

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

Harold D. Ward, Cabinet Secretary www.dep.wv.gov

Tuesday, November 30, 2021 PERMIT MODIFICATION APPROVAL Horizontal 6A / New Drill

EQT PRODUCTION COMPANY 625 LIBERTY AVE., SUITE 1700

PITTSBURGH, PA 15222

Re: Permit Modification Approval for BG464 113H 47-103-03437-00-00

Lateral Modification

EQT PRODUCTION COMPANY

The Office of Oil and Gas has reviewed the attached permit modification for the above referenced permit. The attached modification has been approved and well work may begin. Please be reminded that the oil and gas inspector is to be notified twenty-four (24) hours before permitted well work is commenced.

If there are any questions, please feel free to contact me at (304) 926-0450.

Operator's Well Number: Farm Name: U.S. WELL NUMBER: Horizontal 6A Date Modification Issued: 11/30/2021 BG464 113H EQT PRODUCTION COMPANY 47-103-03437-00-00 New Drill

Promoting a healthy environment.





November 16, 2021

Via FedEx Overnight

West Virginia Department of Environmental Protection Office of Oil and Gas 601 57th Street, S.E. Charleston, WV 25304

RE: Well Work Permit Modification BIG464 113H Well Permit Number 47-103-03437 Grant District, Wetzel County, WV RECEIVED Office of Oil and Gas

NOV 18 2021

WV Department of Environmental Protection

WVDEP Recipient,

Attached please find following information to modify the existing Well Work Permit for this well:

- Check in the amount of \$7,500 for the expedited permit fee please note that \$2,500 of this check is for the Mod fee for WMP-01898 (Elliott Pad)
- Completed Form WW-6B and supporting documents, approved by the Oil and Gas Inspector
- Revised Well Bore Diagram
- Well Location Plat
- Completed Form WW-6A1 and supporting documentation
- Hydraulic Fracturing Monitoring Plan

EQT is proposing to remove the backbuild from the previously permitted lateral. A modification to the Water Management Plan has also been submitted electronically to Dawn Newell via e-mail.

EQT Production trusts that if any portion of the submitted documentation is found to be inadequate for processing the permit, notification will be made to our Permitting department at your earliest convenience. It is EQT Production's intent to cooperate fully to provide any additional requested documentation and clarification in a timely manner such that permitting proceeds in a predictable and logical manner.

Best Regards,

John Zavatchan Project Specialist – Permitting jzavatchan@eqt.com 724-746-9073

Ch# 0000590502 17500== 10/29/21

OPERATOR WELL NO. <u>113H</u> Well Pad Name: <u>BIG464</u>

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

1) Well Operator: EQT Production Compa	iny 306686	Wetzel	Grant	Big Run
-	Operator ID	County	District	Quadrangle
2) Operator's Well Number: 113H	Wel	Pad Name: BIG4	64	
3) Farm Name/Surface Owner: EQT Production	Company Public	Road Access: CR	1	
4) Elevation, current ground: 1246.8' (built)	Elevation, propo	sed post-constructi	on: <u>1246.</u> 8	3' (built)
5) Well Type (a) Gas X Oil Other	1	Jnderground Storag	ge	
(b)If Gas Shallow X Horizontal X	Deep			
6) Existing Pad: Yes or No Yes				
7) Proposed Target Formation(s), Depth(s), A Marcellus, 7,394', 51', 2,620 PSI	nticipated Thickne	ess and Expected P	ressure(s):	
8) Proposed Total Vertical Depth: 7,394'				
9) Formation at Total Vertical Depth: Marca	ellus			
10) Proposed Total Measured Depth: 8,751				
11) Proposed Horizontal Leg Length: 159'				
12) Approximate Fresh Water Strata Depths:	109', 184', 2	52', 278', 432'		
13) Method to Determine Fresh Water Depths	: Offset Wells -	47-103-30593, 47	-103-3091	0
14) Approximate Saltwater Depths: <u>1724', 1</u>	848'			
15) Approximate Coal Seam Depths: 556'-5	59', 795'-797', 89	7'-899', 912'-919'		
16) Approximate Depth to Possible Void (coa	ll mine, karst, othe	r): <u>N/A</u>		
17) Does Proposed well location contain coal directly overlying or adjacent to an active mir		No	x	
(a) If Yes, provide Mine Info: Name:				
 Depth:				
Seam:				
Owner:				

API NO. 47-<u>103</u>-<u>03437</u>

OPERATOR WELL NO. 113H Well Pad Name: BIG464

WW-6B (04/15)

18)

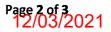
CASING AND TUBING PROGRAM

TYPE	<u>Size</u> (in)	<u>New</u> or Used	<u>Grade</u>	<u>Weight per ft.</u> (lb/ft)	<u>FOOTAGE: For</u> <u>Drilling (ft)</u>	INTERVALS: Left in Well (ft)	<u>CEMENT:</u> <u>Fill-up</u> (Cu. Ft.)/CTS
Conductor	26	New	A-500	85.6	40	40	50 ft^3 / CTS
Fresh Water	13 3/8	New	J-55	54.5	1019	1019	1000 ft^3 / CTS
Coal							
Intermediate	9 5/8	New	J-55	36	2441	2441	1000 ft^3 / CTS
Production	5 1/2	New	P-110	20	8751	8751	500' above intermediate casing
Tubing							
Liners							
				·	Bry	yan Harris	11/15/21

TYPE	Size (in)	<u>Wellbore</u> Diameter (in)	<u>Wall</u> <u>Thickness</u> <u>(in)</u>	<u>Burst Pressure</u> (psi)	Anticipated Max. Internal Pressure (psi)	<u>Cement</u> <u>Type</u>	<u>Cement</u> <u>Yield</u> (cu. ft./k)
Conductor	26	30	0.312	1050	18	Class A	1.18
Fresh Water	13 3/8	17 1/2	0.380	2730	2184	Class A / Type 1	1.13 - 1.19
Coal							
Intermediate	9 5/8	12 3/8	0.352	3520	2816	Class A / Type 1	1.13 - 1.19
Production	5 1/2	8 1/2	0.361	14360	11488	Class A/H	1.04 - 2.10
Tubing						_	
Liners							

PACKERS

Kind:		
Sizes:		
Depths Set:		



547 237

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

Drill and complete a horizontal well in the Marcellus Formation. Drill the vertical, kick off and drill curve. Drill the lateral in the Marcellus. Cement casing.

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 0.1%) 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 10,000 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 200,000-600,000 pounds of proppant per stage.

22) Area to be disturbed for well pad only, less access road (acres): N/A - Site Built

23) Describe centralizer placement for each casing string:

• Surface: Bow spring centralizers – One centralizer at the shoe and one spaced every 500'.

• Intermediate: Bow spring centralizers- One centralizer at the shoe and one spaced every 500'.

• Production: One solid body centralizer spaced every joint from production casing shoe to KOP.

