

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 16818H

47-049-02442-00-00

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 16818H

Farm Name: EQUITRANS LP

U.S. WELL NUMBER: 47-049-02442-00-00

Horizontal 6A / New Drill

Date Issued: 6/13/2017

Promoting a healthy environment.

API Number:	

PERMIT CONDITIONS

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

CONDITIONS

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

API Number: 9 0 2 4 4 2

PERMIT CONDITIONS

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

4704902442 A

API NO. 47-49 _	
OPERATOR WELL NO. GLO168H18	_
Well Pad Name: GLO168	_

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

1) Well Operator	r: EQT Prod	uction Compa		Marion	Manning	Glover Gap
2) Operator's We	ell Number: G	LO168H18	Operator ID Well Pa	County ad Name: GL	District	Quadrangle
3) Farm Name/Si	urface Owner:	Equitrans LP	Public Ro	ad Access: C	/O Rt 7/4	
	rent ground: a) Gas x Other	1357 Oil	Elevation, proposed	post-construction		
6) Existing Pad: \(\)	Но	allow X rizontal X	Deep			SDW 3/2/2017
	et Formation(s	s), Depth(s), An	ticipated Thickness a	and Expected	Pressure(s):	31212017
8) Proposed Total	Vertical Dept	h: 7722			024.4	
9) Formation at To	otal Vertical D	epth: Marcell	us		- 349	7
10) Proposed Total	al Measured D	epth: 17618				
11) Proposed Hori	izontal Leg Le	ngth: 6366			1	
12) Approximate l			369			
13) Method to Det 14) Approximate S	termine Fresh	Water Depths:	By offset wells			
15) Approximate (, 935, 1032			
			nine, karst, other):	none		
17) Does Proposed directly overlying	l well location or adjacent to	contain coal se an active mine?	ams Yes X	No)	
(a) If Yes, provid	le Mine Info:	Name: Har	rison County Mine			
		Depth: 103	2'			
	Office	Seam! Pitts Soil and C	sburgh as ry Energy Corporat	ion		
	N	AR 0 8 2017				

WV Department of Environmental Protection

WW-68	
(04/15)	

API NO. 47-049 - 02442 OPERATOR WELL NO. GLOISCHIS Well Pad Name: GLOISS

18)

CASING AND TUBING PROGRAM

TYPE	Size (in)	New or Used	<u>Grade</u>	Weight per ft. (lb/ft)	FOOTAGE: For Drilling (ft)	INTERVALS: Left in Well (ft)	CEMENT: Fill-up (Cu. Ft.)/CTS
Conductor	20	New	A-500	78.6	40	40	60 ft^3 / CTS
Fresh Water	13 3/8	New	J-55	54.5	449	449	417 R^3 / CTS
Coal							***************************************
Intermediate	9 5/8	New	A-500	40	3090	3090	1225 R^3 / CTS
Production	5 1/2	New	P-110	20	17618		\$00° above top producing some
Tubing	2 3/8		J-55	4.7		May not be run, if run set 40	
Liners						above top perfor BB melianana	

4704902440 SAW 6/9/2017

TYPE			Wall		1 A	' -	
	Size (in)	<u>Wellbore</u> <u>Diameter (in)</u>	Thickness (in)	Burst Pressure (psi)	Anticipated Max. Internal Pressure (psi)	Cement Type	Cement Yield (cu. ft./k)
Conductor	20	26	.375	1378	1102	Class A	
Fresh Water	13 3/8	17 1/2	.38	2700	2160	See Variance	1.19
Coal							1.10
Intermediate	9 5/8	12 3/8	.395	3950	3160	Class A	1.07
Production	5 1/2	8 1/2	.361	12640	10112	Class A/H	1.123/2.098
Tubing	2 3/8	NA	.19	7700			1.12012.000
Liners							

PACKERS

Kind:		
Sizes:		
Depths Set:		

Page 2 of 3

WW-6B
(10/14)

API NO. 47- 49 OPERATOR WELL NO. GLO168H18
Well Pad Name: GLO168

19) Describe proposed well work, including	g the drilling and	plugging back of	of any pilot hole:
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Drill and complete a new horizontal well in the Marcellus Formation. Drill the vertical to an approximate depth of 5601'. Kick off and drill curve. Drill the lateral in the Marcellus. Cement casing.

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

Hydraulic fracturing is completed in accordance with state regulations using water recycled from previously fractured wells and obtained from freshwater sources. This water is mixed with sand and a small percentage (less than 0.3%) of chemicals (including 15% Hydrochloric acid, gelling agent, gel breaker, 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 200,000 barrels of water per stage. Sand sizes vary from 100 mesh to 20/40 mesh. Average approximately 200,000 pounds of sand per stage.

21) Total Area to be disturbed,	including roads, stock	pile area, pits, etc., (acres): 66.70
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22) Area to be disturbed for well pad only, less access road (acres): 6.40

47₀

- 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:

Conductor: Class A no additives

Surface (Type 1 Cement): 0-3% Calcium Chloride Used to speed the setting of cement slumes, .25% Flake Loss Circulation Material (LCM) is used to combat the loss of the cement slumy to a thief zone. Intermediate (Type 1 Cement): 0-3% Calcium Chloride. Salt is used in shallow, low temperature formations to speed the setting of cement slumes. 0.25% flake. Loss Circulation Material (LCM) is used to combat the loss of whole drilling fluid or cement slumy (not filtrate) to a thief zone.

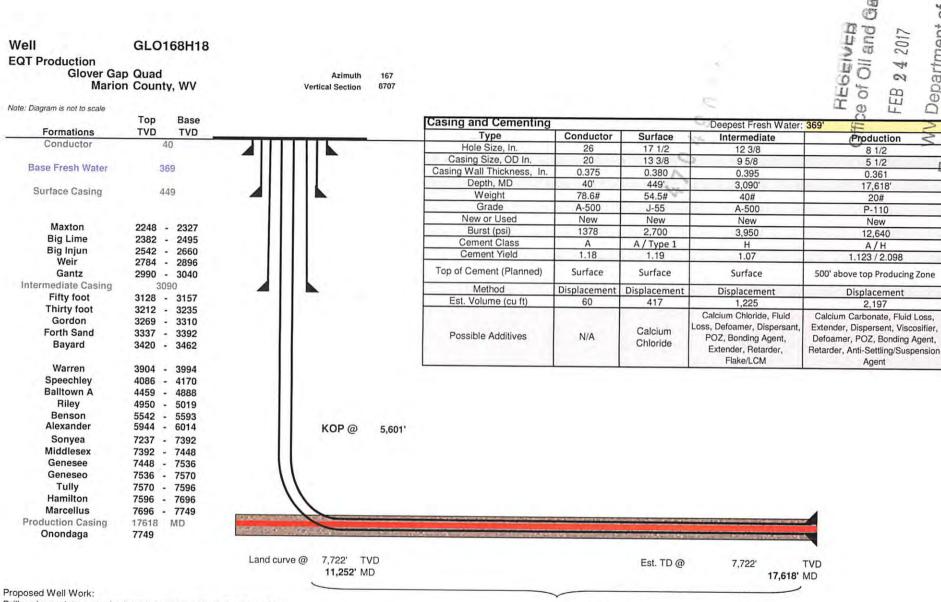
Lead (Type H Cement): 0.2% CD-20 (dispersant makes cement easier to mix). .15% SuperFL-300 (fluid loss/lengthens thickening time) .15% SEC-10 (fluid loss) 50:50 POZ (extender)
Tail (Type H Cement): 0.2% Super CR-1 (Retarder). Lengthens thickening time. .3% Super FL-200 (fluid loss) .2% SEC-10 (Fluid 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.



Drill and complete a new horizontal well in the Marcellus formation. Drill the vertical to an approximate depth of 5601'.

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

6,366' Lateral

Thmental Protection

Department of

Gas

Se of Oil and

Production

8 1/2

5 1/2

0.361

17,618

20#

P-110

New

12,640

A/H

1.123 / 2.098

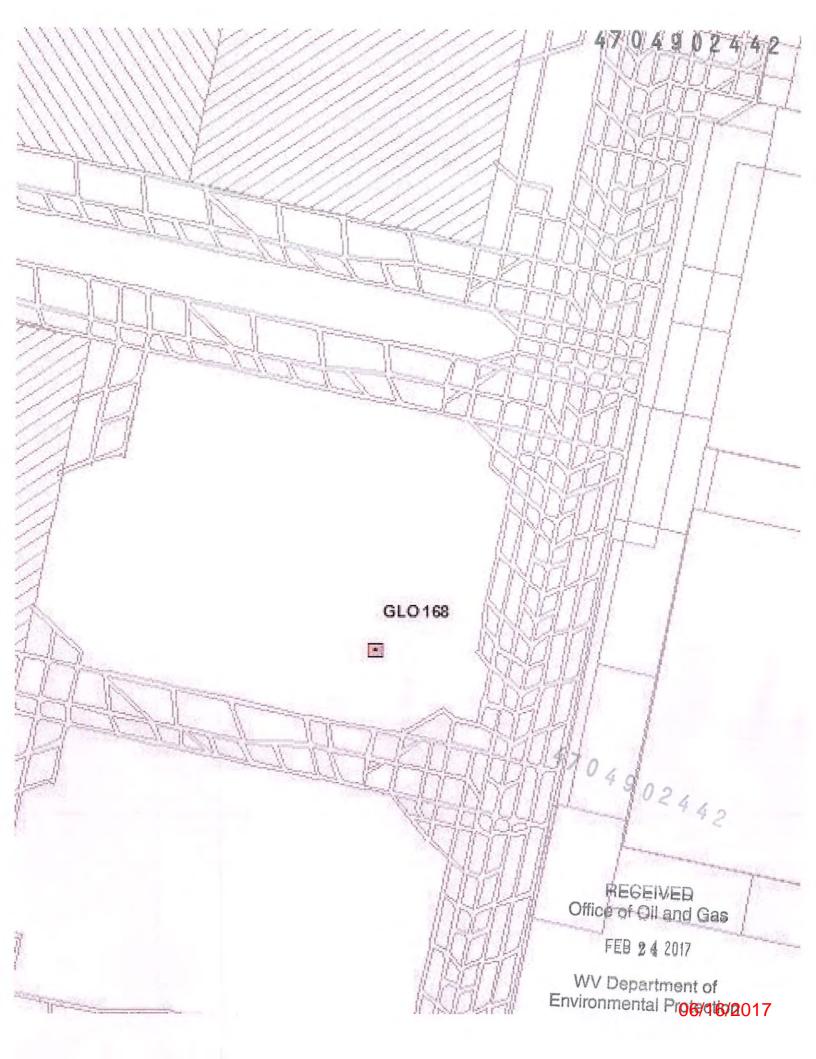
Displacement

2.197

Agent

24

FEB ;



EQT Production

Hydraulic Fracturing Monitoring Plan

Pad ID: GLO168

Marion County, WV

12/21/16

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Office of Oil and Gas

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WV Department of the 1 of 2 Environmental Protection 6/16/2017

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.

