

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, June 13, 2017 WELL WORK PERMIT Horizontal 6A / New Drill

EQT PRODUCTION COMPANY (A) 120 PROFESSIONAL PLACE BUILDING II BRIDGEPORT, WV 26330

Re: Permit approval for GLO 168H2

47-049-02434-00-00

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

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

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

James A. Martin

Chief

Operator's Well Number: GLO 168H2

Farm Name: EQUITRANS LP

U.S. WELL NUMBER: 47-049-02434-00-00

Horizontal 6A / New Drill

Date Issued: 6/13/2017

Promoting a healthy environment.

PERMIT CONDITION'S 0 4 9 0 2 4 3 4

West Virginia Code § 22-6A-8(d) allows the Office of Oil and Gas to place specific conditions upon this permit. Permit conditions have the same effect as law. Failure to adhere to the specified permit conditions may result in enforcement action.

CONDITIONS

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

API	Number:	

PERMIT CONDITIONS
470 4902434

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 new including the pad completion 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)

API NO. 47-049 -	
OPERATOR WELL NO. GLO168H2	-
Well Pad Name: GLO168	-

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

1) Well Operator: EQT Pro	duction Company		Marion	Manning	Glover Gap
2) Operator's Well Number:	GLO168H2	Operator ID Well Pa	County ad Name: GLO	District	Quadrangle
3) Farm Name/Surface Owner	Equitrans, LP.		ad Access: Co		
4) Elevation, current ground: 5) Well Type (a) Gas X Other	1357 Ele	evation, proposed	post-construc	tion: 1316	
	nallow X	Deep			- >0.1
6) Existing Pad: Yes or No No	orizontal X				3/2/2017
			_		31212017
 Proposed Target Formation Marcellus, 7722, 53', 2593 P. 	s), Depth(s), Anticip	oated Thickness a	and Expected F	ressure(s):	
			17A	1 8 6	
) Proposed Total Vertical Dep) Formation at Total Vertical I			7/045	0243	1.
0) Proposed Total Measured [
1) Proposed Horizontal Leg L					
2) Approximate Fresh Water S	Strata Depths:	369			
3) Method to Determine Fresh	Water Depths: By	offset wells			
4) Approximate Saltwater Dep	ths: 1850				
Approximate Coal Seam De	pths: 513, 667, 93	5, 1032			
Approximate Pepth to Possi	ble Void (coal mina	Irount all a	one		
			one		
A Doze Desage Day					
LCCTV UVETTVING Oradiacent to	men				
CCTTV UVETTVING or adjacent to	men	Yes X	No No		
CCTV UVETTVING or adjacent to	men		No		
LECTIV UVETIVING OF adjacent to	men	Yes X	No		
Does Proposed Well location feetly overlying or adjacent to	men	Yes X n County Mine	No		

WW-6B	
(04/15)	

API NO. 47- 049 - 02434

OPERATOR WELL NO. GLO165H2

Well Pad Name: GLO165

(8)

CASING AND TUBING PROGRAM

	Many					
Size (in)	or Used	<u>Grade</u>	Weight per ft. (lb/ft)	FOOTAGE: For Drilling (ft)	Left in Well	CEMENT: Fill-up (Cu. Ft.)/CTS
20	New	A-500	78.6	40		60 ft^3 / CTS
13 3/8	New	J-55	54.5	440		
				713	449	417 ft^3 / CTS
9 5/8	New	A-500	40	3000	2000	
5 1/2	Nous				3090	1225 ft^3 / CTS
	IVEW	P-110	20	13689	13689	SCO' allowe top procuring some
2 3/8		J-55	4.7			
					share tup perfect \$5 inclination	
	20 13 3/8	(in) Used 20 New 13 3/8 New 9 5/8 New 5 1/2 New	Or Grade Used	Or (in) Or Used Grade (1b/ft) Weight per ft. (1b/ft) 20 New A-500 78.6 13 3/8 New J-55 54.5 9 5/8 New A-500 40 5 1/2 New P-110 20	Size (in) or Used Grade (lb/ft) Weight per ft. (lb/ft) FOOTAGE: For Drilling (ft) 20 New A-500 78.6 40 13 3/8 New J-55 54.5 449 9 5/8 New A-500 40 3090 5 1/2 New P-110 20 13689	Size (in) Or Used Grade (lb/ft) Weight per ft. (lb/ft) FOOTAGE: For Drilling (ft) INTERVALS: Left in Well (ft) 20 New A-500 78.6 40 40 13 3/8 New J-55 54.5 449 449 9 5/8 New A-500 40 3090 3090 5 1/2 New P-110 20 13689 13689 2 3/8 J-55 4.7 New policy im, firm act 40

5DW 619/2017

TYPE	Size (in)	Wellbore Diameter (in)	<u>Wall</u> <u>Thickness</u> (in)	Burst Pressure	Anticipated Max. Internal Pressure (psi)	Cement Type	Cement Yield
Conductor	20	26	.375	1378	1102	Class A	(cu. ft./k)
Fresh Water	13 3/8	17 1/2	.38	2700	2160		
Coal				2700	2160	See Variance	1.19
Intermediate	9 5/8	12 3/8	.395	3950	3160	Class A	4
Production	5 1/2	8 1/2	.361	12640		Class A	
Tubing	2 3/8	NA	.19	7700	10112	Class A/H	1.123/2.098
Liners				7100			

PACKERS

Kind:		
Sizes:		
Depths Set:		
L		

Page 2 of 3

WW-6B
(10/14)

API NO. 47- <u>049</u>	
OPERATOR WELL	NO. GLO168H2
Well Pad Name:	GLO168

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 5130'. Kick off and drill curve. Drill the lateral in the Marcellus. Cement casing.

4704902434

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 250,000 gallons of water per stage. Sand sizes vary from 100 mesh to 20/40 mesh. Average approximately 250,000 pounds of proppant per stage.

- 21) Total Area to be disturbed, including roads, stockpile area, pits, etc., (acres): 66.70
- 22) Area to be disturbed for well pad only, less access road (acres): 6.40
- 23) Describe centralizer placement for each casing string:
- Surface: Bow spring centralizers One at the shoe and one spaced every 500'.
- Intermediate: Bow spring centralizers- One cent at the shoe and one spaced every 500'.
- Production: One solid body cent spaced every joint from production casing shoe to KOP

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

Surface (Type 1 Cement): 0-3% Calcium Chloride. Used to speed the setting of cement slurries, .25% Flake Loss Circulation Material (LCM)
Intermediate (Class H Cement): 0-3% Calcium Chloride. Used to speed the setting of cement slurries. 0.25% flake. Loss Circulation Material (LCM) .6% Super FL-300 (fluid loss/lengthens thickening time)

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 (Retarder). Lengthens thickening time. .3% Super FL-200 (fluid loss) .2% SEC-10 (Fluid loss) .2% SuperFL-350 (fluid loss) Reduces amount of water lost to formation. 60 % Calcuim Carbonate. Acid solubility.

25) Proposed borehole conditioning procedures:

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

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

*Note: Attach additional sheets as needed

Received Office of Oil & Gas

Gas Office of Oil & Received Well GLO168H2 V **EQT Production** O Glover Gap Quad Azimuth 157 0 Marion County, WV Vertical Section 4652 H Note: Diagram is not to scale Base Top Casing and Cementing Deepest Fresh Water: 369 **Formations** TVD TVD Type Conductor Surface Intermediate Production Conductor 40 Hole Size. In. 26 17 1/2 12 3/8 8 1/2 Casing Size, OD In. 20 13 3/8 9 5/8 Base Fresh Water 5 1/2 369 Casing Wall Thickness, In. 0.375 0.380 0.395 0.361 Depth, MD 40' 449' 3.090 13,689 Surface Casing 449 Weight 78.6# 54.5# 40# 20# Grade A-500 J-55 A-500 P-110 New or Used New New New New Maxton 2248 -2327 Burst (psi) 1378 2,700 3,950 12,640 **Big Lime** 2382 - 2495 Cement Class A A / Type 1 Н A/H Big Injun 2542 - 2660 Cement Yield 1.18 1.19 1.07 1.123 / 2.098 Weir 2784 - 2896 Top of Cement (Planned) Gantz 2990 - 3040 Surface Surface Surface 500' above top Producing Zone Intermediate Casing 3090 Method Displacement Displacement Displacement Displacement Fifty foot 3128 - 3157 Est. Volume (cu ft) 60 417 1,225 Thirty foot 1.522 3212 - 3235 Calcium Chloride, Fluid Calcium Carbonate, Fluid Loss, Gordon 3269 - 3310 Loss, Defoamer, Dispersant Extender, Dispersent, Viscosifier. Forth Sand 3337 - 3392 Calcium Possible Additives N/A POZ, Bonding Agent, Defoamer, POZ, Bonding Agent. Bayard 3420 - 3462 Chloride Extender, Retarder, Retarder, Anti-Settling/Suspension Flake/LCM Agent Warren 3904 - 3994 Speechley 4086 - 4170 Balltown A 4459 - 4888 Riley 4950 - 5019 Benson 5542 - 5593 Alexander 5944 - 6014 KOP@ 5,130 Sonyea 7237 - 7392 Middlesex 7392 - 7448 Genesee 7448 - 7536 Geneseo 7536 - 7570 Tully 7570 - 7596 Hamilton 7596 - 7696 Marcellus 7696 - 7749 Production Casing 13689 MD Onondaga 7749 Land curve @ 7.722' TVD Est. TD @ 7,722 TVD 8,693' MD 13,689' MD Proposed Well Work: Drill and complete a new horizontal well in the Marcellus formation.

Drill the vertical to an approximate depth of 5130'.

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

4.996' Lateral

EQT Production

Hydraulic Fracturing Monitoring Plan

Pad ID: GLO168

Marion County, WV

12/21/16

Received
Office of Oil & Gas
FEB 2 4 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 Marion County, WV prior to hydraulic fracturing at the following EQT wells on GLO168 pad: GLO168H1, GLO168H2, GLO168H3, GLO168H4, GLO168H5, GLO168H6, GLO168H7, GLO168H16, GLO168H17, GLO168H18, GLO168H19, GLO168H20, GLO168H21.

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:

- 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.

