-16(c), notice the surface owner's land for the purpose w	e is hereby given that the of drilling a horizonta	I well on the tra Easting:	ct of land as follows: 541,532.28
Pursuant to Woperation on State: County:	Vest Virginia Code § 22-6A-16(c), notice the surface owner's land for the purpose www.	e of drilling a horizonta UTM NAD 8	I well on the tra 3 Easting: Northing:	ct of land as follows: 541,532,28 4,379,866.08
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SEP 1 5 2017

Surface Owners:

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

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



RECEIVED Office of Oil and Gas

Surface Owners: Access Road

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

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Donald & Diana White 5017 Husky Hwy Mannington WV 26582

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

Keith & Rita Powell 3898 Buffalo Brink Rd Mannington WV 26582



RECEIVED Office of Cili and Gas

Surface Owners: AST

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

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



RECEIVED Office of Oil and Gas

API NO. 47- 103 - **D3 215**OPERATOR WELL NO. BIG464H28

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

State: County: District: Quadrangle: Watershed:	the well plat, all for proposed well work on the tra	JTM NAD 83 Easting:	541,532.28
	vvetzei	Northing:	4,379,866.08
		Public Road Access:	Rt 250
	Big Run (Generally used farm name:	Coastal Forest Resources Co dba Coastal Timberlands
*Please checl	k the box that applies	FOR EXECUT	ION BY A NATURAL PERSON
issued on tho	7 7 7 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Lean Pyrough	ION DV - NATIVO - DEPOS
	CE OWNER CE OWNER (Road and/or Other Disturbance)	Print Name:	
☑ SURFAC	CE OWNER (Road and/or Other Disturbance) CE OWNER (Impoundments/Pits)	Print Name:	ION BY A CORPORATION, ETC.
☑ SURFAC	CE OWNER (Road and/or Other Disturbance) CE OWNER (Impoundments/Pits) DWNER OR LESSEE	Print Name:	ION BY A CORPORATION, ETC.
☑ SURFAC ☑ SURFAC □ COAL C □ COAL C	CE OWNER (Road and/or Other Disturbance) CE OWNER (Impoundments/Pits)	Print Name:	ION BY A CORPORATION, ETC.

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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

Jim Justice Governor

Revised September 6, 2017

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

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

BIG464H1	BIG464H2	BIG464H3	BIG464H4	BIG464H5	BIG464H6
BIG464H7	BIG464H8	BIG464H9	BIG464H10	BIG464H11	BIG464H12
BIG464H13	BIG464H14	BIG464H15	BIG464H16	BIG464H17	BIG464H18
BIG464H19	BIG464H20	BIG464H21	BIG464H22	BIG464H23	BIG464H24
BIG464H26	BIG464H27	BIG464H28			
		117-102-02715			

Dear Mr. Martin,

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

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

Very Truly Yours,

Gary K. Clayton, P.E.

Regional Maintenance Engineer Central Office O&G Coordinator

Cc: Nick Bumgardner

EQT Production Company

CH, OM, D-4, File

Chica of Oil and Gas

Anticipated Frac Additives Chemical Names and CAS numbers

<u>Material</u>	Ingredient	CAS Number
Water		
Sand	Hydrotreated light petroleum distillate	14808-60-7
	Tributyl tetradecyl phosphonium	
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

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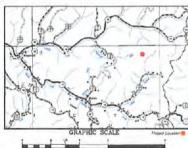
VM Descritions of Environment 2. at those tion 12/15/2017

BIG 464 WELL PAD FINAL SITE DESIGN

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







Marie - 1 Marie	
CONDITIONS	3
TAKE PLACE IN FLOODPLAIN.	NO
COOPLAIN COORDINATOR:	NO
	NG
5:	NO
54049C0065D - 54103C0250C - 5	4103C02250
	S TAKE PLACE IN FLOODPLAIN. GODPLAIN GOORDINATOR:

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!!