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UWI	ABAND DATE	COMP_DATE CURR OPER	ELEVATION FLEW OF	CD					
47049002240000	5/6/1942	8/31/1918 SOUTH PENN OIL	1013 GR	_CD_FNL_STAT ABD-GW	39.5180	LONGITUDE OPER_NAME -80.4405 SOUTH PENN OIL	PROJ_FM_NM	SPUD_DATE TD_FORM_NM	TOT_DEPTH PERMIT
47049002940000	3/13/1968	1/31/1968 EQUITABLE GAS COMPANY	1112 GR	D&A	39.5216	-80.4322 EQUITABLE GAS COMPANY		8/8/1918 BIG INJUN /SD/	2040 00224
47049010080000	3/19/2009	12/22/1918 EQUITABLE GAS COMPANY	1161 GR	ABD-GW	39.5166	-80.4436 EQUITABLE GAS COMPANY		8/29/1967 FIFTH SAND 1/22/1918 HAMPSHIRE	3159 00294
47049010100000	10/3/1954	7/16/1918 EQUITABLE GAS COMPANY	1013 GR	ABD-GW	39.5206	-80.4393 EQUITABLE GAS COMPANY			3174 01008 3225 01010 2954 73011
47049010110000	1/1/1950	4/17/1918 PITTSBURGH & W VA GAS	1260 GR	ABD-OW	39.5173	-80.4318 PITTSBURGH & W VA GAS		3/11/1918 THIRTY FOOT 507	2954 830116
4704901012000C 4704901149000C	10/9/1954	5/24/1918 EQUITABLE GAS COMPANY	1312 GR	ABD-GW	39.5173	-80.4292 EQUITABLE GAS COMPANY		3/30/1918 GORDON_	3131,010120
4704931149000C	5/20/1949 1/12/1939	1/26/1918 RAAD SUPPLY COMPANY	1206 GR	ABD-GW	39.5070	-80.4356 RAAD SUPPLY COMPANY	C .,	12/27/1917 HAMPSHARE	~ 3079 0 T149
4704930346000C	6/10/1942	10/8/1918 HOPE NATURAL GAS 10/21/1918 SOUTH PENN OIL	1156 GR	ABD-GW	39.5208	-80.4412 HOPE NATURAL GAS	45.	9/9/1918 HAMPSHIRE	3079 1145 3074 1023 10 2917 203 10
4704900261000C	11/14/2008	6/1/1964 EQUITABLE GAS COMPANY	1172 GR 1063 GR	ABD-OW	39.5128	80.4281 SOUTH PENN OIL		8/17/1918 THIRTY POT 550	2917(303 G
4704900281000G	1/1/1940	EQUITABLE GAS COMPANY	1083 GR 1038 GR	GSTG ABD-GW	39.5128 39.5158	-80.4423 EQUITABLE GAS COMPANY	* % *	5/2/1964	44 6-005eF
4704900290000C		4/1/1967 EQUITABLE GAS COMPANY	1238 GR	GSTG	39.5158	-80.4524 EQUITABLE GAS COMPANY -80.4397 EQUITABLE GAS COMPANY	o= .	HAMPSHIRE ()	155 (DD2 gD)
4704900292000C		9/1/1967 UNKNOWN	1046 GR	OIL	39.5237	-80.4453 EQUITABLE GAS COMPANY	5 V	3/2/1967 GORDON / 8/2/1967 BIG INLIN /SED	3095-90290-
47049011020000	1/1/1930	UNKNOWN	0 GR	PSEUDO	39.5042	-80.4247 UNKNOWN	C	8/2/196/ BIG INITIAL/SHD	2229020
47049011070000	5/6/1999	UNKNOWN	0 GR	PSEUDO	39.5018	-80.4257 UNKNOWN		R Office	001102
47049011240000	2/2/1999	UNKNOWN	0 GR	PSEUDO	39.4991	80.4200 UNKNOWN	© ₃	Si	>0112¥
47049011680000 47049300120000	1/1/1930	UNKNOWN	0 GR	PSEUDO	39.5065	-80.4253 UNKNOWN	40%	*	≥ 01168
47049300120000	9/30/1997	UNKNOWN	0 GR	PSEUDO	39.5013	-80.4257 UNKNOWN	12.	O	0 30052
47049011310000	7/30/1997 7/30/1999	10/17/1918 N G PENN CO	1020 GR	ABD-GW	39.5194	-80.4349 N G PENN CO	UNKNOWN	7/29/1918 DEVONIAN /SD/	2926 01627
4704970113000C	7/30/1999	CONSOLIDATION COAL DELMAR OIL CORPORATION	0 GR	PSEUDO	39.5078	-80.4275 CONSOLIDATION COAL	ò,		o o li ish
4704901123000C	4/5/1999	CONSOLIDATION COAL	0 GR	PSEUDO	39.5049	-80.4380 DELMAR OIL CORPORATION			0 70113
47049702490000	.,,,,,,,,,	HOPE NATURAL GAS	O GR O GR	PSEUDO	39.5010	80.4195 CONSOLIDATION COAL	A		0 01123
4704930622000C	1/1/1949	7/6/1917 RAAD SUPPLY COMPANY	1298 GR	PSEUDO ABD-GW	39.5266	-80.4423 HOPE NATURAL GAS	•		0 70249
4704930632000C	6/7/1949	6/11/1914 RAAD SUPPLY COMPANY	1216 GR	ABD-GW ABD-OW	39.5151 39.5105	-80.4251 RAAD SUPPLY COMPANY		6/6/1917 BIG INJUN /SD/	2378 30622
4704930668000C	8/28/1950	7/12/1918 PITTSBURGH & W VA GAS	1309 GR	ABD-OW ABD-OW	39.5161	-80.4236 RAAD SUPPLY COMPANY -80.4326 PITTSBURGH & W VA GAS		S/12/1914 THIRTY FOOT SD	2892 30632
4704901009000C	8/4/2009	2/8/1919 EQUITABLE GAS COMPANY	1203 GR	ABD-GW	39.5195	80.4455 EQUITABLE GAS COMPANY		5/23/1918 CHEMUNG	3440 30668
4704901020000C		7/6/1917 SOUTH PENN OIL	1299 GR	GAS	39.5139	-80.4252 SOUTH PENN OIL	UNKNOWN	1/2/1918 GORDON	3220 01009
4704900234000C		4/28/1954 EQUITABLE GAS COMPANY	1266 GR	GSTG	39.5155	-80.4258 EQUITABLE GAS COMPANY	ONKINOVIA	6/7/1917 BIG INJUN /SD/ 2/12/1954 HAMPSHIRE	2278 01020
4704900202000C		EQUITABLE GAS COMPANY	0 GR	GSTG	39.5193	80.4397 EQUITABLE GAS COMPANY		2/12/1934 NAMPSHIKE	2305 00234
4704900223000C	8/25/1931	EQUITABLE GAS COMPANY	1158 GR	ABD-GW	39.5184	80.4339 EQUITABLE GAS COMPANY		HAMPSHIRE	0 00202 2994 00223
47049002350000 47049002000000	8/17/1931	EQUITABLE GAS COMPANY	1140 GR	ABD-GW	39.5141	80.4524 EQUITABLE GAS COMPANY		HAMPSHIRE	3214 00235
47049002000000 47049002010000		8/1/1949 EQUITABLE GAS COMPANY	1156 GR	GSTG	39.5200	80.4406 EQUITABLE GAS COMPANY		7/2/1949 BIG INJUN /SD/	0 00200
4704900207000C		EQUITABLE GAS COMPANY	0 GR	GSTG	39.5212	-80.4380 EQUITABLE GAS COMPANY		, , , , , , , , , , , , , , , , , , , ,	0 00201
47049002080000	11/5/2009	6/1/1950 EQUITABLE GAS COMPANY 8/1/1952 EQUITABLE GAS COMPANY	1232 GR	GSTG	39.5173	-80.4378 EQUITABLE GAS COMPANY		5/2/1950 GORDON	0 00207
47049002110000	1/26/2008	3/1/1950 EQUITABLE GAS COMPANY	1239 GR 1013 GR	GSTG	39.5195	-80.4481 EQUITABLE GAS COMPANY		7/2/1952 GORDON	0 00208
47049002120000	-,,	12/1/1950 EQUITABLE GAS COMPANY	1013 GR 1011 GR	GSTG GSTG	39.5150	-80.4448 EQUITABLE GAS COMPANY		1/30/1950 GORDON	0 00211
4704900217000C		11/1/1950 EQUITABLE GAS COMPANY	1270 GR	GSTG	39.5205 39.5151	-80.4388 EQUITABLE GAS COMPANY		11/1/1950 GORDON	0 00212
4704900220000C		6/1/1951 EQUITABLE GAS COMPANY	1318 GR	GSTG	39.5141	-80.4270 EQUITABLE GAS COMPANY		10/2/1950 GORDON	0 00217
47049002210000		7/1/1951 EQUITABLE GAS COMPANY	1270 GR	GSTG	39.5158	-80.4313 EQUITABLE GAS COMPANY -80.4367 EQUITABLE GAS COMPANY		S/2/1951 GORDON	0 00220
4704900225000C		9/1/1953 EQUITABLE GAS COMPANY	1316 GR	GSTG	39.5141	-80.4349 EQUITABLE GAS COMPANY		6/1/1951 GORDON	0 00221
4704901939000C		EQUITABLE GAS COMPANY	0 GR	GSTG	39.5161	-80.4500 EQUITABLE GAS COMPANY		8/2/1953 GORDON	0 00225
47049019400000		EQUITABLE GAS COMPANY	0 GR	GSTG	39.5181	80.4403 EQUITABLE GAS COMPANY			0 01939
4704900300000C	3/18/1969	2/1/1969 EQUITABLE GAS COMPANY	1248 GR	GSTG	39.5207	80.4493 EQUITABLE GAS COMPANY		1/2/1969 FIFTH SAND	0 01940 3604 00300
4704901017000C 4704901125000C	2/26/1000	INVITATION ENERGY	1220 GR	OIL	39.5093	80.4285 GREENRIDGE OIL		1/2/1505 111 111 34140	2092 01017
4704901125000C	2/26/1999	CONSOLIDATION COAL	0 GR	UNKWN	39.5003	-80.4217 CONSOLIDATION COAL			0 01125
47049301128000C	8/17/1999 7/29/1931	CONSOLIDATION COAL	0 GR	UNKWN	39.5065	-80.4219 CONSOLIDATION COAL			0 01126
47049300500000	12/16/1931	SOUTH PENN OIL	1412 GR	ABD-GW	39.4946	-80.4219 SOUTH PENN OIL		HAMPSHIRE	3488 30034.
4704930642000C	12/10/1949	HOPE CONSTRUCTION & REFINING RAAD SUPPLY COMPANY	1011 GR	ABDOGW	39.5215	-80.4388 HOPE CONSTRUCTION & REFIN	ING	HAMPSHIRE	2759 30050
47049708940000	,,,	UNKNOWN	1228 GR 0 GR	ABD-OW	39.5119	-80.4258 RAAD SUPPLY COMPANY		HAMPSHIRE	2894 30642
4704972287000C		UNKNOWN	O GR	UNKWN	39.4999	-80.4215 UNKNOWN			0 70894
4704972290000C		UNKNOWN	0 GR	UNKWN	39.5372 39.5330	-80.4636 UNKNOWN			0 72287
4704972294000C		UNKNOWN	0 GR	UNKWN	39.5330 39.5280	-80.4410 UNKNOWN -80.4573 UNKNOWN			0 72290
47049722950000		HOPE NATURAL GAS	0 GR	UNKWN	39.5287	-80.4598 HOPE NATURAL GAS			0 72294
4704972319000C		UNKNOWN	0 GR	UNKWN	39.5045	-80.4481 UNKNOWN			0 72295
47049723210000		UNKNOWN	0 GR	UNKWN	39.5128	-80.4478 UNKNOWN			0 72319
47049723220000		UNKNOWN	0 GR	UNKWN	39.5160	-80.4480 UNKNOWN			0 72321
4704972323000C		UNKNOWN	0 GR	UNKWN	39.5202	-80.4382 UNKNOWN			0 72322 0 72323
4704972326000C		UNKNOWN	O GR	UNKWN	39.5155	-80.4300 UNKNOWN			0 72323 · 0 72326
4704972327000C 4704901986000C	12/19/2008	UNKNOWN	O GR	UNKWN	39.5078	-80.4215 UNKNOWN			0 72326
	14/13/2008	CONSOLIDATION COAL	0 GR	UNKWN	39.5271	-80.4592 CONSOLIDATION COAL		UNKNOWN	0 01986

