



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 168H21
47-049-02445-00-00

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 168H21
Farm Name: EQUITRANS LP
U.S. WELL NUMBER: 47-049-02445-00-00
Horizontal 6A / New Drill
Date Issued: 6/13/2017

Promoting a healthy environment.

06/16/2017

PERMIT CONDITIONS

17 0 4 9 0 2 4 4 5

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.

PERMIT CONDITIONS 704902445

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.

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

1) Well Operator: EQT Production Company 306686 Marion Manning Glover Gap
Operator ID County District Quadrangle

2) Operator's Well Number: GLO168H21 Well Pad Name: GLO168

3) Farm Name/Surface Owner: Equitrans LP Public Road Access: C/O Rt 7/4

4) Elevation, current ground: 1357 Elevation, proposed post-construction: 1316

5) Well Type (a) Gas Oil Underground Storage
Other

(b) If Gas Shallow Deep
Horizontal

*SOW
3/2/2017*

6) Existing Pad: Yes or No No

7) Proposed Target Formation(s), Depth(s), Anticipated Thickness and Expected Pressure(s):
Marcellus, 7722, 53', 2593 PSI

8) Proposed Total Vertical Depth: 7722

9) Formation at Total Vertical Depth: Marcellus

10) Proposed Total Measured Depth: 21918

11) Proposed Horizontal Leg Length: 10521

12) Approximate Fresh Water Strata Depths: 369

13) Method to Determine Fresh Water Depths: By offset wells

14) Approximate Saltwater Depths: 1850

15) Approximate Coal Seam Depths: 513, 667, 935, 1032

16) Approximate Depth to Possible Void (coal mine, karst, other): none

17) Does Proposed well location contain coal seams directly overlying or adjacent to an active mine? Yes No

(a) If Yes, provide Mine Info: Name: Harrison County Mine
Depth: 1032'
Seam: Pittsburgh
Owner: Murray Energy Corporation

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WW-6B
(04/15)

API NO. 47- 049 - 02445
 OPERATOR WELL NO. GLO168H21
 Well Pad Name: GLO168

18)

CASING AND TUBING PROGRAM 704902445

TYPE	Size (in)	New or Used	Grade	Weight per ft. (lb/ft)	FOOTAGE: For Drilling (ft)	INTERVALS: Left in Well (ft)	CEMENT: Fill-up (Cu. Ft./CTS)
Conductor	20	New	A-500	78.6	40	40	60 R ³ / CTS
Fresh Water	13 3/8	New	J-55	54.5	449	449	417 R ³ / CTS
Coal							
Intermediate	9 5/8	New	A-500	40	3090	3090	1225 R ³ / CTS
Production	5 1/2	New	P-110	20	21918	21918	500' above top producing zone
Tubing	2 3/8		J-55	4.7		May not be run, if run set 40' above top perfor 50' interval	
Liners							

SDW
6/19/2017

TYPE	Size (in)	Wellbore Diameter (in)	Wall Thickness (in)	Burst Pressure (psi)	Anticipated Max. Internal Pressure (psi)	Cement Type	Cement Yield (cu. ft./k)
Conductor	20	26	.375	1378	1102	Class A	1.18
Fresh Water	13 3/8	17 1/2	.38	2700	2160	See Variance	1.19
Coal							
Intermediate	9 5/8	12 3/8	.395	3950	3160	Class A	1.07
Production	5 1/2	8 1/2	.361	12640	10112	Class AH	1.123/2.098
Tubing	2 3/8	NA	.19	7700			
Liners							

PACKERS

Kind:				
Sizes:				
Depths Set:				

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 5527'. Kick off and drill curve. Drill the lateral in the Marcellus. Cement casing.

47043017

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 slurries, .25% Flake Loss Circulation Material (LCM) is used to combat the loss of the cement slurry 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 slurries. 0.25% flake. Loss Circulation Material (LCM) is used to combat the loss of whole drilling fluid or cement slurry (not filtrate) to a thief zone.
 Production:
 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 % Calcium 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 hole 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.

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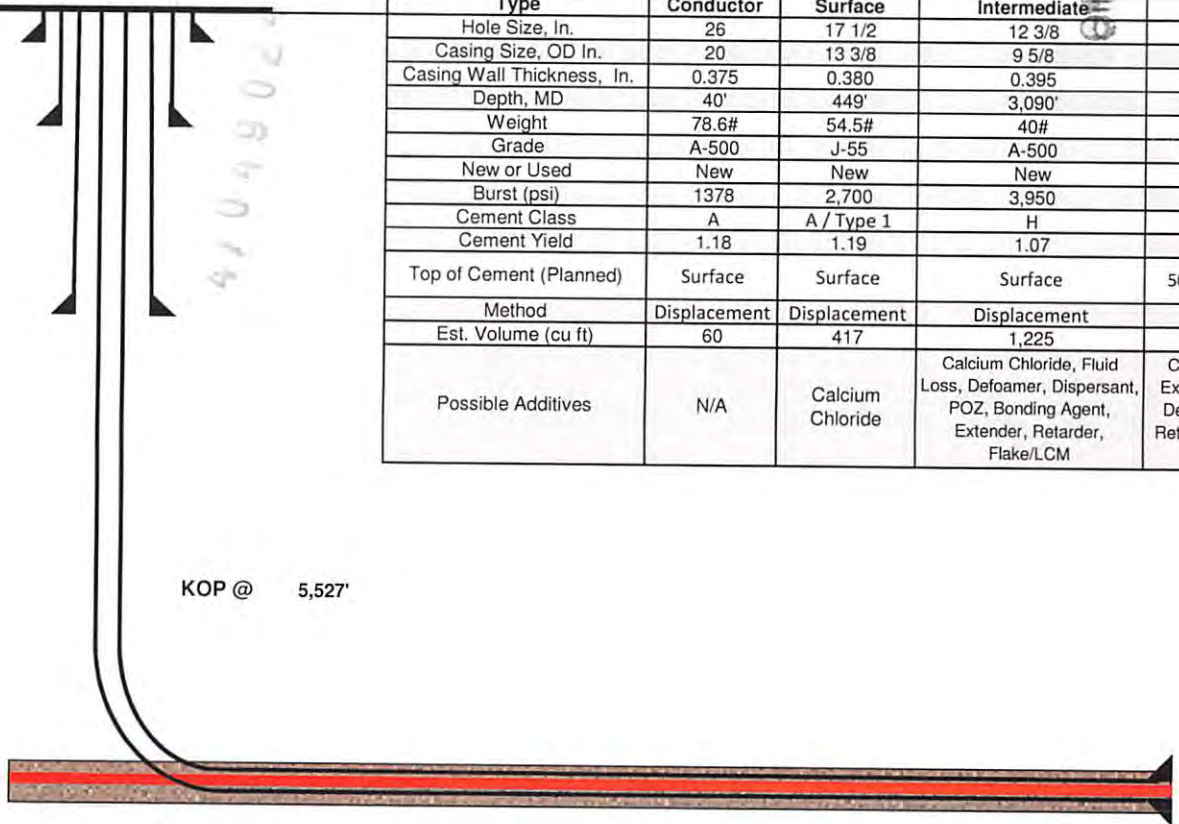
*Note: Attach additional sheets as needed.

Well **GLO168H21**
 EQT Production
 Glover Gap Quad
 Marion County, WV

Azimuth 337
 Vertical Section 12217

Note: Diagram is not to scale

Formations	Top TVD	Base TVD
Conductor	40	
Base Fresh Water	369	
Surface Casing	449	
Intermediate Casing	3090	
Maxton	2248 - 2327	
Big Lime	2382 - 2495	
Big Injun	2542 - 2660	
Weir	2784 - 2896	
Gantz	2990 - 3040	
Fifty foot	3128 - 3157	
Thirty foot	3212 - 3235	
Gordon	3269 - 3310	
Forth Sand	3337 - 3392	
Bayard	3420 - 3462	
Warren	3904 - 3994	
Speechley	4086 - 4170	
Balltown A	4459 - 4888	
Riley	4950 - 5019	
Benson	5542 - 5593	
Alexander	5944 - 6014	
Sonyea	7237 - 7392	
Middlesex	7392 - 7448	
Genesee	7448 - 7536	
Geneseo	7536 - 7570	
Tully	7570 - 7596	
Hamilton	7596 - 7696	
Marcellus	7696 - 7749	
Production Casing	21918 MD	
Onondaga	7749	



Casing and Cementing				
Type	Conductor	Surface	Intermediate	Production
Hole Size, In.	26	17 1/2	12 3/8	8 1/2
Casing Size, OD In.	20	13 3/8	9 5/8	6 1/2
Casing Wall Thickness, In.	0.375	0.380	0.395	0.361
Depth, MD	40'	449'	3,090'	21,918'
Weight	78.6#	54.5#	40#	20#
Grade	A-500	J-55	A-500	P-110
New or Used	New	New	New	New
Burst (psi)	1378	2,700	3,950	12,640
Cement Class	A	A / Type 1	H	A / H
Cement Yield	1.18	1.19	1.07	1.123 / 2.098
Top of Cement (Planned)	Surface	Surface	Surface	500' above top Producing Zone
Method	Displacement	Displacement	Displacement	Displacement
Est. Volume (cu ft)	60	417	1,225	3,255
Possible Additives	N/A	Calcium Chloride	Calcium Chloride, Fluid Loss, Defoamer, Dispersant, POZ, Bonding Agent, Extender, Retarder, Flake/LCM	Calcium Carbonate, Fluid Loss, Extender, Dispersant, Viscosifier, Defoamer, POZ, Bonding Agent, Retarder, Anti-Settling/Suspension Agent

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Proposed Well Work:
 Drill and complete a new horizontal well in the Marcellus formation.
 Drill the vertical to an approximate depth of 5527'.
 Kick off and drill curve. Drill lateral in the Marcellus. Cement casing.

10,521' Lateral

Land curve @ 7,722' TVD 11,397' MD
 Est. TD @ 7,722' TVD 21,918' MD

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EQT Production

Hydraulic Fracturing Monitoring Plan

Pad ID: GLO168

Marion County, WV

12/21/16

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Page 1 of 2

06/16/2017

Purpose

The purpose of this pad-specific Hydraulic Fracturing Monitoring Plan is to identify and notify conventional well operators near EQT hydraulic fracturing in Marion County, WV prior to hydraulic fracturing at the following EQT wells on GLO168 pad: GLO168H1, GLO168H2, GLO168H3, GLO168H4, GLO168H5, GLO168H6, GLO168H7, GLO168H16, GLO168H17, GLO168H18, GLO168H19, GLO168H20, GLO168H21.