Received
Office of Oil & Gas
FEB 24 2017

98610 0	ПИКИОМИ		JAOD NOITAGIJOZNOD SE24.08-	1752.95	ПИКМИ				
0 72327			80.4215 UNKNOWN	8702.95	DUKWA	85 0	CONSOLIDATION COAL	12/13/2008	00009861060027
92827 0			-80.4300 UNKNOWN	2512.9E		95 0	Пикиоми		47049723270000
· £2£27 0			-80.4382 UNKNOWN		ONKMA	я э о	ONKNOMN		00009787764074
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0500£ 65ZZ	HAMPSHIRE	DN	80.4388 HOPE CONSTRUCTION & REFINI	39.5215		1228 GR	YNA9MOD YJ99US QAAR	15/10/1848	41049306420000
3488 30034.	JRIHZYMAH		-80.4219 SOUTH PENN OIL		WOOGBA	1011 GR	HOPE CONSTRUCTION & REFINING	15/16/1931	00000500660020
0 01126			JAOS MILITAGINOS COAL	9767.65	WD-08A	1412 GR	JIO NN39 HTUO2	1261/67/2	47049300340000
0 01152				S905.6E	ПИКМИ	95 O	CONSOLIDATION COAL	6661//1/8	47049011260000
2002 01011			-80.4217 CONSOLIDATION COAL	£002.6£	NAKWA	95 O	CONSOLIDATION COAL	5/5/1999	47049011250000
3904 00300	1/2/1969 FIFTH SAND		80.4285 GREENRIDGE OIL	£602.6£	710	1550 GR	INVITATION ENERGY	0001/30/0	
0610 0	0.003112313 03017271		WA9MOD SAD SIBATIUDS E644.08	39.5207	5125	1548 GB	2\1\1969 EQUITABLE GAS COMPANY	5052 /02 /0	47049010170000
0 01939			WA9MOD SAD STRATTUDE E044.08	1812.95	5125	0 פצ		6961/81/8	4704900300000C
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0 00552	8\2\1953 GORDON		YNA9MOD SAD BJBATIUDE EPER.08	1412.65	5125	1316 GR	YNA9MOD SAD 3J8ATIUD3		47049019390000
0 00221	6/1/1951 GORDON		WAGMOD SAD BIBATIUDS (8E) OB-	8212.9E	5125		YNA9MOD SAD 318ATIUD3 E261/1/6		4104900225000C
0 00550	NOQ809 1561/2/5		YNA913 EQUITABLE GAS COMPANY	1412.95		1270 GR	YNAYMOD 2AD 3JBATIUD3 1261\1\\		47049002210000
71500 0	10/5/1950 GORDON		WAYNO EQUITABLE GAS COMPANY		5125	1318 GR	VNA9MOD ZAÐ 3JBATIUÐ3 1261/1/ð		47049002200000
0 00212	11/11950 GORDON			1212.65	อรรอ	AD 0751	YNA9MOD SAD 3JBATIUD3 0261\1\1		47049002170000
0 00511	1/30/1950 GORDON		YNA9MOD 243 3J8ATIUD3 88E4.08	29.5208	5125	1011 GR	12/1/1950 EQUITABLE GAS COMPANY		47049002120000
80200 0	NO0805 2561/2/7		WA448 EQUITABLE GAS COMPANY	0212.95	5120	1013 GR	3/1/1950 EQUITABLE GAS COMPANY	1/56/5008	
40500 0	NOG809 6361/2/2		YNA9MOD SAD 318ATIUD3 1844.08-	39.5195	อรรอ	1539 GR	8/1/1952 EQUITABLE GAS COMPANY	6002/5/11	47049002110000
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3214 00232	\0\$\ NU(N) 518 6461\2\\		YNA9MOD 2AD 3JBATIUD3 3044.08	0052.65	5125	1126 GR	EQUITABLE GAS COMPANY		47049002010000
	3RIH29MAH		YNA9MOD 245 BJBATIUD3 4224.08	1412.65	WD-08A	1166 GB	8/1/1949 EQUITABLE GAS COMPANY		47049002000000
2994 00223	JRIHZ9MAH		WA9MOD SAD BLANTINDS EEE ON	1812.9E	WD-G8A		FQUITABLE GAS COMPANY	1661/71/8	47049002350000
ZOZ O O O			WARNOD SAD BIRTINGS COMPANY	E615.6E		1158 GR	EQUITABLE GAS COMPANY	1861/52/8	4704900223000C
7302 00234	2/12/1954 HAMPSHIRE		WARRE GAS COMPANY		อารอ	95 0	YNA9MOD 2AD 3J8ATIUD3		4704900202000C
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3220 01009	1/2/1918 GORDON	ATTICITIZED TO	80.4252 SOUTH PENN OIL	95.5139	2AD	1599 GR	1/0/131/ 2001H PENN OIL		47049010200000
8990E 077E	2/23/1918 CHEMING		80.4455 EQUITABLE GAS COMPANY	29.5195	WD-G8A	1503 GR	2/8/1919 EQUITABLE GAS COMPANY	8/4/5006	
ZE90E Z68Z	5/12/1914 THIRTY FOOT SD		SAD AV W & HDRUBSTTIR 65.54.08	1912.95	WO-G8A	1309 GR	ZAD AV W & HORUBETTIN BIEI\SI\C		47049010090000
2290E 87ES			YNA9MOD YJ99UZ DAAR 3ES4.08-	39.5105	WO-08A	1516 GR	6/11/1914 RAAD SUPPLY COMPANY	0561/87/8	00008990864074
0 70249	6/6/1917 BIG INJUN /SD/		YNA9MOD YJ99US GAAR 1254.08	ISIS 6E	WD-08A	1298 GR		6761/2/9	47049306320000
EZIIO 0			2AD JARUTAN 39OH ESAP.08	9975'68	PSEUDO	85 O GR	7/6/1917 RAPD SUPPLY COMPANY	1/1/1846	47049306220000
			JAOD NOITAGLOSNOD 291 9.08	0105.65	OGUBSA	AD 0	SAD JARUTAN 390H		47049702490000
0 70113			80.4380 DELMAR OIL CORPORATION	99.5049	OGU3S4	95 O	CONSOLIDATION COAL	6661/5/7	4/049011230000
0 01131			80 4275 CONSOLIDATION COAL	8702.9E			DELMAR OIL CORPORATION		47049701130000
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0 3001S				19.5194	WD-G8A	1050 GR	10/13/1918 N G PENN CO	2661/02/6	47049010210000
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76700 8777	1051 110011 012 1227 1212		-80.4247 UNKNOWN	39.5042	PSEUDO	0 GR	NAKAOMA	6661/9/5	47049011070000
	AND WILLIAM DIS SAPETAS		80.4453 EQUITABLE GAS COMPANY	7£52.9E	710	1046 GR		1/1/1930	47049011020000
3032 00530	NO0805 7961/2/E	- a71	WARNOD SAD SJBATIUDS TEEP 08	£\$15.6£	5125	1238 GR	9/1/1967 UNKNOWN		41049002920000
18200 7221	JRIHZ9MAH	- 28 HJ-	WIASZ4 EQUITABLE GAS COMPANY	8212.9E	WD-G8A	1038 GR	4/1/1967 EQUITABLE GAS COMPANY		4704900290000C
19200 0	\$96I/Z/S •	107. \$ 500	YNAMNUJ SAJ JJANIUDJ ESP.00	8212.05		_	YNA9MOD ZAÐ 3JBATIUD3	1\1\1940	47049002810000
34E0E 719S	Q2 TOO3 YTRIHT 8161/71/8	July 30111C	JONNEY HIGGS 1624-00		5125	10e3 GR	VNA9MOD ZAD BJBATIUDB 4861/1/8	11/14/2008	47049002610000
3074 30239	3A1H29MAH 81 61/9/9	'r' 1	INDIANOINA TION TANKING	8512.95	WO-G8A	1172 GR	10\21\1918 SOUTH PENN OIL	2/10/1945	47049303460000
6 4110 6 70E	381H29MAH \ 191\\ 1\21		2A2 IABITAN 390H STAB 08.	80S2.6E	WĐ-Q8A	112e GR	2AD JARUTAN 39OH 81E1\8\01	1/15/1939	47049302390000
3131 01012	NOOHOO RIS	2012	VMANAO Y 1991 2 GAAR 3254.08-	0702.95	WĐ-G8A	1506 GR	1/26/1918 RAAD SUPPLY COMPANY	6761/02/5	47049011490000
11010 7567	OS IDOLITINOS OTORIOS	JANIO -	**NATANGE EQUITABLE GAS COMPANY OASBE EGAS COMPANY 6499 EQUITABLE GAS COMPANY 6499 ETTSBURGH & W VA GAS FOUTH BELE GAS COMPANY 6499 ETTSBURGH & W VA GAS EQUITABLE GAS COMPANY 6499 EGAS EGAS EGAS COMPANY 650453 EQUITABLE CAS COMPANY 650453 EQUITABLE GAS COMPANY 6504545 EGAS COMPANY 650454 EGAS EGAS EGAS EGAS EGAS	ET12.9E	WD-G8A	1312 GR	YNAYMOD SAD JIBA EQUITABLE GAS COMPANY	\$561/6/01	20002101060029
OTOTO SZZE	ONORDING STOLET /57 /-	,,	2AD AV W & HDRUBZTTI9 81E4.08-	£712.9£	WO-G8A	1560 GR	2AD AV W & HDRUBSTTIR 8161/51/4		
80010 4715	SINIC MARKS CASE (25 ;		YNA9MOD 2AD 3J8ATIUD3 EEE4.08-	39.5206	WD-08A	1013 GR	7/16/1918 EQUITABLE GAS COMPANY	0561/1/1	470490101100000
	1/22/1918 HAMPSHIRE		YNA9MOD ZAÐ BJBATIUDB 8E44.08	9915.65	WD-G8A	1161 GR		10/3/1954	470490101000000
96Z00 6STE	GMA2 UT313 5201/05/8		*80.4322 EQUITABLE GAS COMPANY	01.52.9E	A.80	1112 GR	12/22/1918 EQUITABLE GAS COMPANY	3\19\5009	4 70490 10080000
2040 00524	\QZ\ NU!NI DIB 8161\8\8		80.440S SOUTH PENN OIL	0812.05	WD-G8A	1013 GR	1/31/1968 EQUITABLE GAS COMPANY	8961/E1/E	47049002940000
TIMA39 HT930_TOT	MM_MRO1_QT 3TAQ_QU92	PROJ_FM_NM	SMAN_R3PO SQUTIDNOL			1013 CO		2461/9/5	47049002240000
			200 30113101	. 3014141	TATS INS CTAT	A TO VALLE MOITAV313	A340_ARUD STEG GMOD	3TAO_QNA8A	IWΩ

470490243

Office of Oil & Fact FEB **24** 2017

Hecowec

UNKWN UNKWN ABD-GW UNKWN 39.5261 39.5288 39.5349 39.5356 -80.4425 CONSOLIDATION COAL
-80.4597 CONSOLIDATION COAL
-80.4400 EQUITABLE GAS COMPANY
-80.4602 UNKNOWN UNKNOWN
UNKNOWN
GORDON STRAY /SD/ 12/18/1980 GORDON STRAY /SD/ 0 02076 0 02078 3036 00455 72288 06/16/2017

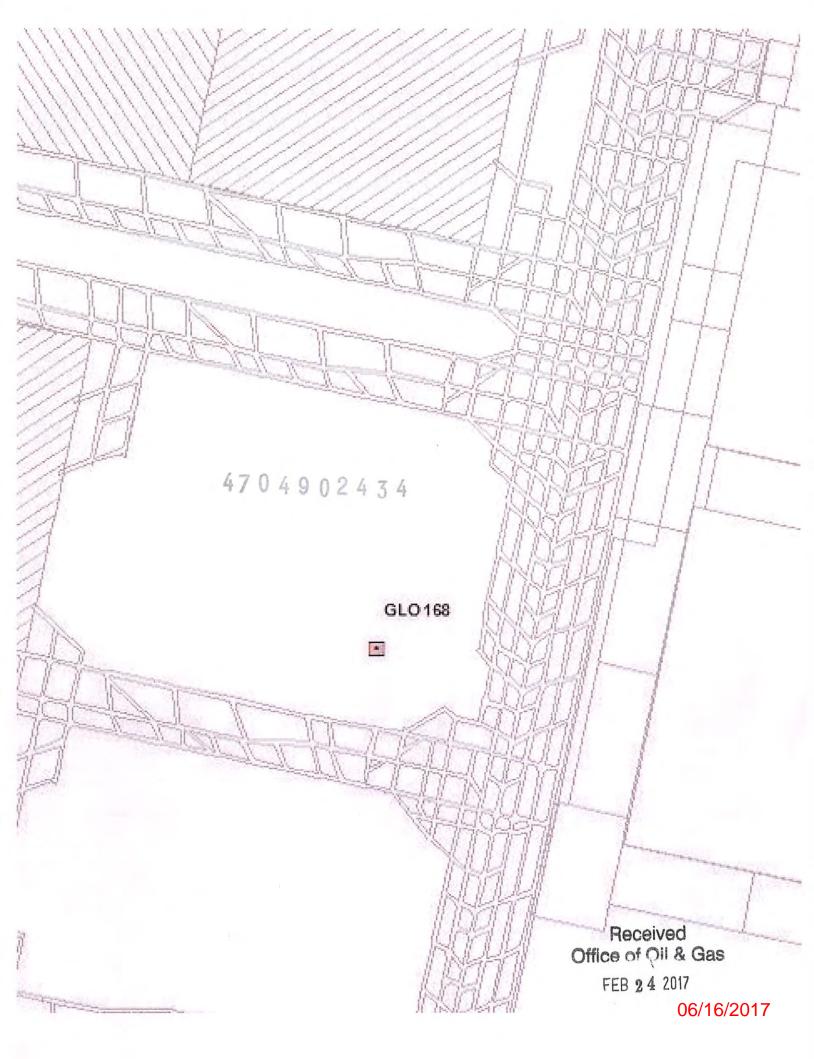
4/15/2010 7/23/2010 8/5/2009

CONSOLIDATION COAL
CONSOLIDATION COAL
1/1/1981 UNKNOWN
UNKNOWN

0 GR 0 GR 1086 GR

	UWI	Name	D	4 - 2	
	47049010210000		Depth Top		
	47049010210000		885	892	
			1007	1055	*Perforated formations
	47049010210000	-11112/00/	1220	1254	
	47049010210000		1382	1515	
	47049010210000		1672	1907	
	47049010210000	MAXTON/SD/	2059	2113	
	47049010210000	BIG LIME	2118	2172	
	47049010210000	KEENER /SD/	2179	2200	
	47049010210000	BIG INJUN /SD/	2210	2314	
	47049010210000	FIFTY FOOT SD	2804	2847	
	47049010210000	THIRTY FOOT SD	2884	2907	
	47049010200000	PITTSBURGH COAL	935	941	
	47049010200000	MURPHY /SD/	1066		
	47049010200000	DUNKARD LITTLE /SD/		1097	
	47049010200000	DUNKARD BIG/SD/	1286	1322	Ī.
		FREEPORT	1359	1385	043"
	되고 있는데 이번 이번 생각하다.		1489	1522	.000
		SALT SD 1	1727	1757	04902434
	그프로그램 보고 전하면서 하다 하다.	SALT SD 2	1792	1834	
		SALT SD 3	1918	2011	
		MAXTON/SD/	2144	2161	
		BIG LIME	2190	2235	
	47049010200000	KEENER /SD/	2248	2270	
		BIG INJUN /SD/	2274	77.9	
0	47049004550000	PITTSBURGH COAL	843		

Received
Office of Caracase
FEB 24 2017





west virginia department of environmental protection

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

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

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

IN THE MATTER OF A VARIANCE FROM)	ORDER NO. 2014 - 17
REGULATION 35 CSR § 4-11.4/11.5/14.1)	470.
AND 35 CSR § 8-9.2.h. 4/5/6/8 OF THE)	4704902434
THE OPERATIONAL)	02434
REGULATIONS OF CEMENTING OIL	í	
AND GAS WELLS	í	

REPORT OF THE OFFICE

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

FINDINGS OF FACT

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

Promoting a healthy environment.

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Office of Oil & Gas
FEB 2 4 2017

CONCLUSIONS OF LAW

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

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

ORDER

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

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

4704902434

IN THE NAME OF THE STATE OF WEST VIRGINIA

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

James Martin, Chief Office of Oil and Gas

Office of Oil & Gas



west virginia department of environmental protection

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

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

March 18, 2014

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

Re: Cement Variance Request

Dear Sir or Madam,

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

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

02434

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

Billectory

James Peterson

Environmental Resources Specialist / Permitting

Promoting a healthy environment.

Received Office of Oil & Gas

FEB 2 4 2017



October 27, 2016

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 (GLO168)

Dear Mr. Smith,

EQT is requesting the 13-3/8" surface casing be set at 449' KB, 80' below the deepest fresh water. We will set the 9-5/8" intermediate string at 3090' 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

4704902434

Enc.

