

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 168H19

47-049-02443-00-00

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 168H19

Farm Name: EQUITRANS LP

U.S. WELL NUMBER: 47-049-02443-00-00

Horizontal 6A / New Drill

Date Issued: 6/13/2017

Promoting a healthy environment.

API	Number:	
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PERMIT CONDITIONS 4902443

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

CONDITIONS

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

API Number:	
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PERMIT CONDITIONS 4704902445

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

WW-6B (04/15)

API NO. 47-49 -	
OPERATOR WELL NO. GLO168H19	_
Well Pad Name: GLO168	_

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

1) Well Operator: EQT Produ	uction Company		Marion	Manning	Glover Gap
2) Operator's Well Number: G	LO168H19	Operator ID Well Pa	County ad Name: GL	District	Quadrangle
3) Farm Name/Surface Owner:	Equitrans LP	Public Ro	oad Access: C	/O Rt 7/4	
4) Elevation, current ground: 5) Well Type (a) Gas x Other	1357 E	evation, proposed	l post-construction	rage	
	allow X rizontal X	Deep			SDW 312/2017
Proposed Target Formation(s Marcellus, 7722, 53', 2593 PS), Depth(s), Antic	ipated Thickness	and Expected	Pressure(s):	01-12017
Proposed Total Vertical Dept					
) Formation at Total Vertical D	1	-			
0) Proposed Total Measured Do	-	# -			
1) Proposed Horizontal Leg Le		4/	0490	2443	
2) Approximate Fresh Water St	rata Depths:	369		7.0	
 Method to Determine Fresh Approximate Saltwater Dept 	Water Depths: B	y offset wells			
5) Approximate Coal Seam Dep		35. 1032			
6) Approximate Depth to Possil			n <mark>o</mark> ne		
 Does Proposed well location rectly overlying or adjacent to 	contain coal seam		No	0	
a) If Yes, provide Mine Info:	Name: Harris	on County Mine			
	Depth: 1032'				
		ECEIVED -			
	Seam: Pittsbu	of Oil and Ga	_		

WV Department of Environmental Protection

WW-6B	
(04/15)	

API NO. 47- 049 - 02444 OPERATOR WELL NO. GLOISSHIP Well Pad Name: GLOIGE

18)

CASING AND TUBING PROGRAM

TYPE	Size	New		Weight per ft.	FOOTAGE: For	INTERVALS:	CEMENT:
	(in)	or Used	Grade	(lb/ft)	Drilling (ft)	Left in Well (ft)	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 ft^3 / CTS
Coal						1	417 1637 618
Intermediate	9 5/8	New	A-500	40	3090	3090	1225 ft^3 / CTS
Production	5 1/2	New	P-110	20	14069	4 4 9 9 9	
Tubing	2 3/8		J-55	4.7		Alay not be mo, if ma set 47	SOT above too producing zone
Liners						abuse top parter 20 melianum	

SDW Glalzo17

TYPE		T	110 11				1
	Size (in)	Wellbore Diameter (in)	Wall Thickness (in)	Burst Pressure (psi)	Anticipated Max. Internal Pressure (psi)	Cement Type	Cement Yield
Conductor	20	26	.375	1378	1102	Class A	(cu. ft./k)
Fresh Water	13 3/8	17 1/2	.38	2700	2160	See Vanance	
Coal				2.00	2100	ace Amigues	1.19
Intermediate	9 5/8	12 3/8	.395	3950	3160	Class A	4.00
Production	5 1/2	8 1/2	.361	12640	10112	Class A	1.07
Tubing	2 3/8	NA	.19	7700	10/12	Class A/H	1.123/2.098
Liners				1700	7/0		
						90	
			<u>PACKER</u>	<u>s</u>		00	₹ *
Kind:							<u> </u>

Kind:	
Sizes:	
Depths Set:	

Page 2 of 3

W	W	-6	В
(1	0/	14	I)

API NO. 4749	
OPERATOR WELL	NO. GLO168H19
Well Pad Name:	GLO168

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

Drill and complete a new horizontal well in the Marcellus Formation. Drill the vertical to an approximate depth of 3245'. Kick off and drill curve. Drill the lateral in the Marcellus. Cement casing.

4704902443

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

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

Conductor: Class A no additives

Surface (Type 1 Cement): 0-3% Calcium Chloride Used to speed the setting of cement slurnes, .25% Flake Loss Circulation Material (LCM) is used to combat the loss of the cement slurny 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 slurnes. 0.25% flake. Loss Circulation Material (LCM) is used to combat the loss of whole drilling fluid or cement slurny (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.

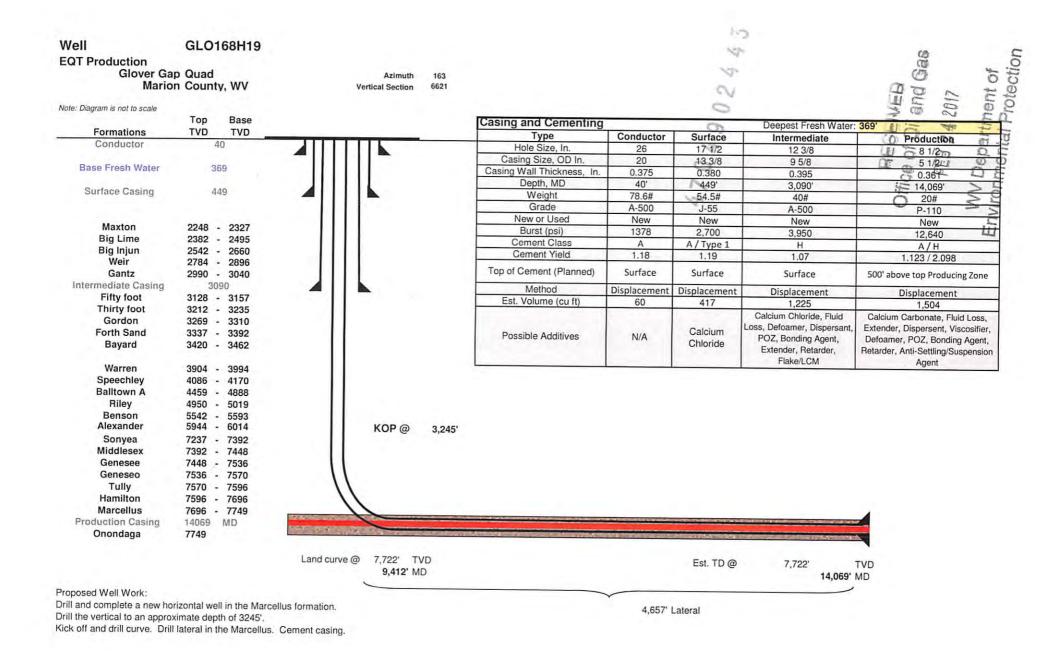
25) Proposed borehole conditioning procedures:

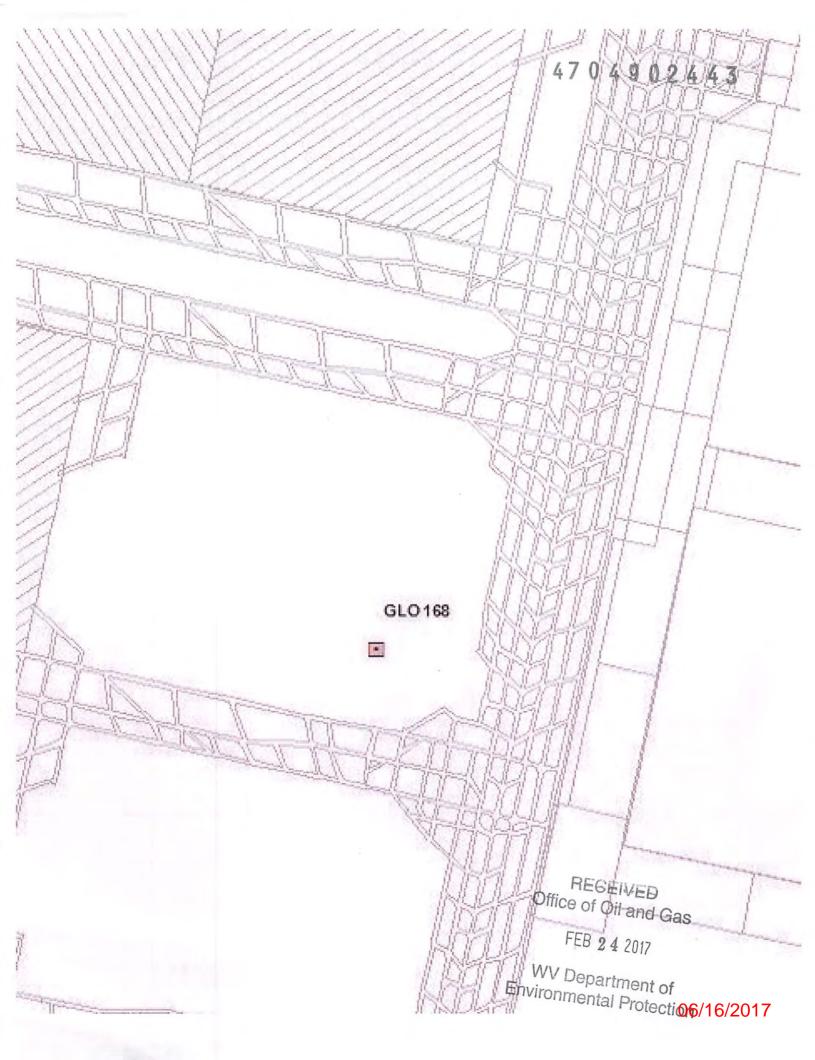
Surface: Circulate hole clean while rotating & reciprocating the drill string until cuttings diminish at surface. Intermediate: Circulate hole clean while rotating & reciprocating the drill string until cuttings diminish at surface.

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. Office of Oil and Gas

*Note: Attach additional sheets as needed.

FEB 2 4 2017





EQT Production

Hydraulic Fracturing Monitoring Plan

Pad ID: GLO168

Marion County, WV

12/21/16

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Office of Oil and Gas

FEB **24** 2017

WV Depattraent of Environmental Projection 17

Purpose

The purpose of this pad-specific Hydraulic Fracturing Monitoring Plan is to identify and notify conventional well operators near EQT hydraulic fracturing in 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:

- 1. Inspect their surface equipment prior to fracturing to establish integrity and establish pre-frac well conditions
- Observe wells closely during and after fracturing and monitor for abnormal increases in water, gas or pressure
- 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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WV Department of Environmental Protection

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CONSOLIDATION COAL
1/1/1981 UNKNOWN
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-80.4597 CONSOLIDATION COAL
-80.4400 EQUITABLE GAS COMPANY
-80.4602 UNKNOWN

0 GR 0 GR 1086 GR

GORDON STRAY /SD/ 12/18/1980 GORDON STRAY /SD/ 12/18/1980 GORDON STRAY /SD/GAS RECEIVED Gas Office of Oil and

FEB 2 4 2017 \$\frac{1}{20} \text{Possible} \te

UWI	Name	Depth Top	Base Depth
47049010210000	PITTSBURGH COAL		892
47049010210000	MURPHY /SD/		1055
47049010210000	DUNKARD LITTLE /SD/		1254
47049010210000	FREEPORT		1515
47049010210000	SALT SD /GROUP/		1907
47049010210000	MAXTON/SD/		2113
47049010210000	BIG LIME		2172
47049010210000	KEENER /SD/		2200
47049010210000	BIG INJUN /SD/		2314
47049010210000	FIFTY FOOT SD		2847
47049010210000	THIRTY FOOT SD		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
	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	==,0
47049004550000	PITTSBURGH COAL	843	
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*Perforated formations

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RECEIVED Office of Oil and Gas

FEB 2 4 2017

WV Department of Environmental P06/P16/2017



west virginia department of environmental protection

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

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

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

4704902443

Promoting a healthy environment.