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

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

1. Communications with Well Operators

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

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

EQT will recommend to these operators at a minimum to:

1. Inspect their surface equipment prior to fracturing to establish integrity and establish pre-frac well conditions
2. Observe wells closely during and after fracturing and monitor for abnormal increases in water, gas or pressure
3. Inspect or install master valves or other necessary equipment for wellhead integrity capable of a pressure recommended by EQT
4. Notify the OOG and EQT if any changes in water, gas production, pressure, or other anomalies are identified

2. Reporting

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

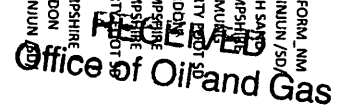
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Page 2 of 2
06/16/2017

UWI	ABAND. DATE	COMP. DATE	CURR. OPER.	ELEVATION	ELEV_REF_CD	FNL_STAT	LATITUDE	LONGITUDE	OFFER NAME	PROD_FM_NM	SPUD DATE	TO_FORNL_NM	ROT_DEPTH
47049002240000	5/6/1942	8/31/1918	SOUTH PENN OIL	1013 GR	ABD-GW	ABD-GW	39.5180	80.4405	SOUTH PENN OIL	UNKNOWN	8/8/1918	BIG INJUN /SD/	2040 00224
47049002394000	3/13/1968	11/22/1918	EQUITABLE GAS COMPANY	1112 GR	D&A	ABD-GW	39.5216	80.4332	EQUITABLE GAS COMPANY	UNKNOWN	8/29/1967	FIFTH SAND	3159 00239
47049010080000	10/3/1954	7/6/1918	EQUITABLE GAS COMPANY	1013 GR	ABD-GW	ABD-GW	39.5166	80.4436	EQUITABLE GAS COMPANY	UNKNOWN	1/22/1918	HAMPSHIRE	3159 00094
47049010100000	1/1/1950	4/17/1918	PITTSBURGH & W VA GAS	1260 GR	ABD-GW	ABD-GW	39.5173	80.4318	PITTSBURGH & W VA GAS	UNKNOWN	6/25/1918	CHEMUNG	3225 00108
47049010120000	10/9/1954	5/24/1918	EQUITABLE GAS COMPANY	1312 GR	ABD-GW	ABD-GW	39.5173	80.4292	EQUITABLE GAS COMPANY	UNKNOWN	3/11/1918	THIRTY FOOT 50	2954 00101
47049013900000	5/20/1949	10/8/1918	HOPE NATURAL GAS	1206 GR	ABD-GW	ABD-GW	39.5070	80.4356	HOPE NATURAL GAS	UNKNOWN	3/30/1918	GORDON	3078 00104
47049030460000	6/10/1942	10/8/1918	HOPE NATURAL GAS	1156 GR	ABD-GW	ABD-GW	39.5208	80.4412	HOPE NATURAL GAS	UNKNOWN	12/27/1917	HAMPSHIRE	3133 00107
47049002610000	11/14/2008	6/1/1964	EQUITABLE GAS COMPANY	1172 GR	ABD-O/W	ABD-O/W	39.5128	80.4281	SOUTH PENN OIL	UNKNOWN	9/9/1918	HAMPSHIRE	3078 00282
47049002810000	1/1/1940	4/1/1967	EQUITABLE GAS COMPANY	1038 GR	ABD-GW	ABD-GW	39.5158	80.4524	EQUITABLE GAS COMPANY	UNKNOWN	8/17/1918	THIRTY FOOT	2910 00304
47049002900000	1/1/1940	9/1/1967	EQUITABLE GAS COMPANY	1063 GR	GSTG	GSTG	39.5128	80.4432	EQUITABLE GAS COMPANY	UNKNOWN	5/2/1964	HAMPSHIRE	3078 00282
47049002920000	1/1/1930	4/1/1967	EQUITABLE GAS COMPANY	1046 GR	OIL	OIL	39.5237	80.4453	EQUITABLE GAS COMPANY	UNKNOWN	3/2/1967	GORDON	3078 00282
47049011020000	5/6/1999	UNKOWN	UNKOWN	0 GR	UNKOWN	UNKOWN	39.5018	80.4257	UNKOWN	UNKNOWN	8/2/1967	BIG INJUN	2759 00022
47049011240000	2/2/1999	UNKOWN	UNKOWN	0 GR	UNKOWN	UNKOWN	39.4991	80.4200	UNKOWN	UNKNOWN			2393 00022
47049011680000	1/1/1930	UNKOWN	UNKOWN	0 GR	UNKOWN	UNKOWN	39.5085	80.4253	UNKOWN	UNKNOWN			2200 00222
47049300120000		UNKOWN	UNKOWN	0 GR	UNKOWN	UNKOWN	39.5013	80.4257	UNKOWN	UNKNOWN			0 01168
47049010210000	9/30/1997	10/21/1918	N G PENN CO	1020 GR	ABD-GW	ABD-GW	39.5194	80.4349	N G PENN CO	UNKNOWN	7/29/1918	DEVONIAN /SD/	0 01168
47049011310000	7/30/1999		DELMAR OIL CORPORATION	0 GR	UNKOWN	UNKOWN	39.5078	80.4275	CONSOLIDATION COAL	UNKNOWN			0 01131
47049011320000	4/5/1999		CONSOLIDATION COAL	0 GR	UNKOWN	UNKOWN	39.5049	80.4380	DELMAR OIL CORPORATION	UNKNOWN			0 01113
47049702490000	1/1/1949		HOPE NATURAL GAS	0 GR	UNKOWN	UNKOWN	39.5266	80.4423	HOPE NATURAL GAS	UNKNOWN			0 01123
47049306220000	6/7/1949	7/6/1917	RAAD SUPPLY COMPANY	1298 GR	ABD-GW	ABD-GW	39.5151	80.4251	RAAD SUPPLY COMPANY	UNKNOWN	6/6/1917	BIG INJUN /SD/	2378 00622
47049306320000	8/28/1950	7/12/1918	PITTSBURGH & W VA GAS	1216 GR	ABD-O/W	ABD-O/W	39.5105	80.4236	RAAD SUPPLY COMPANY	UNKNOWN	5/12/1914	THIRTY FOOT 50	2892 30632
47049010090000	8/4/2009	7/6/1917	SOUTH PENN OIL	1203 GR	ABD-GW	ABD-GW	39.5195	80.4455	EQUITABLE GAS COMPANY	UNKNOWN	5/23/1918	CHEMUNG	3440 30668
47049002340000		4/28/1954	EQUITABLE GAS COMPANY	1299 GR	GAS	GAS	39.5139	80.4325	SOUTH PENN OIL	UNKNOWN	1/2/1918	GORDON	3220 01009
47049002220000	8/25/1931		EQUITABLE GAS COMPANY	1266 GR	GSTG	GSTG	39.5155	80.4258	EQUITABLE GAS COMPANY	UNKNOWN	6/7/1917	BIG INJUN /SD/	2278 01020
47049002230000	8/17/1931		EQUITABLE GAS COMPANY	1158 GR	ABD-GW	ABD-GW	39.5193	80.4397	EQUITABLE GAS COMPANY	UNKNOWN	8/25/1931	GORDON	2994 00223
47049002240000			EQUITABLE GAS COMPANY	1140 GR	ABD-GW	ABD-GW	39.5184	80.4339	EQUITABLE GAS COMPANY	UNKNOWN	7/2/1949	BIG INJUN /SD/	3214 00235
47049002260000			EQUITABLE GAS COMPANY	1156 GR	GSTG	GSTG	39.5200	80.4406	EQUITABLE GAS COMPANY	UNKNOWN			0 00200
47049002070000	11/5/2009	6/1/1950	EQUITABLE GAS COMPANY	1232 GR	GSTG	GSTG	39.5212	80.4380	EQUITABLE GAS COMPANY	UNKNOWN	5/2/1950	GORDON	0 00201
47049002100000	1/26/2008	8/1/1957	EQUITABLE GAS COMPANY	1239 GR	GSTG	GSTG	39.5173	80.4378	EQUITABLE GAS COMPANY	UNKNOWN	7/2/1952	GORDON	0 00207
47049002110000			EQUITABLE GAS COMPANY	1011 GR	GSTG	GSTG	39.5150	80.4448	EQUITABLE GAS COMPANY	UNKNOWN	1/30/1950	GORDON	0 00211
47049002120000			EQUITABLE GAS COMPANY	1011 GR	GSTG	GSTG	39.5205	80.4388	EQUITABLE GAS COMPANY	UNKNOWN	11/1/1950	GORDON	0 00212
47049002200000			EQUITABLE GAS COMPANY	1270 GR	GSTG	GSTG	39.5151	80.4270	EQUITABLE GAS COMPANY	UNKNOWN	10/2/1950	GORDON	0 00217
47049002220000			EQUITABLE GAS COMPANY	1318 GR	GSTG	GSTG	39.5141	80.4313	EQUITABLE GAS COMPANY	UNKNOWN	5/2/1951	GORDON	0 00220
47049002210000			EQUITABLE GAS COMPANY	1270 GR	GSTG	GSTG	39.5158	80.4367	EQUITABLE GAS COMPANY	UNKNOWN	6/1/1951	GORDON	0 00221
47049002250000			EQUITABLE GAS COMPANY	1316 GR	GSTG	GSTG	39.5141	80.4349	EQUITABLE GAS COMPANY	UNKNOWN	8/2/1953	GORDON	0 00225
47049019400000	3/18/1969	2/1/1969	EQUITABLE GAS COMPANY	0 GR	GSTG	GSTG	39.5181	80.4500	EQUITABLE GAS COMPANY	UNKNOWN			0 01939
47049003000000			EQUITABLE GAS COMPANY	1248 GR	GSTG	GSTG	39.5207	80.4493	EQUITABLE GAS COMPANY	UNKNOWN			0 01940
47049010170000	2/26/1999		INVESTATION ENERGY	1220 GR	OIL	OIL	39.5093	80.4285	GREENRIDGE OIL	UNKNOWN	1/2/1969	FIFTH SAND	3604 00300
47049011250000	8/17/1999		CONSOLIDATION COAL	0 GR	UNKOWN	UNKOWN	39.5003	80.4217	CONSOLIDATION COAL	UNKNOWN			2092 01017
47049300340000	7/29/1931		SOUTH PENN OIL	1412 GR	ABD-GW	ABD-GW	39.4946	80.4219	CONSOLIDATION COAL	UNKNOWN			0 01126
47049300500000	12/16/1931		HOPE CONSTRUCTION & REFINING	1011 GR	ABD-O/W	ABD-O/W	39.5215	80.4388	HOPE CONSTRUCTION & REFINING	UNKNOWN			2759 30050
47049300642000	12/10/1949		HOPE SUPPLY COMPANY	1228 GR	ABD-O/W	ABD-O/W	39.5119	80.4258	RAAD SUPPLY COMPANY	UNKNOWN			2894 30642
47049708940000			UNKOWN	0 GR	UNKOWN	UNKOWN	39.4999	80.4215	UNKOWN	UNKNOWN			0 70894
47049722870000			UNKOWN	0 GR	UNKOWN	UNKOWN	39.5372	80.4636	UNKOWN	UNKNOWN			0 72287
47049722940000			UNKOWN	0 GR	UNKOWN	UNKOWN	39.5330	80.4410	UNKOWN	UNKNOWN			0 72290
47049722950000			UNKOWN	0 GR	UNKOWN	UNKOWN	39.5280	80.4573	UNKOWN	UNKNOWN			0 72295
47049723190000			HOPE NATURAL GAS	0 GR	UNKOWN	UNKOWN	39.5287	80.4598	HOPE NATURAL GAS	UNKNOWN			0 72319
47049723220000			UNKOWN	0 GR	UNKOWN	UNKOWN	39.5045	80.4481	UNKOWN	UNKNOWN			0 72321
47049723230000			UNKOWN	0 GR	UNKOWN	UNKOWN	39.5128	80.4478	UNKOWN	UNKNOWN			0 72332
47049723232000			UNKOWN	0 GR	UNKOWN	UNKOWN	39.5160	80.4480	UNKOWN	UNKNOWN			0 72337
47049723230000			UNKOWN	0 GR	UNKOWN	UNKOWN	39.5202	80.4382	UNKOWN	UNKNOWN			0 72333
47049723260000			UNKOWN	0 GR	UNKOWN	UNKOWN	39.5155	80.4300	UNKOWN	UNKNOWN			0 72326
47049723270000			UNKOWN	0 GR	UNKOWN	UNKOWN	39.5078	80.4215	UNKOWN	UNKNOWN			0 72327
47049019860000	12/19/2008		CONSOLIDATION COAL	0 GR	UNKOWN	UNKOWN	39.5271	80.4592	CONSOLIDATION COAL	UNKNOWN			0 01986