47049020760000 47049020780000 47049004550000 4704972288	4/15/2010 7/23/2010 8/5/2009	CONSOLIDATION COAL CONSOLIDATION COAL 1/1/1981 UNKNOWN UNKNOWN	0 GR 0 GR 1086 GR	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	GORDON STRAY/SD/	UNKNOWN UNKNOWN 12/18/1980 GORDON STRAY/SD/	0 02076 0 02078 3036 00455 72288
--	------------------------------------	---	-------------------------	-----------------------------------	--	--	------------------	---	---

4304902462

RECEIVED Office of Oil and Gas FEB 24 2017 WV Department of Environmental Protection

UWI	Name	Depth Top	Base Depth
47049010210000	PITTSBURGH COAL	885	892
47049010210000	MURPHY /SD/	1007	1055
47049010210000	DUNKARD LITTLE /SD/	1220	1254
47049010210000	FREEPORT	1382	1515
47049010210000	SALT SD /GROUP/	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	1097
47049010200000	DUNKARD LITTLE /SD/	1286	1322
47049010200000	DUNKARD BIG/SD/	1359	1385
47049010200000	FREEPORT	1489	1522
47049010200000	SALT SD 1	1727	1757
47049010200000	SALT SD 2	1792	1834
47049010200000	SALT SD 3	1918	2011
47049010200000	MAXTON/SD/	2144	2161
47049010200000	BIG LIME	2190	2235
47049010200000	KEENER /SD/	2248	2270
47049010200000	BIG INJUN /SD/	2274	
47049004550000	PITTSBURGH COAL	843	

*Perforated formations

470490242-



west virginia department of environmental protection

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

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

March 18, 2014

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

Re: Cement Variance Request

Dear Sir or Madam,

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

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

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

Sincerely,

James Peterson

Environmental Resources Specialist / Permitting

Promoting a healthy environment.

REGEIVED Office of Oil and Gas

FEB 2 4 2017

WV Department of 6/2017 Environmental Protection



west virginia department of environmental protection

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

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

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

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

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
- 4902462 2.) Laboratory testing results indicate that the blend listed in Fact No.1 will achieve a 500 psi compressive strength within 6 hours and a 2,435 psi compressive strength within 24 hours.

Promoting a healthy environment.

REGEIVED Office of Oil and Gas

FEB 2 4 2017

WV Department /96/2017 Environmental Protection

CONCLUSIONS OF LAW

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

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

ORDER

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

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

IN THE NAME OF THE STATE OF WEST VIRGINIA

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

James Martin, Chief Office of Oil and Gas

> REGEINER Office of Oil and Gas

470490244

FEB 2 4 2017 WV Department of Environmental Protection



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

Enc.

4704802442

WW-9 (4/16)

API Number 47 - 49

Operator's Well No. GLO168H18

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

FLUIDS/ CUTTINGS DISPOSAL & RECLAMATION PLAN

Operator Name EQT Production Company	OP Code 306686
Watershed (HUC 10) Laurel Run	Quadrangle Glover Gap
Do you anticipate using more than 5,000 bbls of water to co	
Will a pit be used? Yes No ✓	Tes Tes
If so, please describe anticipated pit waste:	
Will a synthetic liner be used in the pit? Yes	No ✓ If so, what ml.?
Proposed Disposal Method For Treated Pit Wastes	
Land Application	3/2/2017
Underground Injection (UIC Pe	ermit Number 0014, 8462, 4037
Reuse (at API Number Various Off Site Disposal (Supply form)	Way of F. H. H. H.
Off Site Disposal (Supply form Other (Explain	ww-9 for disposal location)
Yes, The	closed loop system will remove drill cuttings from the drilling fluid. The
Will closed loop system be used? If so, describe: drill cutting	ngs are then prepared for transportation to an off-site disposal facility.
Drilling medium anticipated for this well (vertical and horiz	zontal)? Air, freshwater, oil based, etc. See Attached
-If oil based, what type? Synthetic, petroleum, etc.	
Additives to be used in drilling medium? See Attached	470
Drill cuttings disposal method? Leave in pit, landfill, remove	ved offsite, etc. Landfill
-If left in pit and plan to solidify what medium will	be used? (cement, lime, sawdust) N/A
-Landfill or offsite name/permit number? See Attac	
Permittee shall provide written notice to the Office of Oil ar West Virginia solid waste facility. The notice shall be provi where it was properly disposed.	nd Gas of any load of drill cuttings or associated waste rejected at any ded within 24 hours of rejection and the permittee shall also disclose
on August 1, 2005, by the Office of Oil and Gas of the West provisions of the permit are enforceable by law. Violation law or regulation can lead to enforcement action. I certify under penalty of law that I have person application form and all attachments thereto and that, b obtaining the information, I believe that the information penalties for submitting false information, including the post Company Official Signature Company Official (Typed Name) Victoria J. Roark Company Official Title Permitting Supervisor	
Subscribed and sworn before me this 21 day of	February . 2017 Notary Public
My commission expires 4-7-2020	Control and Contro

4704902442

Operator's Well No. GLO168H18

Proposed Revegetation Treat	tment: Acres Disturbed	Prevegetation pl	6.2
Lime 3	Tons/acre or to corre		
Fertilizer type Gra	nular 10-20-20		
Fertilizer amount 1	/3	lbs/acre	
Mulch_2		_Tons/acre	
		Seed Mixtures	
Ter	mporary	Perma	nent
Seed Type	lbs/acre	Seed Type	Ibs/acre
KY-31	40	Orchard Grass	15
Alsike Clover	5	Alsike Clover	5
Annual Rye	15		
Attach: Maps(s) of road, location, pit provided). If water from the pacreage, of the land application Photocopied section of involv	on area.	d application (unless engineered plans included under dimensions (L $_{ m X}$ W $_{ m X}$ D) of the pit, and	ing this info have b dimensions (L x W
Maps(s) of road, location, pit is provided). If water from the picreage, of the land application Photocopied section of involved Plan Approved by:	red 7.5' topographic sheet.	clude dimensions (L x W x D) of the pit, and	dimensions (L x W
Maps(s) of road, location, pit brovided). If water from the provided of the land application of the la	red 7.5' topographic sheet.	Turbed areas as soon as	dimensions (L x W
Maps(s) of road, location, pit provided). If water from the provided of the land application of the la	ed 7.5' topographic sheet. Powartz ulch all distagulation. Upgr	Turbed areas as soon as	dimensions (L x W

WW-9 Attachment

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

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

Additives to be used in drilling medium?

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

Office of Oil and Gas

FEB 2 4 2017

WV Departmental Protection



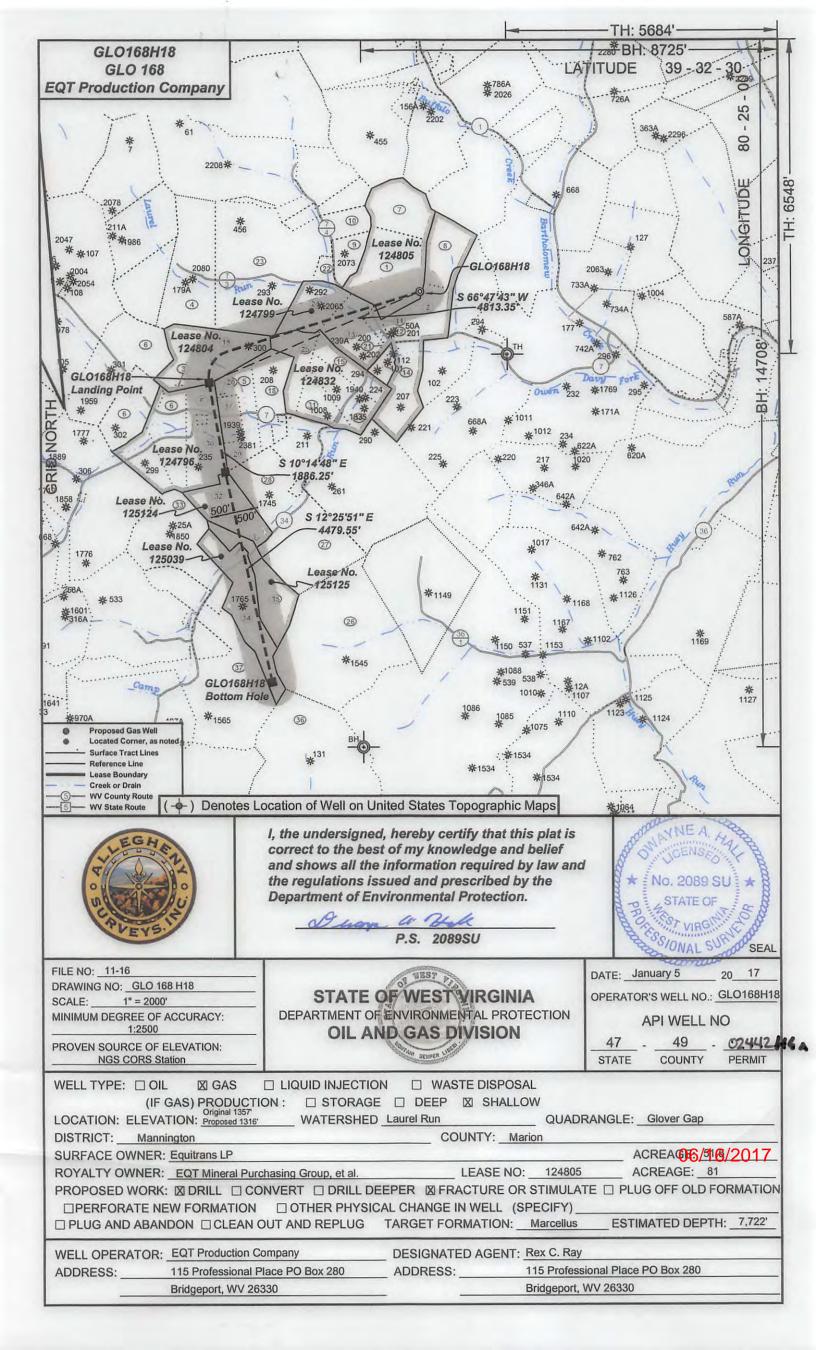


Site Specific Safety Plan

EQT GLO 168 Pad

Glover Quadrant Marion County, WV

GLO168H1 _GLO168H2 _GLO168H3 _G	For Wells: LO168H4
GLO168H16 GLO168H17 GLO168H18 GL	
EQT Production	Date Prepared: <u>July 28, 2016</u>
Desmitting Speadison	WV Oil and Gas Inspector Title
Date	Date