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FEB 2 4 2017

WV Department of 06/16/2017 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
- 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.

4704902443

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FEB 2 4 2017

WV Department of 6/16/2017 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.

4704902443

RECEIVED Office of Oil and Gas FEB 2 4 2017 WW-9 (4/16)

API Number 47 - 49

Operator's Well No. GLO168H19

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	
Will a pit be used? Yes No	Tes IV No
If so, please describe anticipated pit waste:	
Will a synthetic liner be used in the pit? Yes	No ✓ If so, what ml.?
Proposed Disposal Method For Treated Pit W	
Land Application	SDW 312/2017
	C Permit Number 0014, 8462, 4037
Reuse (at API Number Vari	
Other (Explain_	form WW-9 for disposal location)
Will closed loop system be used? If so, describe:	The closed loop system will remove drill cuttings from the drilling fluid. The cuttings are then prepared for transportation to an off-site disposal facility.
Drilling medium anticipated for this well (vertical and	horizontal)? Air, freshwater, oil based, etc. See Attached
-If oil based, what type? Synthetic, petroleum	, etc. Synthetic Mud
Additives to be used in drilling medium? See Attached	
Drill cuttings disposal method? Leave in pit, landfill, n	removed offsite, etc. Landfill
-If left in pit and plan to solidify what medium	
-Landfill or offsite name/permit number? See	· ·
Permittee shall provide written notice to the Office of C West Virginia solid waste facility. The notice shall be p where it was properly disposed.	Oil and Gas of any load of drill cuttings or associated waste rejected at any provided within 24 hours of rejection and the permittee shall also disclose
provisions of the permit are enforceable by law. Viola law or regulation can lead to enforcement action. I certify under penalty of law that I have pe application form and all attachments thereto and the	west Virginia Department of Environmental Protection. I understand that the ations of any term or condition of the general permit and/or other applicable ersonally examined and am familiar with the information submitted on this at, based on my inquiry of those individuals immediately responsible for tion is true, accurate, and complete. I am aware that there are significant possibility of fine or imprisonment.
	- 4
Subscribed and sworn before me this 2 da	ay of February . 20 17
Allelle of Warnets	Notary Public
My commission expires 4-7-20	OFFICIAL SEAL NOTARY PUBLIC STATE OF WARST UPGELS AND THE STATE OF WARST UPGELS AND THE STATE OF

WW-9 Attachment

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

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

Additives to be used in drilling medium?

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

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Office of Oil and Gas

OFEB 2 4 2017

WV Department of Environmental Protection

Proposed Revegetation Tre	atment: Acres Disturbed 6	6.70 Prevegetation pl	6.2
Lime 3	Tons/acre or to corre		
Fertilizer type Gr	anular 10-20-20		
Fertilizer amount_	1/3	lbs/acre	
Mulch 2		_Tons/acre	
		Seed Mixtures	
T	emporary	Perma	nent
Seed Type	lbs/acre	Seed Type	lbs/acre
KY-31	40	Orchard Grass	15
Alsike Clover	5	Alsike Clover	5
Annual Rye	15		
creage, of the land applicati	ion area.	l application (unless engineered plans includ lude dimensions (L x W x D) of the pit, and	ing this info have beed dimensions (L x W),
Maps(s) of road, location, pi rovided). If water from the creage, of the land applicati hotocopied section of invol	lved 7.5' topographic sheet.	ude dimensions (L x W x D) of the pit, and	dimensions (L x W),
Maps(s) of road, location, pi rovided). If water from the creage, of the land applicati hotocopied section of invol	lved 7.5' topographic sheet.	ude dimensions (L x W x D) of the pit, and	dimensions (L x W),
Maps(s) of road, location, pirovided). If water from the creage, of the land applicate hotocopied section of involute Approved by:	lved 7.5' topographic sheet. Owner all disturbed all dist	thed areas 95 Stones	dimensions (L x W),
Maps(s) of road, location, pirovided). If water from the creage, of the land applicate hotocopied section of involute lan Approved by: Omments: Pre-seed/	Ived 7.5' topographic sheet. POWOLATE Mulch alldistee sulation. Upga	Thed areas as soon as	dimensions (L x W),
Maps(s) of road, location, pirovided). If water from the creage, of the land applicate hotocopied section of involute lan Approved by: Omments: Pre-seed/	lved 7.5' topographic sheet. Owner all disturbed all dist	Thed areas as soon as	dimensions (L x W),
Maps(s) of road, location, pirovided). If water from the creage, of the land applicate hotocopied section of involute lan Approved by: Omments: Pre-seed/	Ived 7.5' topographic sheet. POWOLATE Mulch alldistee sulation. Upga	Thed areas as soon as	dimensions (L x W),
Maps(s) of road, location, pirovided). If water from the creage, of the land applicate hotocopied section of involute lan Approved by: Omments: Pre-seed/	Ived 7.5' topographic sheet. POWOLATE Mulch alldistee sulation. Upga	Thed areas as soon as	dimensions (L x W),
Maps(s) of road, location, pirovided). If water from the creage, of the land applicate hotocopied section of involute lan Approved by: Omments: Pre-seed/	Ived 7.5' topographic sheet. POWOLATE Mulch alldistee sulation. Upga	Thed areas as soon as	dimensions (L x W),
Maps(s) of road, location, pirovided). If water from the creage, of the land applicate hotocopied section of involute lan Approved by: Omments: Pre-seed/	Ived 7.5' topographic sheet. POWOLATE Mulch alldistee sulation. Upga	Thed areas as soon as	dimensions (L x W),
Maps(s) of road, location, pirovided). If water from the creage, of the land application to the creage, of the land application of involved by: Jan Approved by: Jomments: Pre-seed/	wed 7.5' topographic sheet. Owned all disturbed all distu	Thed areas as soon as	E reasonable Aer. WU

EQT Production Water plan

Offsite disposals for Marcellus wells

CWS TRUCKING INC.

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

LAD LIQUID ASSETS DISPOSAL INC.

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

TRI COUNTY WASTE WATER MANAGEMENT, INC.

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

1dfili 4704902683 Waste Management - Meadowfill Landfill

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

Waste Management - Northwestern Landfill

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

BROAD STREET ENERGY LLC

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

TRIAD ENERGY

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

KING EXCAVATING CO.

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

Office of Oil and Gas WV Department of Environmental Protection

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

237 Birch River Road P.O. Box 438 Birch River, WV 26610 Environmental Protection



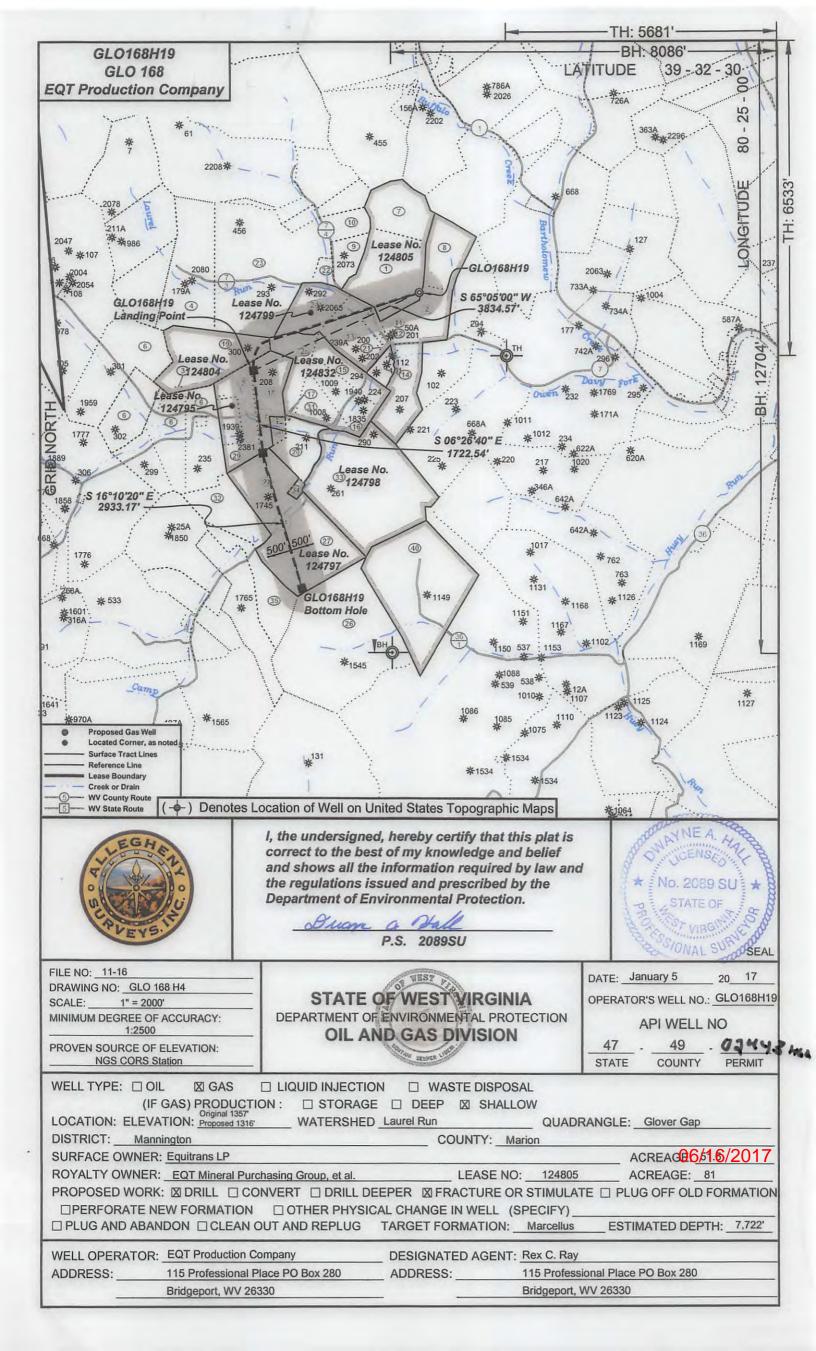
Site Specific Safety Plan

EQT GLO 168 Pad

Glover Quadrant Marion County, WV

For Wells:

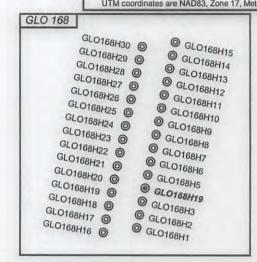
GLO168H1 _GLO168H2 _GLO168H3 _	GLO168H4 _GLO168H5 GLO168H6_ GLO16
GLO168H16 GLO168H17 GLO168H18 G	LO168H19 GLO168H20 GLO168H21
7/4//	Date Prepared: July 28, 2016
T Production	SPW 3/2/2017
lemitting Spenusor	WV Oil and Gas Inspector
e percorsor	Title
1-26-17	
te	Date