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

Conductor: Class A no additives

Surface: Calcium Chloride. Used to speed the setting of cement slurries

Intermediate: Calcium Chloride. Used to speed the setting of cement slurries.

Production: Calcium Carbonate, Fluid Loss, Extender, Dispersent, Viscosifier, Defoamer, POZ, Bonding Agent, Retarder, Anti-Settling/Suspension Agent

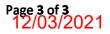
25) Proposed borehole conditioning procedures:

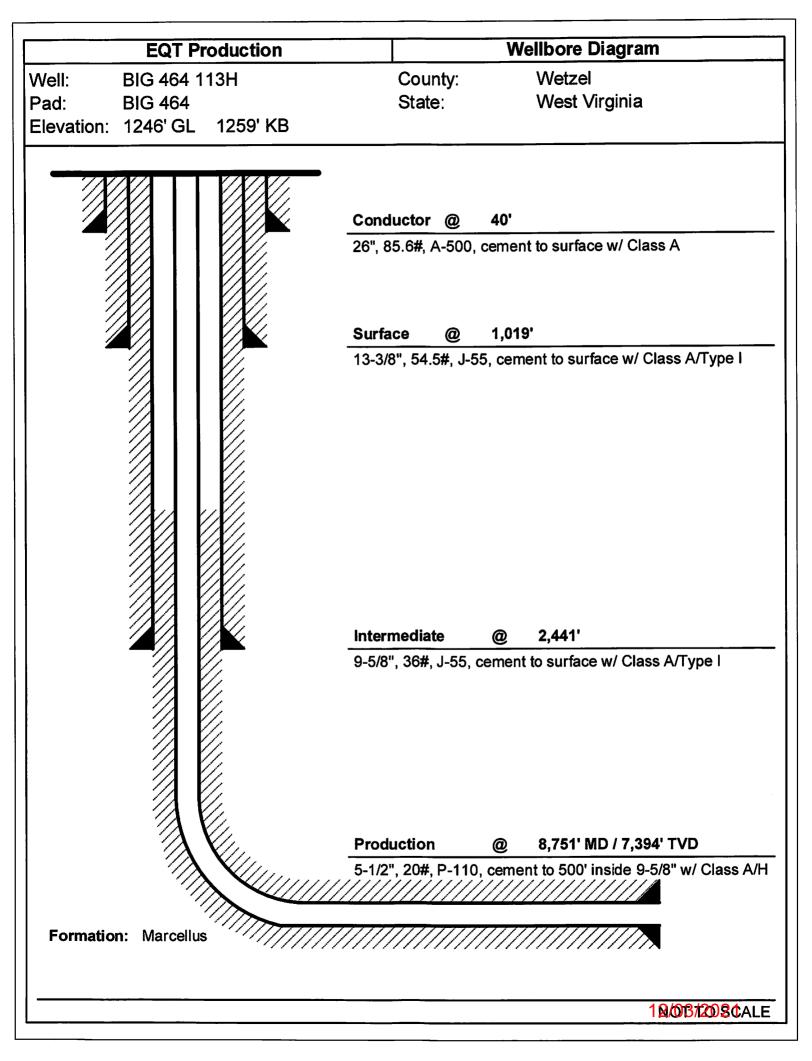
Surface: Circulate hole clean while rotating & reciprocating the drill string until cuttings diminish at surface.

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

Production: Perform a cleanup cycle by pumping 3-8 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.





				LOGICAL PROGNOSIS Iorizontal Well BIG464		
Drilling Objectives: County:	Marcellus Wetzel			S-000124		
Quad:	Big Run					
Elevation:	1259	KB		1246 GL		
Recommended Azimuth	#N/A	Degrees		Recommended LP	TVD: 7399 to TD: #N/A	
Proposed Logging Suite:		Pilot Logging Not	needed			
ESTIMATED FORMATION	TOPS	From pilots on BIG	157 and BIG182			
Formation	Top (TVD)		Lithology	Comments	Top RR H	Base RR
Fresh Water Zone	1			FW @ 109,184,432, , ,	69	73
Waynesburg Coal	556		Coal		76	80
Coal	795		Coal	No known past/present/and or future mining within the area	96	114
Sewickley Coal	897		Coal		125	132 Base of Red
Pittsburgh Coal	912		Coal			
Maxton	1793		Sandstone	SW @ 1724,1848, ,		
Big Lime	2234	2310	Limestone			
Big Injun	2322		Sandstone			
Int. csg pt	2441					
Weir	2520	2670	Sandstone			
Top Devonian	2735	5				
Gantz	2735	5 2771	Silty Sand			
Fifty foot	2876	5 2932	Silty Sand	Storage is NOT of concern		
Thirty foot	2971	2998	Silty Sand			
Gordon	3023	3072	Silty Sand			
Forth Sand	3093		Silty Sand	Base of Offset Well Perforations at 3129' TVD		
Fifth Sand	3169	3188	Silty Sand			
Bayard	3222	2 3240	Silty Sand			
Warren	3645	5 3669	Silty Sand			
Speechley	3765	5 3813	Silty Sand			
Balltown A	4123	4138	Silty Sand			
Riley	4608	3 4650	Silty Sand			
Benson	523	5286	Silty Sand			
Alexander	565	5718	Silty Sand			
Elks	5718	6917	Gray Shales and Silts			
Sonyea	691	7 7080	Gray shale			
Middlesex	7080	7136	Shale			
Genesee	7130		Gray shale interbedded			
Geneseo	7223	3 7255	Black Shale			
Tully	725:	5 7280	Limestone			
Hamilton	7280		Gray shale with some			
Marcellus	737		Black Shale			
Purcell	7393		Limestone			
-Lateral Zone	73					
Cherry Valley	7409		Limestone			
Onondaga	7429	9	Limestone			
			1			
Target Thickness		l feet				
Max Anticipated Rock Pressure	2620	0 PSI	1			

Comments: Intermediate casing point is recommended beneath the Big Injun to shut off any water production from the Upper Devonian sands. Intermediate casing should be cemented into the surface string, per WV regulations.

Mapview - Lateral:	Deviate as little as possible to the left or right of the planned wellbore
Mapview - TD:	DO NOT EXTEND beyond recommended wellbore to avoid leaseline

Fresh Water/Coal	CSG OD	13 3/8	CSG DEPTH:	1019	Beneath Pittsburgh Coal
Intermediate 1:	CSG OD	9 5/8	CSG DEPTH:	2441	Beneath theBig Injun formation
Production:	CSG OD	5 1/2	CSG DEPTH: @ TD		

EQT Production

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Hydraulic Fracturing Monitoring Plan

Pad ID: BIG464

County: Wetzel

September 21, 2021

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12/03/2021

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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 the BIG464 well pad: 1H, 3H, 5H, 7H, 9H, 11H, 113H & 117H.