47049002110000

Office of Oil and Gas

FEB 24 2017



TOI DEPTH: BEHIND

Protection 06/16/2017

4704902076000
4704902078000
4704900455000
4704972288

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

CONSOLIDATION COAL
CONSOLIDATION COAL
UNKNOW
UNKNOW

0 GR
0 GR
1086 GR

UNKN
UNKN
ABD-GW
UNKN

39.5281
39.5288
39.5349
39.5356

-80.4425 CONSOLIDATION COAL
-80.4597 CONSOLIDATION COAL
-80.4400 EQUITABLE GAS COMPANY
-80.4602 UNKNOW

4704902076000

GORDON STRAY /SP

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0 02076
0 02078
3036 00455
72288

06/16/2017

UWI	Name	Depth Top	Base Depth
47049010210000	PITTSBURGH COAL	885	892
47049010210000	MURPHY /SD/	1007	1055
47049010210000	DUNKARD LITTLE /SD/	1220	1254
47049010210000	FREEPART	1382	1515
47049010210000	SALT SD /GROUP/	1672	1907
47049010210000	MAXTON/SD/	2059	2113
47049010210000	BIG LIME	2118	2172
47049010210000	KEENER /SD/	2179	2200
47049010210000	BIG INJUN /SD/	2210	2314
47049010210000	FIFTY FOOT SD	2804	2847
47049010210000	THIRTY FOOT SD	2884	2907
47049010200000	PITTSBURGH COAL	935	941
47049010200000	MURPHY /SD/	1066	1097
47049010200000	DUNKARD LITTLE /SD/	1286	1322
47049010200000	DUNKARD BIG/SD/	1359	1385
47049010200000	FREEPART	1489	1522
47049010200000	SALT SD 1	1727	1757
47049010200000	SALT SD 2	1792	1834
47049010200000	SALT SD 3	1918	2011
47049010200000	MAXTON/SD/	2144	2161
47049010200000	BIG LIME	2190	2235
47049010200000	KEENER /SD/	2248	2270
47049010200000	BIG INJUN /SD/	2274	
47049004550000	PITTSBURGH COAL	843	

*Perforated formations

4704902445

4704902445

GLO168



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06/16/2017



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

Promoting a healthy environment.

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06/16/2017



west virginia department of environmental protection

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

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

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

**IN THE MATTER OF A VARIANCE FROM)
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)**

ORDER NO. 2014 - 17

4704902445

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

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

Promoting a healthy environment.

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WV Department of
Environmental Protection

06/16/2017

CONCLUSIONS OF LAW

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

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

ORDER

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

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

IN THE NAME OF THE STATE OF WEST VIRGINIA

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



James Martin, Chief
Office of Oil and Gas

4704902445

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WV Department of
Environmental Protection

06/16/2017



October 27, 2016

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

Re: Casing plan on Wells (GLO168)

Dear Mr. Smith,

EQT is requesting the 13-3/8" surface casing be set at 449' KB, 80' below the deepest fresh water. We will set the 9-5/8" intermediate string at 3090' KB, 50' below the base of the Gantz formation.

If you have any questions, please do not hesitate to contact me at (304) 848-0076.

Sincerely,

A handwritten signature in blue ink, appearing to read 'Vicki Roark'.

Vicki Roark
Permitting Supervisor

4704902445

Enc.

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WV Department of
Environmental Protection

WW-9
(4/16)

4704902445

API Number 47 - 49

Operator's Well No. GLO168H21

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

FLUIDS/ CUTTINGS DISPOSAL & RECLAMATION PLAN

Operator Name EQT Production Company OP Code 306686

Watershed (HUC 10) Laurel Run Quadrangle Glover Gap

Do you anticipate using more than 5,000 bbls of water to complete the proposed well work? Yes No

Will a pit be used? Yes No

If so, please describe anticipated pit waste: _____

Will a synthetic liner be used in the pit? Yes No If so, what ml.? _____

Proposed Disposal Method For Treated Pit Wastes:

- Land Application
- Underground Injection (UIC Permit Number 0014, 8462, 4037)
- Reuse (at API Number Various)
- Off Site Disposal (Supply form WW-9 for disposal location)
- Other (Explain _____)

SDW
3/2/2017

Will closed loop system be used? If so, describe: Yes, The closed loop system will remove drill cuttings from the drilling fluid. The drill 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, removed offsite, etc. Landfill

-If left in pit and plan to solidify what medium will be used? (cement, lime, sawdust) N/A

-Landfill or offsite name/permit number? See Attached List

Permittee shall provide written notice to the Office of Oil and Gas of any load of drill cuttings or associated waste rejected at any West Virginia solid waste facility. The notice shall be provided within 24 hours of rejection and the permittee shall also disclose where it was properly disposed.

I certify that I understand and agree to the terms and conditions of the GENERAL WATER POLLUTION PERMIT issued on August 1, 2005, by the Office of Oil and Gas of the West Virginia Department of Environmental Protection. I understand that the provisions of the permit are enforceable by law. Violations of any term or condition of the general permit and/or other applicable law or regulation can lead to enforcement action.

I certify under penalty of law that I have personally examined and am familiar with the information submitted on this application form and all attachments thereto 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 or imprisonment.

Company Official Signature *Victoria J. Roark*

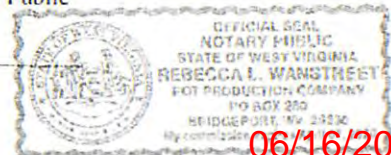
Company Official (Typed Name) Victoria J. Roark

Company Official Title Permitting Supervisor

Subscribed and sworn before me this 21 day of February, 2017

Rebecca E. Wamstreet Notary Public

My commission expires 4-7-2020



06/16/2017

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.**

470680000000

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**WV Department of
Environmental Protection**

06/16/2017

EQT Production Company

Proposed Revegetation Treatment: Acres Disturbed 66.70 Prevegetation pH 6.2

Lime 3 Tons/acre or to correct to pH 6.5

Fertilizer type Granular 10-20-20

Fertilizer amount 1/3 lbs/acre

Mulch 2 Tons/acre

Seed Mixtures

Temporary

Permanent

Seed Type	lbs/acre
KY-31	40
Alsike Clover	5
Annual Rye	15

Seed Type	lbs/acre
Orchard Grass	15
Alsike Clover	5

Attach:

Maps(s) of road, location, pit and proposed area for land application (unless engineered plans including this info have been provided). If water from the pit will be land applied, include dimensions (L x W x D) of the pit, and dimensions (L x W), and area in acreage, of the land application area.

Photocopied section of involved 7.5' topographic sheet.

4704902445

Plan Approved by: S.P. Dwanett

Comments: Pre-seed/mulch all disturbed areas as soon as reasonably possible per regulation. Upgrade ETS if needed per WU DEP ETS manual.

Title: OOG Inspector

Date: 3/2/2017

Field Reviewed? Yes No

EQT Production Water plan
Offsite disposals for Marcellus wells

CWS TRUCKING INC.

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

BROAD STREET ENERGY LLC

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

LAD LIQUID ASSETS DISPOSAL INC.

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

TRIAD ENERGY

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

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

KING EXCAVATING CO.