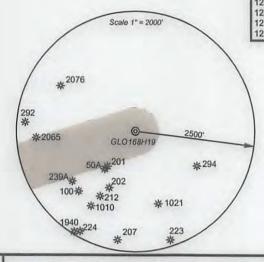
GLO168H19 **GLO 168 EQT Production Company**

Tract LD.	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.	
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	51	7	Marion	Mannington	Consolidation Coal Company	0.63
18	48	7	Marion	Mannington	Consolidation Coal Company	26.61
19	48	5	Marion	Mannington	Consolidation Coal Company	46.83
20	51	6	Marion	Mannington	Consolidation Coal Company	20.17
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	8	Marion	Mannington	Consolidation Coal Company	4.12
31	48	9	Marion	Mannington	Consolidation Coal Company	15.62
32	51	5	Marion	Mannington	Michael & Trixie Smith	32.00
33	50	21	Marion	Mannington	Consolidation Coal Company	99.96
34	50	23.2	Marion	Mannington	Scott R. Russell	0.42
35	50	25	Marion	Mannington	Coastal Forest Resources Company	30.75
40	50	24	Marion	Mannington	Robert W. Devaul, et al.	223.00

Notes: GL0168H19 coordinates are NAD 27 N: 374,243.42 E: 1,735,740.49 NAD 27 Lat: 39.523735 Long: -80.436806 NAD 83 UTM N: 4,375,059.48 E: 548,422.79 NAD 27 N: 372,627.93 E: 1,732,262.82 NAD 27 N: 372,627.93 E: 1,732,262.82 NAD 27 Lat: 39.519199 Long: -80.449073 NAD 83 UTM N: 4,374,549.62 E: 547,371.46 GLO168H19 Deflection Point coordinates are NAD 27 N: 370,916.27 E: 1,732,456.13 NAD 27 N: 370,916;27 E: 1,732,456;13
NAD 27 Lat: 39.514506 Long: -80.448324
NAD 83 UTM N: 4,374,029;12 E: 547,439,04
GLO168H19 Bottom Hole coordinates are
NAD 27 N: 368,099;15 E: 1,733,273,04
NAD 27 Lat: 39.506795 Long: -80.445323
NAD 83 UTM N: 4,373,175:00 E: 547,702,20
Virginia Coordinate system of 1927 (North Zone) West Virginia Coordinate system of 1927 (North Zone) based upon Differential GPS Measurements. Plat orientation, corner and well ties are based upon the grid north meridian. Well location references are based upon the grid north meridian. UTM coordinates are NAD83, Zone 17, Meters



Lease No. 124799 124832 Acres 135 73.31 Owner
Anita K. Stanley, et al.
Robert D. Baker, et al. 124804 124795 124797 48 CNX CNX, et al. Charles R. Russell & Wanda L. Russell 67 92



Well Reference

14" Scarlet Oak

202 2240 GLO168H19 292.36 AZ112°40®5/8" Rebar 318,10,78" AZ187°14'41" 598.53' 318.19 1" = 500" 15" Scarlet Oak OWAYIVE A



Proposed Gas Well Located Corner, as n

Surface Tract Lines Reference Line

Lease Boundary Creek or Drain WV County Route WV State Route

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

> > a Had P.S. 2089SU

SONAL SURVE DATE: January 5 20 OPERATOR'S WELL NO .: GLO168H19

CENSES

No. 2089 SU

STATE OF

FILE NO: 11-16 DRAWING NO: GLO 168 H19 1" = 2000' MINIMUM DEGREE OF ACCURACY: 1:2500 PROVEN SOURCE OF ELEVATION:

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

API WELL NO 0244346 49

NGS CORS Station	2022	DOLDO DE	STAT	E COUNTY	PERMIT
WELL TYPE: □ OIL □ GAS	☐ LIQUID INJECTION ☐	WASTE DISPOSA	AL		
(IF GAS) PRODUCT Original 1357	ON: STORAGE DE	EP SHALLO	W		
LOCATION: ELEVATION: Proposed 1316	WATERSHED Starkey	Run and Wiley Fork	QUADRANGLI	E: Glover Gap	
DISTRICT: Mannington		COUNTY: Mar	rion		
SURFACE OWNER: Equitrans LP				ACREAGE 6	6/2017
ROYALTY OWNER: EQT Mineral Pur	chasing Group, et al.	LEASE NO:	124805	ACREAGE: 81	
PROPOSED WORK: ☑ DRILL ☐ CO	DNVERT DRILL DEEPER	FRACTURE OR	STIMULATE F	LUG OFF OLD F	ORMATION
□PERFORATE NEW FORMATION	OTHER PHYSICAL CHAN	IGE IN WELL (S	PECIFY)		
□ PLUG AND ABANDON □ CLEAN	OUT AND REPLUG TARGET	FORMATION: _	Marcellus ES	TIMATED DEPTI	H:
WELL OPERATOR: EQT Production C	ompany DESIG	NATED AGENT:	Rex C. Ray		
ADDRESS: 115 Professional F	Place PO Box 280 ADDR	ESS:	115 Professional Pla	ice PO Box 280	
Bridgeport, WV 26	330		Bridgeport, WV 2633	30	

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

470 9902443

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

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

WV Division of Water and Waste Management

WV Division of Natural Resources WV Division of Highways

U.S. Army Corps of Engineers

U.S. Fish and Wildlife Service

County Floodplain Coordinator

Office of Oil and Gas FEB 2 4 2017

Enviror

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

Well Operator: EQT Production Company

By:

Victoria J Roark

Its:

Permitting Supervisor

Page 1 of 2

Lease No.	Grantor, Lessor, etc.	Grantee, Lessee, etc.	Royalty	Book/Page
	EQT Mineral Purchasing Group, et al. (Current Royal	tr. Oursel	***	
124805	Howard Wright, et ux, et al. (Original Lessor)	Equitable Gas Company		DB 667/33
124003	Equitable Gas Company	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, Inc. Equitrans, LP Robert D. Baker, et al. (Current Royalty Owner)	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)		•••	
<u>124804</u>	John D. Cunningham, et ux.	Equitable Gas Company		DB 730/264
	Equitable Gas Company	Equitrans, Inc.		AB 12/279
	Equitrans, Inc.	Equitrans, LP		DB 46/660
	Equitrans, LP	EQT Production Company		DB 1114/130
	CNX, et al. (Current Royalty Owner)		***	
<u>124795</u>	C. H. Cunningham, et al.	Pittsburgh & West Virginia Gas		DB 465/309 DB 510/487,
	Pittsburgh & West Virginia Gas Company	Equitable Gas Company		511/539
	Equitable Gas Company	Equitrans, Inc.		AB 12/279
	Equitrans, Inc.	Equitrans, LP		AB 16/660
	Equitrans, LP	EQT Production Company		DB 1114/127
	Charles R. Russell & Wanda L, Russell (Current Roya	alty Owner)	•••	
<u>124797</u>	Eva C. Hayes	Equitable Gas Company		DB 729/391
	Equitable Gas Company	Equitrans, Inc.		AB 12/279
	Equitrans, Inc.	Equitrans, LP		AB 16/660
	Equitrans, LP	EQT Production Company		DB 1114/127

^{***}We certify that we will pay a minimum one-eighth of the total amount paid to or received by or allowed to the owner 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.

HEGEIVED
Office of Oil and Gas

FEB 2 4 2017

WV Department of Environmental Protection



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

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

Date of Notice Certification:

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

Date of Noti	ce Certification:	API No. 47- 4	19 -		
		Operator's W		68H19	
		Well Pad Nam			
Notice has	been given:				
Pursuant to th	he provisions in West Virginia Code	§ 22-6A, the Operator has provided the require	ed parties w	ith the Notice Forms listed	
	tract of land as follows:				
State: County:	W		8422.79		
District:	Mannington	Northing: 43	75059.48		
Quadrangle:	Glover Gap		O Rt 7/4		
Watershed:	Laurel Run	Generally used farm name: Eq	Equitrans LP		
prescribed by it has provid information r of giving the requirements Virginia Cod	the secretary, shall be verified and sed the owners of the surface described and (c), so surface owner notice of entry to so of subsection (b), section sixteen of	every permit application filed under this setshall contain the following information: (14) A bed in subdivisions (1), (2) and (4), subsective ection sixteen of this article; (ii) that the requirement pursuant to subsection (a), section tender this article were waived in writing by the tender proof of and certify to the secretary that int.	A certification (b), secrement was of this artice surface ow	on from the operator that (i) tion ten of this article, the deemed satisfied as a result the six-a; or (iii) the notice ner; and Pursuant to West	
that the Ope	West Virginia Code § 22-6A, the Operator has properly served the require ECK ALL THAT APPLY	perator has attached proof to this Notice Certified parties with the following:	fication	OOG OFFICE USE	
☐ 1. NO	TICE OF SEISMIC ACTIVITY or	■ NOTICE NOT REQUIRED BECAUSE SEISMIC ACTIVITY WAS CONDUCTED		RECEIVED/	
■ 2. NO	TICE OF ENTRY FOR PLAT SURV	VEY or ☐ NO PLAT SURVEY WAS COND	DUCTED	☐ RECEIVED	
☐ 3. NO	TICE OF INTENT TO DRILL or	■ NOTICE NOT REQUIRED BECAUSE			
		NOTICE OF ENTRY FOR PLAT SURVEY WAS CONDUCTED or		RECEIVED/ NOT REQUIRED	
		NOTICE OF ENTRY FOR PLAT SURVEY	(
■ 4. NO	TICE OF PLANNED OPERATION	NOTICE OF ENTRY FOR PLAT SURVEY WAS CONDUCTED or WRITTEN WAIVER BY SURFACE (PLEASE ATTACH)	OWNER		
		NOTICE OF ENTRY FOR PLAT SURVEY WAS CONDUCTED or WRITTEN WAIVER BY SURFACE OF	OWNER	NOT REQUIRED	

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 affoldavit of personal service, the return receipt card or other postal receipt for certified mailing.