ACREAGES OF CONSTRUCTION IN FLOCOPLAIN.





WELL LOCATION RESTRICTIONS

*300 from edies of district and to naturally reproducing trout

1 1000 of surface or ground rester intake to a public rester supply

.60.4020sd 34 544348

Design Certification The drawings, construction notes, and reference clagrams attached hereto have been prepared in accordance with the West Virginia Code of State Rules, Division of Environmental Protection, Office of Of and Gas 535-4-21

The information reflects a 40,000 BBL Above Ground

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

Mary Annual Lemaner

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THE R. P. LEWIS CO., LANSING, MICH.

CONTRACTOR CONTRACTOR

Engineers Hornor Sales Br Gril, Minin

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	SHEET INDEX	
	VER SHEET / LOCATION MAP	.1
	STING CONDITIONS PLAN.	2-3
	HEDULE OF QUANTITIES & UTILITY INFORMATION.	- 4
	NSTRUCTION, GENERAL AND EAS NOTES	5
	ERVIEW PLAN	6-7
EXI	STING GLO 76 ACCESS ROAD	8-13
	AL SITE DESIGN PLANS	
WE	LL PAD PROFILES & SECTIONS	30-34
60,	000 BBL AST PAD PROFILES & SECTIONS	35-36
40,	000 BBL AST PAD PROFILES & SECTIONS.	37-38
EX	STING GLO 76 ACCESS PROFILE & SECTIONS	39-50
MA	N ACCESS ROAD PROFILE & SECTIONS	51-88
60,	200 BBL AST ACCESS ROAD PROFILE & SECTIONS	88
40,	200 BBL ASTACCESS ROAD PROFILE & SECTIONS	90
ST	OCKPILES PROFILES & SECTIONS	91-98
CO	NSTRUCTION DETAILS	99-101

WELL LEGEND BIG 464 H16- LAT: 39 567938 / LONG: -80 516819 BIG 464 H15-LAT: 39 567915 / LONG: -80 516799 BIG 464 H14- LAT: 39 567893 / LONG: -80 516780 BIG 464 H13-1 AT: 30 567870 / LONG: -80 516760 8/G 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 BIG 464 HB- LAT: 39.567756 / LONG: -80.516660 BIG 464 H7- LAT: 39 567733 / LONG: -80 516641 BIG 464 H6- LAT: 39 567710 / LONG: -80 516621 BIG 464 H5- LAT: 39 567688 / LONG: -80 516603 BIG 464 H4- LAT: 39.567665 / LONG: -80.51658 BIG 464 H3- LAT: 39 567642 / LONG: -80 51656 8/G 464 H2- LAT: 39.567619 / LONG: -80.516541 BIG 464 H24-LAT: 39.587597 / LONG: -80.51652.

Project Contacts

Fred Gray - EQT Production Company 304-848-0095 Off

Surveyor & Engineer Ben Singleton - PS -Allegheny Surveys Inc. 304-549-5606 Off

Tom Coraffiers - PE. PS -Hornor Brothers Engineers 304-524-5445 Office

DATE	REVISIONS
11.16.2016	LIDATE PROPERTY OWNER & LABEL WILL AND REPORT BUT
12.19 2010	LEDATE PROPERTY OWNER
92 66 2017	WHENCH PAD ENTRANCE / ADDITO NEW WILL LAYORT / INTANTO PROPERTY LINES REVISED EXCESS SPACKIFLE & TOPOGLE STOCKFILE I CYS UPDATED WELL OCCORDS
02.11.2017	CONTAINMENT ON MOOT BELAST LABOURD ARRESTS DETAIL
10.11.2017	REVISIO WILL LEGISTRY TO PREVIOUS WILL LAYOUT



FOI PRODUCTI COMBANY

OVER SHIELT/LOCATION DAN-BIG 464 WELL PAD SITE ANT DISTRICT WEIZEL COUNTY, W

Date: 12/07/2016 Scale: N.A. give made