Due to the requirements under 3SCSR85.11, 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:

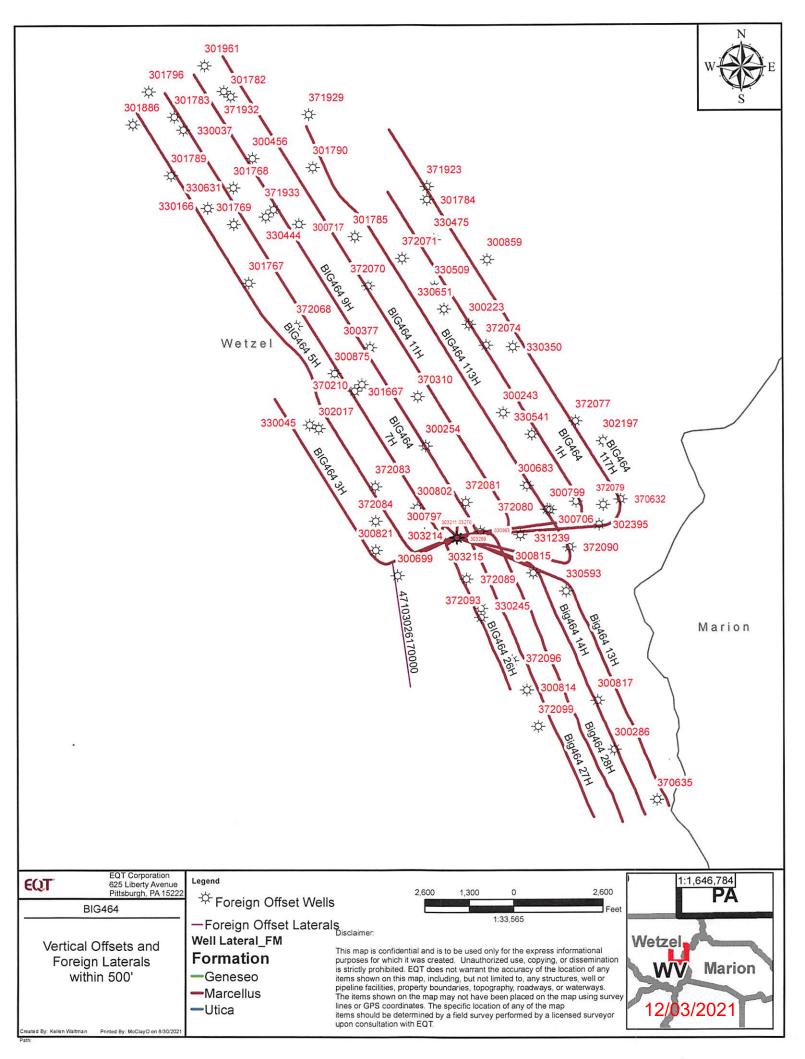
- 1. Inspect their surface equipment prior to fracturing to establish integrity and establish pre frac well conditions
- 2. Observe wells closely during and after fracturing and monitor for abnormal increases in water, gas or pressure
- 3. Inspect or install master valves or other necessary equipment 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

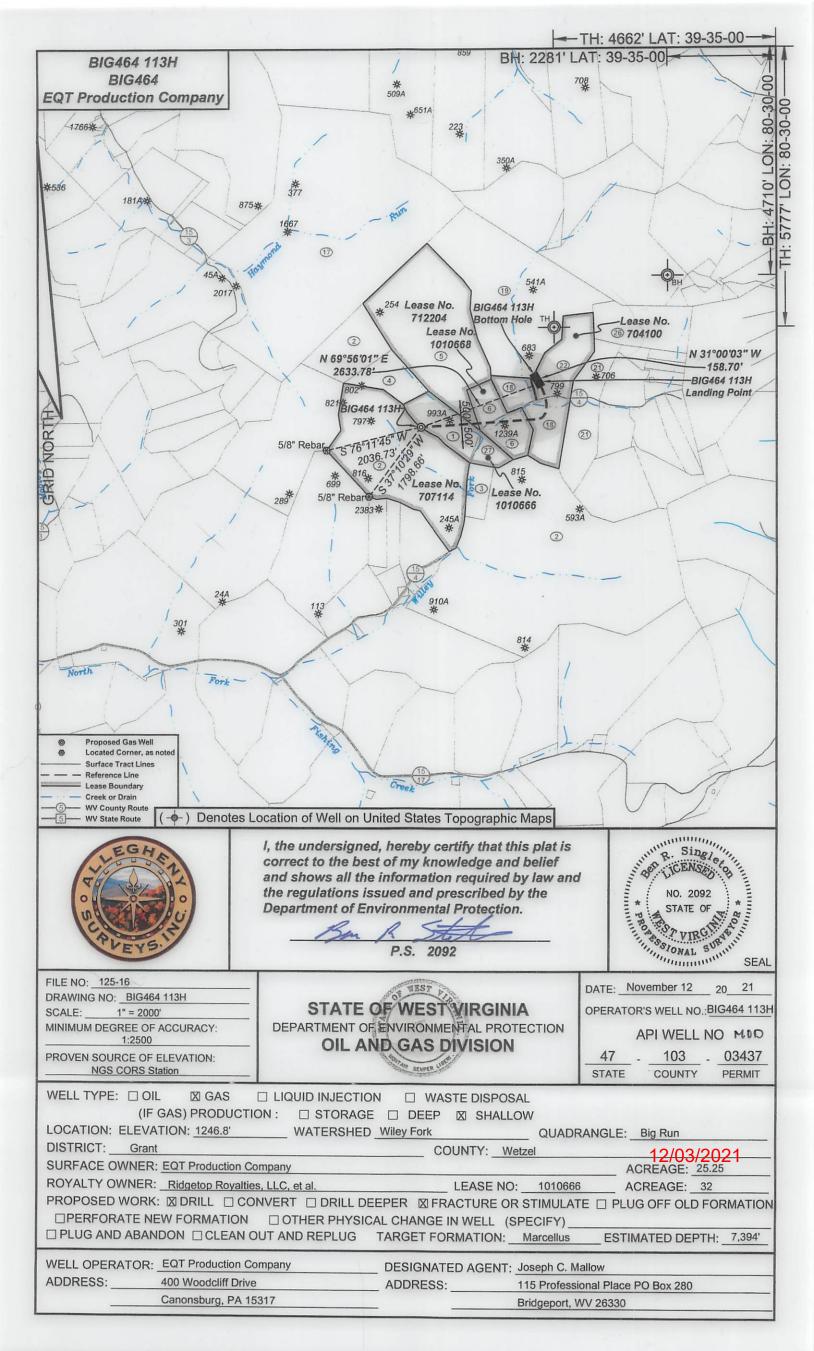
EQT will provide information relating to the hydraulic fracturing schedule, communication with other operators, and ongoing monitoring of the work upon request of OOG or immediately in the event of any noted abnormalities.