Received
Office of Oil & Gas
FEB 2 4 2017

WW-9 (2/15)

API Number 47 - 049

Operator's Well No. GLO168H2

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

	OP Code 306686
Watershed (HUC 10) Laurel Run	Quadrangle Glover Gap
Do you anticipate using more than 5,000 bbls of war	ter to complete the proposed well work? Yes No
Will a pit be used? Yes No ✓	
If so, please describe anticipated pit waste:	
Will a synthetic liner be used in the pit? Ye	es No If so, what ml.?
Proposed Disposal Method For Treated Pit	
Land Application	Wastes: 5DW 3/2/2017
Underground Injection (UIC Permit Number 0014, 8462, 4037
Reuse (at API Number V	
Other (Explain	y form WW-9 for disposal location)
Toolea loop system of used: It so, describe:	
Drilling medium anticipated for this well (vertical an	nd horizontal)? Air, freshwater, oil based, etc. See Attached
-If oil based, what type? Synthetic, petroleu	
Additives to be used in drilling medium? See Attache	ed
Drill cuttings disposal method? Leave in pit, landfill.	removed offsite etc. andfill
	um will be used? (cement, lime, sawdust) N/A
- andfill or officito nome /	Con Attached Link
-Landfill or offsite name/permit number?	
Permittee shall provide written notice to the Office of West Virginia solid waste facility. The notice shall be where it was properly disposed.	f Oil and Gas of any load of drill cuttings or associated waste rejected at any e provided within 24 hours of rejection and the permittee shall also disclose
Permittee shall provide written notice to the Office of West Virginia solid waste facility. The notice shall be where it was properly disposed. I certify that I understand and agree to the te on August 1, 2005, by the Office of Oil and Gas of the provisions of the permit are enforceable by law. Vio aw or regulation can lead to enforcement action. I certify under penalty of law that I have peoplication form and all attachments thereto and the	f Oil and Gas of any load of drill cuttings or associated waste rejected at any e provided within 24 hours of rejection and the permittee shall also disclose terms and conditions of the GENERAL WATER POLLUTION PERMIT issumed West Virginia Department of Environmental Protection. I understand that toolations of any term or condition of the general permit and/or other applicate personally examined and am familiar with the information submitted on the lattice is true.
Permittee shall provide written notice to the Office of West Virginia solid waste facility. The notice shall be where it was properly disposed. I certify that I understand and agree to the team August 1, 2005, by the Office of Oil and Gas of the provisions of the permit are enforceable by law. Violate or regulation can lead to enforcement action. I certify under penalty of law that I have pupplication form and all attachments thereto and to obtaining the information, I believe that the information penalties for submitting false information, including the company Official Signature Company Official Signature Company Official Title Permitting Supervisor	f Oil and Gas of any load of drill cuttings or associated waste rejected at any e provided within 24 hours of rejection and the permittee shall also disclose the provided within 24 hours of rejection and the permittee shall also disclose the permittee shall also disclose the provided within 24 hours of the GENERAL WATER POLLUTION PERMIT issue the West Virginia Department of Environmental Protection. I understand that the collations of any term or condition of the general permit and/or other applicable personally examined and am familiar with the information submitted on the shall be possibility of those individuals immediately responsible for the possibility of fine or imprisonment.
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WW-9

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.

4704902434

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.

Received
Office of Oil & Gas
FEB 2 4 2017

Operator's Well No. GLO168H2

	Treatment: Acres Disturbed	Setation p.	H 6.2
Lime 3	Tons/acre or to corr	rect to pH 6.5	
Fertilizer type	Granular 10-20-20		
Fertilizer amor	unt_1/3	lbs/acre	
Mulch 2		Tons/acre	
		Seed Mixtures 7/049	02434
	Temporary	Perma	
Seed Type	lbs/acre		
KY-31	40	Orchard Grass	lbs/acre
Alsike Clover	5		15
Annual Rye	15	Alsike Clover	5
		land application (unless engineered plans incl	luding this info have
Orawing(s) of road, local provided) Photocopied section of in lan Approved by:	Luden all distue		Yasa ah lu
Photocopied section of in lan Approved by: Comments: Pre-Seed	Luden all distue	bed areas as soon as c	Yasa ah lu
Photocopied section of in lan Approved by: Comments: Pre-Seed	Luden all distue	bed areas as soon as c	Yasa ah lu

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

BROAD STREET ENERGY LLC

37 West Broad Street

Suite 1100

Columbus, Ohio 43215

740-516-5381

Washington County/Belpre Twp.

Permit # 8462

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

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

4704902434

TRI COUNTY WASTE WATER MANAGEM KING EXCAVATING CO.

1487 Toms Run Road Holbrook, PA 15341 724-627-7178 Plant 724-499-5647 Office

Greene County/Waynesburg

Permit #TC-1009

Advanced Waste Services 101 River Park Drive New Castle, Pa. 16101

Facility Permit# PAR000029132

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

Received
Office of Oil & Gas

FEB 24 2017



Birch River Office Phone: (304) 649-8606 Fax: (304) 649-8608

237 Birch River Road P.O. Box 438 Birch River, WV 26610 FEB 2 4 2017



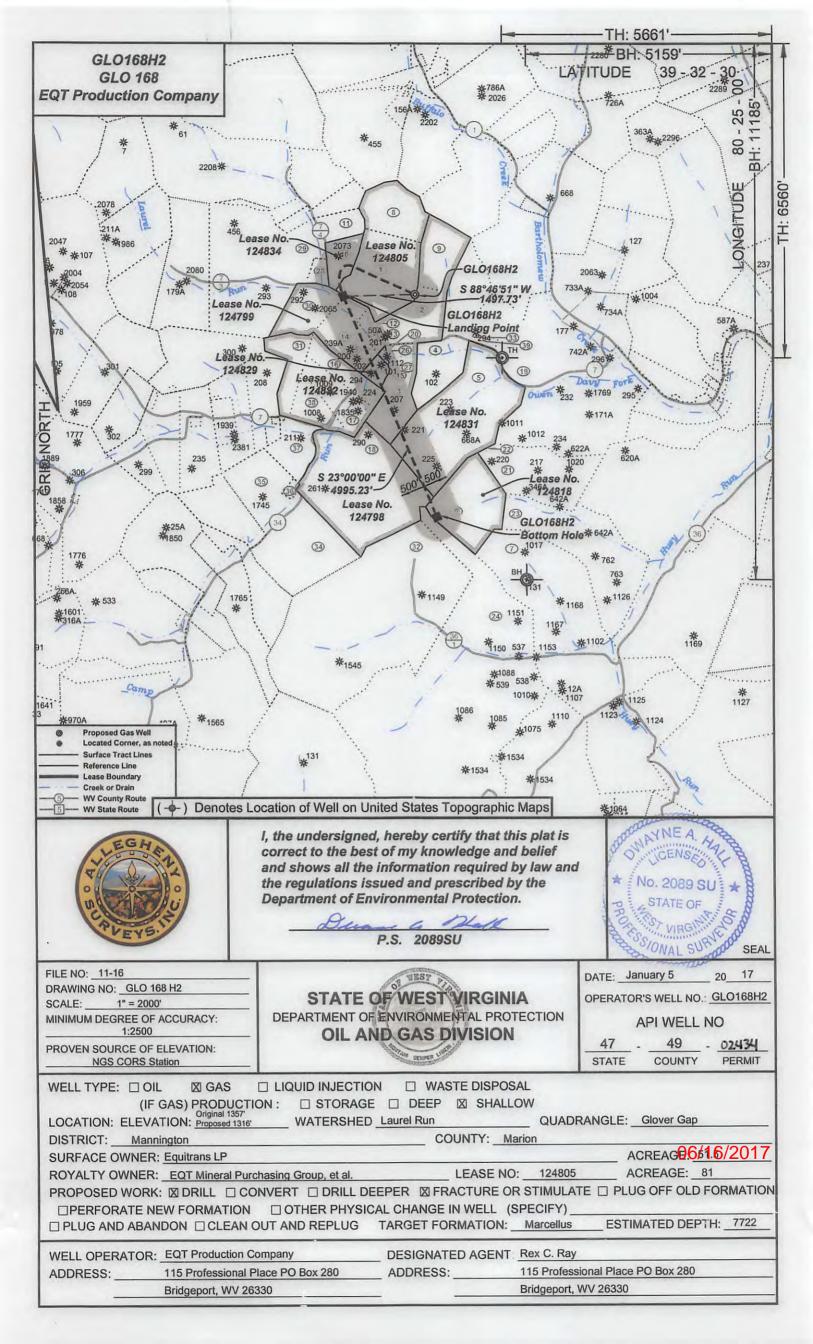


Site Specific Safety Plan

EQT GLO 168 Pad

Glover Quadrant Marion County, WV

GLO168H1 _GLO168H2 _GLO168H3 _GLO168	s: BH4 _GLO168H5 GLO168H6_ GLO168H7
GLO168H16 GLO168H17 GLO168H18 GLO168H	
Production Spenisor	Date Prepared: July 28, 2016 Sow 3/z/2017 WV Oil and Gas Inspector
1-26-17	Title
e	Date



GLO168H2 GLO 168 EQT Production Company

Tract I.D.	Tax Map No.	Parcel No.	County	District	Surface Tract Owner	Acres
1	49	37	Marion	Mannington	Equitrans LP	51.50
2	49	39	Marion	Mannington	John H. Musgrave, et al.	28.96
3	50	15	Marion	Mannington	Perry R. & Janice M. Thorne	5.61
4	50	14	Marion	Mannington	Melvin L. Gooch	28.00
5	50	13	Marion	Mannington	Marietta A. Meck	99.00
6	50	1	Marion	Mannington	Consolidation Coal Company	46.00
7	50	2	Marion	Mannington	David K. Phillips Trust	88.00
8	49	38	Marion	Mannington	Thomas B. Wright	30.00
9	49	39	Marion	Mannington	Musgrave, et al.	23.90
10	49	36	Marion	Mannington	Frederic R. & Kimberly P. Steele	16,25
11	49	35	Marion	Mannington	Mannington Church of Christ Trustees	13.00
12	48	13.1	Marion	Mannington	Gary A. & Sheila D. Earl	2.02
13	48	13	Marion	Mannington	Harlen O. & Diana S. Batson	1.10
14	48	14	Marion	Mannington	Roger & Pauline Eshelman	25.09
15	50	19	Marion	Mannington	Brenda D. Stull	4.55
16	48	. 11	Marion	Mannington	Consolidated Coal Company	17,50
17	48	10	Marion	Mannington	Consolidated Coal Company	22.00
18	50	21	Marion	Mannington	Consolidation Coal Company	99.96
19	50	12	Marion	Mannington	Perry R. & Janice M. Thorne	180.09
20	50	16	Marion	Mannington	Richard H. & Lucy M. Lambert	0.46
21	50	3.2	Marion	Mannington	Consolidation Coal Company	52.71
22	50	13.1	Marion	Mannington	Marietta A. Meck	0.54
23	50	3.1	Marion	Mannington	Consolidation Coal Company	80.00
24	55	18	Marion	Mannington	Consolidation Coal Company	329.17
25	48	12	Marion	Mannington	Harlen O. & Diana S. Batson	0.45
26	50	17	Marion	Mannington	Jason H. & Brandy L. Batson	0.32
27	50	18	Marion	Mannington	Richard H. & Lucy M. Lambert	1.07
28	48	16	Marion	Mannington	Consolidation Coal Company	5.50
29	48	17	Marion	Mannington	Consolidation Coal Company	117.50
30	48	15	Marion	Mannington	Elmer O. Duncan, et al.	23.50
31	48	8	Marion	Mannington	Consolidation Coal Company	18.18
32	50	24	Marion	Mannington	Patricia S. Strum, et al.	223
33	50	12.2	Marion	Mannington	Nancy L. Efaw	0.13
34	50	23.1	Marion	Mannington	Consolidation Coal Company	57.48
35	50	23	Marion	Mannington	Charles R. & Wanda L. Russell	33,72
36	50	22	Marion	Mannington	Charles R. & Wanda L. Russell	1.84
37	51	6	Marion	Mannington	Consolidation Coal Company	20.17
38	48	9	Marion	Mannington	Consolidation Coal Company	15.62
39	50	12.1	Marion	Mannington	Nancy L. Efaw	2.01

Notes:
 GLO168H2 coordinates are
 NAD 27 N: 374,216,24 E: 1,735,760,30
 NAD 27 Lat: 39,523661 Long: -80,436735
 NAD 83 UTM N: 4,375,051,30 E: 548,428,97
 GLO168H2 Landing Point coordinates are
 NAD 27 N: 374,184,37 E: 1,734,262,91
 NAD 27 Lat: 39,523530 Long: -80,442041
 NAD 83 UTM N: 4,375,033,98 E: 547,972,93
 GLO168H2 Bottom Hole coordinates are
 NAD 27 N: 369,586,23 E: 1,736,214,70
 NAD 27 Lat: 39,510963 Long: -80,434953
 NAD 83 UTM N: 4,373,643,01 E: 548,590.88
 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.

GLO 168 GLO168H30 @ GLO168H29 @ ⊚ GLO168H14 GLO168H28 @ ⊚ GLO168H13 GLO168H27 @ @ GLO168H12 GLO168H26 @ @ GLO168H11 GLO168H25 @ @ GLO168H10 GLO168H24 @ @ GLO168H9 GLO168H23 @ ⊚ GLO168H8 GLO168H22 @ @ GLO168H7 GLO168H21 @ @ GLO168H6 GLO168H20 @ @ GLO168H5 GLO168H19 @ @ GLO168H4 GLO168H18 @ ⊚ GLO168H3 GLO168H17 @ GLO168H16 @ @ GLO168H1

 Lease No.
 Acres
 Owner

 124834
 17
 EQT Mineral Purchasing Group

 124799
 135
 Anita K. Stanley, et al.