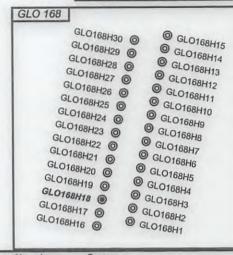


GLO168H18 **GLO 168 EQT Production Company**

ract 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	48	5.1	Marion	Mannington	Marion County Commission	0.36
4	48	4	Marion	Mannington	Mark A. Barron	57.00
5	48	6	Marion	Mannington	Consolidation Coal Company	19.34
6	46	2	Marion	Mannington	Marion County Commission	644,34
7	49	38	Marion	Mannington	Thomas B. Wright	30,00
8	49	39	Marion	Mannington	Musgrave, et al.	23.90
9	49	36	Marion	Mannington	Frederic R. & Kimberly P. Steele	16.25
10	49	35	Marion	Mannington	Mannington Church of Christ Trustees	13,00
11	48	13.1	Marion	Mannington	Gary A. & Sheila D. Earl	2.02
12	48	13	Marion	Mannington	Harlen O. & Diana S. Batson	1.10
13	48	14	Marion	Mannington	Roger & Pauline Eshelman	25.09
14	50	19	Marion	Mannington	Brenda D. Stull	4.55
15	48	11	Marion	Mannington	Consolidated Coal Company	17.50
16	48	10	Marion	Mannington	Consolidated Coal Company	22.00
17	48	6.1	Marion	Mannington	Marion County Commission	9.81
18	48	7	Marion	Mannington	Consolidation Coal Company	26,61
19	48	5	Marion	Mannington	Consolidation Coal Company	46.83
20	48	6.2	Marion	Mannington	Marion County Commission	0.26
21	48	12	Marion	Mannington	Harlen O. & Diana S. Batson	0.45
22	48	16	Marion	Mannington	Consolidation Coal Company	5.50
23	48	17	Marion	Mannington	Consolidation Coal Company	117.50
24	48	15	Marion	Mannington	Elmer O. Duncan, et al.	23.50
25	48	8	Marion	Mannington	Consolidation Coal Company	18.18
26	50	24	Marion	Mannington	Patricia S. Strum, et al.	223
27	50	23.1	Marion	Mannington	Consolidation Coal Company	57.48
28	50	23	Marion	Mannington	Charles R. & Wanda L. Russell	33.72
29	51	10	Marion	Mannington	Consolidation Coal Company	14.00
30	51	11	Marion	Mannington	Marion County Commission	0.50
31	48	9	Marion	Mannington	Consolidation Coal Company	15.62
32	51	5	Marion	Mannington	Michael & Trixie Smith	32.00
33	51	4	Marion	Mannington	Coastal Forest Resources Company	56
34	50	26	Marion	Mannington	Coastal Forest Resources Company	46.92
35	50	25	Marion	Mannington	Coastal Forest Resources Company	30.75
36	55	10	Marion	Mannington	Consolidation Coal Company	152
37	55	1	Marion	Mannington	Tinney Russell, et al.	78.50

Notes: GLO168H18 coordinates are NAD 27 N: 374,228.74 E: 1,735,737.39 NAD 27 Lat: 39.523694 Long: -80.436816 NAD 83 UTM N: 4,375,054.99 E: 548,421.92 GLO168H18 Landing Point coordinates are NAD 27 N: 372,332.19 E: 1,731,313.43 NAD 27 Lat: 39.518360 Long: -80.452427 NAD 83 UTM N: 4,374,454.70 E: 547,083.72 NAD 83 UTM N: 4,374,454.70 E: 547,083.72 GL0168H18 Deflection Point coordinates are NAD 27 N: 370,476.02 E: 1,731,648.96 NAD 27 Lat: 39.513274 Long: -80.451168 NAD 83 UTM N: 4,373,890.89 E: 547,195.35 GL0168H18 Bottom Hole coordinates are NAD 27 N: 366,101.49 E: 1,732,613.24 NAD 27 Lat: 39.501292 Long: -80.447587 NAD 83 UTM N: 4,372,563.03 E: 547,511.32 Lat Virging Coordinate system of 1927 (North Zong) 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

uTM coordinates are NAD83, Zone 17, Meters



Lease No. 124799 Owner
Anita K. Stanley, et al.
Robert D. Baker, et al. Acres 135 124799 124832 124804 124796 125124 125125 73.31 48 Jack Ray Cunningham, et al. 95 Dale Edward Beatty, et al. Dale Edward Beatty, et al. Charlene Lynn Baker, et al. 32 125039

*²⁰⁷⁶ 292 ** GLO168H18 2500 ***2065** 50A 201 *294 239A* *202 100米 *212 **₩** 1021 *1010 *²⁰⁷ 223 *

Well Reference

14" Scarlet Oak

208.21.202. GLO168H18 AZ110°08% 5/8" Rebar 315.70 AZ187°07"29 58 1" = 500"



Proposed Gas Well

Surface Tract Lines

Reference Line

Lease Boundary Creek or Drain

WV County Route WV State Route

Located Corner, as noted

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.

> Dell P.S. 2089SU

SEAL

FILE NO: 11-16 DRAWING NO: GLO 168 H18 SCALE: 1" = 2000" MINIMUM DEGREE OF ACCURACY:

1:2500 PROVEN SOURCE OF ELEVATION: NGS CORS Station

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

DATE: January 5 20 OPERATOR'S WELL NO .: GLO168H18 API WELL NO

- 02442 HGA 49 47 STATE COUNTY PERMIT

WELL TYPE: □ OIL ☑ GAS □ LIQUID INJECTION □ WASTE DISPOSAL (IF GAS) PRODUCTION : □ STORAGE □ DEEP ☒ SHALLOW
Original 1957
LOCATION: ELEVATION: Proposed 1316' WATERSHED Starkey Run and Wiley Fork QUADRANGLE: Glover Gap
DISTRICT: Mannington COUNTY: Marion OC/46/2017
SURFACE OWNER: Equitrans LP ACREA 0.5/1.6/2017
ROYALTY OWNER: EQT Mineral Purchasing Group, et al. LEASE NO: 124805 ACREAGE: 81
PROPOSED WORK: ☑ DRILL ☐ CONVERT ☐ DRILL DEEPER ☑ FRACTURE OR STIMULATE ☐ PLUG OFF OLD FORMATION
□ PERFORATE NEW FORMATION □ OTHER PHYSICAL CHANGE IN WELL (SPECIFY)
□ PLUG AND ABANDON □ CLEAN OUT AND REPLUG TARGET FORMATION: Marcellus ESTIMATED DEPTH:
WELL OPERATOR: EQT Production Company DESIGNATED AGENT: Rex C. Ray
ADDRESS: 115 Professional Place PO Box 280 ADDRESS: 115 Professional Place PO Box 280
Bridgeport, WV 26330 Bridgeport, WV 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

\$ > 0 E O O 2 E E E

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. Office of Oil and Gas

Well Operator: EQT Production Company

By:

Victoria J Roark

Its:

Permitting Supervisor

Environmental Protection

Page 1 of 2

WW-6A1 at	tachment	Operator's Well No.		H18	
Lease No.	Grantor, Lessor, etc.	Grantee, Lessee, etc.	Royalty	Book/Page	
	EQT Mineral Purchasing Group, et al. (Current Royalty	Owner)	***		
124805	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	
	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	
	Robert D. Baker, et al. (Current Royalty Owner)		•••		
<u>124832</u>	John Lawlis & Ursula Lawlis	South Penn Oil Company		DB 156/218	
	South Penn Oil Company	South Penn Natural Gas		DB 353/201	
	South Penn Natural Gas	Pittsburgh & West Virginia Gas Company	,	DB 480/383 DB 510/487,	
	Pittsburgh & West Virginia Gas Company	Equitable Gas Company		511/539	
	Equitrans, Inc.	Equitrans, LP		DB 46/660	
	Equitrans, LP	EQT Production Company	-	DB 1114/130	
	CNX (Current Royalty Owner)		F.	•	
124804	John D. Cunningham, et ux.	Equitable Gos Company		GB 730/264	
PUUFAL	Equitable Gas Company	Equitable Gas Company			
	Equitans, Inc.	Equitrans, Inc.		AB 12/279	
	Equitrans, LP	Equitrans, LP		DB 46/660	
	equirus), Li	EQT Production Company		DB 1114/(36 🦿	
	Jack Ray Cunningham, et al. (Current Royalty Owner)		***		
<u>124796</u>	Byron Lewis Cunningham, et al.	Pittsburgh & West Virginia Gas		DB 498/94 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	
	Date Edward Beatty, et al. (Current Royalty Owner)		•••		
<u>125124</u>	Russell G. Beatty, et al.	Equitable Gas Company		DB 687/56	
	Equitable Gas Company	Equitrans, Inc.		AB 12/279	
	Equitrans, Inc.	Equitrans, LP		AB 16/660	
	Equitrans, LP	EQT Production Company		DB 1114/127	
	Dale Edward Beatty, et al. (Current Royalty Owner)		•••		
<u>125125</u>	Russell G. Beatty, et al.	Equitable Gas Company		DB 687/66	
	Equitable Gas Company	Equitrans, Inc.		AB 12/279	
	Equitrans, Inc.	Equitrans, LP		AB 16/660	
	Equitrans, LP	EQT Production Company		DB 1114/127	
	Charlene Lynn Baker, et al. (Current Royalty Owner)		•••		
<u>125039</u>	Russell G. Beatty, et al.	Equitable Gas Company		DB 687/66	
	Equitable Gas Company	Equitrans, Inc.		AB 12/279	
	Fauitrane Inc	Englished I.D.		15 40/000	

^{***}We certify that we will pay a minimum one-eighth of the total amount paid to or received by or allowed to the ownerffice of Oil and Gas of the working interest at the wellhead for the oil or gas so extracted, produced or marketed before deducting the amount to be paid to or set aside for the owner of the oil or gas in place, on all such oil or gas to be extracted, produced or marketed from the well.

FEB 2 4 2017

Equitrans, LP

EQT Production Company

Equitrans, Inc.

Equitrans, LP

WV Department of Environmental Protection

RECEIVED

AB 16/660

DB 1114/127



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

570 8002 FE

REGEIVED
Office of Oil and Gas

FEB 2 4 2017

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

Date of Notice	ce Certification: 2/21/17	API No.	47- 49 -	
			r's Well No. GLO	D168H18
			d Name: GLO16	
Notice has				
Pursuant to th	ne provisions in West Virginia Code	§ 22-6A, the Operator has provided the	required parties	with the Notice Forms listed
below for the	tract of land as follows:	And the state of t	7. Q. C. P. S.	
State:	w	UTM NAD 83 Easting:	548421.92	
County:	Marion	Northing	4375054.99	
District:	Mannington	Public Road Access:	C/O Rt 7/4	
Quadrangle:	Glover Gap	Generally used farm name	Equitrans LP	
Watershed:	Laurel Run			
it has provided information representation of giving the requirements Virginia Code of this article Pursuant to that the Ope *PLEASE CHI 1. NO 2. NO 3. NO 3. NO	ed the owners of the surface descrequired by subsections (b) and (c), so surface owner notice of entry to so of subsection (b), section sixteen the § 22-6A-11(b), the applicant shall have been completed by the applicant west Virginia Code § 22-6A, the Orator has properly served the requirect ALL THAT APPLY FICE OF SEISMIC ACTIVITY OF SEISMIC ACTIVITY OF SEISMIC ACTIVITY OF SEISMIC ACTIVITY OF SEISMIC OF SE	perator has attached proof to this Notice	absection (b), se requirement was not en of this art by the surface of the surfac	ction ten of this article, the deemed satisfied as a resulticle six-a; or (iii) the notice wher; and Pursuant to Wester requirements of section tends of the
4. NO	ΓΙCE OF PLANNED OPERATION			☐ RECEIVED
■ 5. PUE	BLIC NOTICE			☐ RECEIVED
■ 6. NO	TICE OF APPLICATION			☐ RECEIVED

Required Attachments:

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

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



Subscribed and sworn before me this 2 day of February 2017.