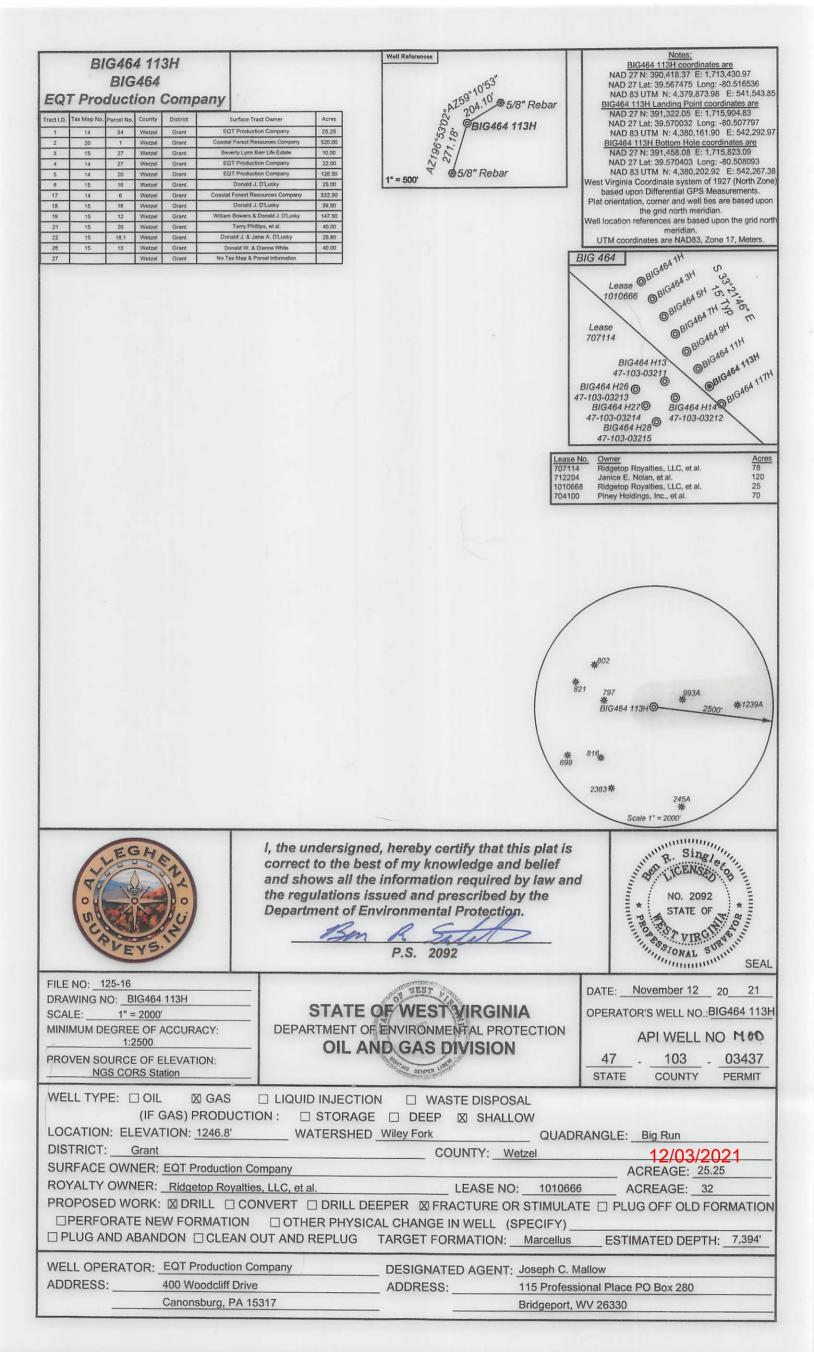
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12/03/2021