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

Waste Management - Meadowfill Landfill

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

Waste Management - Northwestern Landfill

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

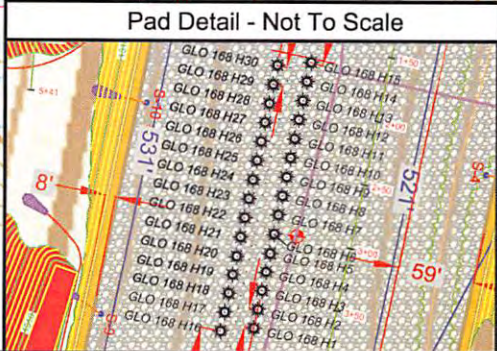
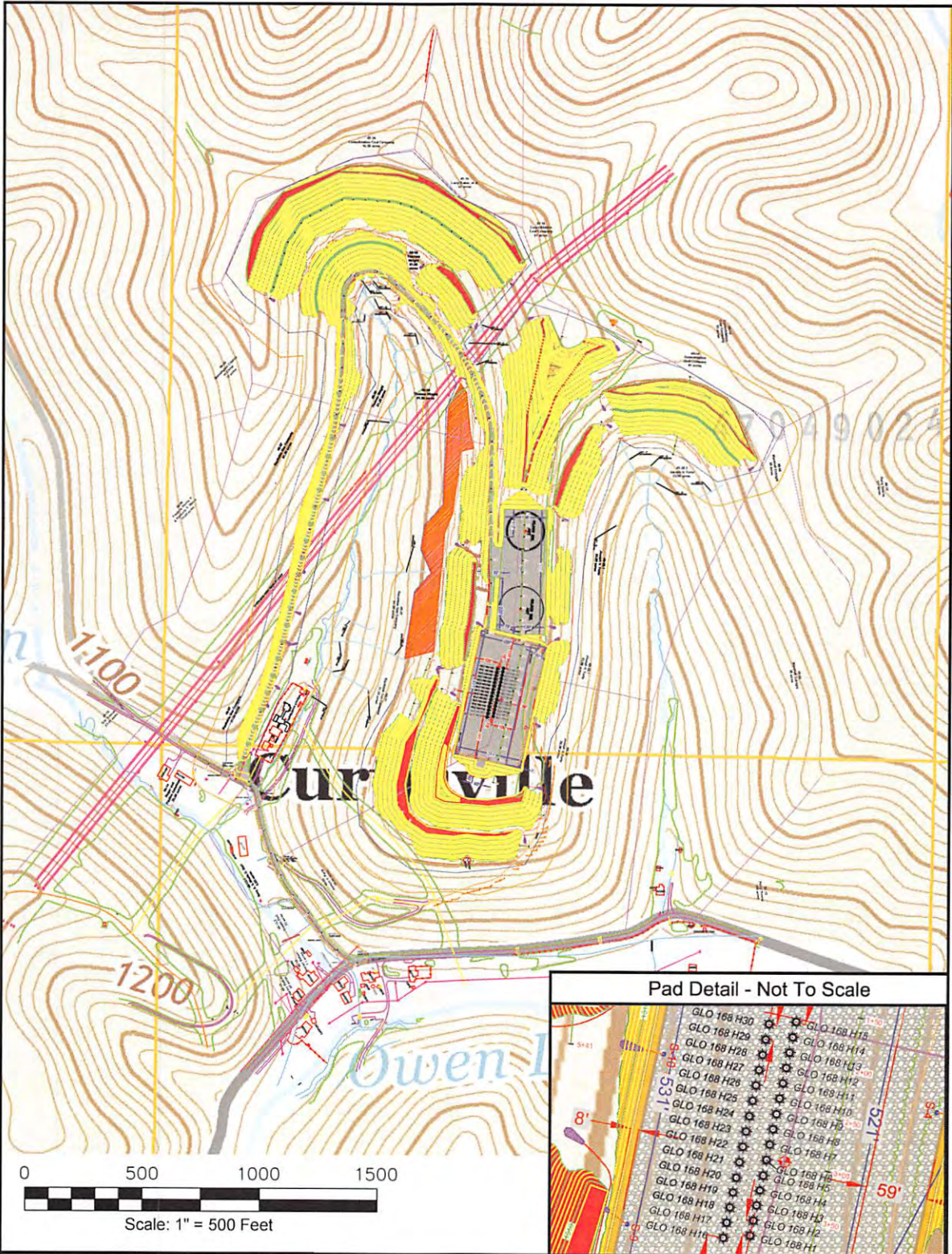
4706805445

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WV Department of
Environmental Protection

06/16/2017



Pine Grove 7.5' USGS QUADRANGLE		Proposed Disturbance Area	
Projected culvert inventory. (for bid purposes only)		Well Site Location	See Site Plan
15" minimum diameter culverts	See Site Plan	Proposed Access Road	See Site Plan
24" minimum diameter culverts	See Site Plan	Approximate Total Disturbance	See Site Plan
DRAWN BY: Scott Brown	DATE: December 13, 2016	FILE NO: 11-16	DRAWING FILE NO: GLO 168 Rec Plan

Note: SEE SITE PLAN OF PNG 103 FOR COMPLETE GRADING & DRAINAGE CONSTRUCTION INCLUDING EROSION & SEDIMENT CONTROL DETAILS ETC

Office of Oil and Gas



SURVEYING AND MAPPING SERVICES PERFORMED BY:
ALLEGHENY SURVEYS, INC.
 1-800-482-8606
 Birch River Office
 Phone: (304) 649-8606
 Fax: (304) 649-8608
 237 Birch River Road
 P.O. Box 438
 Birch River, WV 26610

FEB 24 2017

WV Department of Environmental Protection



Where energy meets innovation.™

Site Specific Safety Plan

EQT GLO 168 Pad

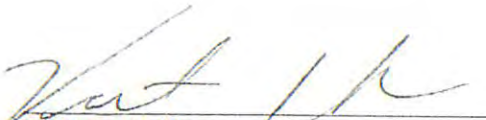
Glover Quadrant

Marion County, WV

4704902445

For Wells:

GLO168H1 _GLO168H2 _GLO168H3 _GLO168H4 _GLO168H5 GLO168H6_ GLO168H7_
GLO168H16 GLO168H17 GLO168H18 GLO168H19 GLO168H20 GLO168H21 _____

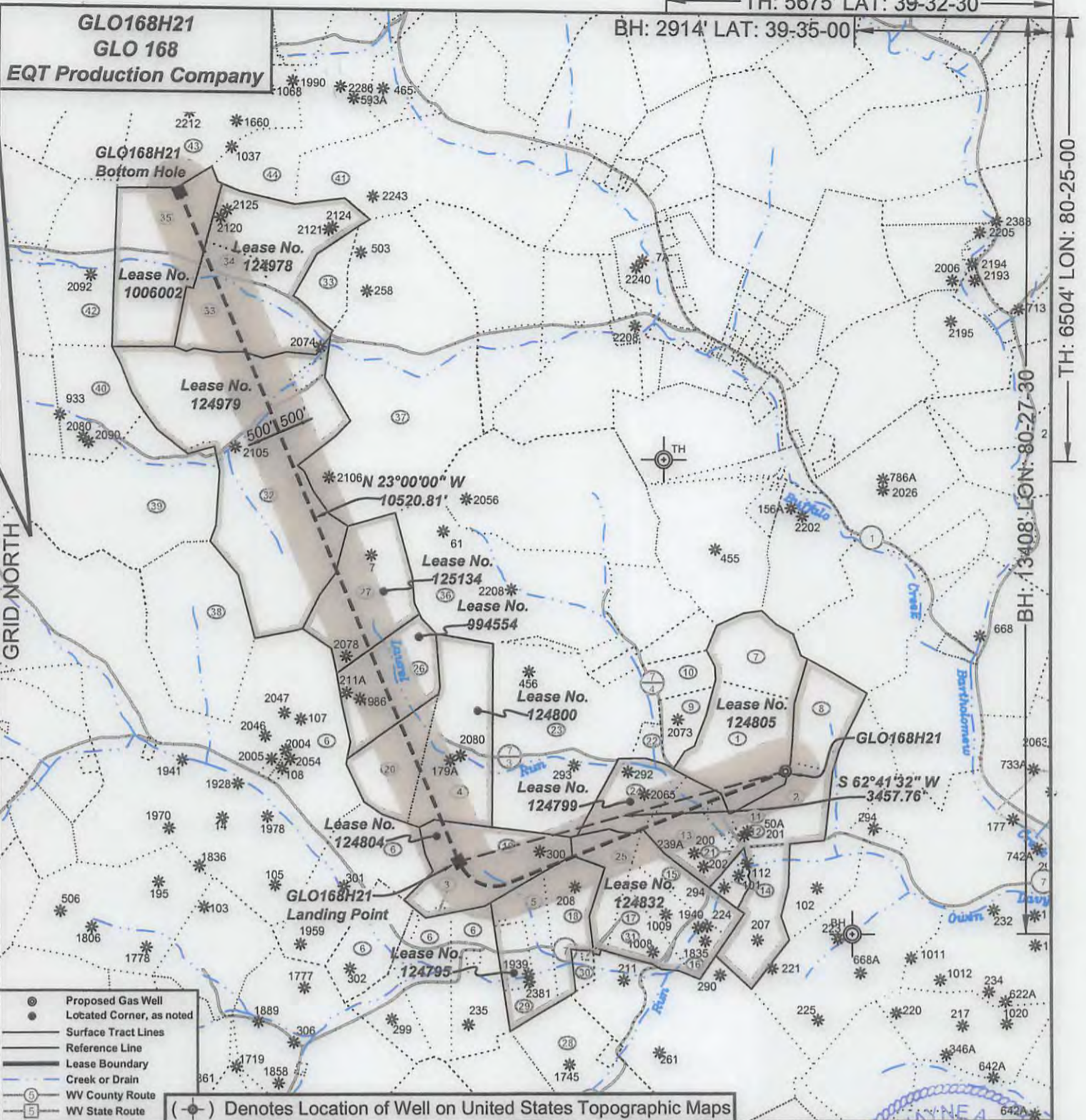

EQT Production
Permitting Supervisor
Title
1-26-17
Date

Date Prepared: July 28, 2016

SPW3/2/2017
WV Oil and Gas Inspector

Title

Date



- Proposed Gas Well
 - Located Corner, as noted
 - Surface Tract Lines
 - Reference Line
 - Lease Boundary
 - Creek or Drain
 - WV County Route
 - WV State Route
- (●) Denotes Location of Well on United States Topographic Maps



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.

Dwaine A. Hall
P.S. 2089SU



FILE NO: 11-16
DRAWING NO: GLO 168 H21
SCALE: 1" = 2000'
MINIMUM DEGREE OF ACCURACY: 1:2500
PROVEN SOURCE OF ELEVATION: NGS CORS Station

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

DATE: January 9 20 17
OPERATOR'S WELL NO.: GLO168H21
API WELL NO
47 - 49 - 02445 HGA
STATE COUNTY PERMIT

WELL TYPE: OIL GAS LIQUID INJECTION WASTE DISPOSAL
(IF GAS) PRODUCTION: STORAGE DEEP SHALLOW

LOCATION: ELEVATION: ^{Original 1357'} Proposed 1316' WATERSHED Laurel Run QUADRANGLE: Glover Gap
DISTRICT: Mannington COUNTY: Marion

SURFACE OWNER: Equitrans LP ACREAGE: 06/16/2017
ROYALTY OWNER: EQT Mineral Purchasing Group, et al. LEASE NO: 124805 ACREAGE: 81

PROPOSED WORK: DRILL CONVERT DRILL DEEPER FRACTURE OR STIMULATE PLUG OFF OLD FORMATION
 PERFORATE NEW FORMATION OTHER PHYSICAL CHANGE IN WELL (SPECIFY) _____
 PLUG AND ABANDON CLEAN OUT AND REPLUG TARGET FORMATION: Marcellus ESTIMATED DEPTH: 7,722'

WELL OPERATOR: EQT Production Company DESIGNATED AGENT: Rex C. Ray
ADDRESS: 115 Professional Place PO Box 280 ADDRESS: 115 Professional Place PO Box 280
Bridgeport, WV 26330 Bridgeport, WV 26330