 124829
 5.50
 I. L. Morris & Mike Ross Inc., et al.

 124832
 73.31
 Robert D. Baker, et al.

 124831
 100
 James John Thompson, et al.

 124798
 106
 EQT Mineral Purchasing Group, et al.

 124818
 52
 CNX



Proposed Gas Well Located Corner, as no Surface Tract Lines

Reference Line

Lease Boundary Creek or Drain

WV County Route WV State Route

FILE NO: 11-16

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. 2089SU

STATE OF WEST VIRGINIA

No. 2089 SU *
STATE OF
VIRGINAL SUP SEAL

DRAWING NO: GLO 168 H2

SCALE: 1" = 2000'

MINIMUM DEGREE OF ACCURACY: 1:2500

PROVEN SOURCE OF ELEVATION:

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

DATE: January 5 20 17

OPERATOR'S WELL NO.: GLO168H2

API WELL NO

47 - 49 - **02434** STATE COUNTY PERMIT

NGS CORS Station	-	Constanting (STATE	COUNTY	PERMIT
WELL TYPE: □ OIL ☒ GAS (IF GAS) PRODUC	☐ LIQUID INJECTION: ☐ STORAG					
LOCATION: ELEVATION:	WATERSHEE	Starkey Run and Wiley For	QUADR	ANGLE: _	Glover Gap	
DISTRICT: Mannington		COUNTY: _Ma	arion			
SURFACE OWNER: Equitrans LP				A	CREAG 651	6/2017
ROYALTY OWNER: EQT Mineral P	urchasing Group, et al.	LEASE NO	124805	A	CREAGE: 81	1
PROPOSED WORK: ☑ DRILL ☐ ©				E 🗆 PLU	IG OFF OLD F	ORMATION
☐ PLUG AND ABANDON ☐ CLEAR	N OUT AND REPLUG	TARGET FORMATION:	Marcellus	ESTII	MATED DEP	H: _7722
WELL OPERATOR: EQT Production	Company	DESIGNATED AGENT	Rex C. Ray			
ADDRESS: 115 Professiona	Il Place PO Box 280	ADDRESS:	115 Professio	onal Place	PO Box 280	
Bridgeport, WV	26330		Bridgeport, V	VV 26330		

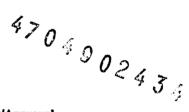
INFORMATION SUPPLIED UNDER WEST VIRGINIA CODE Chapter 22, Article 6A, Section 5(a)(5) IN LIEU OF FILING LEASE(S) AND OTHER CONTINUING CONTRACT(S)

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 attached



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

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

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

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: Permitting Supervisor

Page 1 of 2

Lease No.	Grantor, Lessor, etc.	Grantee, Lessee, etc.	Royalty	Book/Page
			 -	
	EQT Mineral Purchasing Group, et al. (Current Royalty Own		***	
<u>124805</u>	Howard Wright, et ux, et al. (Original Lessor)	Equitable Gas Company		DB 667/33
	Equitable Gas Company	Equitrans, Inc.		AB 12/279
	Equitrans, Inc.	Equitrans, LP		DB 46/660
	Equitrans, LP	EQT Production Company		DB 1114/130
	EQT Mineral Purchasing Group, et al. (Current Royalty Own	er)	***	
<u>124834</u>	Betty S. Dodd, et vir.	Equitble Gas Company		DB 740/114
	Equitable Gas Company	Equitrans, Inc.		AB 12/279
	Equitrans, Inc.	Equitrans, LP		DB 46/660
	Equitrans, LP	EQT Production Company		DB 1114/130
	Anita K. Stanley, et al. (Current Royalty Owner)		•••	
<u>124799</u>	Guy F. Musgrave, et al.	Pittsburgh & West Virginia Gas		DB 465/312 DB 510/487.
	Pittsburgh & West Virginia Gas	Equitable Gas Company		511/539
	Equitable Gas Company	Equitrans, Inc.		AB 12/279
	Equitrans, Inc.	Equitrans, LP		DB 46/660
	Equitrans, LP	EQT Production Company		DB 1114/130
	I. L. Morris & Mike Ross Inc., et al. (Current Royalty Owner)		***	
124829	S. J. Gump, et ux.	South Penn Oil Company		DB 156/193
	South Penn Oil Company	South Penn Natural Gas Comp	any	DB 353/201
	South Penn Natural Gas Company	Pittsburgh & West Virgin a Gas	Company	DB 480/383 DB 510/487.
	Pittsburgh & West Virginia Gas Company	Equitable Gas Company		511/539
	Equitable Gas Company	Equitrans, Inc.		AB 12/279
	Equitrans, Inc.	Equitrans, LP		DB 46/660
	Equitrans, LP	EQT Production Company		DB 1114/130
	James John Thompson, et al. (Current Royalty Owner)	South Penn Oil Company	·"	
<u>124831</u>	J.M. Cordray, et ux.	South Penn Oil Company	5 9 A	DB 156/203
	South Penn Oil Company	South Penn Natural Gas Comp	any UZZ	DB 156/203 DB 353/201 DB 480/383
	South Penn Natural Gas Company	Pittsburgh & West Virginia Gas	Company	DB 480/383 DB 510/487,
	Pittsburgh & West Virginia Gas Company	Equitable Gas Company		511/539
	Equitable Gas Company	Equitrans, Inc.		AB 12/279
	Equitrans, Inc.	Equitrans, LP		DB 46/660
	Equitrans, LP	EQT Production Company		DB 1114/130
	CNX (Current Royalty Owner)		***	
<u>124818</u>	H.W. Straight, et al.	Pittsburgh & West Virginia Gas	Company	DB 464/583 DB 510/487,
	Pittsburgh and West Virginia Gas Company	Equitable Gas Company		511/539
	Equitable Gas Company	Equitrans, Inc.		AB 12/279
	Equitrans, Inc.	Equitrans, LP		DB 46/660
	Equitrans, LP	EQT Production Company		DB 1114/130
		· •		



January 13, 2017

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

Re: GLO168 well pad, wells: GLO168H1, GLO168H2, GLO168H3, GLO168H4, GLO168H5, GLO168H6, GLO168H7, GLO168H16, GLO168H17, GLO168H18, GLO168H19, GLO168H20, GLO168H21

Mannington District, Marion 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

Received
Office of Oil & Gas
FEB 2 4 2017

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

Date of Notic	ce Certification: 2/21/17		API No. 47	7- 049 -	
				Well No. GLO	168H2
				Name: GLO16	
Notice has I Pursuant to the below for the	been given: ne provisions in West Virginia Code tract of land as follows:	§ 22-6A, the Operator has provi	ded the rec	quired parties v	with the Notice Forms listed
State:	West Virginia	I	Easting:	548,428.97	
County:	Marion		Northing:	4,375,051.30	
District:	Mannington	Public Road Acces		Co Rt. 7/4	
Quadrangle:	Glover Gap	Generally used far	m name:	Equitrans LP.	
Watershed:	Laurel Run				
it has provide information re of giving the requirements Virginia Code	the secretary, shall be verified and seed the owners of the surface described the owners of the surface described and (c), so surface owner notice of entry to surface owner notice of entry to surface owner notice of subsection (b), section sixteen of \$22-6A-11(b), the applicant shall thave been completed by the applicant	bed in subdivisions (1), (2) and ection sixteen of this article; (ii) arvey pursuant to subsection (a of this article were waived in we tender proof of and certify to the	d (4), substhat the re- that the re- that the re- that the re- that the substrate of the su	ection (b), sequirement was een of this arti	ction ten of this article, the deemed satisfied as a result cle six-a; or (iii) the notice wher; and Pursuant to West
that the Ope	West Virginia Code § 22-6A, the Or rator has properly served the require	perator has attached proof to thi d parties with the following:	s Notice C	ertification	OOG OFFICE USE
*PLEASE CHE	CK ALL THAT APPLY				ONLY
☐ 1. NOT	FICE OF SEISMIC ACTIVITY or	NOTICE NOT REQUIRE SEISMIC ACTIVITY WAS		A CONTRACTOR OF THE PROPERTY O	RECEIVED/
■ 2. NOT	TICE OF ENTRY FOR PLAT SURV	EY or ☐ NO PLAT SURVEY	Y WAS CO	ONDUCTED	☐ RECEIVED
☐ 3. NOT	FICE OF INTENT TO DRILL or	NOTICE NOT REQUIRE NOTICE OF ENTRY FOR PL WAS CONDUCTED or	AT SURV	6490	RECEIVED/ NOT REQUIRED
		WRITTEN WAIVER BY (PLEASE ATTACH)	Y SURFAC	CE OWNER	0.4
■ 4. NOT	TICE OF PLANNED OPERATION				RECEIVED
■ 5. PUB	LIC NOTICE				☐ RECEIVED
■ 6. NOT	TICE OF APPLICATION				☐ RECEIVED

Required Attachments:

The Operator shall attach to this Notice Certification Form all Notice Forms and Certifications of Notice that have been provided to the required parties and/or any associated written waivers. For the Public Notice, the operator shall attach a copy of the Class II Legal Advertisement with publication date verification or the associated Affidavit of Publication. The attached Notice Forms and Certifications of Notice shall serve as proof that the required parties have been noticed as required under West Virginia Code § 22-6A. 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.

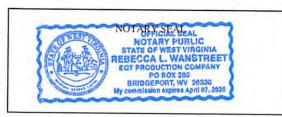
Office of Oil & Gas

FEB 2 4 2017

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 PlaceBy:Victoria J. RoarkBridgeport, WV 26330Its:Permitting SupervisorFacsimile:304-848-0020Telephone:304-848-0082Email:vroark@eqt.com



Subscribed and sworn before me this 21 day of February 2017

Ruchella Humantelt Notary Public

My Commission Expires 4-7-2020

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.

4704902434

Received
Office of Oil & Gas
FEB 2 4 2017

API NO. 47- 049	-	
OPERATOR WELI	NO. GLO	168H2
Well Pad Name: GL	0168	

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

Notice Time Requirement: notice shall be provided no later than the filing date of permit application. Date of Notice: 2 2 1 17 Date Permit Application Filed: 2 2 1 17 Notice of: PERMIT FOR ANY ☐ CERTIFICATE OF APPROVAL FOR THE WELL WORK CONSTRUCTION OF AN IMPOUNDMENT OR PIT Delivery method pursuant to West Virginia Code § 22-6A-10(b) ☐ PERSONAL REGISTERED ☑ METHOD OF DELIVERY THAT REQUIRES A SERVICE MAIL RECEIPT OR SIGNATURE CONFIRMATION Pursuant to W. Va. Code § 22-6A-10(b) no later than the filing date of the application, the applicant for a permit for any well work or for a certificate of approval for the construction of an impoundment or pit as required by this article shall deliver, by personal service or by registered mail or by any method of delivery that requires a receipt or signature confirmation, copies of the application, the erosion and sediment control plan required by section seven of this article, and the well plat to each of the following persons: (1) The owners of record of the surface of the tract on which the well is or is proposed to be located; (2) The owners of record of the surface tract or tracts overlying the oil and gas leasehold being developed by the proposed well work, if the surface tract is to be used for roads or other land disturbance as described in the erosion and sediment control plan submitted pursuant to subsection (c), section seven of this article; (3) The coal owner, operator or lessee, in the event the tract of land on which the well proposed to be drilled is located [sic] is known to be underlain by one or more coal seams; (4) The owners of record of the surface tract or tracts overlying the oil and gas leasehold being developed by the proposed well work, if the surface tract is to be used for the placement, construction, enlargement, alteration, repair, removal or abandonment of any impoundment or pit as described in section nine of this article; (5) Any surface owner or water purveyor who is known to the applicant to have a water well, spring or water supply source located within one thousand five hundred feet of the center of the well pad which is used to provide water for consumption by humans or domestic animals; and (6) The operator of any natural gas storage field within which the proposed well work activity is to take place. (c)(1) If more than three tenants in common or other co-owners of interests described in subsection (b) of this section hold interests in the lands, the applicant may serve the documents required upon the person described in the records of the sheriff required to be maintained pursuant to section eight, article one, chapter eleven-a of this code. (2) Notwithstanding any provision of this article to the contrary, notice to a lien holder is not notice to a landowner, unless the lien holder is the landowner. W. Va. Code R. § 35-8-5.7.a requires, in part, that the operator shall also provide the Well Site Safety Plan ("WSSP") 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. ☐ Application Notice ☐ WSSP Notice ☐ E&S Plan Notice ☐ Well Plat Notice is hereby provided to: ☑ SURFACE OWNER(s) M COAL OWNER OR LESSEE Name: see attached Name: see attached Address: Address: Name: COAL OPERATOR Address: Name: Address: ☑ SURFACE OWNER(s) (Road and/or Other Disturbance) Name: see attached ☑ SURFACE OWNER OF WATER WELL Address: AND/OR WATER PURVEYOR(s) Name: see attached Name: Address: Address: ☐ OPERATOR OF ANY NATURAL GAS STORAGE FIELD ☑ SURFACE OWNER(s) (Impoundments or Pits) Name: Name: see attached Address: Address: Received *Please attach additional forms if necessary
Office of Oil & Gas

FEB 2 4 2017

WW-6A (8-13)

API NO. 47-049

OPERATOR WELL NO. GLO168H2

Well Pad Name: GLO168

Notice is hereby given:

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

This Notice Shall Include:

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

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

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

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

Additional information related to horizontal drilling may be obtained from the Secretary, at the WV Department of Environmental Protection headquarters, located at 601 57th Street, SE, Charleston, WV 25304 (304-926-9450) or by visiting www.dep.wv.gov/oil-and-gas/pages/default.aspx.