> WV Department of Environmental Protection

Certification of Notice is hereby given:

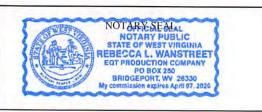
THEREFORE, I have read and understand the notice requirements within West Virginia Code § 22-6A. I certify that as required under West Virginia Code § 22-6A, I have served the attached copies of the Notice Forms, identified above, to the required parties through personal service, by registered mail or 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 Company
 Address:
 115 Professional Place PO Box 280

 By:
 Victoria J Roark
 Bridgeport WV 26330

 Its:
 Permitting Supervisor
 Facsimile:
 304-848-0041

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



Subscribed and sworn before me this 21 day of February 2017

Notary Public

My Commission Expires 4-7-2020

Oil and Gas Privacy Notice:

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

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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. GL0168H19
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 provided no faler t	nan the ming date of permit application.
Date of Notice: 2 2 1 pate Permit Application Filed:	2/21/17
PERMIT FOR ANY WELL WORK CONSTRUCTION OF	PPROVAL FOR THE F AN IMPOUNDMENT OR PIT
Delivery method pursuant to West Virginia Code § 22-6A-	10(b)
	HOD OF DELIVERY THAT REQUIRES A EIPT OR SIGNATURE CONFIRMATION
registered mail or by any method of delivery that requires a receip sediment control plan required by section seven of this article, and the surface of the tract on which the well is or is proposed to be looil and gas leasehold being developed by the proposed well work, described in the erosion and sediment control plan submitted pursoperator or lessee, in the event the tract of land on which the well more coal seams; (4) The owners of record of the surface tract or well work, if the surface tract is to be used for the placement, consimpoundment or pit as described in section nine of this article; (5) have a water well, spring or water supply source located within or provide water for consumption by humans or domestic animals; as proposed well work activity is to take place. (c)(1) If more than the subsection (b) of this section hold interests in the lands, the application of the sheriff required to be maintained pursuant to section provision of this article to the contrary, notice to a lien holder is not compared to the contrary of the section shall also water purveyor or surface owner subject to notice and water testing water purveyor or surface owner subject to notice and water testing the section of the surface owner subject to notice and water testing water purveyor or surface owner subject to notice and water testing the surface of the surface of the surface of the surface of the surface tract or is provised to notice and water testing the surface of the surface of the surface tract or is provised to notice and water testing the surface of the surfa	
☑ Application Notice☑ WSSP Notice☑ E&S Plan Notice☑ SURFACE OWNER(s)	
Name: See Attached	☑ COAL OWNER OR LESSEE Name: See Attached
Address:	Address:
Name:	□ COAL OPERATOR
Address:	Name:
SUBEACE ON SERVICE AND A STATE OF THE STATE	Address:
SURFACE OWNER(s) (Road and/or Other Disturbance) Name: See Attached	ESTIDENCE OWNER OF WATER WELL
Address:	☑ SURFACE OWNER OF WATER WELL AND/OR WATER PURVEYOR(s)
Address.	Name: See Attached
Name:	Address:
Address:	
	OPERATOR OF ANY NATURAL GAS STORAGE FIELD
SURFACE OWNER(s) (Impoundments or Pits)	Name:
Name: See Attached	Address:
Address:	*Please attach additional forms if necessary Oil and Gas
	"Please attach additional forms if necessary" and Gas
	FFR Q 4 2017

FEB 2 4 2017

WV Department of Environmental Prot 06/6/6/2017

WW-6A
(8-13)

API NO. 47- <u>49</u>	
OPERATOR WELL NO.	GLO168H19
Well Pad Name: GLO168	

Notice is hereby given:

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

This Notice Shall Include:

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

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

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

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

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

Well Location Restrictions

Pursuant to W. Va. Code § 22-6A-12, Wells may not be drilled within two hundred fifty feet measured horizontally from any existing water well or developed spring used for human or domestic animal consumption. The center of well pads may not be located within six hundred twenty-five feet of an occupied dwelling structure, or a building two thousand five hundred square feet or larger used to house or shelter dairy cattle or poultry husbandry. This limitation is applicable to those wells, developed springs, dwellings or agricultural buildings that existed on the date a notice to the surface owner of planned entry for surveying or staking as provided in section ten of this article or a notice of intent to drill a horizontal well as provided in subsection (b), section sixteen of this article was provided, whichever occurs first, and to any dwelling under construction prior to that date. This limitation may be waived by written consent of the surface owner transmitted to the department and recorded in the real property records maintained by the clerk of the county commission for the county in which such property is located. Furthermore, the well operator may be granted a variance by the secretary from these distance restrictions upon submission of a plan which identifies the sufficient measures, facilities or practices to be employed during well site construction, drilling and operations. The variance, if granted, shall include terms and conditions the department requires to ensure the safety and protection of affected persons and property. The terms and conditions may include insurance, bonding and indemnification, as well as technical requirements. (b) No well pad may be prepared or well drilled within one hundred feet measured horizontally from any perennial stream, natural or artificial lake, pond or reservoir, or a wetland, or within three hundred feet of a naturally reproducing trout stream. No well pad may be located within one thousand feet of a surface or ground water intake of a public water supply. The distance from the public water supply as identified by the department shall be measured as follows: (1) For a surface water intake on a lake or reservoir, the distance shall be measured from the boundary of the lake or reservoir. (2) For a surface water intake on a flowing stream, the distance shall be measured from a semicircular radius extending upstream of the surface water intake. (3) For a groundwater source, the distance shall be measured from the wellhead or spring. The department may, in its discretion, waive these distance restrictions upon submission of a plan identifying sufficient measures, facilities or practices to be employed during well site construction, drilling and operations to protect the waters of the state. A waiver, if granted, shall impose any permit conditions as the secretary considers necessary. (c) Notwithstanding the foregoing provisions of this section, nothing contained in this section prevents an operator from conducting the activities permitted or authorized by a Clean water Section 0.4 permit or other approval from the United States Army Corps of Engineers within any waters of the state or within the restrict of participant of the section. (d) The well location restrictions set forth in this section shall not apply to any well on a multiple well pad if at least one of the wells was permitted prior to the effective date of this article. (e) The secretary shall, by December 34, 2613, report to the Legislature on the noise, light, dust and volatile organic compounds generated by the drilling of horizontal wells as they relate to the well location restrictions regarding occupied dwelling structures pursuant to this section. Upon a finding if any, by the secretary that the well location restrictions regarding occupied dwelling structures are inadequate or other was indicated in the secretary that the well location restrictions regarding occupied dwelling structures are inadequate or other was indicated. Protection 16/2017 employed during well site construction, drilling and operations to protect the waters of the state. A waiver, if granted, shall impose any

WW-6A (8-13)

API NO. 47-49

OPERATOR WELL NO. GLO168H19

Well Pad Name: GLO168

examined in the study required by this subsection, the secretary shall have the authority to propose for promulgation legislative rules establishing guidelines and procedures regarding reasonable levels of noise, light, dust and volatile organic compounds relating to drilling horizontal wells, including reasonable means of mitigating such factors, if necessary.

Water Well Testing:

Pursuant to West Virginia Code § 22-6A-10(d), notification shall be made, with respect to surface landowners identified in subsection (b) or water purveyors identified in subdivision (5), subsection (b) of this section, of the opportunity for testing their water well. The operator shall provide an analysis to such surface landowner or water purveyor at their request.

Water Testing Laboratories:

Pursuant to West Virginia Code § 22-6A-I0(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 comments with the secretary as to the location or construction of the applicant's proposed well work within thirty days after the application is filled 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

WV Department of Environmental Protection and Gas

WV Department of Environmental Protection and Gas

Charleston, WV 25304
(304) 926-0450

WV Department of Submitting written comments, notice of the privilege cision and a fisher prisons qualified to Such persons may request, at the time of submitting written comments, notice of the privilege cision and a fisher privilege to Such persons may request, at the time of submitting written comments, notice of the privilege cision and a fisher privilege to Such persons may request, at the time of submitting written comments, notice of the privilege cision and a fisher privilege cision and a fisher

WW-6A (8-13)

API NO. 47-49 -

OPERATOR WELL NO. GLO168H19

Well Pad Name: GLO168

Time Limits and Methods for Filing Comments.

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

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

Comment Requirements

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

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

Permit Denial or Condition

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

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

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

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

Office of Oil and Gas

FEB 24 2017

WV Department of
Environmental Protection 2017

WW-6A (8-13)

API NO. 47-49 OPERATOR WELL NO. GLO168H19 Well Pad Name: GLO168

Notice is hereby given by	by:	given	by	here	is	otice	N
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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 PO BOX 280 BRIDGEPORT, WV 26330

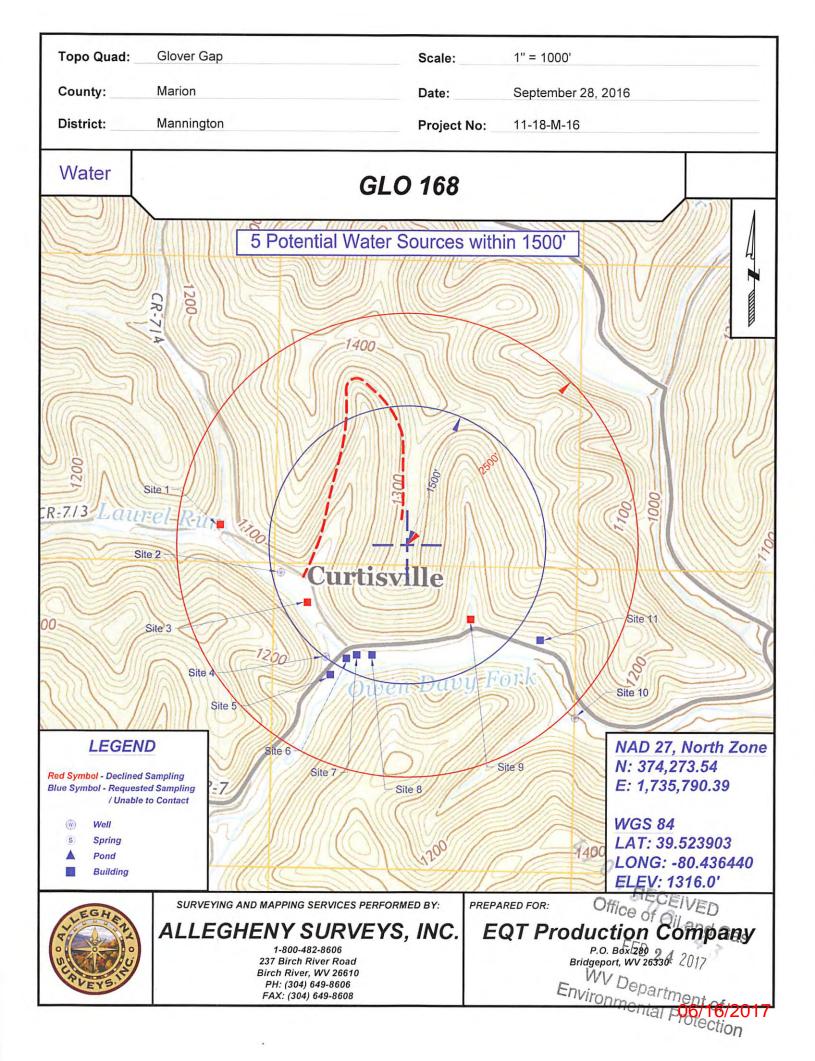
Subscribed and sworn before me this al day of Feb, mary 2017.