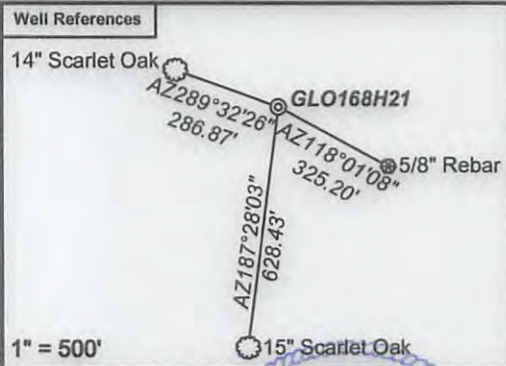
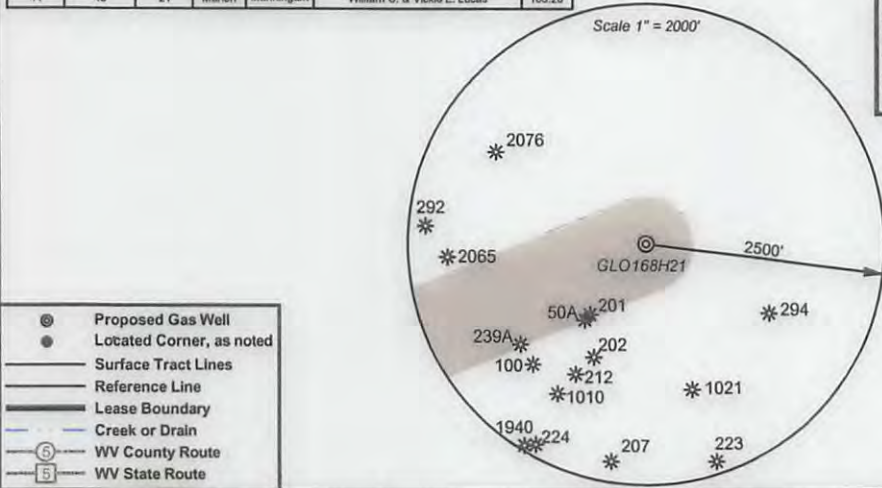
GLO168H21
GLO 168
EQT Production Company

Notes:
GLO168H21 coordinates are
NAD 27 N: 374,272.77 E: 1,735,746.68
NAD 27 Lat: 39.523816 Long: -80.436785
NAD 83 UTM N: 4,375,068.45 E: 548,424.53
GLO168H21 Landing Point coordinates are
NAD 27 N: 372,953.77 E: 1,730,954.03
NAD 27 Lat: 39.520056 Long: -80.453724
NAD 83 UTM N: 4,374,642.24 E: 546,971.07
GLO168H21 Bottom Hole coordinates are
NAD 27 N: 382,638.23 E: 1,726,843.22
NAD 27 Lat: 39.546523 Long: -80.468666
NAD 83 UTM N: 4,377,571.86 E: 545,669.55
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.

Tract ID	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	48	2	Marion	Mannington	Marion County Commission	644.34
7	49	38	Marion	Mannington	Thomas B. Wright	30.00
8	49	39	Marion	Mannington	Musgrave, et al.	23.90
9	49	36	Marion	Mannington	Frederic R. & Kimberly P. Steele	16.25
10	49	35	Marion	Mannington	Mannington Church of Christ Trustees	13.00
11	48	13.1	Marion	Mannington	Gary A. & Sheila D. Earl	2.02
12	48	13	Marion	Mannington	Harlen O. & Diana S. Batson	1.10
13	48	14	Marion	Mannington	Roger & Pauline Eshelman	25.09
14	50	19	Marion	Mannington	Brenda D. Stull	4.55
15	48	11	Marion	Mannington	Consolidated Coal Company	17.50
16	48	10	Marion	Mannington	Consolidated Coal Company	22.00
17	51	7	Marion	Mannington	Consolidation Coal Company	0.63
18	48	7	Marion	Mannington	Consolidation Coal Company	26.81
19	48	5	Marion	Mannington	Consolidation Coal Company	46.83
20	48	3	Marion	Mannington	Mark A. Barron	27.50
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	16.18
26	48	2	Marion	Mannington	EQT Production Company	40
27	48	1.0	Marion	Mannington	David L. & Karla A. James	56.50
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	48	5	Marion	Mannington	Ruby L. Herndon	182.04
33	45	9	Marion	Mannington	Jeffrey B. & Pamela J. Gray	102.28
34	45	6.1	Marion	Mannington	Barron R. & Mary A. Powell	8.00
35	45	10	Marion	Mannington	Lisa A. & Baron R. Powell	88.00
36	45	18	Marion	Mannington	Consolidation Coal Company, et al.	101.25
37	45	8	Marion	Mannington	Robert or Sharon Grim	186.00
38	46	4	Marion	Mannington	Consolidation Coal Company	67.47
39	46	6	Marion	Mannington	Patricia Coltherman	100.00
40	46	6.1	Marion	Mannington	Patricia Coltherman	40.00
41	44	37	Marion	Mannington	Priscilla A. Hamilton	157.30
42	45	5	Marion	Mannington	Harry R. & Susanne M. Motts	52.00
43	45	20	Marion	Mannington	Allegheny Forestlands LLC	78.50
44	45	21	Marion	Mannington	William C. & Vickie E. Lucas	103.20



Lease No.	Acres	Owner
124799	135	Anita K. Stanley, et al.
124832	73.31	Robert D. Baker, et al.
124804	48	CNX
124795	67	CNX, et al.
124800	84	I. L. Morris & Mike Ross Inc., et al.
994554	40	Edward R. Barron, Jr. & Vicky Sue Barron
125134	56	David L. James
124979	185	Trio Petroleum & Waco Oil & Gas, et al.
124978	108	Suda Ann Stritzinger, et al.
1006002	68	Ferrari VI OG, LLC, et al.



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.

Dwayne A. Hall
P.S. 2089SU



FILE NO: 11-16
DRAWING NO: GLO 168 H21
SCALE: 1" = 2000'
MINIMUM DEGREE OF ACCURACY: 1:2500
PROVEN SOURCE OF ELEVATION: NGS CORS Station



DATE: January 9 20 17
OPERATOR'S WELL NO.: GLO168H21
API WELL NO
47 - 49 - 02445
STATE COUNTY PERMIT

WELL TYPE: OIL GAS LIQUID INJECTION WASTE DISPOSAL
(IF GAS) PRODUCTION: STORAGE DEEP SHALLOW
LOCATION: ELEVATION: Original 1357' Proposed 1316' WATERSHED Starkey Run and Wiley Fork QUADRANGLE: Glover Gap
DISTRICT: Mannington COUNTY: Marion
SURFACE OWNER: Equitrans LP ACREAGE: 06/16/2017
ROYALTY OWNER: EQT Mineral Purchasing Group, et al. LEASE NO: 124805 ACREAGE: 81
PROPOSED WORK: DRILL CONVERT DRILL DEEPER FRACTURE OR STIMULATE PLUG OFF OLD FORMATION
 PERFORATE NEW FORMATION OTHER PHYSICAL CHANGE IN WELL (SPECIFY)
 PLUG AND ABANDON CLEAN OUT AND REPLUG TARGET FORMATION: Marcellus ESTIMATED DEPTH: 7,722'

WELL OPERATOR: EQT Production Company DESIGNATED AGENT: Rex C. Ray
ADDRESS: 115 Professional Place PO Box 280 ADDRESS: 115 Professional Place PO Box 280
Bridgeport, WV 26330 Bridgeport, WV 26330

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

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

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

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

6700

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

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

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

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

Well Operator: EQT Production Company

By: Victoria J Roark FEB 24 2017

Its: Permitting Supervisor

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Lease No.	Grantor, Lessor, etc.	Grantee, Lessee, etc.	Royalty	Book/Page
<u>EQT Mineral Purchasing Group, et al. (Current Royalty Owner)</u>				
124805	Howard Wright, et ux, et al. (Original Lessor)	Equitable Gas Company	***	DB 667/33
	Equitable Gas Company	Equitrans, Inc.		AB 12/279
	Equitrans, Inc.	Equitrans, LP		DB 46/660
	Equitrans, LP	EQT Production Company		DB 1114/130
<u>Anita K. Stanley, et al. (Current Royalty Owner)</u>				
124789	Guy F. Musgrave, et al.	Pittsburgh & West Virginia Gas	***	DB 465/312
	Pittsburgh & West Virginia Gas	Equitable Gas Company		DB 510/487,
	Equitable Gas Company	Equitrans, Inc.		511/539
	Equitrans, Inc.	Equitrans, LP		AB 12/279
	Equitrans, LP	EQT Production Company		DB 46/660
				DB 1114/130
<u>Robert D. Baker, et al. (Current Royalty Owner)</u>				
124832	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
	Pittsburgh & West Virginia Gas Company	Equitable Gas Company		DB 510/487,
	Equitrans, Inc.	Equitrans, LP		511/539
	Equitrans, LP	EQT Production Company		DB 46/660
				DB 1114/130
<u>CNX (Current Royalty Owner)</u>				
124804	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
<u>CNX, et al. (Current Royalty Owner)</u>				
124795	C. H. Cunningham, et al.	Pittsburgh & West Virginia Gas	***	DB 465/309
	Pittsburgh & West Virginia Gas Company	Equitable Gas Company		DB 510/487,
	Equitable Gas Company	Equitrans, Inc.		511/539
	Equitrans, Inc.	Equitrans, LP		AB 12/279
	Equitrans, LP	EQT Production Company		AB 16/660
				DB 1114/127
<u>I. L. Morris & Mike Ross Inc., et al. (Current Royalty Owner)</u>				
124800	Carl V. Burdine, et ux.	Equitable Gas Company	***	DB 729/730
	Equitable Gas Company	Equitrans, Inc.		AB 12/279
	Equitrans, Inc.	Equitrans, LP		DB 46/660
	Equitrans, LP	EQT Production Company		DB 1114/130
<u>Edward R. Barron, Jr. & Vicky Sue Barron (Current Royalty Owner)</u>				
994554	Edward R. Barron, Jr. & Vicky Sue Barron	EQT Production Company	***	DB 1135/113
<u>David L. James (Current Royalty Owner)</u>				
125134	Lana Hays, et vir.	Carnegie Natural Gas Company	***	DB 286/161
	Carnegie Natural Gas Company	Equitable Gas Company		DB 563/353
	Equitable Gas Company	Equitrans, Inc.		AB 12/279
	Equitrans, Inc.	Equitrans, LP		DB 46/660
	Equitrans, LP	EQT Production Company		DB 1114/130
<u>Trio Petroleum & Waco Oil & Gas, et al. (Current Royalty Owner)</u>				
124979	Howard Digman, et al.	Equitable Gas Company	***	DB 724/561
	Equitable Gas Company	Equitrans, Inc.		AB 12/279
	Equitrans, Inc.	Equitrans, LP		DB 46/660
	Equitrans, LP	EQT Production Company		DB 1114/130
<u>Suda Ann Stritzinger et al. (Current Royalty Owner)</u>				
124978	H. Lawrence Gump, et ux.	Equitable Gas Company	***	DB 596/394
	Equitable Gas Company	Equitrans, Inc.		AB 12/279
	Equitrans, Inc.	Equitrans, LP		DB 46/660
	Equitrans, LP	EQT Production Company		DB 1114/130
<u>Ferrari VI OG, LLC, et al. (Current Royalty Owner)</u>				
1006002	Louis a. Ferrari, Sr. Estate, et al. (Tully to Onondaga)	XTO Energy	***	DB 115/766
	XTO Energy	EQT Production Company		AB 48/276

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***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.