Well Location Restrictions

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

WW-6A (8-13)

API NO. 47-049

OPERATOR WELL NO. GLO168H2

Well Pad Name: GLO168

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

Received Office of Oil & Gas

FFB 2 4 2017

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

WW-6A (8-13)

API NO. 47- 049

OPERATOR WELL NO. GLO168H2

Well Pad Name: GLO168

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; 4 7 0 4 9 0 2 4 7
- (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.

Received
Office of Oil & Gas
FFB 24 2017

API NO. 47- 049 OPERATOR WELL NO. GL0168H2
Well Pad Name: GL0168

Notice is hereby given by:

Well Operator: EQT Production Company Telephone: 304-848-0076

Email: vroark@eqt.com

Address: 115 Professional Place

Bridgeport, WV 26330

Facsimile: 304-848-0020

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.

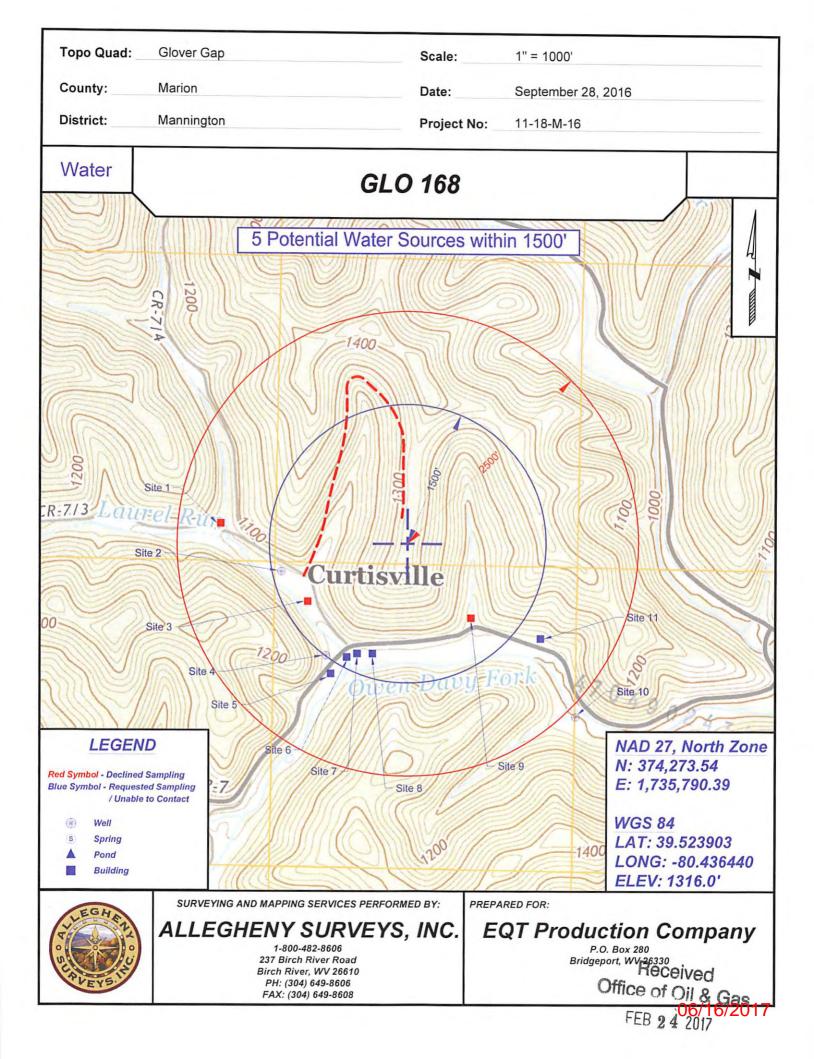
OFFICIAL SEAL
MOTARY PUBLIC
STATE OF WEST VIRGINIA
REBECCA L. WANSTREET
EOT PRODUCTION COMPANY
PO BOX 220
BRIDGEPORT, WV 26350
My commission expires April 07, 2020

Subscribed and sworn before me this 21 day of February 2017

Ruhe cea of Wanstreet Notary Public

My Commission Expires 4-7-2020

47049024 = 1



Surface Owners:

Equitrans, LP 625 Liberty Ave., Suite 1700 Pittsburgh, PA 15222

Thomas B. Wright Heirs C/O Martha Arnold 808 Gaston Ave. Fairmont, WV 26554

Joseph V. Forte John H. Musgrave & Matilda Henry C/O Joseph Forte 11 Hutchinson Dr. Fairmont, WV 26554

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CER	Postal Service™ TIFIED MAIL® RECEIPT tic Mail Only	
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Postage		
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	Thomas B. Wright Heirs	
Sent To	c/o Martha Arnold	
Street a	818 Gaston Ave.	
City, Ste	Fairmont WV 26554	
PS For	GLO168 Permit App. and Planned Op.	



Surface Owners Access road & Other disturbance

Equitrans, LP 625 Liberty Ave., Suite 1700 Pittsburgh, PA 15222

Thomas B. Wright Heirs C/O Martha Arnold 808 Gaston Ave. Fairmont, WV 26554

Joseph V. Forte John H. Musgrave & Matilda Henry C/O Joseph Forte 11 Hutchinson Dr. Fairmont, WV 26554

4704902434

1069	U.S. Postal Service [™] CERTIFIED MAIL [®] RECEIPT Domestic Mail Only	
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	Thomas B. Wright Heirs Sent To c/o Martha Arnold	7/
7016	Street a 818 Gaston Ave.	1
£.	City, Siz Fairmont WV 26554 GLO168 Permit App. and Planned Op. Tuction	15



Surface Owner, AST

Equitrans, LP 625 Liberty Ave., Suite 1700 Pittsburgh, PA 15222

Joseph V. Forte
John H. Musgrave &
Matilda Henry
C/O Joseph Forte
11 Hutchinson Dr.
Fairmont, WV 26554

45 Do	S. Postal Service [™] ERTIFIED MAIL [®] RECEIPT ^{mestic Mail Only}
	delivery information, visit our website at www.usps.com [®] .
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Extra S	ervices & Fees (check box, add fee as appropriate) In Receipt (hardcopy) In Receipt (electronic) In Re
S Total P	
1	oseph V Forte, John H Musgrave, Matilda Henry c/o Joseph Forte 11 Hutchinson Dr
City, St.	Fairmont WV 26554 GLO168 Permit App and Planned Op.
Street a	11 Hutchinson Dr. Fairmont WV 26554

4704902434

Consol Mining Company
Engineering Operations Support Dept Coal
CNX Center
1000 Consol Energy Drive
Canonsburg, PA 15317-6506

Consolidation Coal Company C/O Murray Energy Corporation Attn: Alex O'Neill 46226 National Road St. Clairsville, OH 43950

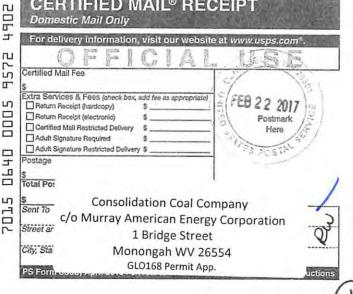
Consolidation Coal Company C/O Murray Energy Corporation Attn: Troy Freels 1 Bridge Street Monongah, WV 26554

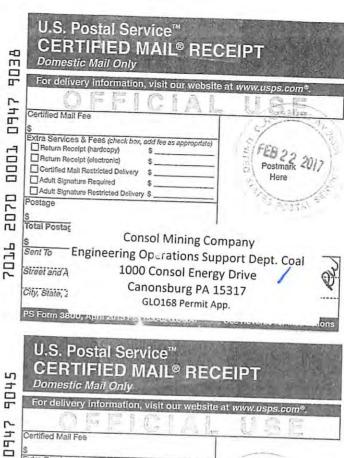
Legacy Minerals, LLC P.O. Box 23298 Pittsburgh, PA 15222-2006

CBM ownership

CNX Gas Company Engineering Operations Support Dept Coal CNX Center 1000 Consol Energy Drive Canonsburg, PA 15317-6506

U.S. Postal Service[™] CERTIFIED MAIL® RECEIPT Domestic Mail Only





xtra Services & Fees (check box, add fee as appropria Return Receipt (hardcopy) 0007 Return Receipt (electronic) Postmark Certified Mall Restricted Del Adult Signature Required Adult Signature Restricted Delivery \$ 2070 Postage Total Postage and En 7076 Sent To Consolidation Coal Company (OH) Street and Ai c/o Murray American Energy Corporation 46226 National Road City, State, 2 St. Clairsville OH 43950 PS Form 38 GLO168 Permit App.

U.S. Postal Service™

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CERTIFIED MAIL® RECEIPT Domestic Mail Only For delivery information, visit our website at www.usps.com Certified Mail Fee xtra Services & Fees (check box, add fee as appropriate Return Receipt (hardcopy) Return Receipt (electronic) Certified Mall Restricted De Adult Signature Required Adult Signature Restricted Delivery Postage Total F Received Legacy Minerals Sent 7 PO Box 2329 Office of Oil & Gas Pittsburgh PA 15222-2006 FEB Street GLO168 Permit App City, S

Coal Owners:

Consol Mining Company
Engineering Operations Support Dept Coal
CNX Center
1000 Consol Energy Drive
Canonsburg, PA 15317-6506

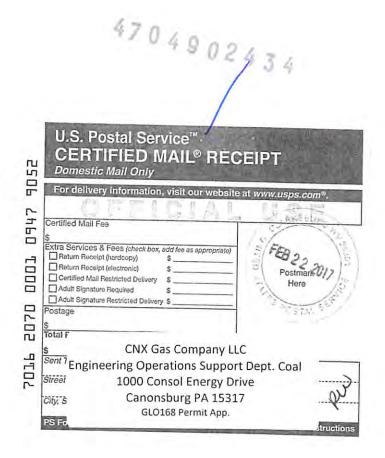
Consolidation Coal Company C/O Murray Energy Corporation Attn: Alex O'Neill 46226 National Road St. Clairsville, OH 43950

Consolidation Coal Company C/O Murray Energy Corporation Attn: Troy Freels 1 Bridge Street Monongah, WV 26554

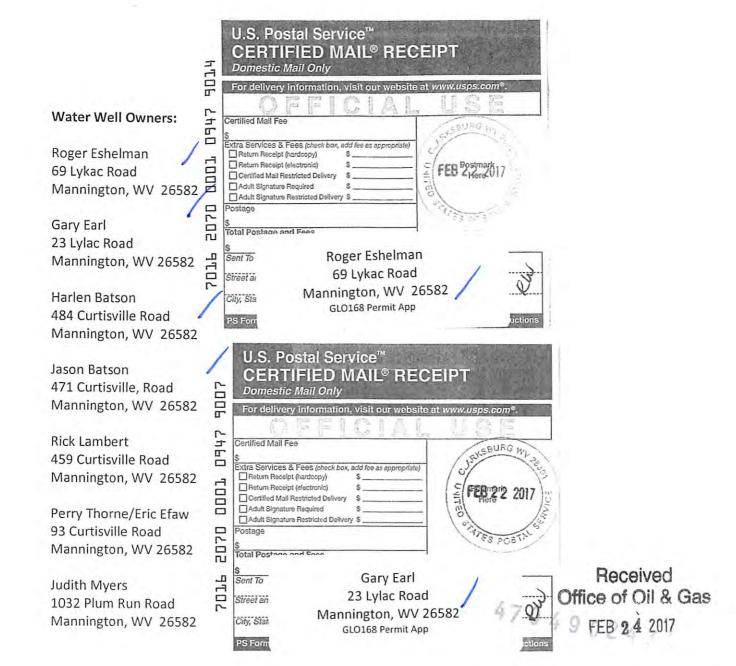
Legacy Minerals, LLC P.O. Box 23298 Pittsburgh, PA 15222-2006

CBM ownership

CNX Gas Company
Engineering Operations Support Dept Coal
CNX Center
1000 Consol Energy Drive
Canonsburg, PA 15317-6506











06/16/2017

Water Well Owners:

Roger Eshelman 69 Lykac Road Mannington, WV 26582 Vac

Gary Earl 23 Lylac Road Mannington, WV 26582

Harlen Batson 484 Curtisville Road Mannington, WV 26582

Jason Batson 471 Curtisville, Road Mannington, WV 26582

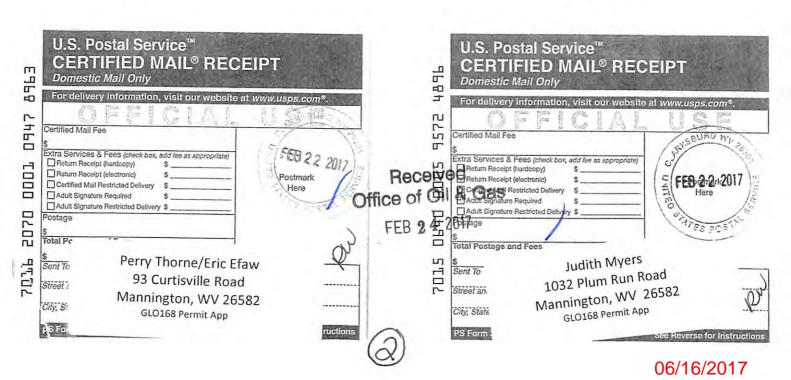
Rick Lambert 459 Curtisville Road Mannington, WV 26582

Perry Thorne/Eric Efaw 93 Curtisville Road Mannington, WV 26582

Judith Myers 1032 Plum Run Road Mannington, WV 26582



470490243



W	W-6A3
	12)

Oil and Gas Privacy Notice:

information, please contact DEP's Chief Privacy Officer at deporivacyofficer@WV.gov.