My Commission Expires

4-7-2020

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Office of Oil and Gas
FEB 24 2017
WV Department of
Environmental Protection 206/16/2017

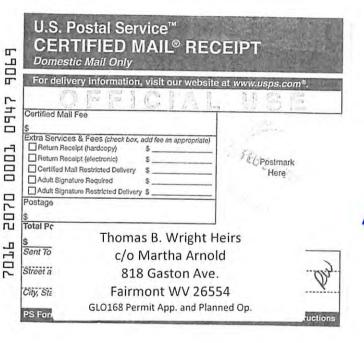


Surface Owners:

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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WV Department of
Environmental Projects/4017

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
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WV Department of
Environmental Protection 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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City, St.	Fairmont WV 26554	4
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470 4000

Office of Oil and Gas

FEB 2 4 2017

WV Department of Environmental Project 2017

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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

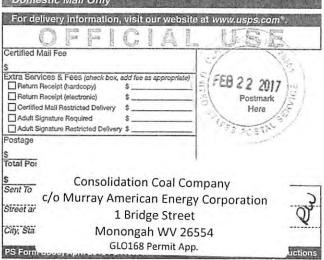
Consolidation Coal Company C/O Murray Energy Corporation Attn: Troy Freels 1 Bridge Street Monongah, WV 26554

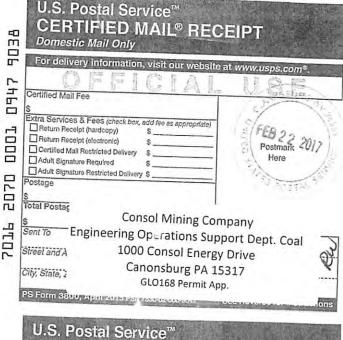
Legacy Minerals, LLC P.O. Box 23298 Pittsburgh, PA 15222-2006

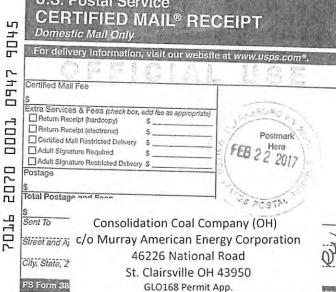
CBM ownership

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

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Environmental Posts 17

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

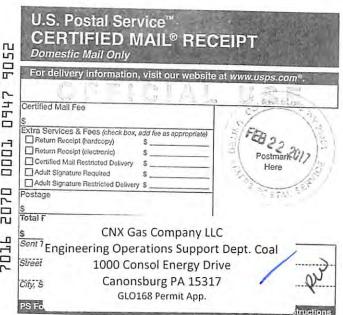
Legacy Minerals, LLC P.O. Box 23298 Pittsburgh, PA 15222-2006

CBM ownership

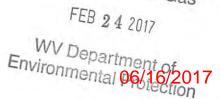
CNX Gas Company Engineering Operations Support Dept Coal **CNX** Center 1000 Consol Energy Drive Canonsburg, PA 15317-6506

U.S. Postal Service™ CERTIFIED MAIL® RECEIPT Domestic Mail Only For delivery information, visit our website at 1947 Certified Mail Fee Extra Services & Fees (check box, add fee as approp Return Receipt (hardcopy) 1000 Return Receipt (electronic) Certified Mail Restricted Delivery Adult Signature Required Adult Signature Restricted Delivery \$ 1702 Total F CNX Gas Company LLC 7016 Sent 7 Engineering Operations Support Dept. Coal Street 1000 Consol Energy Drive

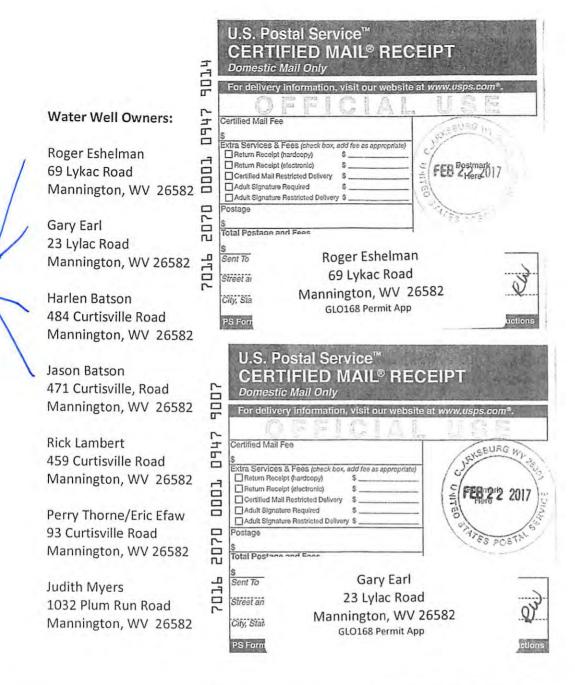
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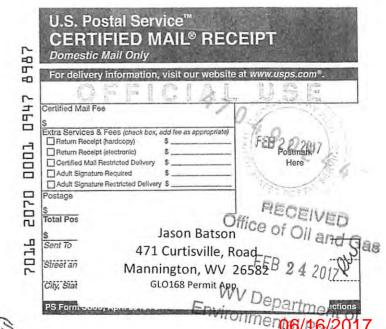




RECEIVED Office of Oil and Gas







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

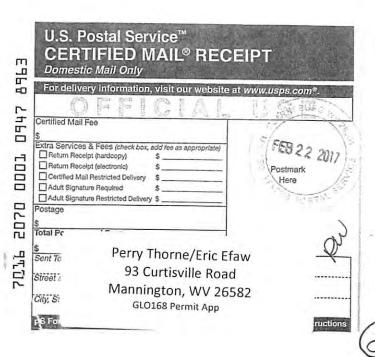
Rick Lambert 459 Curtisville Road Mannington, WV 26582

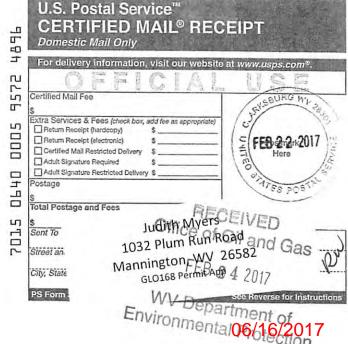
Perry Thorne/Eric Efaw 93 Curtisville Road Mannington, WV 26582

Judith Myers 1032 Plum Run Road Mannington, WV 26582



U.S. Postal Service"





Operator	Well No.	124799	
Cheigion	MAGILLAO!	124133	

Notice Time Re	quirement: Notice shall be provided at le	ast SEVEN (7) days but no more than FOI	RTY-FIVE (45) days prior to entry.
Date of Notice:	12/4/2015	Date of Planned Er	ntry: 12/11/2015
Delivery method	d pursuant to West Virginia Code § 22-	-6A-10(a):	
PERSONAL	L SERVICE X CERTIFIED MAIL	METHOD OF DELIVERY THAT REQU	JIRES A RECEIPT OR SIGNATURE CONFIRMATION
tract to conduct prior to such ent pursuant to sec records. The not and gas explora	any plat surveys required pursuant to this try to: (1) The surface owner of such traction thirty-six, article six, chapter twenty tice shall include a statement that copies tion and production may be obtained from	s article. Such notice shall be provided at lot; (2) to any owner or lessee of coal seam -two of this code; and (3) any owner 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 are beneath such tract that has filed a declaration minerals underlying such tract in the county tax of Manual and the statutes and rules related to oil ude contact information, including the address for etary.
Notice is hereb	by provided to:		
X SU	RFACE OWNER	COA	L OWNER OR LESSEE
	oseph Forte	/	
Name: (Jo	ohn H. Musgrave & Joseph V. Forte)	Name:	
Address: 11	1 Hutchinson Drive, Fairmont, WV 26554	Address:	
			ERAL OWNER(S)
Namo			
Name:		Tyanic.	
Address:		Address:	
Name:		Name:	
Address:		Address:	
			attach adultional forms if necessary
Pursuant to We the tract of land	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
	WV	Approx. Latitude & Longitude:	39.52384/-80.43652
_	Marion		CR 7/3 & 7 (Lylac & Curtisville Rds.)
	Mannington, Tax Map 49, Parcel 39	Watershed:	Laurel Run
Quadrangle:	Glover Gap	Generally Used Farm Name:	Musgrave
obtained from t (304-926-0450	the Secretary, at the WV Department of E	Environmental Protection headquarters, loc	o oil and gas exploration and production may be tated at 601 57th Street, SE, Charleston, WV 2530- 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:	A DOUBLE OF STREET	EQT Representative:	Jamie I. Barborn
Facsimile:	304-848-0040		Oil Oil and Gas
Email:	: EQTLandEntryNotice@eqt.com	Signature:	Jamie I. Barrence of Oil and Gas
Oil and Gas P	Privacy Notice:		144

The Office of Oil and Gas processes your personal information, such a name, address and telephone number, as part of regulatory duries. 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 strategy or regulatory personal information. If you have any questions about the regulatory personal information. information, please contact DEP's Chief Privacy Officer at depprivacyofficer@WV.gov.

WW-6A3 (1/12)

Operator Well No. 124799

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

Notice Time Requirement: Notice shall be provided at least	SEVEN (7) days but no more than FC	PRTY-FIVE (45) days prior to entry.
Date of Notice: 12/4/2015	Date of Planned E	Intry: 12/11/2015
Delivery method pursuant to West Virginia Code § 22-6A-	10(a):	
PERSONAL SERVICE X CERTIFIED MAIL	METHOD OF DELIVERY THAT REQ	UIRES A RECEIPT OR SIGNATURE CONFIRMATION
Pursuant to West Virginia Code § 22-6A-10(a), prior to filing a tract to conduct any plat surveys required pursuant to this art prior to such entry to: (1) The surface owner of such tract; (2 pursuant to section thirty-six, article six, chapter twenty-two records. The notice shall include a statement that copies of the and gas exploration and production may be obtained from the a web page on the Secretary's web site, to enable the surface	icle. Such notice shall be provided at 2) to any owner or lessee of coal seal of this code; and (3) any owner of he state Erosion and Sediment Contr e 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 flude contact information, including the address for
Notice is hereby provided to:		
X SURFACE OWNER Joseph Forte (John H. Musgrave, Joseph V. Forte & Matilda Name: Henry)	Name:	AL OWNER OR LESSEE
Address: 11 Hutchinson Drive, Fairmont, WV 26554	Address:	
		ERAL OWNER(S)
Name:	Name:	ENAL OWNER(3)
Address:	Address:	
Name:	Name:	
Address:	Address:	
Notice is hereby given:	'Floase a	artach additional forms if necessary
Pursuant to West Virginia Code § 22-6A-10(a), notice is herely the tract of land as follows:	by given that the undersigned well op-	erator is planning entry to conduct a plat survey on
State: WV	Approx. Latitude & Longitude:	39.52384/-80.43652
County: Marion	Public Road Access:	CR 7/3 & 7 (Lylac & Curtisville Rds.)
District: Mannington, Tax Map 49, Parcel 39.1	- Watershed:	Laurel Run
Quadrangle: Glover Gap	Generally Used Farm Name:	Musgrave
Copies of the state Erosion and Sediment Control Manual obtained from the Secretary, at the WV Department of Enviro (304-926-0450). Copies of such documents or additional in www.dep.wv.gov/oil-and-gas/pages/default.aspx .	and the statues and rules related to nmental Protection headquarters, loc-	o oil and gas exploration and production may be ated at 601 57th Street, SE, Charleston, WV 25304
Notice is hereby given by:		7.4.5
Well Operator: EQT Production Company	Address:	115 Professional Place, Bridgeport, WV 26330
Telephone: 304-848-0074	EQT Representative:	Jamie J. Bardou CEIVED
Facsimile: 304-848-0040	-51 1.141.000(1/01/01	Office of Oil and Gas
Email: EQTLandEntryNotice@eqt.com	Signature;	- Marin - 13
Oil and Gas Privacy Notice:		FEB 2 4 2017