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,

A handwritten signature in blue ink, appearing to read 'Vicki Roark'.

Vicki Roark
Permitting Supervisor-WV

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

Date of Notice Certification: 2/21/17

API No. 47- 49 -
Operator's Well No. GLO168H21
Well Pad Name: GLO168

Notice has been given:

Pursuant to the provisions in West Virginia Code § 22-6A, the Operator has provided the required parties with the Notice Forms listed below for the tract of land as follows:

State:	<u>WV</u>	UTM NAD 83	Easting:	<u>548424.53</u>
County:	<u>Marion</u>		Northing:	<u>4375068.45</u>
District:	<u>Mannington</u>	Public Road Access:		<u>C/O Rt 7/4</u>
Quadrangle:	<u>Glover Gap</u>	Generally used farm name:		<u>Equitrans LP</u>
Watershed:	<u>Laurel Run</u>			

Pursuant to West Virginia Code § 22-6A-7(b), every permit application filed under this section shall be on a form as may be prescribed by the secretary, shall be verified and shall contain the following information: (14) A certification from the operator that (i) it has provided the owners of the surface described in subdivisions (1), (2) and (4), subsection (b), section ten of this article, the information required by subsections (b) and (c), section sixteen of this article; (ii) that the requirement was deemed satisfied as a result of giving the surface owner notice of entry to survey pursuant to subsection (a), section ten of this article six-a; or (iii) the notice requirements of subsection (b), section sixteen of this article were waived in writing by the surface owner; and Pursuant to West Virginia Code § 22-6A-11(b), the applicant shall tender proof of and certify to the secretary that the notice requirements of section ten of this article have been completed by the applicant.

Pursuant to West Virginia Code § 22-6A, the Operator has attached proof to this Notice Certification that the Operator has properly served the required parties with the following: *PLEASE CHECK ALL THAT APPLY		OOG OFFICE USE ONLY
<input type="checkbox"/> 1. NOTICE OF SEISMIC ACTIVITY or <input checked="" type="checkbox"/> NOTICE NOT REQUIRED BECAUSE NO SEISMIC ACTIVITY WAS CONDUCTED		<input type="checkbox"/> RECEIVED/ NOT REQUIRED
<input checked="" type="checkbox"/> 2. NOTICE OF ENTRY FOR PLAT SURVEY or <input type="checkbox"/> NO PLAT SURVEY WAS CONDUCTED		<input type="checkbox"/> RECEIVED
<input type="checkbox"/> 3. NOTICE OF INTENT TO DRILL or <input checked="" type="checkbox"/> NOTICE NOT REQUIRED BECAUSE NOTICE OF ENTRY FOR PLAT SURVEY WAS CONDUCTED or <input checked="" type="checkbox"/> WRITTEN WAIVER BY SURFACE OWNER (PLEASE ATTACH)		<input type="checkbox"/> RECEIVED/ NOT REQUIRED
<input checked="" type="checkbox"/> 4. NOTICE OF PLANNED OPERATION		<input type="checkbox"/> RECEIVED
<input checked="" type="checkbox"/> 5. PUBLIC NOTICE		<input type="checkbox"/> RECEIVED
<input checked="" type="checkbox"/> 6. NOTICE OF APPLICATION		<input type="checkbox"/> RECEIVED

Required Attachments:

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

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06/16/2017

Certification of Notice is hereby given:

THEREFORE, I *[Signature]*, 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
By: Victoria J Roark
Its: Permitting Supervisor
Telephone: 304-848-0076

Address: 115 Professional Place PO Box 280
Bridgeport WV 26330
Facsimile: 304-848-0041
Email: vroark@eqt.com



Subscribed and sworn before me this 21 day of February 2017.
Rebecca L Wangstreet 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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STATE OF WEST VIRGINIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS
NOTICE OF APPLICATION

Notice Time Requirement: notice shall be provided no later than the filing date of permit application.

Date of Notice: 2/21/17 Date Permit Application Filed: 2/21/17

Notice of:

- PERMIT FOR ANY WELL WORK
- CERTIFICATE OF APPROVAL FOR THE CONSTRUCTION OF AN IMPOUNDMENT OR PIT

Delivery method pursuant to West Virginia Code § 22-6A-10(b)

- PERSONAL SERVICE
- REGISTERED MAIL
- METHOD OF DELIVERY THAT REQUIRES A RECEIPT OR SIGNATURE CONFIRMATION

Pursuant to W. Va. Code § 22-6A-10(b) no later than the filing date of the application, the applicant for a permit for any well work or for a certificate of approval for the construction of an impoundment or pit as required by this article shall deliver, by personal service or by registered mail or by any method of delivery that requires a receipt or signature confirmation, copies of the application, the erosion and sediment control plan required by section seven of this article, and the well plat to each of the following persons: (1) The owners of record of the surface of the tract on which the well is or is proposed to be located; (2) The owners of record of the surface tract or tracts overlying the oil and gas leasehold being developed by the proposed well work, if the surface tract is to be used for roads or other land disturbance as described in the erosion and sediment control plan submitted pursuant to subsection (c), section seven of this article; (3) The coal owner, operator or lessee, in the event the tract of land on which the well proposed to be drilled is located [sic] is known to be underlain by one or more coal seams; (4) The owners of record of the surface tract or tracts overlying the oil and gas leasehold being developed by the proposed well work, if the surface tract is to be used for the placement, construction, enlargement, alteration, repair, removal or abandonment of any impoundment or pit as described in section nine of this article; (5) Any surface owner or water purveyor who is known to the applicant to have a water well, spring or water supply source located within one thousand five hundred feet of the center of the well pad which is used to provide water for consumption by humans or domestic animals; and (6) The operator of any natural gas storage field within which the proposed well work activity is to take place. (c)(1) If more than three tenants in common or other co-owners of interests described in subsection (b) of this section hold interests in the lands, the applicant may serve the documents required upon the person described in the records of the sheriff required to be maintained pursuant to section eight, article one, chapter eleven-a of this code. (2) Notwithstanding any provision of this article to the contrary, notice to a lien holder is not notice to a landowner, unless the lien holder is the landowner. W. Va. Code R. § 35-8-5.7.a requires, in part, that the operator shall also provide the Well Site Safety Plan ("WSSP") to the surface owner and any water purveyor or surface owner subject to notice and water testing as provided in section 15 of this rule.

Application Notice WSSP Notice E&S Plan Notice Well Plat Notice is hereby provided to:

SURFACE OWNER(s)

Name: See Attached
Address: _____

Name: _____
Address: _____

SURFACE OWNER(s) (Road and/or Other Disturbance)

Name: See Attached
Address: _____

Name: _____
Address: _____

SURFACE OWNER(s) (Impoundments or Pits)

Name: See Attached
Address: _____

COAL OWNER OR LESSEE

Name: See Attached
Address: _____

COAL OPERATOR

Name: _____
Address: _____

SURFACE OWNER OF WATER WELL AND/OR WATER PURVEYOR(s)

Name: See Attached
Address: _____

OPERATOR OF ANY NATURAL GAS STORAGE FIELD

Name: _____
Address: _____

*Please attach additional forms if necessary

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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 Act Section 404 permit or other approval from the United States Army Corps of Engineers within any waters of the state or within the restricted areas referenced in this section. (d) The well location restrictions set forth in this section shall not apply to any well on a multiple well pad if at least one of the wells was permitted prior to the effective date of this article. (e) The secretary shall, by December 31, 2012, report to the Legislature on the noise, light, dust and volatile organic compounds generated by the drilling of horizontal wells as they relate to the well location restrictions regarding occupied dwelling structures pursuant to this section. Upon a finding, made by the secretary that the well location restrictions regarding occupied dwelling structures are inadequate or otherwise require regulations to address the items

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FEB 24 2017
WV Department of Environmental Protection
06/16/2017

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

Water Well Testing:

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

Water Testing Laboratories:

Pursuant to West Virginia Code § 22-6A-10(i), persons entitled to notice pursuant to subsection (b) of this section may contact the department to ascertain the names and locations of water testing laboratories in the subject area capable and qualified to test water supplies in accordance with standard accepted methods. In compiling that list of names the department shall consult with the state Bureau for Public Health and local health departments. A surface owner and water purveyor has an independent right to sample and analyze any water supply at his or her own expense. The laboratory utilized by the operator shall be approved by the agency as being certified and capable of performing sample analyses in accordance with this section.

Rebuttable Presumption for Contamination or Deprivation of a Fresh Water Source or Supply:

W. Va. Code § 22-6A-18 requires that (b) unless rebutted by one of the defenses established in subsection (c) of this section, in any action for contamination or deprivation of a fresh water source or supply within one thousand five hundred feet of the center of the well pad for horizontal well, there is a rebuttable presumption that the drilling and the oil or gas well or either was the proximate cause of the contamination or deprivation of the fresh water source or supply. (c) In order to rebut the presumption of liability established in subsection (b) of this section, the operator must prove by a preponderance of the evidence one of the following defenses: (1) The pollution existed prior to the drilling or alteration activity as determined by a predrilling or prealteration water well test. (2) The landowner or water purveyor refused to allow the operator access to the property to conduct a predrilling or prealteration water well test. (3) The water supply is not within one thousand five hundred feet of the well. (4) The pollution occurred more than six months after completion of drilling or alteration activities. (5) The pollution occurred as the result of some cause other than the drilling or alteration activity. (d) Any operator electing to preserve its defenses under subdivision (1), subsection (c) of this section shall retain the services of an independent certified laboratory to conduct the predrilling or prealteration water well test. A copy of the results of the test shall be submitted to the department and the surface owner or water purveyor in a manner prescribed by the secretary. (e) Any operator shall replace the water supply of an owner of interest in real property who obtains all or part of that owner's supply of water for domestic, agricultural, industrial or other legitimate use from an underground or surface source with a comparable water supply where the secretary determines that the water supply has been affected by contamination, diminution or interruption proximately caused by the oil or gas operation, unless waived in writing by that owner. (f) The secretary may order the operator conducting the oil or gas operation to: (1) Provide an emergency drinking water supply within twenty-four hours; (2) Provide temporary water supply within seventy-two hours; (3) Within thirty days begin activities to establish a permanent water supply or submit a proposal to the secretary outlining the measures and timetables to be used in establishing a permanent supply. The total time in providing a permanent water supply may not exceed two years. If the operator demonstrates that providing a permanent replacement water supply cannot be completed within two years, the secretary may extend the time frame on case-by-case basis; and (4) Pay all reasonable costs incurred by the real property owner in securing a water supply. (g) A person as described in subsection (b) of this section aggrieved under the provisions of subsections (b), (e) or (f) of this section may seek relief in court... (i) Notwithstanding the denial of the operator of responsibility for the damage to the real property owner's water supply or the status of any appeal on determination of liability for the damage to the real property owner's water supply, the operator may not discontinue providing the required water service until authorized to do so by the secretary or a court of competent jurisdiction.