Operator	Well N	lo.	124799	

STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS NOTICE OF ENTRY FOR PLAT SURVEY

Notice Time Re	quirement: Notice shall be provided a	t least SEVEN (7) days but no more than FOR	
Date of Notice:	12/4/2015	Date of Planned Er	ntry: 12/11/2015
Delivery metho	d pursuant to West Virginia Code §	22-6A-10(a):	
PERSONAL	L SERVICE X CERTIFIED MAIL	METHOD OF DELIVERY THAT REQU	JIRES A RECEIPT OR SIGNATURE CONFIRMATION
tract to conduct prior to such en pursuant to sec records. The no and gas explora	any plat surveys required pursuant to stry to: (1) The surface owner of such stion thirty-six, article six, chapter twe stice shall include a statement that cop ation and production may be obtained it	this article. Such notice shall be provided at l tract; (2) to any owner or lessee of coal sean nty-two of this code; and (3) any owner of pies of the state Erosion and Sediment Contro	provide notice of planned entry on to the surface least seven days but no more than forty-five days are beneath such tract that has filed a declaration minerals underlying such tract in the county tax of Manual and the statutes and rules related to oil ude contact information, including the address for etary.
Notice is hereb	by provided to:		
X SU	RFACE OWNER	COA	AL OWNER OR LESSEE
	oseph Forte John H. Musgrave & Joseph V. Forte)	Name:	
Address: 11	1 Hutchinson Drive, Fairmont, WV 265	Address:	
		MIN	ERAL OWNER(S)
Name:		Name:	
Address:		Address:	
Name:			470490243
			790243
Address:		Address:	attach additional forms if necessary
Notice is here	by given:		The state of the s
		e is hereby given that the undersigned well op	erator is planning entry to conduct a plat survey on
the tract of land			00 5000 (100 100 100 100 100 100 100 100 100
2,44,67	WV	Approx. Latitude & Longitude:	
County:	Marion		CR 7/3 & 7 (Lylac & Curtisville Rds.) Laurel Run
District:	Mannington, Tax Map 49, Parcel 39		
Quadrangle:		Generally Used Farm Name:	Musgrave
obtained from (304-926-0450	the Secretary, at the WV Department	of Environmental Protection headquarters, loc	o oil and gas exploration and production may be cated at 601 57th Street, SE, Charleston, WV 25304 g may be obtained from the Secretary by visiting
Notice is here	eby given by:	Office of Oil & Gas	
	: EQT Production Company	Address	115 Professional Place, Bridgeport, WV 26330
Telephone	The second secon	FEB 2 4 2017 Representative:	Jamie I. Barbour
	9: 304-848-0040		-11 1 2 10
	l: EQTLandEntryNotice@eqt.com	Signature:	_ We L. J. De-

The Office of Oil and Gas processes your personal information, such a name, address and telephone number, as part of regulatory duties. Your personal information may be disclosed to other State agencies or third parties in the normal course of business or as needed to comply with statutory or regulatory requirements, including

Freedom of Information Act requests. Our office will appropriately secure your personal information. If you have any questions about on the secure your personal information.

WW-6A3 (1/12)

Operator	Well No.	124799	
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STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS NOTICE OF ENTRY FOR PLAT SURVEY

Notice Time	Requirement: Notice shall be provided at lea	st SEVEN (7) days but no more than F(DRTY-FIVE (45) days prior to entry.
Date of Notic	e: 12/4/2015	Date of Planned E	Entry: 12/11/2015
Delivery met	hod pursuant to West Virginia Code § 22-6		
PERSON	NAL SERVICE X CERTIFIED MAIL	METHOD OF DELIVERY THAT REQ	UIRES A RECEIPT OR SIGNATURE CONFIRMATION
prior to such a pursuant to s records. The and gas explo	of any plat surveys required pursuant to this entry to: (1) The surface owner of such tract; ection thirty-six, article six, chapter twenty-t notice shall include a statement that copies o	g a permit application, the operator sha article. Such notice shall be provided at (2) to any owner or lessee of coal sea wo of this code; and (3) any owner of if the state Erosion and Sediment Contr the Secretary, which statement shall inc	Il provide notice of planned entry on to the surface least seven days but no more than forty-five days ms beneath such tract that has filed a declaration minerals underlying such tract in the county tax of Manual and the statutes and rules related to oil clude contact information, including the address for
Notice is her	eby provided to:		
XS	URFACE OWNER	47 7 4 co	AL OWNER OR LESSEE
	Joseph Forte	1	TE OWNER ON ELECTE
	(John H. Musgrave, Joseph V. Forte & Matild Henry)	a / Name:	
Address:	11 Hutchinson Drive, Fairmont, WV 26554	Address:	
		MIN	ERAL OWNER(S)
Name:		Name:	
Address:		Address:	
Name:			
rianie.		Name:	
Address:		Address:	
Notice is her	eby given:	*Flease	attach additional forms if necessary
	/est Virginia Code § 22-6A-10(a), notice is he	reby given that the undersigned well op	erator is planning entry to conduct a plat survey on
State:	WV	Approx. Latitude & Longitude:	39 52384/-80 43652
County:	Marion		CR 7/3 & 7 (Lylac & Curtisville Rds.)
District:	Mannington, Tax Map 49, Parcel 39.1		Laurel Run
Quadrangle:		Generally Used Farm Name:	
(304-926-045)	the Secretary, at the WV Department of Env	ronmental Protection headquarters, loc	o oil and gas exploration and production may be ated at 601 57th Street, SE, Charleston, WV 25304 g may be obtained from the Secretary by visiting
Notice is her	eby given by:	Office of Oil & Gas	
Well Operator	: EQT Production Company		115 Professional Place, Bridgeport, WV 26330
Telephone		FEB 24 2017 Address: EQT Representative:	Jamie I. Barbour
Facsimile	304-848-0040		72299
Email	: EQTLandEntryNotice@eqt.com	Signature:	- tiller 13 30
said as page To			7

Oil and Gas Privacy Notice:

The Office of Oil and Gas processes your personal information, such a name, address and telephone number, as part of regulatory duties. Your personal information may be disclosed to other State agencies or third parties in the normal course of business or as needed to comply with statutory or regulatory requirements, including Freedom of Information Act requests. Our office will appropriately secure your personal information. If you have any questions about our 05/oil 6/12/03-00-al information, please contact DEP's Chief Privacy Officer at depprivacyofficer@WV.qov.

WW-6A3 (1/12) Operator Well No. 124805

STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS NOTICE OF ENTRY FOR PLAT SURVEY

Date of Notic	e: 12/4/2015	Date of Planned Entry: 12/11/2015
Delivery meth	nod pursuant to West Virginia Code § 22-6	6A-10(a):
PERSON	NAL SERVICE X CERTIFIED MAIL	METHOD OF DELIVERY THAT REQUIRES A RECEIPT OR SIGNATURE CONFIRMATION
tract to condu- prior to such e pursuant to se records. The r and gas explo	ct any plat surveys required pursuant to this entry to: (1) The surface owner of such tract ection thirty-six, article six, chapter twenty-t notice shall include a statement that copies of tration and production may be obtained from	ng a permit application, the operator shall provide notice of planned entry on to the surface article. Such notice shall be provided at least seven days but no more than forty-five days; (2) to any owner or lessee of coal seams beneath such tract that has filed a declaration two of this code; and (3) any owner of minerals underlying such tract in the county tax of the state Erosion and Sediment Control Manual and the statutes and rules related to oi the Secretary, which statement shall include contact information, including the address for ace owner to obtain copies from the secretary.
Notice is here	eby provided to:	
	SURFACE Thomas B. Wright c/o Martha Arnold	COAL OWNER OR LESSEE Name:
, tame.	oro warma ranora	Name.
Address:	808 Gaston Ave., Fairmont, WV 26554	Address:
		MINERAL OWNER(S)
Name:		Name:
Address:		Address:
Name:		No. rest
Address:		Address:
Notice is her	eby given:	Figure anach additional forms disconstant
Pursuant to W		ereby given that the undersigned well operator is planning entry to conduct a plat survey or
State:	WV	Approx. Latitude & Longitude: 39.52384/-80.43652
County:	Marion	Public Road Access: CR 7/3 (Lylac Road)
District:	Mannington/Tax Map 49 Parcel 38	Watershed: Laurel Run
Quadrangle:	Glover Gap	Generally Used Farm Name: Wright
obtained from (304-926-045	the Secretary, at the WV Department of Environment	ual and the statutes and rules related to oil and gas exploration and production may be vironmental Protection headquarters, located at 601 57th Street, SE, Charleston, WV 25304 information related to horizontal drilling may be obtained from the Secretary by visiting
Notice is her	reby given by:	Descived
	r: EQT Production Company	Received 115 Professional Place, Bridgeport, WV 26330
Telephone		EQT Representative: Jamie I. Barbour
Facsimile		FEB 2 4 2017
Emai		Signature: Succes Da. 606
The Office of	Privacy Notice: Oil and Gas processes your personal informat ay be disclosed to other State agencies or thir	ion, such as name, address and telephone number, as part of regulatory duties. Your personal disparties in the normal course of business or as needed to comply with statutory or regulator

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.

WW-6A3 (1/12)

Operator Well No.	124799
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STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS NOTICE OF ENTRY FOR PLAT SURVEY

Notice Time Re	equirement: Notice shall be provided at least S	EVEN (7) days but no more than	FORTY-	FIVE (45) days prior to entry.
Date of Notice	: 12/4/2015	Date of Planne	d Entry:	12/11/2015
Delivery metho	od pursuant to West Virginia Code § 22-6A-1	O(a):		
PERSONA	AL SERVICE X CERTIFIED MAIL	METHOD OF DELIVERY THAT F	REQUIRES	A RECEIPT OR SIGNATURE CONFIRMATION
tract to conduct prior to such er pursuant to ser records. The no and gas explora	est Virginia Code § 22-6A-10(a), prior to filing a tany plat surveys required pursuant to this articularly to: (1) The surface owner of such tract; (2) action thirty-six, article six, chapter twenty-two police shall include a statement that copies of the ation and production may be obtained from the the Secretary's web site, to enable the surface	tle. Such notice shall be provided to any owner or lessee of coal of this code; and (3) any owner a state Erosion and Sediment Coscoretary, which statement shall	d at least seams be r of miner ontrol Mar	seven days but no more than forty-five days neath such tract that has filed a declaration rals underlying such tract in the county tax nual and the statutes and rules related to oil ontact information, including the address for
Notice is herel	by provided to:			
SU	JRFACE OWNER	X	COAL OW	/NER OR LESSEE
Name:				tion Coal Co.
Address:			CNX Cent	ng and Operations Support Coal Dept. er, 1000 Consol Energy Drive rg, PA 15317-6506
			MINERAL	OWNER(S)
Name:				
Address:		Address:		
Name:		Name:		
Address:		Address:		
Notice is here	by given:	-р	ease attach add	iltonal forms if necessary
	est Virginia Code § 22-6A-10(a), notice is hereb	y given that the undersigned wel	l operator	is planning entry to conduct a plat survey on
State:	WV	Approx. Latitude & Longitud	de: 39.5	52384/-80.43652
County:	Marion	Public Road Acce		7/3 & 7 (Lylac & Curtisville Rds.)
District:	Mannington, Tax Map 49, Parcels 39 & 39.1	Watersh	ed: Lau	
Quadrangle:	Glover Gap	Generally Used Farm Nar	ne: Mus	sgrave
obtained from (304-926-0450	state Erosion and Sediment Control Manual at the Secretary, at the WV Department of Environ)). Copies of such documents or additional info ov/oil-and-gas/pages/default.aspx.	mental Protection headquarters, ormation related to horizontal di	located a	t 601 57th Street, SE, Charleston, WV 25304
Notice is here		Office of Oil &	100	
Well Operator:	EQT Production Company	FEB 2 4 APPLYS		Professional Place, Bridgeport, WV 26330
Telephone:		EQT Representativ		•
Facsimile:	304-848-0040			1 1
Email:	EQTLandEntryNotice@eqt.com	Signatur	e:	Acces 1260
.60.07.17.1			3,	4

Oil and Gas Privacy Notice:

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

STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS NOTICE OF ENTRY FOR PLAT SURVEY