The Office of Oil and Gas processes your personal information, such a name, address and telephone number, as bart of regulatory duties. Your personal information may be disclosed to other State agencies or third parties in the normal course of business or as needed to comply with statutory or regulatory tenterments, including Freedom of Information Act requests, Our office will appropriately secure your personal information. If you have any liquid property our USO of Complete the process of the p

money inno	requirement. Notice shall b	e provided at least SEVE	(7) days but no more man	FORTY-FIVE (45) days prior to entry.
Date of Notice	e: 12/4/2015		Date of Planne	d Entry: 12/11/2015
Delivery meth	nod pursuant to West Virgi	nia Code § 22-6A-10(a):		
PERSON	IAL SERVICE X CERT	TIFIED MAIL ME	THOD OF DELIVERY THAT RI	EQUIRES A RECEIPT OR SIGNATURE CONFIRMATION
tract to conduct prior to such a pursuant to se records. The reand gas explo	of any plat surveys required entry to: (1) The surface own ection thirty-six, article six, notice shall include a statem ration and production may b	pursuant to this article. S ner of such tract; (2) to a chapter twenty-two of th ent that copies of the sta se obtained from the Secr	uch notice shall be provided ny owner or lessee of coal s is code; and (3) any owner te Erosion and Sediment Co	shall provide notice of planned entry on to the surface at least seven days but no more than forty-five days seams beneath such tract that has filed a declaration of minerals underlying such tract in the county tax entrol Manual and the statutes and rules related to oil include contact information, including the address for secretary.
Notice is here	eby provided to:			
XS	URFACE	/		COAL OWNER OR LESSEE
	Thomas B. Wright			
Name: 0	c/o Martha Arnold		Name:	
Address: 8	308 Gaston Ave., Fairmont,	WV 26554	Address:	
-				MINERAL OWNER(S)
Name:			Name:	MINERAL OWNER(3)
Ivallie,			Name.	
Address:			Address:	
Name:			Name:	
Address:			Address:	
) alka			use attach jadilional forms if necessary
Notice is here Pursuant to W the tract of lan	est Virginia Code § 22-6A-1	0(a), notice is hereby give	en that the undersigned well	operator is planning entry to conduct a plat survey on
State:	WV		Approx. Latitude & Longitud	e: 39.52384/-80.43652
County.	Marion		Public Road Acces	ss: CR 7/3 (Lylac Road)
District:	Mannington/Tax Map 49 P	arcel 38	Watershe	d: Laurel Run
Quadrangle:	Glover Gap		Generally Used Farm Nam	e: Wright
obtained from (304-926-045)	the Secretary, at the WV De	epartment of Environmen nts or additional informa	al Protection headquarters,	d to oil and gas exploration and production may be located at 601 57th Street, SE, Charleston, WV 25304 lling may be obtained from the Secretary by visiting
Notice is here	eby given by:			40
Well Operator	: EQT Production Compa	ny	Address	s: 115 Professional Place, Bridgeport, WV 26330
Telephone	304-848-0074		EQT Representative	
Facsimile	304-848-0040		(
Email	: EQTLandEntryNotice@e	eqt.com	Signature	
The Office of information ma requirements, in	y be disclosed to other State	agencies or third parties on Act requests. Our office w	in the normal course of busin ill appropriately secure your per	none number, as part of regulatory duties. Your personal ress or as needed to comply with statutory or regulatory resonal information. If you have any questions about our use WV Department of Environmental Pro06/116/2017

Notice Time F	Requirement:	Notice shall be provided at	least SE	VEN (7) days but no more th	an F	DRTY-FIVE (45) days prior to entry.
Date of Notice	e: 12/4/201	5		Date of Plan	ned E	Entry: 12/11/2015
Delivery meth	od pursuant f	to West Virginia Code § 2	2-6A-10(a):		
PERSON	IAL SERVICE	x CERTIFIED MAIL	F	METHOD OF DELIVERY THAT	REQ	UIRES A RECEIPT OR SIGNATURE CONFIRMATION
prior to such e pursuant to se records. The r and gas explo	ot any plat surventry to: (1) The ection thirty-six notice shall included and proceeds.	reys required pursuant to to e surface owner of such tr s, article six, chapter twen lude a statement that copie duction may be obtained fro	nis article act; (2) to ty-two of es of the s om the Se	 Such notice shall be provided any owner or lessee of coath this code; and (3) any own state Erosion and Sediment 	ded at al sea ner of Contr all inc	Il provide notice of planned entry on to the surface least seven days but no more than forty-five days ms beneath such tract that has filed a declaration minerals underlying such tract in the county tax of Manual and the statutes and rules related to oil clude contact information, including the address for retary.
Notice is here	eby provided t	o:				
S	URFACE OWN	NER		X	co	AL OWNER OR LESSEE
Name:		****		Name:		solidation Coal Co.
					Eng	ineering and Operations Support Coal Dept.
Address:				Address:	CN)	Center, 1000 Consol Energy Drive
/ luui 055.				_ Address.	1	onsburg, PA 15317-6506
					MIN	IERAL OWNER(S)
Name:				Name:	_	
Address:				Address:		
Name:				Name:		
Address:				Address:		
Notice is how	W. 41			-	*Please	attach additional forms if necessary
Notice is here Pursuant to W the tract of lan	est Virginia Co	de § 22-6A-10(a), notice is	hereby g	given that the undersigned w	ell op	erator is planning entry to conduct a plat survey on
State:	WV			Approx. Latitude & Longi	tude:	39.52384/-80.43652
County;	Marion			Public Road Acc		
District:	Mannington,	Tax Map 49, Parcels 39 &	39.1	Waters	shed:	
Quadrangle:	Glover Gap			Generally Used Farm N	ame:	Musgrave
obtained from (304-926-045)	the Secretary, 0). Copies of s	at the WV Department of I	Environm	ental Protection headquarter	s, loc	o oil and gas exploration and production may be ated at 601 57th Street, SE, Charleston, WV 25304 g may be obtained from the Secretary by visiting
Notice is here	eby given by:					
Well Operator	: EQT Produ	iction Company		Addr	ess:	115 Professional Place, Bridgeport, WV 26330
Telephone				EQT Representa	er er er e	Jamie I. Barbour
Facsimile	: 304-848-00	040		and the second second second second		RECEIVED
Email	: EQTLandE	intryNotice@eqt.com		Signat	ure:	Office of Oil and Gra
Oil and Gas F	Privacy Notice	:				- uds

The Office of Oil and Gas processes your personal information, such a name, address and telephone number, as part of regulatory duties? You20et and 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 information about purpose or your personal information, please contact DEP's Chief Privacy Officer at depprivacyofficer@WV.gov.

Environmental Protection

Notice Time F	Requirement: Notice shall be provided at least	SEVEN (7) days but no more than F	FORTY-FIVE (45) days prior to entry.
Date of Notice	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 RE	QUIRES A RECEIPT OR SIGNATURE CONFIRMATION
prior to such e pursuant to se records. The r and gas explo	of any plat surveys required pursuant to this arti- 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 shicle. Such notice shall be provided a) to any owner or lessee of coal se of this code; and (3) any owner one state Erosion and Sediment Cone Secretary, which statement shall in	all provide notice of planned entry on to the surface at least seven days but no more than forty-five days sams beneath such tract that has filed a declaration of minerals underlying such tract in the county tax strol Manual and the statutes and rules related to oil include contact information, including the address for
Notice is here	eby provided to:		
S	URFACE OWNER	X co	DAL OWNER OR LESSEE
Name:		Mu	urray American Energy, Inc. ttn.: Troy Freels
Address:			Bridge Street onongah, WV 26554
			NERAL OWNER(S)
Name:		Name:	HEIRE OWNER(S)
Address:		Address;	
Name:		Name:	
Address:		Address:	
Notice is here Pursuant to W the tract of lan	est Virginia Code § 22-6A-10(a), notice is hereb		e attach additional forms if necessary perator is planning entry to conduct a plat survey on
State:	WV	Approx. Latitude & Longitude	39.52384/-80.43652
County:	Marion	Public Road Access	
District:	Mannington, Tax Map 49, Parcels 39 & 39.1	Watershed	
Quadrangle:	Glover Gap	Generally Used Farm Name	: Musgrave
(304-926-045)	the Secretary, at the WV Department of Environ	nmental Protection headquarters, lo	to oil and gas exploration and production may be cated at 601 57th Street, SE, Charleston, WV 25304 ng may be obtained from the Secretary by visiting
Notice is here			REGEIVED
	: EQT Production Company	Address:	115 Profession Place Bridgeport (NAX 26330
Telephone	The second secon	EQT Representative:	Jamie I. Barbour
	: 304-848-0040		- FEB 2 4 2017
Email		Signature:	Ittou Jaco
Oil and Gas F	Privacy 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 with statutory or regulatory requirements, including Freedom of Information Act requests. Our office will appropriately secure your personal information. If you have any questions about our use of your personal information, please contact DEP's Chief Privacy Officer at depprivacyofficer@WV.gov.

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.