Written Comment:

Pursuant to West Virginia Code § 22-6A-11(a), all persons described in subsection (b), section ten of this article may file written comments with the secretary as to the location or construction of the applicant's proposed well work within thirty days after the application is filed with the secretary. All persons described in West Virginia Code § 22-6A-10(b) may file written comments as to the location or construction of the applicant's proposed well work to the Secretary at:

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

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

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06/16/2017

Time Limits and Methods for Filing Comments.

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

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

Comment Requirements

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

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

Permit Denial or Condition

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

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

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

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

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06/16/2017

WW-6A
(8-13)

API NO. 47- 49 -
OPERATOR WELL NO. GLO168H21
Well Pad Name: GLO168

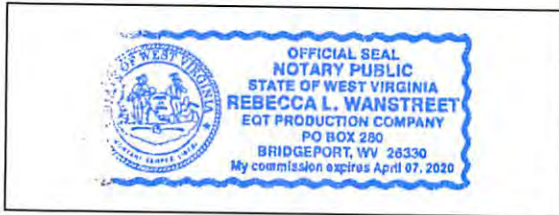
Notice is hereby given by:

Well Operator: EQT Production Company
Telephone: 304-848-0076
Email: vroark@eqt.com

Address: 115 Professional Place PO Box 280
Bridgeport WV 26330
Facsimile: 304-848-0041

Oil and Gas Privacy Notice:

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



[Handwritten Signature]

Subscribed and sworn before me this 21 day of February 2017.

Rebecca L. Wanstreet Notary Public

My Commission Expires 4-7-2020

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06/16/2017

Topo Quad: Glover Gap

Scale: 1" = 1000'

County: Marion

Date: September 28, 2016

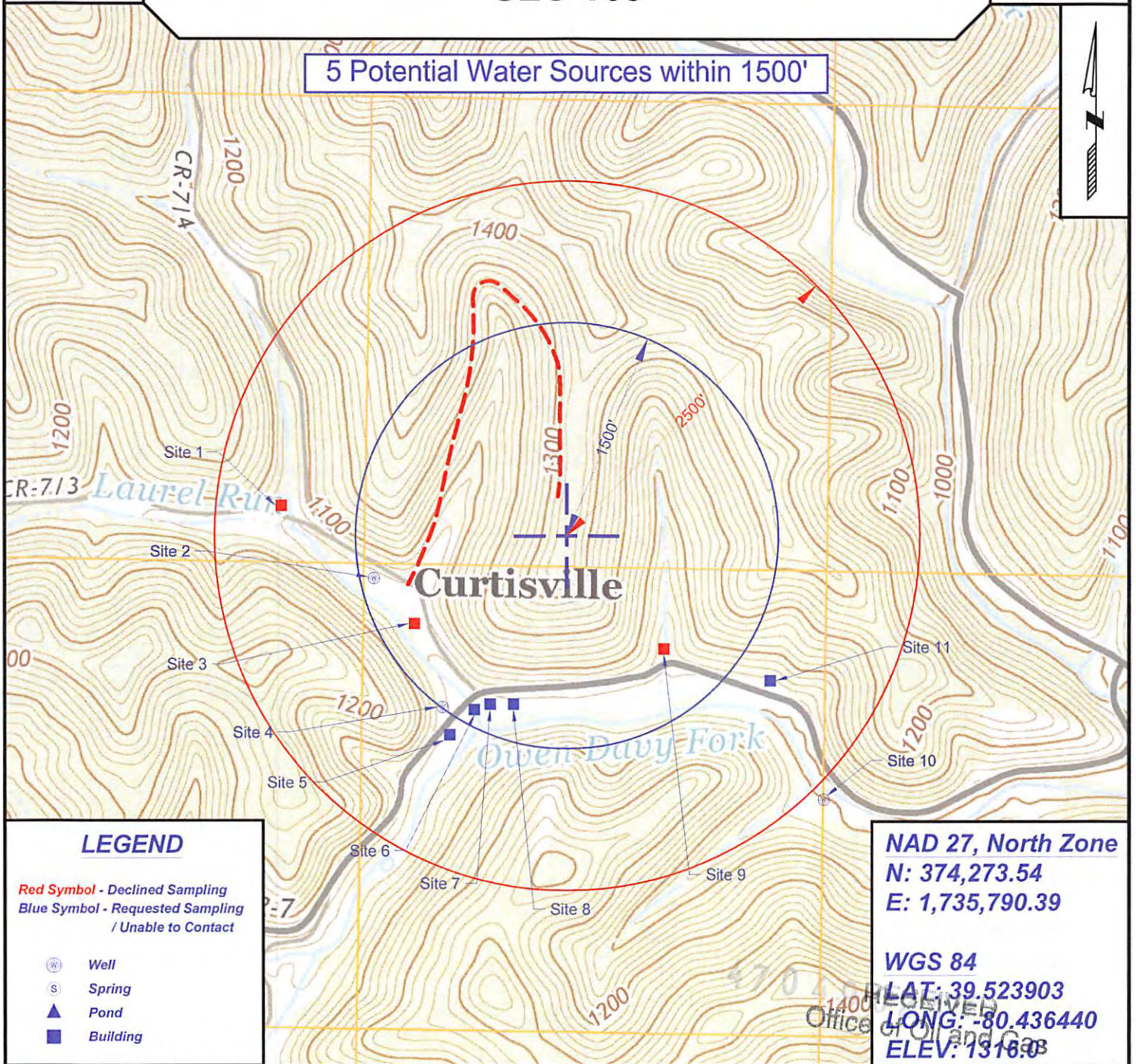
District: Mannington

Project No: 11-18-M-16

Water

GLO 168

5 Potential Water Sources within 1500'



SURVEYING AND MAPPING SERVICES PERFORMED BY:

ALLEGHENY SURVEYS, INC.

1-800-482-8606
 237 Birch River Road
 Birch River, WV 26610
 PH: (304) 649-8606
 FAX: (304) 649-8608

PREPARED FOR:

EQT Production Company

Department of
 Environmental Protection
 P.O. Box 280
 Bridgeport, WV 26330

FEB 24 2017

06/16/2017

Surface Owners:

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

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

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

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<input type="checkbox"/> Adult Signature Restricted Delivery	\$
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Sent To	Thomas B. Wright Heirs
Street Address	c/o Martha Arnold
City, State	818 Gaston Ave.
	Fairmont WV 26554
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Total Paid	\$
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City, State	11 Hutchinson Dr.
	Fairmont WV 26554
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Surface Owners Access road & Other disturbance

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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

8704902445

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<input type="checkbox"/> Adult Signature Required	\$
<input type="checkbox"/> Adult Signature Restricted Delivery	\$
Postage	\$
Total P	\$

Sent To
Thomas B. Wright Heirs
c/o Martha Arnold
818 Gaston Ave.
Fairmont WV 26554
GLO168 Permit App. and Planned Op.

City, St
Fairmont WV

PS Form 3849, June 2012

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<input type="checkbox"/> Return Receipt (electronic)	\$
<input type="checkbox"/> Certified Mail Restricted Delivery	\$
<input type="checkbox"/> Adult Signature Required	\$
<input type="checkbox"/> Adult Signature Restricted Delivery	\$
Postage	\$
Total P	\$

Sent To
Joseph V Forte, John H Musgrave, Matilda Henry
c/o Joseph Forte
11 Hutchinson Dr.
Fairmont WV 26554
GLO168 Permit App and Planned Op.

City, St
Fairmont WV

PS Form 3849, June 2012

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Surface Owner, AST

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

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



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<input type="checkbox"/> Certified Mail Restricted Delivery	\$
<input type="checkbox"/> Adult Signature Required	\$
<input type="checkbox"/> Adult Signature Restricted Delivery	\$

Postage \$
Total P \$

Sent To: Joseph V Forte, John H Musgrave, Matilda Henry
c/o Joseph Forte
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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

7015 0640 0005 9572 4902
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<input type="checkbox"/> Certified Mail Restricted Delivery	\$
<input type="checkbox"/> Adult Signature Required	\$
<input type="checkbox"/> Adult Signature Restricted Delivery	\$
Postage	\$
Total Postage	\$

Sent To: Consol Mining Company
 Engineering Operations Support Dept. Coal
 1000 Consol Energy Drive
 Canonsburg PA 15317
 GLO168 Permit App.

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PS Form 3800, April 2012 PSN 7530-02-000-9000

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<input type="checkbox"/> Certified Mail Restricted Delivery	\$
<input type="checkbox"/> Adult Signature Required	\$
<input type="checkbox"/> Adult Signature Restricted Delivery	\$
Postage	\$
Total Postage and Fees	\$

Sent To: Consolidation Coal Company (OH)
 c/o Murray American Energy Corporation
 46226 National Road
 St. Clairsville OH 43950
 GLO168 Permit App.

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PS Form 3800, April 2012 PSN 7530-02-000-9000

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<input type="checkbox"/> Certified Mail Restricted Delivery	\$
<input type="checkbox"/> Adult Signature Required	\$
<input type="checkbox"/> Adult Signature Restricted Delivery	\$
Postage	\$
Total Postage	\$

Sent To: Consolidation Coal Company
 c/o Murray American Energy Corporation
 1 Bridge Street
 Monongah WV 26554
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<input type="checkbox"/> Certified Mail Restricted Delivery	\$
<input type="checkbox"/> Adult Signature Required	\$
<input type="checkbox"/> Adult Signature Restricted Delivery	\$
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Sent To: Legacy Minerals, LLC
 PO Box 23298
 Pittsburgh PA 15222-2006
 GLO168 Permit App.

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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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<input type="checkbox"/> Adult Signature Required	\$
<input type="checkbox"/> Adult Signature Restricted Delivery	\$
Postage	\$
Total F	\$

Sent To: CNX Gas Company LLC
Street: Engineering Operations Support Dept. Coal
City, St: 1000 Consol Energy Drive
Canonsburg PA 15317
PS Fo: GLO168 Permit App.

Official Receipt

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2

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

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Roger Eshelman
69 Lykac Road
Mannington, WV 26582
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Gary Earl
23 Lylac Road
Mannington, WV 26582
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Harlen Batson
484 Curtisville Road
Mannington, WV 26582
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Jason Batson
471 Curtisville, Road
Mannington, WV 26582
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06/16/2017

①

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

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<input type="checkbox"/> Adult Signature Required	\$ _____
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Postage
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Total P
\$ _____

Sent To
Street
City, St
PS Form

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Rick Lambert
459 Curtisville Road
Mannington, WV 26582
GLO168 Permit App

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Postage
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City, St
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Perry Thorne/Eric Efaw
93 Curtisville Road
Mannington, WV 26582
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Sent To
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PS Form

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Judith Myers
1032 Plum Run Road
Mannington, WV 26582
GLO168 Permit App

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Instructions

WV Department of Environmental Protection
06/16/2017

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 **FORTY-FIVE (45)** days prior to entry.