									OPER MANE	STUD_DATS ELEV	ATION TOT_	осяти тур	
UWA	AZANO_DATE	ACT_STATUS	CURR_OPER	0.(v_w_co	FML_CLASS	FILLSTAT GAS	MAT_CLASS	LATITUDE LONGITUDE	40.51467136 BOT PRODUCTION CO	12/14/2017	100.00	30,010 100	7112.00
203315		Completed Wells	EQT PRODUCTION CD	CR 13	DEVELOPMENT WELL-GAS	645	DEVELOPMENT WELL	10.52763610	40.5MAINED LET PRODUCTION CD	12/26/2017	1284.00	34432.00	7494.00
303234		Completed Wells	STI MODULTON CO	ä	CEVELOWERI WELL-GAS	645	DEVELOPMENT WELL	19.56745200	40.53443300 EQT PRODUCTION CO	12/34/2017	1334 00	16223.00	7555.00
301211		Contractional Wedle	KOT PRODUCTION CD		DEVELOPMENT WELL-GAS	GAS	DEVELOPMENT WELL	33.56743440	-E0.51665110 EQT PRODUCTION CO	12/36/2017	1334.00	15014.00	7564.00
302213		Completed Wells	EQT PRODUCTION CO	K.B.	DEVELOPMENT WELL-GAS	GAS	DEVELOPMENT WELL	89.56746800	-83.51672609 EQT PRODUCTION CO	32/16/2017	1364.00	12453.00	7560.00
301783		Completed Wells/WHCS	ALLIANCE PETROLEUMI CO LLC	CA	DEVELOPMENT WELL-GAS	643	DEVELOPMENT WELL	19.40263680	40.53871943 DAC CORP	8/14/1999	1110.00	1423.00 2495.00	6.00
301961		Completed Wells/MMCS	KTO DICAST INC	CR .	DEVELOPMENT WELL-OIL	G K.	DEVELOPMENT WELL NEW POOL WEIDEAT	39 42517390 39 50246570	40.54241940 EXCELENCIAL INCOMP	e/31/2008 20/32/1996	1126.00	366.00	0.00
301769		Completed Wells/WHICS	ALLIANCE PETROLEVAN CO LLC	a	DEVELOPMENT WELL-GAS	643 643	NEW POOL WEDGAT	11.50530070	40.11913100 DAC COMP	20/20/1998	1265.00	1679.00	6.00
331768		Completed Web/MMCS	ALLIANCE PETROLEUM COLLC	04 05	DEVELOPMENT WELL-GAS	GAS	NEW ACLD WILDCAT	IN \$7905140	40 10143170 DAC CONF	9/20/2008	1547.00	3608.00	0.00
322197		Completed Wells Completed Wells/WHCS	ALLIANCE PETROLEUM CO LLC	ä	DEVELOPMENT WELL-GAS	945	DEVELOPMENT WELL	10.50641480	-80.54587880 DAC CORP	8/26/1999	1430 00	3544.00	0.00
301783		Completed Walk/WHCS	ALLIANCE PETROLEUM COLLC	ä	OLYTHOMACHT WELL-GAS	645	DEVELOPMENT WELL	39 60105200	-80 S4560100 DAC CORP	4/21/1990	1376.00	3555.00	0.00
301785		Completed Wells/WHCS	ALLIANCE PETROLEUM CO LLC	GR	DEVELOPMENT WELL-GAS	645	DEVELOPMENT WELL	39.39148190	-80 \$2668049 DAC CORP	\$/1/1999	1186.00	3154.00	800
300234		Completed Wells	BOT PRODUCTION CD	CA.	DEVELOPMENT WELL-GAS	GAS	DEVELOPMENT WELL	10 \$7477000	AD SINESHOD CANNEDE NATURAL GAS COMP	6/2/2943	1464.00	3449.00	8.00
330563	10/14/194	Completed Wells	LINENCOM	CR	DEVELOPMENT WELL GAS	ABD-OW	DEVELOPMENT WELL	16 5611900	-80,50542300 UNIXAVIII -80 54822200 EXCL LACKOV INC	¥24/1913 2/12/2009	1127.00	3438.00 1317 00	6.00
301796		Completed Wells/WHCS	XTO ENDION INC	CA .	DEVELOPMENT WELL-GAS	GAS GAS	DEVELOPMENT WELL	13 60306260 38 60047800	-80 Septimo Excel Excel Inchor Inc	\$/15/2000	1001.00	1317 00	0.00
301886		Completed Wells/WHCS	XTO ENERGY INC	04 08	DEVELOPMENT WELL-GAS	GAS DAAW	DEVELOPMENT DEEPENING	10.19421120	40.51546600 DAC CORP	\$72/2000	117.00	1007.00	400
301764		Completed Wells/WHCS	ALLIANCE PETROLEUM CORP		DEVELOPMENT WELL-DRY ENCLIDING TEMPORARLY ABANDONED WELL DEVELOPMENT WELL-GAS	ASC-OW	OFVELOPMENT WELL	10.56566702	43.51779730 PITTERUNCH & W VA GAS	\$11971313	1433.00	3297.00	6.00
130651		Completed Wells Completed Wells	HOPE MATURAN & W VA GAS		CERTIFICATI WELL-GAS	40-0W	CEVELOPMENT WELL	10.30400730	40 SAMIFICO HOME MATURAL GAS	32/21/1915	1336.00	3294.00	0.00
330633	1/194	Completed Wells/MMCS	ALLANCE PETROLEUM COLLC	ă.	DIVISIONER WILL GAS	645	DELPER POOL WEDGAT	10.96785180	-40.53803360 DAC COMP	30/36/1988	864.00	1264.00	6.00
302395		Completed Wells	ALLIANCE PETROLEUM COLLC	æ	DEVELOPMENT WELL-GAS	GAS	DEVELOPMENT WELL	29.56843430	-80 90196 900 D A C OIL COMP	10/8/2008	3064.00	1262.00	0.00
30(97)	s/19/2019	5 Completed Walls	EQT PRODUCTION CO	GR	DEVELOPMENT WELL-GAS	ABD-OW	DEVELOPMENT WELL	19.56442100	-80.51521500 PITTSBURGH & WVA GAS	3/9/1939	1144 00	2220.00	0.00
300377		Completed Wells/WHCS	ANIA RESOURCES	CR.	DEVELOPMENT WELL-DRY (NELUCING TEMPORARLY ABANDONED WELL)	CAAG	DEVELOPMENT WELL	19 58360830	-80 SZS45800 EAGON ROBINSON OL & GAS	20/12/1951	1035.00	3197.00	660
100500		Completed Walls	EQT PRODUCTION CD		DEVELOPMENT WELL-GAS	645	DEVELOPMENT WELL	BR 36446300	-BO SZ285520 CONSOLIDATED GAS SUPPLY CORP	\$/10/2923	6.60	2354 00	
301790		Completed Wells/WHCS	ALLIANCE PETROLEUM CO LLC	a	DEVELOPMENT WELL-GAS	643	DEVELOPMENT WELL	10 50000000 10 507/2100	-80 \$81,28300 DAC COMP -80 \$1878600 DUNIN-MAR OIL & GAS CO	2/27/1929	1142 00	3136-00	200
130909	11/2/194	5 Completed Weeks	DUNNIAMA ON & GAS CO	at .	DEVELOPMENT WELL-GAS	480-0W	DEVELOPMENT WELL	39.52(2710)	40 SOLIDED DOMESSION OF A GAS	5/17/1917	171.00	1001.00	6.00
\$03708		Completed Wells	ROSS & WHARTON GAS CO	04 05	DEVELOPMENT WELL-GAS DEVELOPMENT WELL-GAS	641	DEVELOPMENT WELL	20.5695230	40 SOTOSSED CARNEDE NATURAL GAS COMP	11/24/1990	1000.00	3086 00	6.00
300799		Completed Wells 4 Completed Wells	EQT PRODUCTION CO PITTURINGN & W VA GAS	68	DEVELOPMENT WELL-GAS	MD-GW	DEVELOPMENT WELL	30 30119400	40 S28768CO PITTSAURCH & WYA GAS	5/14/1916	1120.00	1073.00	6.60
1007.00		5 Completed Wells	ENTROPIE TO A GO	ä	DIVITIONALITI WELL-GAS	ALD-OW	DEVELOPMENT WELL	10 15053130	-02 50056200 UNICHOWN	1/30/1943	1171 00	3066.00	600
13099		3 Completed Wells	CARNEDIE NATURAL GAS CORP	ã	DEVELOPMENT WELL-GAS	A30-0W	CEVELOPMENT WELL	38.55794800	40 53423530 CARREGIE NATURAL GAS CORP	\$/14/1911	1131.00	3004 00	6.60
100245		7 Completed Wells	CANNEDE MATURAL GAS COMP	a	DEVELOPMENT WELL GAS	ABC-OW	DEVELOPMENT WELL	19.36125300	40 S1423820 CARNEON NATURAL GAS CORP	7/10/1932	1040.00	2908-00	800
100110		Completed Wells	HOPE MATURAL GAS	64	DEVELOPMENT WELL-GAS	A80-0W	DEVELOPMENT WELL	19.56260800	40.51067800 HOPE NATURAL GAS	18010101	1427.00	2573.00	0.00
300456		Completed Walls	ALLIANCE PETROLEUM CO LLC	GR	DEVELOPMENT WELL-GAS	GAS	DEVELOPMENT WELL	38.19772603	40.53753300 UNIXIOWN	2/1/1958	1295.00	2505.00	600
301784		Completed Wells/WHCS	ALLIANCE PETROLEUM CORP	64	DEVELOPMENT WELL-GAS	GAS	DEVELOPMENT WELL	20.58438320	40.54222910 HOME NATURAL GAS	7/21/2999	937.00	2364.00 2213.00	6.00
330346		5 Completed Walk	HOPE MATURAL GAS	CR	DEVELOPMENT WELL-GAS	ABC-OW ABC-OW	DEVELOPMENT WELL	29.58379500 38.57651200	40.531.54700 HOME RATURAL GAS	19010101	800	2144.00	6.00
330345) Completed Wells	HOPE NATURAL GAS	a	DEVELOPMENT WELL-GAS. DEVELOPMENT WELL-GAS.	ABD-OW	DEVELOPMENT WELL	10 40023600	AD SAMPLED REFERENCES WYA GAS	6/22/1930	ane 00	1944.00	6.00
130237	2/2/193	1 Completed Wells	PITTSBURGH & WYA GAS EDT PRODUCTION CO	04. GR	DEVELOPMENT WELL-GAS	645	DEVELOPMENT WELL	10 10240000	-89 S12784LD CONSOLIDATED GAS SUMPLY CORP	W11/1913	880.00	1927 00	0.00
300717		Completed Wells	CARNEDUCTION CO	ŭ.	DEVELOPMENT WELL-GAS	40-04	DEVELOPMENT WELL	31.36313900	40 SOS43300 CARNEDIE NATURAL GAS CORP	12/9/2920	1527.00	1887.00	0.00