Delivery me	thod pursuant to West Virginia Code	e § 22-6A-16(b)	
HAND DELIVE	☐ CERTIFIED MAIL ERY RETURN RECEIPT I	REQUESTED	
receipt reque drilling a hor of this subsec subsection m	sted or hand delivery, give the surface rizontal well: <i>Provided</i> , That notice give tion as of the date the notice was provided by the surface as be waived in writing by the surface	owner notice of its intent to enter upon to wen pursuant to subsection (a), section to ided to the surface owner: <i>Provided</i> , how	, an operator shall, by certified mail return he surface owner's land for the purpose of en of this article satisfies the requirements wever, That the notice requirements of this lude the name, address, telephone number, or's authorized representative.
	reby provided to the SURFACE		
Name: see atta Address:	cried	Address:	
the surface of	wner's land for the purpose of drilling a	a horizontal well on the tract of land as for	well operator has an intent to enter upon bllows:
County: District: Quadrangle: Watershed: This Notice Pursuant to facsimile nurelated to ho	mber and electronic mail address of t rizontal drilling may be obtained from	his notice shall include the name, add the operator and the operator's authorize the Secretary, at the WV Department of	tess, telephone number, and if available, ed representative. Additional information of Environmental Protection headquarters, ep.wv.gov/oil-and-gas/pages/default.aspx.
Pursuant to facsimile nur related to ho located at 60	Marion Mannington Glover Gap Laurel Run Shall Include: West Virginia Code § 22-6A-16(b), to the shall address of to the shall drilling may be obtained from 1 57th Street, SE, Charleston, WV 2530	Public Road Access: Generally used farm name: his notice shall include the name, add the operator and the operator's authorize the Secretary, at the WV Department of	4,375,059.48 Co Rt. 7/4 Equitrans LP. ress, telephone number, and if available, ed representative. Additional information
County: District: Quadrangle: Watershed: This Notice Pursuant to facsimile nur related to ho located at 60	Marion Mannington Glover Gap Laurel Run Shall Include: West Virginia Code § 22-6A-16(b), to the standard of the standard o	Public Road Access: Generally used farm name: his notice shall include the name, addine operator and the operator's authorize the Secretary, at the WV Department of the Secretary of of the Secreta	4,375,059.48 Co Rt. 7/4 Equitrans LP. ress, telephone number, and if available, ed representative. Additional information of Environmental Protection headquarters, ep.wv.gov/oil-and-gas/pages/default.aspx.
County: District: Quadrangle: Watershed: This Notice Pursuant to facsimile nur related to ho located at 60	Marion Mannington Glover Gap Laurel Run Shall Include: West Virginia Code § 22-6A-16(b), to the shall address of to the shall drilling may be obtained from 1 57th Street, SE, Charleston, WV 2530	Public Road Access: Generally used farm name: his notice shall include the name, add he operator and the operator's authorize the Secretary, at the WV Department of the Secretary, at the WV Department of the Secretary, at the WV Department of Authorized Representative: Authorized Representative: Address:	4,375,059.48 Co Rt. 7/4 Equitrans LP. ress, telephone number, and if available, ed representative. Additional information of Environmental Protection headquarters, ep.wv.gov/oil-and-gas/pages/default.aspx. Victoria J. Roark 115 Professional Place
County: District: Quadrangle: Watershed: This Notice Pursuant to facsimile nur related to ho located at 60 Notice is he Well Operato	Marion Mannington Glover Gap Laurel Run Shall Include: West Virginia Code § 22-6A-16(b), to the standard electronic mail address of to trizontal drilling may be obtained from 1 57th Street, SE, Charleston, WV 2530 (creby given by: Deriver Eqt Production Company 115 Professional Place	Public Road Access: Generally used farm name: his notice shall include the name, add he operator and the operator's authorize the Secretary, at the WV Department of the Secretary at the Secret	4,375,059.48 Co Rt. 7/4 Equitrans LP. ress, telephone number, and if available, ed representative. Additional information of Environmental Protection headquarters, ep.wv.gov/oil-and-gas/pages/default.aspx. Victoria J. Roark 115 Professional Place
County: District: Quadrangle: Watershed: This Notice Pursuant to facsimile nur related to ho located at 60 Notice is he Well Operato Address: Bridgeport, WV Telephone:	Marion Mannington Glover Gap Laurel Run Shall Include: West Virginia Code § 22-6A-16(b), to the standard electronic mail address of to trizontal drilling may be obtained from 1 57th Street, SE, Charleston, WV 2530 (creby given by: Deriver Eqt Production Company 115 Professional Place	Public Road Access: Generally used farm name: his notice shall include the name, add he operator and the operator's authorize the Secretary, at the WV Department of (304-926-0450) or by visiting www.definity. Authorized Representative: Address:	4,375,059.48 Co Rt. 7/4 Equitrans LP. ress, telephone number, and if available, ed representative. Additional information of Environmental Protection headquarters, ep.wv.gov/oil-and-gas/pages/default.aspx. Victoria J. Roark 115 Professional Place
County: District: Quadrangle: Watershed: This Notice Pursuant to facsimile nur related to ho located at 60 Notice is he Well Operato Address: Bridgeport, WW	Marion Mannington Glover Gap Laurel Run Shall Include: West Virginia Code § 22-6A-16(b), to the standard electronic mail address of the trizontal drilling may be obtained from 1 57th Street, SE, Charleston, WV 2530 ereby given by: Dr: EQT Production Company 115 Professional Place 26330	Public Road Access: Generally used farm name: his notice shall include the name, addithe operator and the operator's authorize the Secretary, at the WV Department of the Secretary, at the WV Department of the Secretary, at the WV Department of Authorized Representative: Authorized Representative: Address: Bridgrport, WV 26330	4,375,059.48 Co Rt. 7/4 Equitrans LP. ress, telephone number, and if available, ed representative. Additional information of Environmental Protection headquarters, ep.wv.gov/oil-and-gas/pages/default.aspx. Victoria J. Roark 115 Professional Place

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 Fequests. 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.

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.

ier Waiver:	, hereby state that I have	read the notice or	avisions listed	I show and baraby waive the
ments under W	est Virginia Code § 22-6A	-16(b) for the trace	of land as fo	llows:
w		LITE CALL TO BE	Easting:	548422.79
Madon		UIMINAD 83	_	4375059.48
Mannington		Public Road Acc		C/O Rt 7/4
Glover Gap		Generally used to	farm name:	Equitrans LP
Laurel Run		•		West of the second seco
on I D			Kale	4 Hace
	^	Signature:	- 0	
222	U	Date:	2/21	117 gt
	WV Marion Mannington Glover Gap Laurel Run ns LP Liberty Ave Suite 170	, hereby state that I have rements under West Virginia Code § 22-6A WV Marton Mannington Glover Gap Laurel Run ns LP Uberty Ave Suite 1700	, hereby state that I have read the notice programents under West Virginia Code § 22-6A-16(b) for the tract WV Marton Mannington Glover Gap Laurel Run Description: Signature: Liberty Ave Suite 1700 Problem Accidented Signature:	, hereby state that I have read the notice provisions listed aments under West Virginia Code § 22-6A-16(b) for the tract of land as for the

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.

4704902445

RECEIVED
Office of Oil and Gas

FEB 24 2017

WV Department 16/2017
Environmental Protection

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

Date of Noti			
Delivery me	hod pursuant to West Virginia Code § 2	22-6A-16(c)	
CERTI	FIED MAIL	HAND	
RETUI	RN RECEIPT REQUESTED	DELIVERY	
return receipt the planned of required to be drilling of a damages to th (d) The notice of notice.	requested or hand delivery, give the surface peration. The notice required by this subspection (b), section ten or horizontal well; and (3) A proposed surface surface affected by oil and gas operationes required by this section shall be given to	ce owner whose land will be used absection shall include: (1) A confirmation of this article to a surface owner whose use and compensation agreements to the extent the damages are confirmation to the surface owner at the address	plication, an operator shall, by certified mail for the drilling of a horizontal well notice of by of this code section; (2) The information nose land will be used in conjunction with the nent containing an offer of compensation for impensable under article six-b of this chapter. listed in the records of the sheriff at the time
	eby provided to the SURFACE OWNED s listed in the records of the sheriff at the t		
	a nated in the records of the sherrif at the t	mic of notice).	
Name: See Atta		Name:	
Name: See Atta Address: Notice is her Pursuant to W	eby given: /est Virginia Code § 22-6A-16(c), notice i	Name: Address: s hereby given that the undersigne	d well operator has developed a planned
Name: See Alta Address: Notice is her Pursuant to W operation on State: County:	eby given:	Name: Address: s hereby given that the undersigne	tract of land as follows: 548422.79
Name: See Alta Address: Notice is her Pursuant to W operation on State: County: District:	eby given: /est Virginia Code § 22-6A-16(c), notice i the surface owner's land for the purpose o wv Marion Mannington	Name: Address: S hereby given that the undersigned f drilling a horizontal well on the Easting: UTM NAD 83 Northing Public Road Access:	tract of land as follows: 548422.79 4375059.48 C/O Rt 7/4
Name: See Alta Address: Notice is her Pursuant to Woperation on State: County: District: Quadrangle:	eby given: /est Virginia Code § 22-6A-16(c), notice i the surface owner's land for the purpose o wv Marion Mannington Glover Gap	Name: Address: s hereby given that the undersigner of drilling a horizontal well on the UTM NAD 83 Casting: Northing	tract of land as follows: 548422.79 4375059.48 C/O Rt 7/4
Name: See Atta Address: Notice is her Pursuant to Woperation on State: County: District: Quadrangle: Watershed:	eby given: /est Virginia Code § 22-6A-16(c), notice if the surface owner's land for the purpose of the surface owner's land for the sur	Name: Address: S hereby given that the undersigned f drilling a horizontal well on the Easting: UTM NAD 83 Northing Public Road Access:	tract of land as follows: 548422.79 4375059.48 C/O Rt 7/4
Name: See Alta Address: Notice is her Pursuant to W operation on State: County: District: Quadrangle: Watershed: This Notice S Pursuant to W to be provide horizontal we surface affect information r	eby given: Vest Virginia Code § 22-6A-16(c), notice is the surface owner's land for the purpose of the purpose of the surface owner's land (a) Mannington Glover Gap Laurel Run Shall Include: Vest Virginia Code § 22-6A-16(c), this not do by W. Va. Code § 22-6A-10(b) to a standard owner and code of the surface use and code of the surface owner and code of the surface owner's land for the purpose owner	Name: Address: Shereby given that the undersigner of drilling a horizontal well on the Easting: Northing Public Road Access: Generally used farm name dice shall include: (1)A copy of the urface owner whose land will be impensation agreement containing the damages are compensable until the damages are compensab	tract of land as follows: 548422.79 4375059.48 C/O Rt 7/4
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The Office of Oil and Gas processes your personal information, such as name, address and telephone number, as part of our regulatory duties. Your personal information may be disclosed to other State agencies or third parties in the normal course of business or as needed to comply with statutory or regulatory requirements, including Freedom of Information Act requests. Our office will appropriately secure your personal information. If you have any questions about our use or your personal information, please contact DEP's Chief Privacy Officer at depprivacyofficer@wv.gov.

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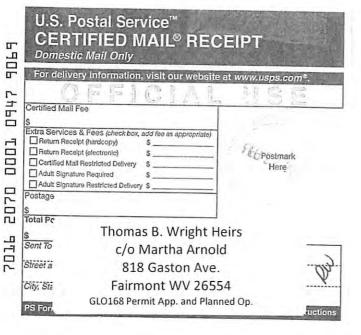


Surface Owners:

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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WV Department of Environmental 06/16/2017

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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WV Department of Environmental Protection 06/16/2017 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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1		c/o Joseph Forte
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	City, St.	Fairmont WV 26554
I		GLO168 Permit App and Planned Op.
- 1	PS For	

4704902443

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FEB 2 4 2017

WV Department of Environmental P06#16/2017

API NO. 47-49 -	
OPERATOR WELL NO.	GL0168H19
Well Pad Name: GL0168	

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

WW-6A and required, and State: County: District: Quadrangle: Watershed:	, hereby state that I have read ted above, and that I have received copies of a attachments consisting of pages one (I) throuthe well plat, all for proposed well work on the two Marrion Marrington Glover Gap Lauret Run that I have no objection to the planned work design materials.	Notice of Applicated by tract of land as for UTM NAD 83 Public Road Ac Generally used	ation, an App , including the state of the s	olication for a Well Work Permit on Form the erosion and sediment control plan, if 548422.70 4375059 48 C/O Rt 7/4 Equations LP
*Please check	the box that applies	FO	R EXECUT	ION BY A NATURAL PERSON
■ SURFAC	CE OWNER	Sign	nature:	
■ SURFACE OWNER (Road and/or Other Disturbance		(a)	n Name:	
■ SURFACE OWNER (Impoundments/Pits)			e:	/ A
☐ COAL OWNER OR LESSEE			R EXECUT	ION BY A CORPORATION, ETC.
☐ COAL OPERATOR			Raiph Deer VP Land	
□ WATER	PURVEYOR	Sin	nature:	uhly Olan
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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.



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

GLO168H2	GLO168H3	GLO168H4
GLO168H6		
		GLO168H8
		GLO168H12
	GLO168H15	GLO168H16
GLO168H18	GLO168H10 44-0	2443 GLO168H20
GLO168H22	CL O1 (OH22	
0201001122	GLO168H23	GLO168H24
	GLO168H2 GLO168H6 GLO168H10 GLO168H14 GLO168H18 GLO168H22	GLO168H6 GLO168H7 GLO168H10 GLO168H11 GLO168H14 GLO168H15 GLO168H18 GLO168H19 44-0

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 Coordinator

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FEB 2 4 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 Friction Reducer Biocide Scale Inhibitor 15% Hydrochloric Acid Corrosion Inhibitor Corrosion Inhibitor Gelling Agent Oxidizing Breaker	Hydrotreated light petroleum distillate Tributyl tetradecyl phosphonium chloride Ammonium chloride Hydrochloric Acid Propargyl Alcohol Methanol Guar Gum Sodium Persulfate Potassium Carbonate	14808-60-7 64742-47-8 81741-28-8 12125-02-9 7647-01-0 107-19-7 67-56-1 9000-30-0 7775-27-1
Buffering Agent		584-08-7

57049024A.