Notice Time F	Requirement: Notice shall be provided at le	east SEVEN (7) days but no more than	n FORTY-FIVE (45) days prior to entry.
Date of Notice	e: 12/4/2015	Date of Planne	ed Entry: 12/11/2015
Delivery meth	od pursuant to West Virginia Code § 22	-6A-10(a):	
PERSON	AL SERVICE X CERTIFIED MAIL	METHOD OF DELIVERY THAT F	REQUIRES A RECEIPT OR SIGNATURE CONFIRMATION
prior to such e pursuant to se records. The n and gas exploi	of any plat surveys required pursuant to the entry to: (1) The surface owner of such tra ection thirty-six, article six, chapter twenty notice shall include a statement that copies	is article. Such notice shall be provide ct; (2) to any owner or lessee of coal y-two of this code; and (3) any owne s of the state Erosion and Sediment C m the Secretary, which statement shal	shall provide notice of planned entry on to the surface d at least seven days but no more than forty-five days seams beneath such tract that has filed a declaration of minerals underlying such tract in the county tax control Manual and the statutes and rules related to oil include contact information, including the address for secretary.
Notice is here	by provided to:		
S	URFACE OWNER	X	COAL OWNER OR LESSEE
Name:			Murray American Energy, Inc. Attn.: Troy Freels
_			1 Bridge Street
Address:			Monongah, WV 26554
			MINERAL OWNER(S)
Name:		Name:	
Address:		Address:	
Name:		Name:	470
Address:			^r ease attach addirional forms if necessary
			ease affach additional forms if necessary
Pursuant to W the tract of lan	est Virginia Code § 22-6A-10(a), notice is	hereby given that the undersigned wel	ll operator is planning entry to conduct a plat survey on
State:	WV	Approx. Latitude & Longitu	de: 39.52384/-80.43652
County:	Marion	Public Road Acce	
District:	Mannington, Tax Map 49, Parcels 39 & 3	9.1 Watersh	
Quadrangle:	Glover Gap	Generally Used Farm Nar	me: Musgrave
obtained from (304-926-045)	the Secretary, at the WV Department of E	nual and the statues and rules relate nvironmental Protection headquarters, al information related to horizontal di	ed to oil and gas exploration and production may be located at 601 57th Street, SE, Charleston, WV 25304 rilling may be obtained from the Secretary by visiting
Notice is here		Received	
	EQT Production Company	Office of Oil & Gas	115 Professional Place Pridesport WV 00000
	: 304-848-0074	FEB 2 407 Representative	ss: 115 Professional Place, Bridgeport, WV 26330 /e: Jamie I. Barbour
Facsimile		- Lat Heprosentativ	- January Darbour
	: EQTLandEntryNotice@eqt.com	Signatur	re: Attour / Salas
28		3.375.65	7

Oil and Gas Privacy Notice:

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

STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS NOTICE OF 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 Noti	ce: 02/21/2017	Date	ed at least TEN (10) days prior to filing a Permit Application Filed: 02/21/2017	
Delivery me	thod pursuant (to West Virginia Code	e § 22-6A-16(b)	
M HAND	in in	CERTIFIED MAIL		
DELIVI			REOLIEGTED	
DELIVI	EKI	RETURN RECEIPT	REQUESTED	
receipt reque drilling a hor of this subsection mand if available	sted or hand del rizontal well: Protion as of the data be waived in ole, facsimile number of the data was be waived in ole, facsimile number of the data was a second to be	ivery, give the surface rovided, That notice gi ate the notice was prov writing by the surface mber and electronic ma	owner notice of its intent to enter upon to ven pursuant to subsection (a), section to ided to the surface owner: <i>Provided, how</i> owner. The notice, if required, shall included ail address of the operator and the operator	, an operator shall, by certified mail return he surface owner's land for the purpose of en of this article satisfies the requirements wever, That the notice requirements of this lude the name, address, telephone number, or's authorized representative.
Notice is he	reby provided	to the SURFACE	OWNER(s):	
Name: see atta	ched		Name:	
Address:			Address:	
Pursuant to V the surface or	wner's land for t	ode § 22-6A-16(b), not he purpose of drilling a	a horizontal well on the tract of land as for	
Pursuant to V the surface or	Vest Virginia Co wner's land for t	ode § 22-6A-16(b), not he purpose of drilling a	a horizontal well on the tract of land as for	ollows:
Pursuant to V the surface of State:	Vest Virginia Co	ode § 22-6A-16(b), not he purpose of drilling a	a horizontal well on the tract of land as for Easting:	well operator has an intent to enter upon ollows: 548,428.97 4,375,051.30
Pursuant to V the surface of State: County:	Vest Virginia Co wner's land for t West Virginia	ode § 22-6A-16(b), not he purpose of drilling a	a horizontal well on the tract of land as for	bllows: 548,428.97
Pursuant to V the surface of State: County: District:	Vest Virginia Co wner's land for t West Virginia Marion	ode § 22-6A-16(b), not he purpose of drilling a	a horizontal well on the tract of land as for Easting: UTM NAD 83 Easting: Northing:	bllows: 548,428.97 4,375,051.30
Pursuant to V the surface of State: County: District: Quadrangle:	Vest Virginia Co wner's land for t West Virginia Marion Mannington	ode § 22-6A-16(b), not he purpose of drilling a	a horizontal well on the tract of land as for the second s	bllows: 548,428.97 4,375,051.30 Co Rt. 7/4
Pursuant to V the surface of State: County: District: Quadrangle: Watershed:	Vest Virginia Co wner's land for t West Virginia Marion Mannington Glover Gap Laurel Run	he purpose of drilling a	a horizontal well on the tract of land as for the second s	bllows: 548,428.97 4,375,051.30 Co Rt. 7/4
Pursuant to V the surface of State: County: District: Quadrangle: Watershed: This Notice Pursuant to facsimile nur related to hoo located at 60	West Virginia Cowner's land for the West Virginia Marion Mannington Glover Gap Laurel Run Shall Include West Virginia Comber and electronizontal drilling 157th Street, SE,	the purpose of drilling and the purpose of drilling and the purpose of drilling and the purpose of drilling and the purpose of the purp	a horizontal well on the tract of land as for Easting: Northing: Public Road Access: Generally used farm name: his notice shall include the name, address authorize the Secretary, at the WV Department of	bllows: 548,428.97 4,375,051.30 Co Rt. 7/4
Pursuant to V the surface of State: County: District: Quadrangle: Watershed: This Notice Pursuant to facsimile nur related to hoo located at 60 Notice is he	West Virginia Cowner's land for towner's land land land land land land land land	the purpose of drilling and the purpose of drilling and the purpose of drilling and the purpose of drilling and the purpose of the purpos	a horizontal well on the tract of land as for Easting: Northing: Public Road Access: Generally used farm name: his notice shall include the name, address authorize the Secretary, at the WV Department of the Secretary, at the WV Department of the Secretary at	bllows: 548,428.97 4,375,051.30 Co Rt. 7/4 Equitrans LP. ress, telephone number, and if available, ed representative. Additional information of Environmental Protection headquarters, ep.,wv.gov/oil-and-gas/pages/default.aspx.
Pursuant to V the surface of State: County: District: Quadrangle: Watershed: This Notice Pursuant to facsimile nur related to hos located at 60 Notice is he Well Operato	West Virginia Cowner's land for the West Virginia Marion Mannington Glover Gap Laurel Run Shall Include West Virginia Comber and electronizated drilling 157th Street, SE, areby given by the EQT Production of the Street Series of the Street	the purpose of drilling and the purpose of drilling and the purpose of drilling and the purpose of drilling and the purpose of the pu	his notice shall include the name, addrhe operator and the operator's authorized the Secretary, at the WV Department of Authorized Representative: Authorized Representative:	ollows: 548,428.97 4,375,051.30 Co Rt. 7/4 Equitrans LP. ress, telephone number, and if available, ed representative. Additional information of Environmental Protection headquarters, ep.wv.gov/oil-and-gas/pages/default.aspx. Victoria J. Roark
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Pursuant to V the surface of State: County: District: Quadrangle: Watershed: This Notice Pursuant to facsimile nur related to hoo located at 60 Notice is he	West Virginia Cowner's land for towner's land land land land land land land land	the purpose of drilling and the purpose of drilling and the purpose of drilling and the purpose of the purpose	his notice shall include the name, addrhe operator and the operator's authorized the Secretary, at the WV Department of Authorized Representative: Authorized Representative: Address: Bridgrport, WV 26330	ollows: 548,428.97 4,375,051.30 Co Rt. 7/4 Equitrans LP. ress, telephone number, and if available, ed representative. Additional information of Environmental Protection headquarters, ep.,wv.gov/oil-and-gas/pages/default.aspx. Victoria J. Roark 115 Professional Place

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. FEB 2 4 2017

WW-6A5 (1/12)

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

Notice Time Date of Noti	Requirement: notice shall be prov ce: 221 7 Date Per	rided no later than the filing date of rmit Application Filed:	permit application.
Delivery me	thod pursuant to West Virginia C	ode § 22-6A-16(c)	
	FIED MAIL RN RECEIPT REQUESTED	☐ HAND DELIVERY	
the planned or required to be drilling of a damages to the (d) The notice of notice.	operation. The notice required by provided by subsection (b), section horizontal well; and (3) A proposed surface affected by oil and gas oper required by this section shall be g	er than the date for filing the permit the surface owner whose land will be this subsection shall include: (1) A in ten of this article to a surface owner of surface use and compensation ago perations to the extent the damages a given to the surface owner at the add	it application, an operator shall, by certified mail used for the drilling of a horizontal well notice of A copy of this code section; (2) The information or whose land will be used in conjunction with the greement containing an offer of compensation for re compensable under article six-b of this chapter. dress listed in the records of the sheriff at the time
Notice is her	eby provided to the SURFACE O's listed in the records of the sheriff	WNER(s)	
at the addres		The state of the s	
Name: see attac	hed	Name:	
Address:	eby given: /est Virginia Code § 22-6A-16(c), n	notice is hereby given that the unders	signed well operator has developed a planned
Notice is her Pursuant to Woperation on State:	eby given: Test Virginia Code § 22-6A-16(c), no the surface owner's land for the pur West Virginia Marion	Address: notice is hereby given that the unders rpose of drilling a horizontal well on UTM NAD 83 East North	signed well operator has developed a planned the tract of land as follows:
Notice is her Pursuant to Woperation on State: County: District:	eby given: Yest Virginia Code § 22-6A-16(c), no the surface owner's land for the pur West Virginia Marion Mannington	Address: notice is hereby given that the unders rpose of drilling a horizontal well on UTM NAD 83 East Nort Public Road Access:	signed well operator has developed a planned the tract of land as follows: ting: 548,428.97 thing: 4,375,051.30 Co Rt. 7/4
Address:	eby given: Test Virginia Code § 22-6A-16(c), no the surface owner's land for the pur West Virginia Marion	Address: notice is hereby given that the unders rpose of drilling a horizontal well on UTM NAD 83 East North	signed well operator has developed a planned the tract of land as follows: ting: 548,428.97 thing: 4,375,051.30 Co Rt. 7/4
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Notice is her Pursuant to W operation on State: County: District: Quadrangle: Watershed: Fhis Notice S Pursuant to W o be provide norizontal we surface affect information r neadquarters, gas/pages/def	eby given: Yest Virginia Code § 22-6A-16(c), not the surface owner's land for the pur West Virginia Marion Mannington Glover Gap Laurel Run Mall Include: Yest Virginia Code § 22-6A-16(c), the distribution of the pur West Virginia Code § 22-6A-10(b) (a); and (a) A proposed surface use a mediated to horizontal drilling may be blocated at 601 57th Street, SE, mult.aspx.	Address:	signed well operator has developed a planned the tract of land as follows: ting: 548,428.97 thing: 4,375,051.30 Co Rt. 7/4 Equitrans LP of this code section; (2) The information required ill be used in conjunction with the drilling of a ming an offer of compensation for damages to the ole under article six-b of this chapter. Additional ne WV Department of Environmental Protection -0450) or by visiting www.dep.wv.gov/oil-and-
Notice is her Pursuant to Woperation on State: County: District: Quadrangle: Watershed: This Notice Solution of the provide norizontal we surface affect information readquarters, gas/pages/def	eby given: Yest Virginia Code § 22-6A-16(c), not the surface owner's land for the pur West Virginia Marion Mannington Glover Gap Laurel Run hall Include: Yest Virginia Code § 22-6A-16(c), the distriction of the pur West Virginia Code § 22-6A-10(b) (b) (c) and (d) A proposed surface use a ged by oil and gas operations to the elated to horizontal drilling may be located at 601 57th Street, SE. Bult.aspx.	Address:	signed well operator has developed a planned the tract of land as follows: ting: 548.428.97 thing: 4.375,051.30 Co Rt. 7/4 tame: Equitrans LP of this code section; (2) The information required fill be used in conjunction with the drilling of a ming an offer of compensation for damages to the ole under article six-b of this chapter. Additional ne WV Department of Environmental Protection 1-0450) or by visiting www.dep.wv.gov/oil-and-
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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. DEP's Chief Privacy Officer at depprivacyofficer@wv.gov. Office of Oil & Gas

FEB 24 2017

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*, *Inowever*. 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.

Surface Own		reby state that I have read the notice pr	ovisions listed	l above and hereby waive the
notice require		irginia Code § 22-6A-16(b) for the trac		
State:	West Virginia	UTM NAD 83	Easting:	548,428.97
County:	Marion	OTM NAD 83	Northing:	4,375,051.30
District:	Mannington	Public Road Ac	cess:	Co Rt. 7/4
Quadrangle:	Glover Gap	Generally used	farm пате:	Equitrans LP.
Watershed:	Laurel Run			
Name: Equitra Address: 625 Pittsburgh PA 15:	iberly Ave Suite 1700	Signature: Date:	Pals 2/21/	4 9 teen

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.

Received Office of Oli & Gas

API NO. 47- 049	
OPERATOR WELL NO.	GLO168H2
Well Pad Name: GLO168	

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 Pravisions

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

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

, hereby state that I have read the Instructions to Persons Named on Page WW-6A and the associated [Raiph Deer provisions listed above, and that I have received copies of a Notice of Application, an Application for a Well Work Permit on Form , including the crosion and sediment control plan, if WW-6A and attachments consisting of pages one (1) through required, and the well plat, all for proposed well work on the tract of land as follows: Easting: 548,428 97 West Virginia State: UTM NAD 83 Northing: 4,375,051.30 Marion County: Public Road Access: Co Rt. 7/4 District: Mannington Generally used farm name: Equitrans LP Quadrangle: Glover Gop Watershed: Laurel Run I further state that I have no objection to the planned work described in these materials, and that no objection to a permit being issued on those materials. *Please check the box that applies 回 SURFACE OWNER Signature: Print Name: ■ SURFACE OWNER (Road and/or Other Disturbance) Date: ■ SURFACE OWNER (Impoundments/Pits) FOR EXECUTION BY A CORPORATION, ETC. Company: Equitans LP ☐ COAL OWNER OR LESSEE By: Reton Deer Its: VP Land ☐ COAL OPERATOR ☐ WATER PURVEYOR

Oil and Gas Privacy Notice:

OPERATOR OF ANY NATURAL GAS STORAGE FIELD

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 chicagon appropriately secure your personal information. If you have any questions about our use or your personal information. Office of Oll & Gas DEP's Chief Privacy Officer at deportivacyofficertanwy.gov.