330393	10/14/194	7 Completed Wells Completed Wells	FOT MEDIUCTION CO	~	DEVELOPMENT WELL-GAS	645	DEVELOPMENT WELL	29.56446500	40 SZ285510 CONSOLIDATED GAS SUPPLY CORP	4/1/1916	0.00	1747 00	6.00
300243		Completed Walls	HOPE NATURAL GAS	GR	UNCLASSING	DEA	DEVELOPMENT WELL	30.5773£300	-80 S1180200 HOPE NATURAL GAS	10/2/1940	1272 00	1018.00	600
10001		Completed Web/WHCS	DYNATEC ENERGY INC	GR.	DEVELOPMENT WELL-GAS	GAS-CB	DEVELOPMENT WELL	30 57622540	40 STORIZZO DYNATEC DNERGY INC	12/30/2003	948.00	711.00	0.00
100643	W12/198	6 Completed Walls	CONSOLIDATED GAS SUPPLY CORP.		PSEUDO-ORIGINAL WELL - UNKNOWN CLASS	98000	PSEUDO-ONIGIRAL WELL - LINKNOWN CLASS	10 57157700	40 SOF 36 TOD CONSCUDATED GAS SUPPLY COMP	MODERCE	800	6.00	0.00
100797		Completed Wells	LOT PRODUCTION CO		PSEUCO-ORIGINAL WELL - UNIXNOWN CLASS	PEUDO	PSEUDO-ORIGINAL WELL - UNKNOWN CLASS	39 56780300	-80 \$2004900 CARNEDE NATURAL GAS CORP	\$8010103	6.00 6.00	6.00	600
100802		Completed Wells	EQUITABLE PRODUCTION CO		PSEUDO-ORGINAL WELL - UNKNOWN CLASS	PLEUDO	PSEUDO-ORGINAL WELL - UNKNOWN CLASS	29 26963303	-80.52079400 CARNEOIE KATURAL GAS COMP JO 50055400 CARNEOIE KATURAL GAS COMP	18010101	0.00	0.00	0.00
300614		Completed Wells	EQUITABLE PRODUCTION CO		PSEUDO-ORIGINAL WELL - UNKNOWN CLASS	PSEUDO	PSEUDO-ORIGINAL WELL - UNKNOWN CLASS PSEUDO-ORIGINAL WELL - UNKNOWN CLASS	20.044.200	40 SOLOSOD CANNEDE RATURAL GAS COMP	18010101	800	600	6.00
300835		Completed Wells	EQT PRODUCTION CO		PSEUDO-CHECHNAL WELL - UNICHOWN CLASS PSEUDO-CHECHNAL WELL - UNICHOWN CLASS	PSEUGO	PSEUCO-ORGINAL WELL - UNKNOWN CLASS	10 54455773	40.9224900 CANNERS NATURAL GAS COMP	10027101	600	6.00	0.00
300817		Completed Wells 7 Completed Wells	CARRIED KATURA GAS CORP		PSCUDO-ORGINAL WELL - LINKNOWN CLASS	PMUCO	PERUDO-OMIGINAL WILL - UNKNOWN CLASS	10.5661700	-80 32330300 CARRENT HATURAL GAS COMP	18010301	000	000	8.00
100110	10//200	7 Completed Walts	PRIADELMAA CE.		PSEUDO-ONIGINAL WELL - LINK NOWN CLASS	PLEVEO	PSEUCO-ORIGINAL WELL - UNKNOWN CLASS	10.58958600	-80.51330200 PHILADELPHIA CH	1.01.0201	000	6.00	0.00
300875	a 14 199	Completed Wells	DOT PRODUCTION CO		PSEUDO-ONGINAL WELL - UNKNOWN CLASS	PSEUDO	PSEUDO-ORIGINAL WELL - UNKNOWN CLASS	39.56057600	-80 \$2822500 PHILADELPHIA OIL	28010202	0.00	6.60	0.00
301647		Completed Walk/WHCS	ANSA RESOURCES	6G	PSCUDO-ORIZINAL WELL - UNKNOWN CLASS	PSEUDO	PSEUDO-ORIGINAL WELL - UNKNOWN CLASS	39.57919050	-80 \$2717940	18010101	1066.00	000	6.00
323260		formit	EQT PRODUCTION CO	CR .		PERMIT	DEVELOPMENT WELL	39 56752603	40 S1667800 EQT PRODUCTION CD		1247.00	8.00	6.00
323270		Permit	EQT PRODUCTION CO	68		PERMIT	DEVELOPMENT WELL	19 56752000 39 59306100	40 S1475500 EQT PRODUCTION CO 40 S1422100 HOPE NATURAL GAS	1000000	1247.00	c cco 9 cco	6.00
330444	\$/4/294	3 Completed Wells	HOPE MATURAL GAS		PSEUDO-ONGINAL WELL - UNKNOWN CLASS	PSEUDO LINEWN	PSEUDO-OMOMAL WELL - UNKNOWN CLASS UNCLASSIFIED	10 10 10 10 10	-40,5040500 UNKNOWN	16010101	000	800	0.00
330541		6 Completed Wells	CONSCRIPTION GAS SUPPLY CORP.		UNCLASSING	LINCOM	UNCLASSINCE	19.16755820	40.51011600 CONSCUDATED GAS SUPPLY CORP	2/21/1911	0.00	0.00	0.00
83 12 19	1/5/197	3 Completed Wells	CONSCUDATED GAS SUPPLY CORP HOPE MATURAL GAS		PSEUDO-ORIGNAL WELL - UNITROWN CLASS	PSCUBO	PSEUDO-ONIGINAL WELL - UNKNOWN CLASS	10.57970503	40.52641500 HOPE NATURAL GAS	18010101	0.00	6.00	0.00
370210		Completed Wells Completed Wells	HOME MATURAL GAS		UNCLASSIFIED	LINCOM	UNCLASSINGD	19.57652900	40.52080700 HOPE NATURAL GAS	6/6/1100	6.00	600	8.00
370812		Completed Wells	L Sector Sector		UNCLASSIFICD	UNEWR	UNCLASSING	10 57043600	-83.49973500 UNICHOWN	10020101	6.00	0.00	0.00
3706.15		Completed Wells	UNICACIONAL		UNCLISSING		UNCLASSING	30.5464600	-40.40617603 UNICHOWN	19010101	600	000	600
371923		Completed Wells	UNINOWN		UNCLASSING	UNICHIN	CONCLASSING	10.50539190	-80.51948300 UNIXNOWN	10010101	6.00	000	6.00
372929		Completed Wells	HOPE RATURAL GAS		UNCLASSIFICD	UNICAN	UNCLASSIFICD	39.60119700	-80 S3166000 HOPE HATURAL GAS			0 00	0.00
372932		Completed Wells	NOPE NATURAL GAS		UNCLASSIFICD	UNIXWI	UNCLASSIFICD	39 40308400 39 38364990	40.54046200 HOPE NATURALGAS 40.53540730 HOPE NATURALGAS	19010103	000	000	6.00
271913		Completed Walls	HOPE NATURAL GAS		UNCLASSING UNCLASSING		UNCLASSING	10 10 10 10	40 \$2315900 Lawbowk	LICEOLOSCI	600	600	6.00
372048		Completed Wells Completed Wells	LINENCYCH HOPE HATURAL GAS		CONTRACTOR CONTRACTOR	UNITARI	UNCLASSING	10 18753400	40 12166500 HOPE RATURAL GAS	18010001	0.00	0.00	6.00
\$72070		Completed Walls	LINEACOURT		UNCLASSING	UNICIPAL	UNCLASHING	39 SE971100	-80 \$2210800 UNKNOWN	10310103	0.00	0.00	0.00
372074		Completed Wells	LINENOWN		UNCLASSIFICE	UNKWA	UNCLASSINGD	30 56275290	-80.51346800 UNKNOWN	1010101	0.00	0.00	0.00
372077		Completed Wells	HOPE NATURAL GAS		UNICLASSIFICD	UNIXAN	UNCLASSIFICD	19 57665700	-80 SOLIOPID HOPE HATURAL GAS	19010101	0.00	0.00	0.00
372079		Completed Wells	UKINOWN		UNCLASSIFIED	UNICHIN	UNCLASSIFICD	29 55592103	-83.90149903 UNICHOWN	18010101	6.00	600	0.00
372080		Completed Wells	CARNEDIE RATURAL GAS CORP		UNCLASSIFIED	CONTINUES OF	UNCLASSAED	19 36966000	-80 S0710600 CANNEDE NATURAL CAS COMP	18010203	600	6.00	600
373061		Completed Webs	HOPE RATURAL GAS		UNCLASSING		CIRIERALIZIEU CIRIERALIZIEU	29.57027200	-80 51573600 HOPE KATURAL GAS -80.52510300 UNKINOWN	18010101	6.00	000	8.00
373063		Completed Wells	UNICHOWN		UNICASIMUS		UNCLASSING DIRECT	39.57157703	-BO-SZSECIOD UNICADIWA -BO-SZSECIOD HOPE NATURALGAS	18010203	6.00	000	0.00
373084		Completed Wells	HOPE NATURAL GAS		UNDLASSRIED UNDLASSRIED	UNCON	UNCLASSIFIC	19.56417520	-40.51573400 UNIXNOWN	19010101	0.00	800	0.00
372089		Completed Wells	UNKNOWN HOPE NATURAL GAS		UNCLASSING	UNIXWA	UNCLASSIFICO	10 5444-200	40 SOSCIADO HOME RATURAL GAS	18030103	600	0.00	6.00
372303		Completed Wolls Completed Wolls	LINEROWN		UNCASHIO	UNKIWN	UNCLASSIFICO	10 16112700	-80 \$1422220 UNKNOWN	1000000	0.00	0.00	0.00
17208		Completed Viels	LINCOLONIN		UNCLASSIFICD	UNICOM	UNCLASSICO	39 55764420	-40 \$1105300 UNINOWN	18010108	000	0.00	6.00
372380		Companies Trats	UNICACIÓN		LINCLASSINCD	UNITAR	UNCLASSIFICD	19 15241900	-80 SOB43000 LINKNOWN	18010105	000	0.00	0.00
LATERAL									540 DATE	ELEVATION TOT	DEFEN TYP	WILL NAM	-
UNA	ACT_STATUS	BN_STATUS	CURA_OPER	U.U. M. CD	INILCLASS	NET_CLASS DEVELOPMENT WELL	LATITUDE	LONGITUDE OPER_JUMA 39.55563000 40 52162000 EQT PRODU		1/20/2013 941 00	DEPTH TYD 30761 00	W(LL_)600 7117.00 WV 511423	
47 103036 170000	Completed Walks	P8-4	EQT PRODUCTION CO		DEVELOPMENT WELL-GAS	Destination and the		#.1181.00					