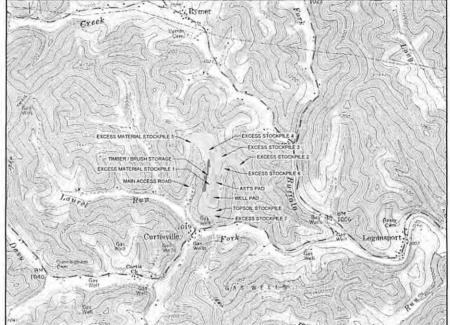
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Office of Oil and Gas

FEB **24** 2017

WV Department of Environmental Protection 17

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 HB - LAT: 39 523987 / LONG -80.436482 GLO 168 H9 - LAT: 39.524028 / LONG. -80.436472 GLO 168 H10 - LAT: 39.524068 / LONG. -80.436461 GLO 168 H11 - LAT: 39.524108 / LONG: -80.436451 GLO 168 H12 - LAT: 39.524149 / LONG. -80.436441 GLO 168 H13 - LAT: 39.524189 / LONG. -80.436430 GLO 168 H14 - LAT: 39.524230 / LONG. -80.436420 GLO 168 H15 - LAT: 39.524270 / LONG. -80.436409 GLO 168 H16 - LAT: 39.523698 / LONG. -80.436648 GLO 168 H17 - LAT: 39.523738 / LONG. -80.436637 GLO 168 H18 - LAT: 39.523779 / LONG. -80.436627 GLO 168 H19 - LAT: 39.523819 / LONG -80.436616 GLO 168 H20 - LAT: 39.523859 / LONG -80.436606 GLO 168 H21 - LAT: 39.523900 / LONG: -80.436595 GLO 168 H22 - LAT: 39.523940 / LONG. -80.523585 GLO 168 H23 - LAT: 39.523981 / LONG. -80.436574 GLO 168 H24 - LAT: 39.524021 / LONG. -80.436564 GLO 168 H25 - LAT: 39.524061 / LONG. -80.436554 GLO 168 H26 - LAT: 39.524102 / LONG. -80.436543 GLO 168 H27 - LAT: 39.524142 / LONG. -80.436533 GLO 168 H28 - LAT: 39.524182 / LONG. -80.436522 GLO 168 H29 - LAT: 39.524223 / LONG. -80.436512

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

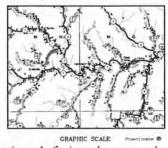


SITE LOCATIONS WGS M (NY MORTH ZONE)		
	LATITUDE	LONGITUDI
Proposed steel Pad	39 523903	-80,436440
Proposed 40,000 BEL AST	39.525860	-50.436113
Proposed 60 000 BBL AST	30 524954	- 280 435160
Toponed Access Fload Sta 0+00	79.522937	-80.440416

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!!

GLO 168 H30 - LAT: 39 524263 / LONG. -80.436501





1 DOH - 1 MIZ

WELL LOCATION RESTRICTIONS

1000' of surface or ground water intake to a public water supply

The drawings, construction notes, and reference diagrams attached fance with the West Vin Code of State Rules, Division of Environmental Protection, Office of

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

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



JOSEPH V FORTE TAYMAP 49 - PARCEL 39 39 96 ACRES SUTE DISTURBANCE

TOPSOIL STOCKPILE - 2 64 ACRES

THREE STATUTE - 7 STATES

MAIN ACCESS ROAD = 8 27 ACRES
ASTO PAD = 121 ACRES
TIMBER / BRUSH STORAGE = 1 83 ACRES
TOPSOE STOOPRIE = 1 36 ACRES
EXCESS MATERIAL STOOPRIE = 5 64 ACRES AFIL PAD + 2 OR ACRES

TIMMER REMOVAL = 18 12 ACRES

THOMAS WRIGHT
TAX MAP 4) - PARCEL 38
81 25 ACRES
SUTE DISTURBANCE

TIMBER REMOVAL = 21 23 ACRES

ASTR PAD + 3 47 ACRES EXCESS MATERIAL STOCKPLES & IT IS ACRES WELL PAD + 1 IS ACRES

MAREN REMOVAL = 14.64 ACRES





1/2/ 5+24/2017



P.O. F

237 Sirch

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

Surveyor & Engineer

Ben Singleton - PS - Allegheny Surveys Inc. 104-649-8606 Office

Tom Corathers - PE, PS - Hornor Brothers Eng 304-624-6445 Office

Engineers

FLOODPLAIN CONDITIONS

DO SITE CONSTRUCTON ACTIVITIES TAKE PLACE IN FLOODPLAIN.		NO	
PERMIT NEEDED FROM COUNTY FU	CODPLAIN COORDINATOR	NO	
HEC-RAS STUDY COMPLETED:		N/A	
FLOODPLAIN SHOWN ON DRAWINGS:		NA	
	E IN LOCACIONED & EXPLORATION		

ACREAGES OF CONSTRUCTION IN FLOODPLAIN.

SHEET INDEX

COVER SHEET / LOCATION MAP1
EXISTING CONDITIONS PLAN2
SCHEDULE OF QUANTITIES3
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AST PAD PROFILE & CROSS SECTIONS15-16
MAIN ACCESS ROAD PROFILE & CROSS SECTIONS 17-23
EXCESS MATERIAL STOCKPILES PROFILES & SECTIONS - 24-38.
TOPSON STOCKPILE PROFILE & CROSS SECTIONS 39-40
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RECLAMATION PLANS 44-49
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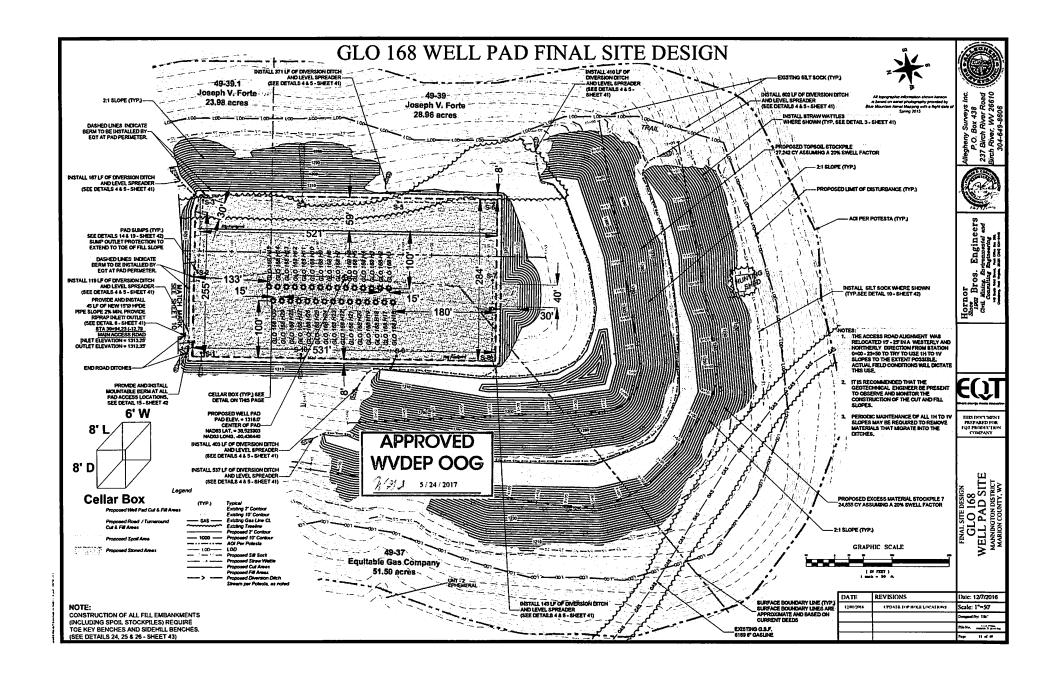
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COMPANY

COVER LOCATION SHEET GLO 168 WELL PAD SITE





WELL LEGEND GLO 168 H1 - LAT 39 523705 / LONG -80 436558

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 523967 / LONG -80 436482

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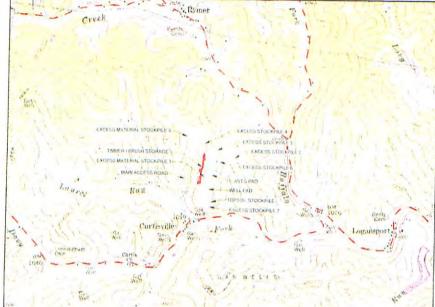
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GLO 168 H18 - LAT 39 523779 / LONG -80 436627 GLO 168 H19 - LAT 39 523819 / LONG -80 436616 GLO 168 H20 - LAT 39 523859 / LONG -80 436606 GLO 168 H21 - LAT 39 523900 / LONG -80.436595 GLO 168 H22 - LAT 39 523940 / LONG -80 523585 GLO 168 H23 - LAT 39 523981 / LONG -80 436574 GLO 168 H24 - LAT 39 524021 / LONG -80 436564 GLO 168 H25 - LAT 39 524061 / LONG -80 436554 GLO 168 H26 - LAT 39 524102 / LONG -80 436543 GLO 168 H27 - LAT 39 524142 / LONG -80 436533

GLO 168 H28 - LAT 39 524182 / LONG -80 436522

GLO 168 H29 - LAT 39 524223 / LONG -80 436512 GLO 168 H30 - LAT 39 524263 / LONG -80 436501

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



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MISS Utility of West Virginia 1-800-245-4848 West Virginia State Law (Section XIV: Chapter 24-C) Requires that you call two business days before you dig in the state of West Virginia. IT'S THE LAW!!





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the drawings, conclusion notes and reference diagrams attached briefly fare been prepared in accordance with the West Virginia conclusion which forms the reventments Finles has Office of and display [2]. The information reflects a 45 000 Mbs. Above Ground Se

(AST) Fad with recordary containment and a so not life. Above immed Storage Law Pair Holmer Brothers I represent make no control on reasoning to the things consistent on a material action and the Atrine comment of the last ALCS.

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GLO 168 WELL PAD SITE

SHEET INDEX

FLOODPLAIN CONDITIONS

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	CONSTRUCTION MAP ENSTRUCTION OF THE STRUCTURE FLORE CONSTRUCTION OF THE STRUCTURE FLORE CONSTRUCTION OF THE STRUCTURE CONSTRUCTION OF THE STRUCTURE CONSTRUCTION OF THE STRUCTURE CONSTRUCTION OF THE STRUCTURE AND PROPERTY AND AND PROPERTY OF THE STRUCTURE CONSTRUCTION OF THE STRUCTURE CONSTRUCTURE OF THE STRUCTURE CONSTRUCTION OF THE S	4 5 6-11 12-14 15-16 17-21 24-18 79-40	
	EXCESS MATERIAL STOCKPILES PROFILES & SECTIONS TOPSOIL STOCKPILE PROFILE & CROSS SECTIONS CONSTRUCTION OF TAILS RECLAMATION PLAYS	24-28	

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Know what's below.