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 deprivacyofficer@wv.gov.

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Office of Oil and Gas

FEB 2 4 2017

WV Department of Environmental Protection 06/16/2017

API NO. 47- 49 OPERATOR WELL NO. GL0168H18
Well Pad Name: GL0168

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

Notice Time Requirement: notice shall be provide	d no later than the filing date of permit application.
Date of Notice: 2211 Date Permit Application	on Filed: 2/21/17
	ATE OF APPROVAL FOR THE CTION OF AN IMPOUNDMENT OR PIT
Delivery method pursuant to West Virginia Code	e § 22-6A-10(b)
☐ PERSONAL ☐ REGISTERED	✓ METHOD OF DELIVERY THAT REQUIRES A
SERVICE MAIL	RECEIPT OR SIGNATURE CONFIRMATION
sediment control plan required by section seven of this he surface of the tract on which the well is or is propo- poll and gas leasehold being developed by the proposed described in the erosion and sediment control plan sub- poperator or lessee, in the event the tract of land on whi- more coal seams; (4) The owners of record of the surface tract is to be used for the place impoundment or pit as described in section nine of this nave a water well, spring or water supply source located provide water for consumption by humans or domestic proposed well work activity is to take place. (c)(1) If more subsection (b) of this section hold interests in the lands records of the sheriff required to be maintained pursual provision of this article to the contrary, notice to a lien Code R. § 35-8-5.7.a requires, in part, that the operator water purveyor or surface owner subject to notice and	res a receipt or signature confirmation, copies of the application, the erosion and starticle, and the well plat to each of the following persons: (1) The owners of record of seed to be located; (2) The owners of record of the surface tract or tracts overlying the well work, if the surface tract is to be used for roads or other land disturbance as smitted pursuant to subsection (c), section seven of this article; (3) The coal owner, ich the well proposed to be drilled is located [sic] is known to be underlain by one or ace tract or tracts overlying the oil and gas leasehold being developed by the proposed rement, construction, enlargement, alteration, repair, removal or abandonment of any starticle; (5) Any surface owner or water purveyor who is known to the applicant to be dwithin one thousand five hundred feet of the center of the well pad which is used to animals; and (6) The operator of any natural gas storage field within which the more than three tenants in common or other co-owners of interests described in s, the applicant may serve the documents required upon the person described in the not to section eight, article one, chapter eleven-a of this code. (2) Notwithstanding any holder is not notice to a landowner, unless the lien holder is the landowner. W. Va. or shall also provided the Well Site Safety Plan ("WSSP") to the surface owner and any water testing as provided in section 15 of this rule.
SURFACE OWNER(s)	☐ COAL OWNER OR LESSEE
Name; See Attached	Name: See Attached
Address:	Address:
Name:	□ COAL OPERATOR
Address:	Name:
SURFACE OWNER(s) (Road and/or Other Distur	rbance)
Name: See Attached	SURFACE OWNER OF WATER WELL
Address:	AND/OR WATER PURVEYOR(s) Name: See Attached
Name:	Address:
Address:	
SURFACE OWNER(s) (Impoundments or Pits) Name: See Attached	OPERATOR OF ANY NATURAL GAS STORAGE FIELD Name: Office of Oil and Gas Address:
Address:	*Please attach additional forms it necessary
	WV Department of

Environmental Protection

WW-6A (8-13)

API NO. 47-49 OPERATOR WELL NO. GL0168H18
Well Pad Name: GL0168

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 (304-926-0450) or by visiting www.dep.wv.gov/oil-and-gas/pages/default.aspx.

Well Location Restrictions

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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 in a location restrictions. of the wells was permitted prior to the effective date of this article. (e) The secretary shall, by December 34, 2017, apper Charge Legislature on the noise, light, dust and volatile organic compounds generated by the drilling of horizontal wells as they relate to the well location restrictions regarding occupied dwelling structures pursuant to this section. Upon a finding, if any by the secretary that the well location restrictions regarding occupied dwelling structures are inadequate or otherwise require alteration to address the items



API NO. 47-49

OPERATOR WELL NO. GLO168H18

Well Pad Name: GL0168

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

REGEIVED Office of Oil and Gas

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. FEB 24 2017

> WV Department of Environmental Protection 6/2017

WW-6A (8-13)

API NO. 47-49 OPERATOR WELL NO. GL0168H18
Well Pad Name: GL0168

Time Limits and Methods for Filing Comments.

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

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

Comment Requirements

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

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

Permit Denial or Condition

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

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

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

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

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Office of Oil and Gas

FEB 2 4 2017

WV Department of Environmental Proteotion Proteotic Prot

API NO. 47- 49 -	
OPERATOR WELL NO.	GLO168H18
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 PO Box 280

Bridgeport WV 26330

Facsimile: 304-848-0041

Oil and Gas Privacy Notice:

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

OFFICIAL SEAL
NOTARY PUBLIC
STATE OF WEST VIRGINIA
REBECCA L. WANSTREET
ECT PRODUCTION COMPANY
PO ROX 280
BRIDGEPORT, WV 26330
My commission expires April 07, 2020

Subscribed and sworn before methis al day of February 2017.

Ellecca & Wanstreet

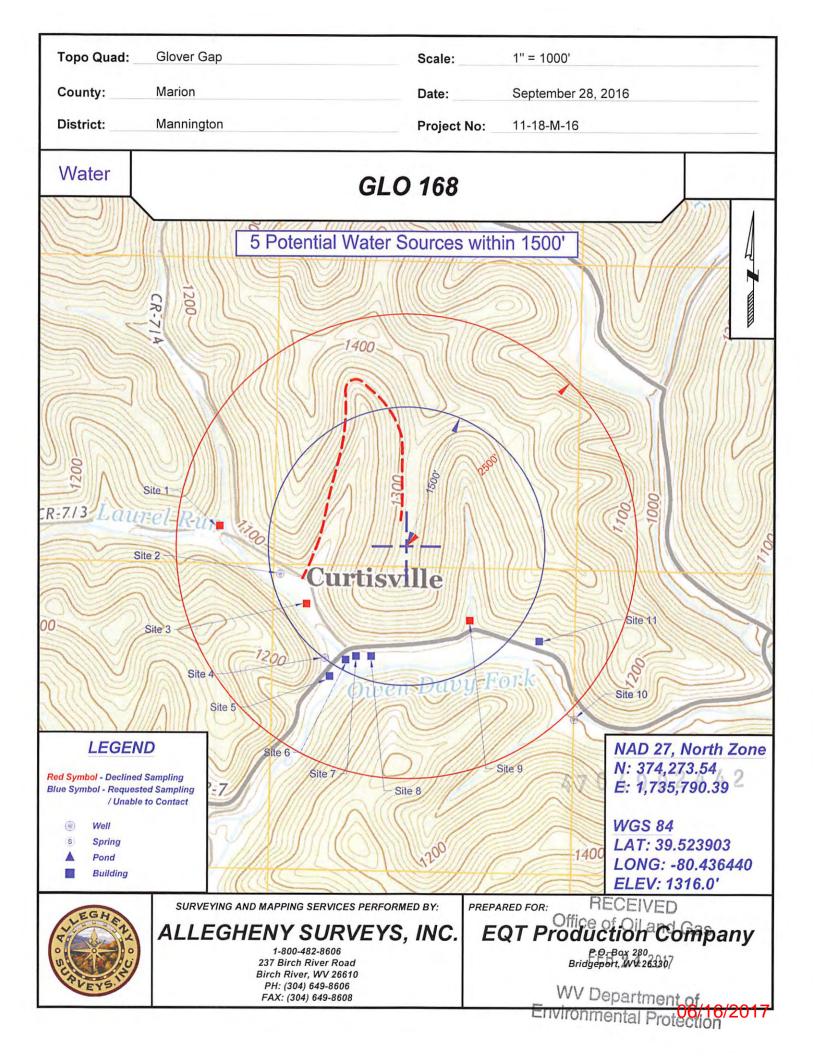
My Commission Expires 4-7-2020

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Office of Oil and Gas

FEB 2 4 2017

WV Department of Environmental Protection 06/16/2017



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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Office of Oil and Gas

FEB 2 4 2017

WV Department 06/16/2017 Environmental Protection

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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Office of Oil and Gas

FEB 2 4 2017

WV Department of Environmental Projection 2017

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

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RECEIVED Office of Oil and Gas

FEB 2 4 2017

WV Department of Environmental Protection 06/16/2017 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

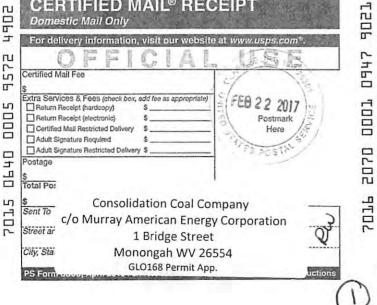
Consolidation Coal Company C/O Murray Energy Corporation Attn: Troy Freels 1 Bridge Street Monongah, WV 26554

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

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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

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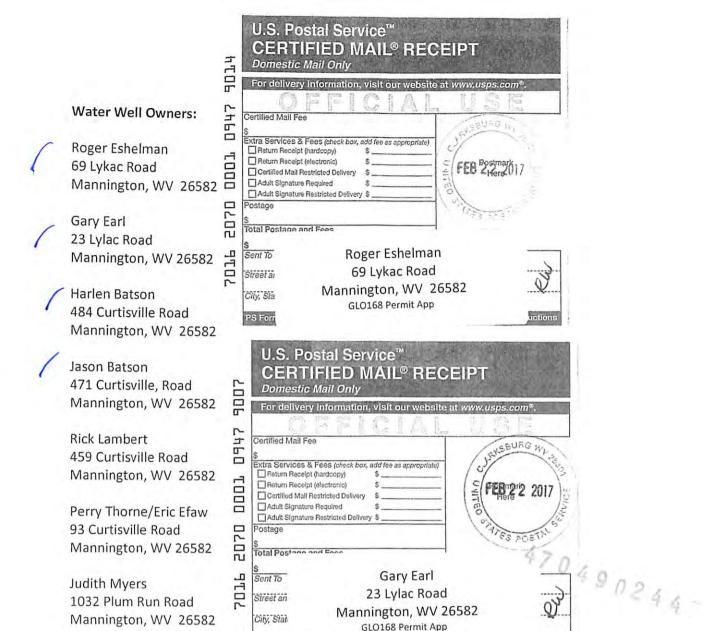


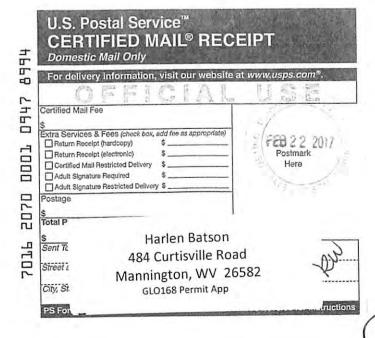
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Office of Oil and Gas