Surface Owners:

Equitrans, LP 625 Liberty Ave., Suite 1700 Pittsburgh, PA 15222

Thomas B. Wright Heirs C/O Martha Arnold 808 Gaston Ave. Fairmont, WV 26554

Joseph V. Forte John H. Musgrave & Matilda Henry C/O Joseph Forte 11 Hutchinson Dr. Fairmont, WV 26554

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5	Thomas B. Wright H	eirs ,
Sent To	c/o Martha Arnol	d
Street a	818 Gaston Ave.	(134
City, Sta	Fairmont WV 2655	54
PS Form	GLO168 Permit App. and Plan	ned Op.

9076	U.S. Postal Service™ CERTIFIED MAIL® RECEIPT Domestic Mail Only For delivery information, visit our website at www.usps.com®.
7460 LOOD 0705	Certified Mail Fee \$ Extra Services & Fees (check box, add fee as appropriate) Return Receipt (hardcopy)
7076	S Joseph V Forte, John H Musgrave, Matilda Henry Sent To c/o Joseph Forte Street 11 Hutchinson Dr. Fairmont WV 26554 City, St GLO168 Permit App and Planned Op. PS For

Surface Owners Access road & Other disturbance

Equitrans, LP 625 Liberty Ave., Suite 1700 Pittsburgh, PA 15222

Thomas B. Wright Heirs C/O Martha Arnold 808 Gaston Ave. Fairmont, WV 26554

Joseph V. Forte John H. Musgrave & Matilda Henry C/O Joseph Forte 11 Hutchinson Dr. Fairmont, WV 26554



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Surface Owner, AST

Equitrans, LP 625 Liberty Ave., Suite 1700 Pittsburgh, PA 15222

Joseph V. Forte
John H. Musgrave &
Matilda Henry
C/O Joseph Forte
11 Hutchinson Dr.
Fairmont, WV 26554

4704902434



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

February 17, 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 GLO 168 Pad Site, Marion County

OI OI COTTA	Market Street,	County	
GLO168H1	41-02434 GLO168H2	GLO168H3	GLO168H4
GLO168H5	GLO168H6	GLO168H7	
GLO168H9	GLO168H10		GLO168H8
GLO168H13		GLO168H11	GLO168H12
· 아이들이 있는 안 사용하여 전혀 다른	GLO168H14	GLO168H15	GLO168H16
GLO168H17	GLO168H18	GLO168H19	GLO168H20
GLO168H21	GLO168H22		
	02.01001122	GLO168H23	GLO168H24

Dear Mr. Martin.

Jim Justice

Governor

This well site will be accessed from Permit # 04-2016-0799 issued to EQT Production Company for access to the State Road. The well site is located off of Marion County Route 7/3 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. 47049024

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

Received Office of Oil & Gas

FEB 2 4 2017

06/16/2017

Chemical Names and CAS numbers for Frac additives

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

4704902434

WELL LEGEND

GLO 168 H1 - LAT: 39.523705 / LONG. -80.436555

GLO 168 H2 - LAT: 39.523745 / LONG. -80.436545 GLO 168 H3 - LAT: 39.523785 / LONG. -80.436535

GLO 168 H4 - LAT: 39.523826 / LONG. -80.436524 GLO 168 H5 - LAT: 39.523866 / LONG. -80.436514

GLO 168 H6 - LAT: 39.523907 / LONG. -80.436503 GLO 168 H7 - LAT: 39.523947 / LONG. -80.436493 GLO 168 H8 - LAT: 39.523987 / LONG. -80.436482

GLO 168 H9 - LAT: 39.524028 / LONG: -80.436472

GLO 168 H10 - LAT: 39.524068 / LONG. -80.436461 GLO 168 H11 - LAT: 39.524108 / LONG. -80.436451

GLO 168 H12 - LAT: 39.524149 / LONG. -80.436441 GLO 168 H13 - LAT: 39.524189 / LONG. -80.436430 GLO 168 H14 - LAT: 39.524230 / LONG. -80.436420 GLO 168 H15 - LAT: 39.524270 / LONG. -80.436409 GLO 168 H16 - LAT: 39.523698 / LONG. -80.436648

GLO 168 H17 - LAT: 39.523738 / LONG. -80.436637

GLO 168 H18 - LAT: 39.523779 / LONG. -80.436627 GLO 168 H19 - LAT: 39 523819 / LONG -80 436616

GLO 168 H20 - LAT: 39.523859 / LONG. -80.436606

GLO 168 H21 - LAT: 39.523900 / LONG. -80.436595 GLO 168 H22 - LAT: 39.523940 / LONG. -80.523585

GLO 168 H23 - LAT: 39.523981 / LONG. -80.436574

GLO 168 H24 - LAT: 39.524021 / LONG. -80.436564 GLO 168 H25 - LAT: 39.524061 / LONG. -80.436554

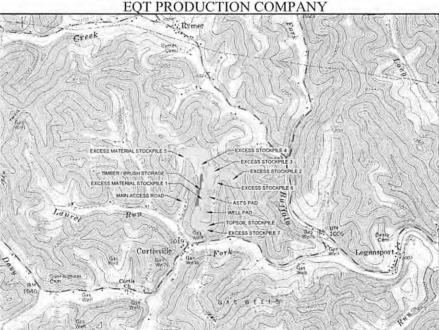
GLO 168 H26 - LAT: 39.524102 / LONG. -80.436543

GLO 168 H27 - LAT: 39.524142 / LONG. -80.436533 GLO 168 H28 - LAT: 39.524182 / LONG. -80.436522

GLO 168 H29 - LAT: 39.524223 / LONG. -80.436512 GLO 168 H30 - LAT: 39.524263 / LONG. -80.436501

EQT - GLO 168 FINAL SITE DESIGN, CONSTRUCTION PLANS, &

EROSION & SEDIMENT CONTROL PLANS



- A 182	EXCESS STOCKPILE 3	
RAGE	EXCESS STOCKPILE 2	
KPILE 1	EXCESS STOCKPILE 6	
ROAD	2 3	
	ASTS PAD WELL PAD TOPSOIL STOCKPILE	(81) July 30 1 1 1
	WELL PAD	
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	GLOVER GAP QUATI	
-	1000 2000 3000	WELL LOCATION RESTRICTIONS

The drawings, construction notes, and reference diagrams attached hereto have been prepared in accordance with the West Virginia Code of State Rules, Division of Environmental Protection, Office of

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

Homor Brothers Engineers make no certifications relating to the design, construction (Storage Tank (AST)



TOPSOIL STOCKPILE + 2 M ACRES EYCESS MATERIAL STOCKPILE + 3 WELL PAD + 121 ACRES

TIMBER REMOVAL = 7 94 ACRES

MAIN ACCESS ROAD = 8 27 ACRES ASTS PAD = 1 27 ACRES TIMBER / BRUSH STOMAGE = 1 83 ACRES TOPSCB, STOCKPIE = 1 38 ACRES EXXESS MATERIAL STOCKPIES = 5 04 AC WELL PAD + 2 DE ACRES

TIMBER REMOVAL = 18.12 ACRES

TAX MAP 43 - PARCEL 3A 81 25 ACRES SITE DISTURBANCE

MAIN ACCESS ROAD = 101 ACRES TIMBER / BRUSH STORAGE = 0 44 ACRES EXCESS MATERIAL STOCKFILES = 14 M ACRES

TIMBER REMOVAL = 21 23 ACRES

ASTS PAD = 3 42 ACRES

TIMBER REMOVAL = 14 M ACRES

HEC-RAS STUDY COMPLETED

LOODPLAIN SHOWN ON DRAWINGS

ACREAGES OF CONSTRUCTION IN FLOODPLAIN

FIRM MAP NI MRER(S) FOR SITE

Established By Survey Grade GPS



7/21 1 5/24/2017



Project Contacts

Justin Nixon- EQT Production Company 304-848-0037 Office

Surveyor & Engineer

Ben Singleton - PS - Allegheny Surveys Inc 304-649-8606 Office

Tom Corethers - PE, PS - Hornor Brothers En

Engine

P.O. E

237

THIS DOCUMENT

PREPARED FOR EQT PRODUCTION COMPANY

COVER LUCATION SHEET GLO 168 WELL PAD SITE

SHEET INDEX

NA

N/A

COVER SHEET / LOCATION MAP1
EXISTING CONDITIONS PLAN2
SCHEDULE OF QUANTITIES3
CONSTRUCTION, GENERAL AND EAS NOTES4
OVERVIEW OF SITE DESIGN5
FINAL SITE DESIGN PLANS6-11
WELL PAD PROFILE & CROSS SECTIONS12-14
AST PAD PROFILE & CROSS SECTIONS15-16
MAIN ACCESS ROAD PROFILE & CROSS SECTIONS 17-23
EXCESS MATERIAL STOCKPILES PROFILES & SECTIONS - 24-38
TOPSOIL STOCKPILE PROFILE & CROSS SECTIONS 39-40
CONSTRUCTION DETAILS 41-43
RECLAMATION PLANS

54049C0065D & 54049C0070D

FLOODPLAIN CONDITIONS

DO SITE CONSTRUCTON ACTIVITIES TAKE PLACE IN FLOODPLAIN

PERMIT NEEDED FROM COUNTY FLOODPLAIN COORDINATOR

DATE	REVISIONS	Date: 12/7/2016
		Scale: As Noted
		Designably 12C
		Hickory
	1.	Page (inflight

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.

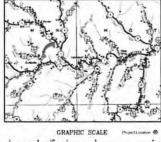
IT'S THE LAW!!



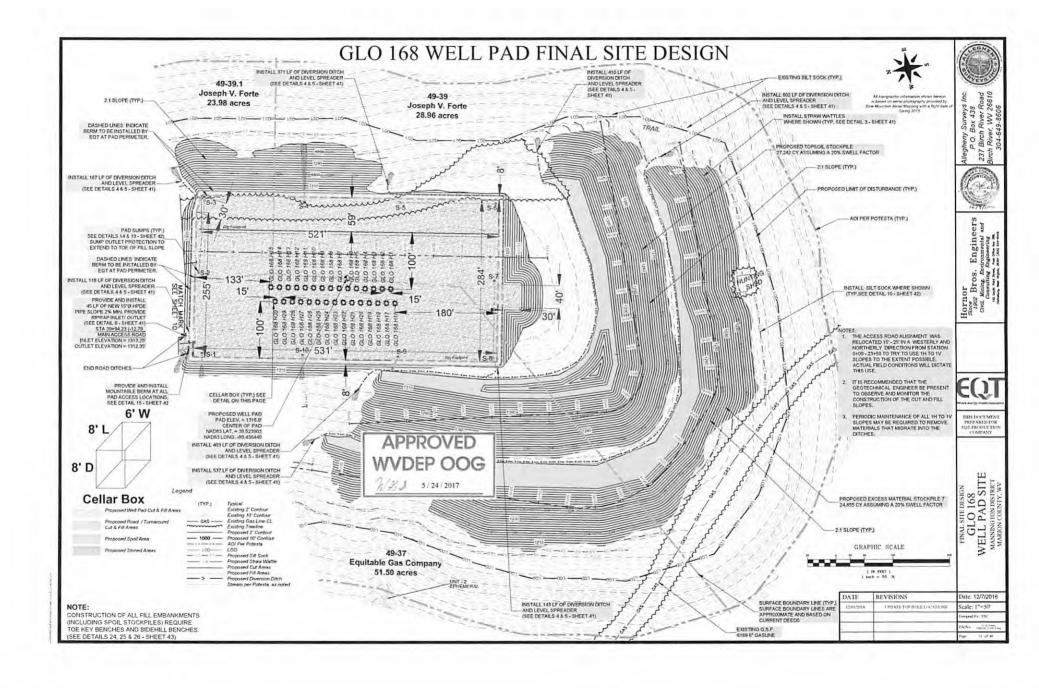
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Know what's below. Call before you dig.



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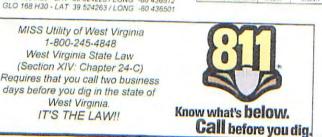
MISS Utility of West Virginia

1-800-245-4848 West Virginia State Law (Section XIV: Chapter 24-C)

days before you dig in the state of West Virginia.

IT'S THE LAW!!

Requires that you call two business Know what's below.

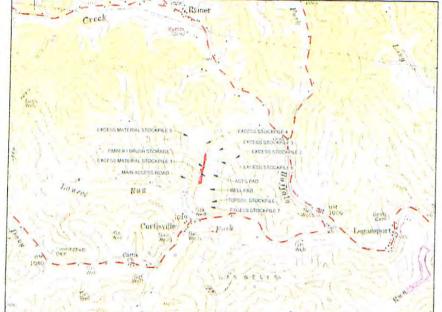


GRAPHIC SCALE

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FINAL SITE DESIGN, CONSTRUCTION PLANS, & **EROSION & SEDIMENT CONTROL PLANS EQT PRODUCTION COMPANY**



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March 1947 and 1947 and 1947



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