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

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

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

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

See Attachment

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	-DocuSigned by:
By:	John Zavatchan	John Zavatchan Jr
Its:	Project Specialist - Permitting	0D4C96A60D4649E

Page 1 of 5

12/03/2021

WW-6A1 attachment	iment		Operator's Well No.	BI	BIG464 113H
Lease No.	Grantor, Lessor, etc.		Grantee, Lessee, etc.	Royalty	Book/Page
1010666	<u>Ridgetop Royalties, LLC, et al.</u> Ridgetop Royalties, LLC	32 ac	EQT Production Company	"at least 1/8th per WV Code 22-6-8"	OG 166A/638
707114	Ridgetop Royalties, LLC, et al. W. S. Furbee and Mary Furbee, his wife Carnegie Natural Gas Company Carnegie Production Company	78 ac	Carnegie Natural Gas Company Carnegie Production Company EQT Production Company	"at least 1/8th per WV Code 22-6-8"	OG 2A/182 OG 78A/513 WV SOS
712204	<u>Janice E. Nolan, et al.</u> T. J. Glover, single, and Daniel Glover, single Carnegie Natural Gas Company Carnegie Production Company	120 ac	Carnegie Natural Gas Company Carnegie Production Company EQT Production Company	"at least 1/8th per WV Code 22-6-8"	OG 19A/380 OG 78A/513 WV SOS
<u>1010668</u>	<u>Ridgetop Royalties, LLC et al.</u> Ridgetop Royalties, LLC	25 ac	EQT Production Company	"at least 1/8th per WV Code 22-6-8"	OG 248A/272
704100	Piney Holdings, Inc., et al. B. C. Merrifield and J. M. V. Merrifield, her husband J. E. Carnahan and H. L. Smith Carnegie Natural Gas Company Carnegie Production Company	70 ac	 J. E. Carnahan and H. L. Smith Carnegie Natural Gas Company Carnegie Production Company EQT Production Company 	"at least 1/8th per WV Code 22-6-8"	DB 96/349 DB 96/349 OG 78A/513 WV SOS