FEB 2 4 2017



WV Department of Environmental Protection 2017





PS Form



Water Well Owners:

Roger Eshelman 69 Lykac Road Mannington, WV 26582

Gary Earl 23 Lylac Road Mannington, WV 26582

Harlen Batson 484 Curtisville Road Mannington, WV 26582

Jason Batson 471 Curtisville, Road Mannington, WV 26582

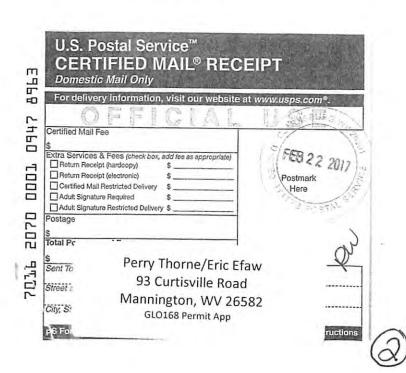
Rick Lambert
 459 Curtisville Road
 Mannington, WV 26582

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

Judith Myers 1032 Plum Run Road Mannington, WV 26582



4704902442





Operator	Well	No	124799	
Operator	AACII	140.	124100	

Notice Time R	equirement: Notice shall be provided at le	east SEVEN (7) days but no more than FO	RTY-FIVE (45) days prior to entry.
Date of Notice	: 12/4/2015	Date of Planned Er	ntry: 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 REQU	JIRES A RECEIPT OR SIGNATURE CONFIRMATION
tract to conduct prior to such e pursuant to se records. The n and gas explor	et any plat surveys required pursuant to thin ntry to: (1) The surface owner of such tra- ection thirty-six, article six, chapter twenty otice shall include a statement that copies ration and production may be obtained from	s article. Such notice shall be provided at ct; (2) to any owner or lessee of coal sear y-two of this code; and (3) any owner of s of the state Erosion and Sediment Control	provide notice of planned entry on to the surface least seven days but no more than forty-five days ns 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 here	by provided to:		
	URFACE OWNER loseph Forte John H. Musgrave & Joseph V. Forte)	Name:	L OWNER OR LESSEE
	*		
Address:	1 Hutchinson Drive, Fairmont, WV 26554	Address:	
		MIN	ERAL OWNER(S)
Name:		Name:	490-
Address:		Address:	- AT 4 -
Name:		Name:	
Address:			
Notice is her	eby given:	"Please a	attach additional forms if necessary
	/est Virginia Code § 22-6A-10(a), notice is	hereby given that the undersigned well op-	erator 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 & 7 (Lylac & Curtisville Rds.)
District:	Mannington, Tax Map 49, Parcel 39	Watershed:	Laurel Run
Quadrangle:	Glover Gap	Generally Used Farm Name:	Musgrave
obtained from (304-926-045	the Secretary, at the WV Department of E	Environmental Protection headquarters, loc	o oil and gas exploration and production may be ated at 601 57th Street, SE, Charleston, WV 2530g may be obtained from the Secretary by visiting
Notice is her	reby given by:		
Well Operato	r: EQT Production Company	Address:	115 Professional Place, Bridgeport, WV 26330
Telephon	14-00/00/00/00/00	EQT Representative:	Jamie I. Barbour FIVED
Facsimil	E Wildian Addison		Office of Oil and O- 4
Ema	il: EQTLandEntryNotice@eqt.com	Signature:	Office of Oil and Gas
Oil and Gae	Privacy Notice:		FEB 2 4 2017

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 standary or requisions, requirements, including Freedom of Information Act requests. Our office will appropriately secure your personal information. If you have any questions added the or your personal Freedom of Information Act requests. Our office will appropriately secure your personal information. If you have any questions add to be of information, please contact DEP's Chief Privacy Officer at deprivacyofficer@WV.gov.

Date of Notic		Date of Planned F	intry: 12/11/2015
Delivery met	hod pursuant to West Virginia Code § 22		1211/2015
	NAL SERVICE X CERTIFIED MAIL		UDEC A DECEMBER OF CLOSURE OF THE COLUMN TWO
	The second secon	ilian a parmit application the	UIRES A RECEIPT OR SIGNATURE CONFIRMATION
prior to such a pursuant to se records. The reand gas explo	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 provided at ict; (2) to any owner or lessee of coal sea y-two of this code; and (3) any owner of s of the state Erosion and Sediment Control in the Secretary, which statement shall income the Secretary.	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 lude contact information, including the address for retary.
Notice is here	eby provided to:		
XS	URFACE OWNER	COA	AL OWNER OR LESSEE
	Joseph Forte		a dividit on Ecope
	(John H. Musgrave, Joseph V. Forte & Mat Henry)	ilda / Name:	
Address:	11 Hutchinson Drive, Fairmont, WV 26554	Address:	
		MIN	ERAL OWNER(S)
Name:			
Address:		Address:	0490242
Name:			
Address:		Address:	
Notice is here			ntach additional forms if necessary
	/est Virginia Code § 22-6A-10(a), notice is	hereby given that the undersigned well ope	erator is planning entry to conduct a plat survey on
State:	WV	Approx. Latitude & Longitude:	39.52384/-80.43652
County:	Marion	Public Road Access:	CR 7/3 & 7 (Lylac & Curtisville Rds.)
District:	Mannington, Tax Map 49, Parcel 39.1	Watershed:	
Quadrangle:	Glover Gap	Generally Used Farm Name:	The second secon
(304-926-045)	the Secretary, at the WV Department of E	nual and the statues and rules related to nvironmental Protection headquarters, local	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 here	eby given by:		
Well Operator	EQT Production Company	Address:	115 Professional Place, Bridgeport, WV 26330
Telephone		EQT Representative:	Jamen Oil and Gas
Facsimile		=======================================	On and Gas
Email	: EQTLandEntryNotice@eqt.com	Signature:	WEEB 2 4 2017 2 10
Oil and Gas F	Privacy Notice:		1100.00

The Office of Oil and Gas processes your personal information, such a name, address and telephone number, as part of regulator, duries Polit postonal information may be disclosed to other State agencies or third parties in the normal course of business or as needed to con py Mil partition and after or currence of processes. Our office will appropriately secure your personal information. If you have any questions about our 06/016/120407al Information, please contact DEP's Chief Privacy Officer at depprivacyofficer@WV.gov.

Date of Notice	e: 12/4/2015	Date of Planned E	ntry: 12/11/2015
Delivery meth	od pursuant to West Virginia Code § 22-6A		
PERSON	AL SERVICE X CERTIFIED MAIL	METHOD OF DELIVERY THAT REQU	UIRES A RECEIPT OR SIGNATURE CONFIRMATION
Pursuant to W	est Virginia Code § 22-6A-10(a), prior to filing		I provide notice of planned entry on to the surface
tract to conductorior to such e pursuant to se records. The nand gas explor	ot any plat surveys required pursuant to this and intry to: (1) The surface owner of such tract; (ection thirty-six, article six, chapter twenty-two otice shall include a statement that copies of	rticle. Such notice shall be provided at 2) to any owner or lessee of coal sear o of this code; and (3) any owner of the state Erosion and Sediment Contrile Secretary, which statement shall inc	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 lude contact information, including the address for
Notice is here	by provided to:		
X St	URFACE	COA	AL OWNER OR LESSEE
	homas B. Wright		
Name: c	/o Martha Arnold	Name:	
Address: 8	308 Gaston Ave., Fairmont, WV 26554	Address:	
		MIN	ERAL OWNER(S)
Name:		Name:	
Address:		Address:	
Name:		Name:	
-		Trans	970
Address:		Address:	4000
Notice is here	eby given:	*Flease :	ittach additionnil forms if necessary
	est Virginia Code § 22-6A-10(a), notice is here	eby given that the undersigned well op-	erator 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 (304-926-0450	the Secretary, at the WV Department of Envir	onmental Protection headquarters, loc	o oil and gas exploration and production may bated at 601 57th Street, SE, Charleston, WV 2530tg may be obtained from the Secretary by visiting
Notice is here	eby given by:		
Well Operator	EQT Production Company	Address:	115 Professional Place, Bridgeport, WV 26330
Telephone	304-848-0074	EQT Representative:	Jamie I. Barbour
Deschalle	: 304-848-0040		A IK Is
Facsimile			n 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Facsimile	EQTLandEntryNotice@eqt.com	Signature:	HEGEIVED

requirements, including Freedom of Information Act requests. Our office will appropriately secure your personal information. IFYOD have any questions about our use or your personal information, please contact DEP's Chief Privacy Officer at depprivacyofficer@WV.gov.

WV Departme 06/16/2017 Environmental Protection

Notice Time F	Requirement: Notice shall be provided at	least SEVEN (7) days but no more than	FORTY-F	IVE (45) days prior to e	ntry.
Date of Notice		Date of Planne			,
Delivery meth	od pursuant to West Virginia Code § 2				
	AL SERVICE X CERTIFIED MAIL	METHOD OF DELIVERY THAT R	EQUIRES.	A RECEIPT OR SIGNATU	RE CONFIRMATION
prior to such e pursuant to se records. The n and gas exploi	est Virginia Code § 22-6A-10(a), prior to any plat surveys required pursuant to the entry to: (1) The surface owner of such traction thirty-six, article six, chapter twent totice shall include a statement that copie ration and production may be obtained from the Secretary's web site, to enable the secretary.	filing a permit application, the operator s nis article. Such notice shall be provided act; (2) to any owner or lessee of coal s ty-two of this code; and (3) any owner as of the state Erosion and Sediment Co om the Secretary, which statement shall	shall provid at least s seams ber of minera ontrol Man include co	de notice of planned ent seven days but no more neath such tract that has als underlying such trace	ry on to the surface than forty-five days is filed a declaration it in the county tax
Notice is here	by provided to:				/
S	URFACE OWNER	X	OAL OW	NER OR LESSEE	
Name:				on Coal Co.	,
Address:		E	ngineering NX Cente	g and Operations Suppo er, 1000 Consol Energy I g, PA 15317-6506	ort Coal Dept. Drive
				OWNER(S)	
Name:		Name:	MINEHAL	OWNEH(3)	
Address:		Address:			
Name:		Name:			
Address:		Address:		470	
Notice is here	eby given:	"Pe	ase attach áddin	onal forms il necessary	
	est Virginia Code § 22-6A-10(a), notice is	hereby given that the undersigned well	operator is	s planning entry to cond	uct a plat survey on
State:	WV	Approx. Latitude & Longitud	e: 39.52	2384/-80.43652	
County:	Marion	Public Road Acces		/3 & 7 (Lylac & Curtisvil	le Rds.)
District:	Mannington, Tax Map 49, Parcels 39 & 3	39.1 Watershe	_		
Quadrangle:	Glover Gap	Generally Used Farm Nam	e: Musg	grave	
obtained from (304-926-0450	state Erosion and Sediment Control Ma the Secretary, at the WV Department of E 0). Copies of such documents or addition tov/oil-and-gas/pages/default.aspx.	invironmental Protection headquarters, I	located at	601 57th Street, SE, Cha	erleston, WV 25304
Notice is here					
Well Operator:	EQT Production Company	Address	s: 115 P	rofessional Place, Bridge	eport, WV 26330
Telephone		EQT Representative		I. Barbour GEIVER	
Facsimile	304-848-0040		(Office of Oil and	I Good
Email	EQTLandEntryNotice@eqt.com	Signature	9:	26662	Uas O
Oil and Gas F	Privacy Notice:		1/2	FEB 2 4 2017	

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 pregulatory duties. Your personal including Freedom of Information Act requests. Our office will appropriately secure your personal information. If you have any prestions about our use or your personal information, please contact DEP's Chief Privacy Officer at deportivacyofficer@WV.gov.

Notice Time F	Requirement: Notice shall be provided at least	SEVEN (7) days but no more that	an FORTY-FIVE (45) days prior to entry.	
	e:12/4/2015	Date of Planned Entry: 12/11/2015		
Delivery meth	nod pursuant to West Virginia Code § 22-6A-	10(a):		
PERSON	AL SERVICE X CERTIFIED MAIL	METHOD OF DELIVERY THAT	REQUIRES A RECEIPT OR SIGNATURE CONFIRMATION	
prior to such e pursuant to se records. The n and gas explor	entry to: (1) The surface owner of such tract; (2 ection thirty-six, article six, chapter twenty-two notice shall include a statement that copies of the	a permit application, the operator icle. Such notice shall be provide () to any owner or lessee of coal of this code; and (3) any owner estate Erosion and Sediment (2) Secretary, which statement shall	shall provide notice of planned entry on to the surface of at least seven days but no more than forty-five days seams beneath such tract that has filed a declaration or of minerals underlying such tract in the county tax control Manual and the statutes and rules related to only include contact information, includes the address for	
	by provided to:		,	
SI	URFACE OWNER	X	COAL OWNER OR LESSEE	
			Murray American Energy, Inc.	
Name:		Name:	Attn.: Troy Freels	
Address:			1 Bridge Street	
Addiess.		Address:	Monongah, WV 26554	
			MINERAL OWNER(S)	
Name:		Name:		
Address:		Address:	8 -	
Name:		Name:	17049000	
2.3			02442	
Address:		Address;		
Notice is here			lease attach additional forms if necessary	
Pursuant to We the tract of land	est Virginia Code § 22-6A-10(a), notice is hereb d as follows:	y given that the undersigned wel	Il operator is planning entry to conduct a plat survey or	
State:	WV	Approx. Latitude & Longitu	de: 39.52384/-80.43652	
County:	Marion	Public Road Acce		
District:	Mannington, Tax Map 49, Parcels 39 & 39.1	Watersh	(-) (-)	
Quadrangle:	Glover Gap	Generally Used Farm Nar		
(304-926-0450	the Secretary, at the WV Department of Enviror	and the statues and rules related in the statues and rules related in the statues and rules related in the statues and the statues are statues are statues are statues and the statues are sta	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				
Well Operator:		Addres	ss: 115 Professional Place Bridgeport, WV 26330	
Telephone:		EQT Representativ		
Facsimile:		Lat rispresentativ	outrio is barbouron and Gas.	
Email:		Signatur	re: / CFEB 2 4 2017	
Oil and Gas P	rivacy Notice:		WV Department of	

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 will statute in agencies. 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.

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

Notice Time Date of Notic		d at least TEN (10) days prior to filing a Permit Application Filed:	permit application.
Delivery met	hod pursuant to West Virginia Code	§ 22-6A-16(b)	
HAND DELIVE	CERTIFIED MAIL	470	4902442
receipt reques drilling a hor of this subsec subsection ma and if availab	sted or hand delivery, give the surface of izontal well: <i>Provided</i> , That notice give tion as of the date the notice was proving be waived in writing by the surface of the facsimile number and electronic manner.	owner notice of its intent to enter upon the ven pursuant to subsection (a), section to ded to the surface owner: <i>Provided, how</i> owner. The notice, if required, shall included 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 vever, That the notice requirements of this ude the name, address, telephone number, or's authorized representative.
Notice is ne Name: see attac	reby provided to the SURFACE (Name:	
	and a	Address:	
State: County: District:	West Virginia Marion Mannington	UTM NAD 83 Easting: Northing: Public Road Access:	548,421.92 4,375,054.99 Co Rt. 7/4
Quadrangle:	Glover Gap	Generally used farm name:	Equitrans LP.
Watershed:	Laurel Run		
Pursuant to Y facsimile nur related to hor located at 60	mber and electronic mail address of the rizontal drilling may be obtained from 1 57 th Street, SE, Charleston, WV 2530	he operator and the operator's authorize the Secretary, at the WV Department of	ress, telephone number, and if available, ed representative. Additional information of Environmental Protection headquarters, ep.wv.gov/oil-and-gas/pages/default.aspx.
	reby given by:		
	r; EQT Production Company	Authorized Representative:	
Address:	115 Professional Place	Address:	115 Professional Place
Bridgeport, WV Telephone:	304-848-0082	Bridgrport, WV 26330 Telephone:	304-848-0076
Email:	The state of the s	Email:	vroark@eqt.com
Facsimile:	vroark@eqt.com 304-848-0020	Facsimile:	304-848-0020
	and the second		PEGEIVED Office of Oil and Constory

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. Out 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.

WV Department of Environmental Protection

WAIVER

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

er Waiver: , hereby st	tate that I have read the notice pro	ovisions listed	above and hereby waive the
ments under West Virginia	Code § 22-6A-16(b) for the tract	of land as fo	llows:
w	UTM NAD 02	Easting:	548421.92
Marion	OTM NAD 83	Northing:	4375054.99
Mannington	Public Road Acc	ess:	C/O Rt 7/4
Glover Gap	er Gap Generally used f	arm name:	Equitrans LP
Laurel Run		1	7
ns LP	Signature:	Kalu	4 Heer
		- 1 - 1	
	Date:	2/21/1	7
	, hereby soments under West Virginia WW Marion Mannington Glover Gap	, hereby state that I have read the notice proments under West Virginia Code § 22-6A-16(b) for the tract WW Marion Mannington Glover Gap Laurel Run The Signature: Authors and the notice prometric product of the pro	, hereby state that I have read the notice provisions listed ments under West Virginia Code § 22-6A-16(b) for the tract of land as for the water o

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.

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Office of Oil and Gas

FEB 24 2017

WV Department of Environmental Protection 16/2017

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

Delivery me	thod pursuant to West Virginia C	ode § 22-6A-16(c)		
■ CERTI	FIED MAIL	☐ HAND		
	RN RECEIPT REQUESTED	DELIVERY		
return receipthe planned required to be drilling of a damages to the damages to the drilling of notice.	requested or hand delivery, give the operation. The notice required by a provided by subsection (b), section horizontal well; and (3) A propose he surface affected by oil and gas on the surface by this section shall be good by provided to the SURFACE O	this subsection shall incluse this subsection shall incluse ten of this article to a surfict distribution to the extent the distribution to the extent the distribution to the surface owner at the wind the wind the surface owner at the wind	d will be used for de: (1) A copy face owner whose sation agreement amages are com	ication, an operator shall, by certified mail or the drilling of a horizontal well notice of of this code section; (2) The information se land will be used in conjunction with the nt containing an offer of compensation for pensable under article six-b of this chapter. sted in the records of the sheriff at the time
	s listed in the records of the sheriff	그리는 그렇게 하는 것이 얼마나 하는 것이 살아 없는 것이 없다.		
Name: See Atta	ched	Name:		67.
Address:	eby given:	Addres		4704902442
Notice is her Pursuant to Voperation on State: County: District: Quadrangle:	eby given:	Addres notice is hereby given that the state of drilling a horizonta of the state	ne undersigned al well on the tra Easting: Northing:	well operator has developed a planned act of land as follows: 548421.92 4375054.99 C/O Rt 7/4 Equitrans LP
Address:	eby given: Vest Virginia Code § 22-6A-16(c), no the surface owner's land for the pure www. Marion Mannington	Addres notice is hereby given that the state of drilling a horizonta of the state	ne undersigned al well on the tra Basting: Northing: Access:	10ct of land as follows: 548421.92 4375054.99 C/O Rt 7/4
Notice is her Pursuant to Voperation on State: County: District: Quadrangle: Watershed: This Notice: Pursuant to Voto be provide horizontal was surface affect information in the adquarters,	eby given: Vest Virginia Code § 22-6A-16(c), no the surface owner's land for the purwwwwmarion Mannington Glover Gap Laurel Run Shall Include: Vest Virginia Code § 22-6A-16(c), no ed by W. Va. Code § 22-6A-10(b) ell; and (3) A proposed surface use a ted by oil and gas operations to the elated to horizontal drilling may be located at 601 57th Street, SE,	Addres notice is hereby given that the repose of drilling a horizontal UTM NAD 8 Public Road Generally use this notice shall include: (1 to a surface owner whose and compensation agreement extent the damages are content of the secret obtained from the Secret the secret o	ne undersigned all well on the transitions: Beating: Northing: Access: End farm name: OA copy of this is a land will be understand arm name; armpensable undersy, at the WV	10ct of land as follows: 548421.92 4375054.99 C/O Rt 7/4
Notice is her Pursuant to V operation on State: County: District: Quadrangle: Watershed: This Notice is Pursuant to V to be provide thorizontal we surface affect information in the adquarters, gas/pages/de	eby given: Vest Virginia Code § 22-6A-16(c), no the surface owner's land for the purwown Marion Mannington Glover Gap Laurel Run Shall Include: Vest Virginia Code § 22-6A-16(c), noted by W. Va. Code § 22-6A-10(b) ell; and (3) A proposed surface use a steel by oil and gas operations to the related to horizontal drilling may be located at 601 57th Street, SE, Fault.aspx.	Addres notice is hereby given that the repose of drilling a horizontal UTM NAD 8 Public Road Generally use this notice shall include: (1 to a surface owner whose and compensation agreement extent the damages are content of the secret obtained from the Secret the secret o	ne undersigned al well on the tra Easting: Northing: Access: ed farm name: A copy of this e land will be understand arromable understand; arry, at the WV (304-926-0450)	code section; (2) The information required used in conjunction with the drilling of a n offer of compensation for damages to the der article six-b of this chapter. Additional Department of Environmental Protection or by visiting

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

FEB 2 4 2017

WV Department of Environmental Protection

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

7076

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Return Re	es & Fees (check box, add fee as appropriate) celpt (hardcopy) \$ celpt (electronic) \$ fall Restricted Delivery \$ ature Required \$ ature Restricted Delivery \$	Postmark Here
rostage		
Total Pc		
5	Thomas B. Wright H	Heirs
Sent To	c/o Martha Arno	ld \
Street a	818 Gaston Ave	
City, Ste	Fairmont WV 265	54
PS For	GLO168 Permit App. and Plan	nned Op.