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Business Entity Details

Main

Name: EQT PRODUC	TION COMPANY		Organization Nun	nber: 199814
Type: C	Sec Type:	City: PITTSBURGH	Class: P	Ch Type: F
Eff Date: 4/19/2001	Fil Date: 4/19/2001	Term Date:	Term Reason:	AW/Term:
CH County:	Ch State: PA	Bus Purp: 2111	Ex Acres:	Term Yrs:
Auth Shrs:	Cap Stck:	Status: Active	Par Val:	MGMT:

Addresses

Principal Office Address:	Name:	Addr1: 625 LIBERTY AVENUE	Addr2: SUITE 1700	City: PITTSBURGH	State: PA	Zip: 15222
Local Office Address:	Name:	Addr1: CT CORPORATION SYSTEM	Addr2: 1627 QUARRIER STREET	City: CHARLESTON	State: WV	Zip: 25311
Notice of Process Address:	Name: C T CORPORATION SYSTEM	Addr1: 5098 WASHINGTON ST W STE 407	Addr2:	City: CHARLESTON	State: WV	Zip: 253131561
Mailing Address:	Name:	Addr1: 625 LIBERTY AVENUE	Addr2: SUITE 1700	City: PITTSBURGH	State: PA	Zip: 15222
Mailing Address:	Name:	Addr1: PO BOX 2347	Addr2:	City: CHARLESTON	State: WV	Zip: 25328

Officers

President:	Name: TOBY Z. RICE	Addr1: 625 LIBERTY AVENUE, SUITE 1700	Addr2:	City: PITTSBURGH	State: PA	Zip: 15222
Vice- President:	Name: J.E.B. BOLEN	Addr1: 625 LIBERTY AVENUE, SUITE 1700	Addr2:	City: PITTSBURGH	State: PA	Zip: 15222
Secretary:	Name: TIMOTHY C. LULICH	Addr1: 625 LIBERTY AVENUE, SUITE 1700	Addr2:	City: PITTSBURGH	State: PA	Zip [.] 15
Treasurer:	Name: DANIEL A. GREENBLATT	Addr1: 625 LIBERTY AVENUE	Addr2: SUITE 1700	City: PITTSBURGH	State: PA	Zij Privacy - Terms 15zzz

https://apps.wv.gov/SOS/BusinessEntitySearch/Details.aspx?ld=De5l/l6+y9QSZH8VxjKjOw==&Search=8M4Do8vtjFxi8pfClH4igGp08Lxzg sb/s702... 1/4

WV Secretary of State Business Entity Search

Director:	Name: TOBY Z. RICE	Addr1: 625 LIBERTY AVENUE	Addr2: SUITE 1700	City: PITTSBURGH	State: PA	Zip: 15222
Director:	Name: DAVID M. KHANI	Addr1: 625 LIBERTY AVENUE		City: PITTSBURGH	State: PA	Zip: 15222

DBAs

Eff Date	DBA Type	DBA Name	Term Date
4/9/2009	TN	EQUITABLE PRODUCTION COMPANY	
4/9/2009	TN	CARNEGIE PRODUCTION COMPANY	
4/9/2009	TN	EASTERN STATES OIL & GAS INC.	
4/9/2009	TN	EQUITABLE RESOURCES ENERGY COMPANY	

Names

Change Date	Old Name
4/3/2009	EQUITABLE PRODUCTION COMPANY

Mergers

Merger Date	Merged	Mer St/Prov	Survived	Surv St/Prov
11/8/2011	APPALACHIAN NATURAL GAS TRUST	PA	EQT PRODUCTION COMPANY	PA
6/28/2001	EQUITABLE PRODUCTION - EASTERN STATES, INC.	DE	EQUITABLE PRODUCTION COMPANY	PA
4/19/2001	EQUITABLE PRODUCTION COMPANY	WV	EQUITABLE PRODUCTION COMPANY	PA

Subsidiaries

No Records Found.

Amendments

Amendment Date	Amendment	
11/8/2011	MERGER: MERGING APPALACHIAN NATURAL GAS TRUST, A QUALIFIED PA BUSINESS TRUST WITH AND INTO EQT PRODUCTION COMPANY , A QUALIFIED PA CORPORATION	Privacy - Terms

	THE SURVIVOR
4/3/2009	NAME CHANGE: FROM EQUITABLE PRODUCTION COMPANY
6/28/2001	MERGER: MERGING EQUITABLE PRODUCTION - EASTERN STATES, INC., A QUALIFIED DE CORPORATION WITH AND INTO EQUITABLE PRODUCTION COMPANY, A QUALIFIED PA CORPORATION, THE SURVIVOR
4/19/2001	MERGER: MERGING EQUITABLE PRODUCTION COMPANY, A QUALIFIED WV CORPORATION WITH AND INTO EQUITABLE PRODUCTION COMPANY, A QUALIFIED PA CORPORATION, THE SURVIVOR

Dissolutions

No Records Found.

Annual Reports

Filing For	Date Filed
20170	7/12/2016
2021	9/21/2021
2020	6/30/2020
2019	6/30/2019
2018	6/29/2018
2017	6/29/2017
2016	6/26/2015
2015	6/27/2014
2014	6/27/2013
2013	6/28/2012
2012	6/30/2011
2011	6/24/2010
2010	7/13/2009
2009	8/5/2008
2008	11/13/2007
2007	9/7/2006
2006	9/20/2005
2005	9/23/2004
2004	4/1/2004
2003	5/21/2003

Privacy - Terms



Stansberry, Wade A <wade.a.stansberry@wv.gov>

Modification Horizontal H6A Well Work Permit (API: 47-103-03437)

1 message

Stansberry, Wade A <wade.a.stansberry@wv.gov>

Tue, Nov 30, 2021 at 2:36 PM To: John <JZavatchan@eqt.com>, Todd <tklaner@eqt.com>, Erin Spine <espine@eqt.com>, "Shrum, Becky" <bshrum@eqt.com>, Olivia Pishioneri <opishioneri@eqt.com>, "Harris, Bryan O" <bryan.o.harris@wv.gov>, Scott Lemley <slemley@wvassessor.com>

Corrected Subject Line

I have attached a copy of the newly issued well permit numbers:

47-103-03437 - BIG464 113H

This will serve as your copy.

If you have any questions, then please contact us here at the Office of Oil and Gas.

Thank you,

Wade A. Stansberry

Environmental Resource Specialist 3

West Virginia Department of Environmental Protection

Office of Oil & Gas

601 57th St. SE

Charleston, WV 25304

(304) 926-0499 ext. 41115

(304) 926-0452 fax

Wade.A.Stansberry@wv.gov

47-103-03437 - mod.pdf 3158K 7-