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	Adult Signate	ture Required \$ture Restricted Delivery \$	
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. п		ph V Forte, John H Musgrave, Matilda Hen	ry _
F	Sent Tc	c/o Joseph Forte	Uh
7016	Street a	11 Hutchinson Dr.	
	City, St	Fairmont WV 26554	
	Oily, St	GLO168 Permit App and Planned Op.	
	PS For		ructions

RECEIVED Office of Oil and Gas

FEB 2 4 2017

WV Department of Environmental Pro

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

U.S. Postal Service™ **CERTIFIED MAIL® RECEIPT** Domestic Mail Only 2460 Certified Mail Fee Extra Services & Fees (check box, add fee as appropriate) Return Receipt (hardcopy) Postmark Return Receipt (electronic) Certified Mail Restricted Delivery Here Adult Signature Required Adult Signature Restricted Delivery \$ Total Pc Thomas B. Wright Heirs Sent To c/o Martha Arnold Street a 818 Gaston Ave. Fairmont WV 26554 City, Sta GLO168 Permit App. and Planned Op. PS For

4704002442 U.S. Postal Service™ CERTIFIED MAIL® RECEIPT П 907 Domestic Mail Only 1 .460 Certified Mail Fee Extra Services & Fees (check box, add fee as approprial 1000 Return Receipt (hardcopy) Return Receipt (electronic) Certified Mail Restricted Delivery Adult Signature Required Adult Signature Restricted Delivery \$ 2070 Postage Total P s Joseph V Forte, John H Musgrave, Matilda Henry 7076 c/o Joseph Forte Street a 11 Hutchinson Dr. Fairmont WV 26554 City, St GLO168 Permit App and Planned Op. PS For

RECEIVED
Office of Oil and Gas

FEB 24 2017

WV Department of 6/2017 Environmental Protection 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

1506	U.S. Postal Service™ CERTIFIED MAIL® RECEIPT Domestic Mail Only For delivery information in the service of the
1947	For delivery information, visit our website at www.usps.com*.
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	Fairmont WV 26554 GLO168 Permit App and Planned Op.
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Office of Oil and Gas

FEB 2 4 2017

WV Department of Environmental Protection

Rolph Deer

API NO. 47-49		
OPERATOR WI	LL NO.	GLO168H18
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 Provisions

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

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

required, and State:	the well plat, all for proposed well work on the t	LITM NAD 83 Easting:	548421.92 4375054.99
County:	Marton	Nottning.	4373034.89 C/O RI 7/4
District:	Monnington	Public Road Access:	
Quadrangle:	Glover Gop	Generally used farm name:	Educous ct.
Watershed:	Laurel Run		
	k the box that applies	\	
SURFA	CE OWNER		
■ SURFA	CE OWNER (Road and/or Other Disturband		
	CE OWNER (Impoundments/Pits)	FOR EXECUT	ION BY A CORPORATION, ETC.
SURFA			
	OWNER OR LESSEE	Company: Equitors By: Raph Ceer	ns LP
□ COAL		Company: Anathor By: Rath Coor Its: VP Land	A
□ COAL	OWNER OR LESSEE	Company: Anathor By: Rath Coor Its: VP Land	John & Ocer

Oil and Gas Privacy Notice:
The Office of Oil and Gas processes your personal information, such as name, address and telephone number, as part Doll ared Gas 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 requires. Our office will appropriately secure your personal information. If you have any questions about our use or your personal information, flease contact DEP's Chief Privacy Officer at denorivacyofficer@wy.gov.

WV Department of **Environmental Protection**

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WEST VIRGINIA DEPARTMENT OF TRANSPORTATION

Division of Highways

1900 Kanawha Boulevard East • Building Five • Room 110 Charleston, West Virginia 25305-0430 • (304) 558-3505

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

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

GLO168H1		e, maion county	
	GLO168H2	GLO168H3	GLO168H4
GLO168H5	GLO168H6	GLO168H7	GLO168H8
GLO168H9	GLO168H10		
GLO168H13		GLO168H11	GLO168H12
	GLO168H14	GLO168H15	GLO168H16
GLO168H17	GLO168H18 44-0	2442GLO168H19	GLO168H20
GLO168H21	GLO168H22	GLO168H23	
	5251551122	GLO108H23	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.

Very Truly Yours,

Gary K. Clayton, P.E.

Regional Maintenance Engineer

Central Office O&G CoordinatoECEIVED

Office of Oil and Gas

FEB 2 4 2017

WV Department of Environmental 66/46/2017

Cc: Nick Bumgardner

EQT Production Company

CH, OM, D-4, File

Anticipated Frac Additives Chemical Names and CAS numbers

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

4704000 ...

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Office of Oil and Gas

FEB 24 2017

WV Department of Environmental Protection 06/16/2017

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

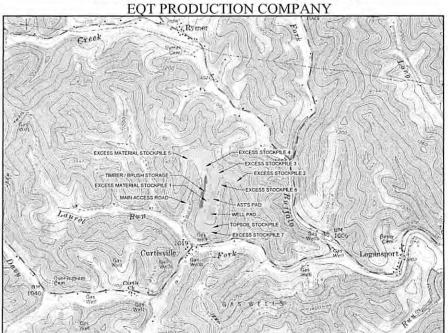
GLO 168 H21 - LAT: 39.523900 / LONG. -80.436595 GLO 168 H22 - LAT: 39.523940 / LONG. -80.523585

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

EQT - GLO 168 FINAL SITE DESIGN, CONSTRUCTION PLANS, & **EROSION & SEDIMENT CONTROL PLANS**

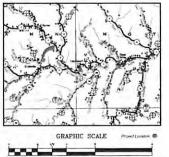


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-topicated 40 000 66L 45T	39.525860	-80.43E113
Proposed 60,000 BBL AST	39.524954	-80 435160

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

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!!





1 0001 - 1 WIE

WELL LOCATION RESTRICTIONS

300' from edge of disturbance to naturally reproducing from

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

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



TAX MAP 49 - PARCEL TO 28 96 ACRES SITE DISTURBANCE

PROPERTOCKPILE - 284 ACRES LL PAD = 3 21 ACRES

TIMBER REMOVAL - 1 91 ACRES

WELL PAD = 208 ACRES

TAX MAP 44 - PARCEL N B1 25 ACRES SITE DISTURBANCE

MAIN ACCESS ROAD + 701 ACRES TIMBER / BRUSH STORAGE + 0 44 ACRES EXCESS MATERIAL STOCKPILES + 14 M ACRES

TIMBER REMOVAL + 21 23 ACRES

JOSEPH V FORTE TAX MAP 49 - PARCEL 39 1 23 98 ACRES SITE DISTURBANCE

EVERS MATERIAL STO MELL PAD + 1 11 ACRES

DO SITE CONSTRUCTON ACTIVITIES TAKE PLACE IN FLOODPLAIN.

SHEET INDEX

MAIN ACCESS ROAD PROFILE & CROSS SECTIONS --MAIN ACCESS NOAD PROFILE & CROSS SECTIONS - 1.24-38
EXCESS MATERIAL STOCKPILES PROFILES & SECTIONS - 24-38
TOPSOIL STOCKPILE PROFILE & CROSS SECTIONS - 39-40
CONSTRUCTION DETAILS - 41-43
RECLAMATION PLAYS - 44-49

PERMIT NEEDED FROM COUNTY FLOODPLAIN COORDINATOR

TIMBER REMOVAL = 14 64 ACRES

HEC-RAS STUDY COMPLETED

LOODPLAIN SHOWN ON DRAWINGS

ACREAGES OF CONSTRUCTION IN FLOODPLAIN

COVER SHEET / LOCATION MAR

FINAL SITE DESIGN PLANS -WELL PAD PROFILE & CROSS SECTIONS -AST PAD PROFILE & CROSS SECTIONS --

EXISTING CONDITIONS PLAN
SCHEDULE OF QUANTITIES
CONSTRUCTION, GENERAL AND EAS NOTES
OVERVIEW OF SITE DESIGN

FIRM MAP NUMBER(S) FOR SITE





7/3/1 5/24/2017



Allegheny P.O. E 237 Birch

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

Surveyor & Engineer

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

Tom Corathers - PE, PS - Hornor Brothers End 104-624-6445 Office

Engine

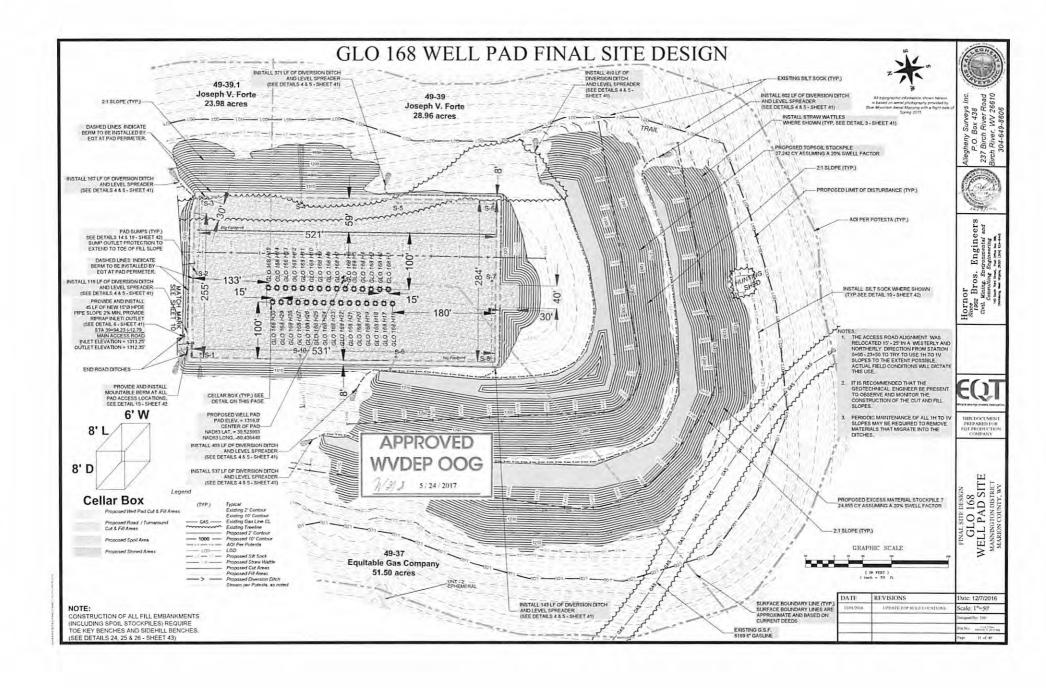
FLOODPLAIN CONDITIONS

N/A

NA

COVER / LOCATION SHEET GLO 168 WELL PAD SITE MANNINGTON DISTRICT MARKON COUNTY, WY ITE

DATE	REVISIONS	Date: 12/7/2016
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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

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GLO 168 H15 - LAT. 35 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

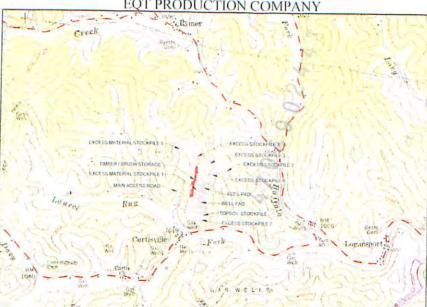
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GLO 168 H23 - LAT 39 523981 / LONG -80 436574 GLO 168 H24 - LAT 39 524021 / LONG -80 436564 GLO 168 H25 - LAT 39 524061 / LONG -80 436554 GLO 168 H26 - LAT 39 524102 / LONG -80 436543 GLO 168 H27 - LAT 39 524142 / LONG -80 436533

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

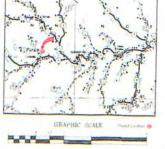
EQT - GLO 168 FINAL SITE DESIGN, CONSTRUCTION PLANS, & **EROSION & SEDIMENT CONTROL PLANS EQT PRODUCTION COMPANY**



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ASSI Pad with seministry continuent and a 60,000 pps. As-brown Storage Tank Pad detagle construction or malenals associated with the Above Glorage Task (ACT)



Project Contacts



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DISCONENCE PRIPARIDIOS COMPANY

LO 168 PAD SITE WELL

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FLOODPLAIN CONDITIONS

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