Date of Notice: 12/4/2015

Date of Planned Entry: 12/11/2015

Delivery method pursuant to West Virginia Code § 22-6A-10(a):

PERSONAL SERVICE CERTIFIED MAIL METHOD OF DELIVERY THAT REQUIRES A RECEIPT OR SIGNATURE CONFIRMATION

Pursuant to West Virginia Code § 22-6A-10(a), prior to filing a permit application, the operator shall provide notice of planned entry on to the surface tract to conduct any plat surveys required pursuant to this article. Such notice shall be provided at least seven days but no more than forty-five days prior to such entry to: (1) The surface owner of such tract; (2) to any owner or lessee of coal seams beneath such tract that has filed a declaration pursuant to section thirty-six, article six, chapter twenty-two of this code; and (3) any owner of minerals underlying such tract in the county tax records. The notice shall include a statement that copies of the state Erosion and Sediment Control Manual and the statutes and rules related to oil and gas exploration and production may be obtained from the Secretary, which statement shall include contact information, including the address for a web page on the Secretary's web site, to enable the surface owner to obtain copies from the secretary.

Notice is hereby provided to:

SURFACE OWNER

Name: Joseph Forte
(John H. Musgrave & Joseph V. Forte)

Address: 11 Hutchinson Drive, Fairmont, WV 26554

Name: _____

Address: _____

Name: _____

Address: _____

COAL OWNER OR LESSEE

Name: _____

Address: _____

MINERAL OWNER(S)

Name: _____

Address: _____

Name: _____

Address: _____

*Please attach additional forms if necessary

Notice is hereby given:

Pursuant to West Virginia Code § 22-6A-10(a), notice is hereby given that the undersigned well operator is planning entry to conduct a plat survey on the tract of land as follows:

State: WV

County: Marion

District: Mannington, Tax Map 49, Parcel 39

Quadrangle: Glover Gap

Approx. Latitude & Longitude: 39.52384/-80.43652

Public Road Access: CR 7/3 & 7 (Lylac & Curtisville Rds.)

Watershed: Laurel Run

Generally Used Farm Name: Musgrave

Copies of the state Erosion and Sediment Control Manual and the statutes and rules related to oil and gas exploration and production 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). Copies of such documents or additional information related to horizontal drilling may be obtained from the Secretary by visiting www.dep.wv.gov/oil-and-gas/pages/default.aspx.

Notice is hereby given by:

Well Operator: EQT Production Company

Telephone: 304-848-0074

Facsimile: 304-848-0040

Email: EQTLandEntryNotice@eqt.com

Address: 115 Professional Place, Bridgeport, WV 26330

EQT Representative: Jamie L. Barbour

Signature: _____

FEB 24 2017

Oil and Gas Privacy Notice:

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

RECEIVED
Office of Oil and Gas
WV Department of Environmental Protection
06/10/2017

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 **FORTY-FIVE (45)** days prior to entry.

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Date of Planned Entry: 12/11/2015

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Notice is hereby provided to:

SURFACE OWNER

Joseph Forte
(John H. Musgrave, Joseph V. Forte & Matilda ✓)
Name: Henry

Address: 11 Hutchinson Drive, Fairmont, WV 26554

Name: _____

Address: _____

Name: _____

Address: _____

COAL OWNER OR LESSEE

Name: _____

Address: _____

Name: _____

Address: _____

Name: _____

Address: _____

*Please attach additional forms if necessary

Notice is hereby given:

Pursuant to West Virginia Code § 22-6A-10(a), notice is hereby given that the undersigned well operator is planning entry to conduct a plat survey on the tract of land as follows:

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 and the statutes and rules related to oil and gas exploration and production 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). Copies of such documents or additional information related to horizontal drilling may be obtained from the Secretary by visiting www.dep.wv.gov/oil-and-gas/pages/default.aspx.

Notice is hereby given by:

Well Operator: EQT Production Company

Address: 115 Professional Plaza, Bridgeport, WV 26330

Telephone: 304-848-0074

EQT Representative: Jamie I. Barbour

Facsimile: 304-848-0040

Email: EQTLandEntryNotice@eqt.com

Signature: [Handwritten Signature]

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

Oil and Gas Privacy Notice:

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

06/16/2017

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 **FORTY-FIVE (45)** days prior to entry.

Date of Notice: 12/4/2015

Date of Planned Entry: 12/11/2015

Delivery method pursuant to West Virginia Code § 22-6A-10(a):

PERSONAL SERVICE CERTIFIED MAIL METHOD OF DELIVERY THAT REQUIRES A RECEIPT OR SIGNATURE CONFIRMATION

Pursuant to West Virginia Code § 22-6A-10(a), prior to filing a permit application, the operator shall provide notice of planned entry on to the surface tract to conduct any plat surveys required pursuant to this article. Such notice shall be provided at least seven days but no more than forty-five days prior to such entry to: (1) The surface owner of such tract; (2) to any owner or lessee of coal seams beneath such tract that has filed a declaration pursuant to section thirty-six, article six, chapter twenty-two of this code; and (3) any owner of minerals underlying such tract in the county tax records. The notice shall include a statement that copies of the state Erosion and Sediment Control Manual and the statutes and rules related to oil and gas exploration and production may be obtained from the Secretary, which statement shall include contact information, including the address for a web page on the Secretary's web site, to enable the surface owner to obtain copies from the secretary.

Notice is hereby provided to:

SURFACE
Name: Thomas B. Wright
c/o Martha Arnold
Address: 808 Gaston Ave., Fairmont, WV 26554
Name: _____
Address: _____
Name: _____
Address: _____

COAL OWNER OR LESSEE
Name: _____
Address: _____
 MINERAL OWNER(S)
Name: _____
Address: _____

*Please attach additional forms if necessary

Notice is hereby given:

Pursuant to West Virginia Code § 22-6A-10(a), notice is hereby given that the undersigned well operator is planning entry to conduct a plat survey on the tract of land as follows:

State: <u>WV</u>	Approx. Latitude & Longitude: <u>39.52384/-80.43652</u>
County: <u>Marion</u>	Public Road Access: <u>CR 7/3 (Lylac Road)</u>
District: <u>Mannington/Tax Map 49 Parcel 38</u>	Watershed: <u>Laurel Run</u>
Quadrangle: <u>Glover Gap</u>	Generally Used Farm Name: <u>Wright</u>

Copies of the state Erosion and Sediment Control Manual and the statutes and rules related to oil and gas exploration and production 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). Copies of such documents or additional information related to horizontal drilling may be obtained from the Secretary by visiting www.dep.wv.gov/oil-and-gas/pages/default.aspx.

Notice is hereby given by:

Well Operator: EQT Production Company
Telephone: 304-848-0074
Facsimile: 304-848-0040
Email: EQTLandEntryNotice@eqt.com

Address: 115 Professional Place, Bridgeport, WV 26330
EQT Representative: Jamie I. Barbour
Signature: Jamie I. Barbour

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 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.

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Office of Oil and Gas
FEB 24 2017
WV Department of Environmental Protection
06/16/2017

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 **FORTY-FIVE (45)** days prior to entry.

Date of Notice: 12/4/2015

Date of Planned Entry: 12/11/2015

Delivery method pursuant to West Virginia Code § 22-6A-10(a):

PERSONAL SERVICE CERTIFIED MAIL METHOD OF DELIVERY THAT REQUIRES A RECEIPT OR SIGNATURE CONFIRMATION

Pursuant to West Virginia Code § 22-6A-10(a), prior to filing a permit application, the operator shall provide notice of planned entry on to the surface tract to conduct any plat surveys required pursuant to this article. Such notice shall be provided at least seven days but no more than forty-five days prior to such entry to: (1) The surface owner of such tract; (2) to any owner or lessee of coal seams beneath such tract that has filed a declaration pursuant to section thirty-six, article six, chapter twenty-two of this code; and (3) any owner of minerals underlying such tract in the county tax records. The notice shall include a statement that copies of the state Erosion and Sediment Control Manual and the statutes and rules related to oil and gas exploration and production may be obtained from the Secretary, which statement shall include contact information, including the address for a web page on the Secretary's web site, to enable the surface owner to obtain copies from the secretary.

Notice is hereby provided to:

SURFACE OWNER
Name: _____

Address: _____

Name: _____

Address: _____

Name: _____

Address: _____

COAL OWNER OR LESSEE ✓
Name: Consolidation Coal Co.

Engineering and Operations Support Coal Dept.
CNX Center, 1000 Consol Energy Drive
Address: Canonsburg, PA 15317-6506

MINERAL OWNER(S)
Name: _____

Address: _____

Name: _____

Address: _____

*Please attach additional forms if necessary

Notice is hereby given:

Pursuant to West Virginia Code § 22-6A-10(a), notice is hereby given that the undersigned well operator is planning entry to conduct a plat survey on the tract of land as follows:

State: WV
County: Marion
District: Mannington, Tax Map 49, Parcels 39 & 39.1
Quadrangle: Glover Gap

Approx. Latitude & Longitude: 39.52384/-80.43652
Public Road Access: CR 7/3 & 7 (Lylac & Curtisville Rds.)
Watershed: Laurel Run
Generally Used Farm Name: Musgrave

Copies of the state Erosion and Sediment Control Manual and the statutes and rules related to oil and gas exploration and production 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). Copies of such documents or additional information related to horizontal drilling may be obtained from the Secretary by visiting www.dep.wv.gov/oil-and-gas/pages/default.aspx.

Notice is hereby given by:

Well Operator: EQT Production Company
Telephone: 304-848-0074
Facsimile: 304-848-0040
Email: EQTLandEntryNotice@eqt.com

Address: 115 Professional Place, Bridgeport, WV 26330
EQT Representative: Jamie I. Barbour

Signature: *Jamie I. Barbour*

Oil and Gas Privacy Notice:

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

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Office of Oil and Gas
FEB 24 2017
WV Department of Environmental Protection
08/16/2017

**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 FORTY-FIVE (45) days prior to entry.

Date of Notice: 12/4/2015

Date of Planned Entry: 12/11/2015

Delivery method pursuant to West Virginia Code § 22-6A-10(a):

PERSONAL SERVICE CERTIFIED MAIL METHOD OF DELIVERY THAT REQUIRES A RECEIPT OR SIGNATURE CONFIRMATION

Pursuant to West Virginia Code § 22-6A-10(a), prior to filing a permit application, the operator shall provide notice of planned entry on to the surface tract to conduct any plat surveys required pursuant to this article. Such notice shall be provided at least seven days but no more than forty-five days prior to such entry to: (1) The surface owner of such tract; (2) to any owner or lessee of coal seams beneath such tract that has filed a declaration pursuant to section thirty-six, article six, chapter twenty-two of this code; and (3) any owner of minerals underlying such tract in the county tax records. The notice shall include a statement that copies of the state Erosion and Sediment Control Manual and the statutes and rules related to oil and gas exploration and production may be obtained from the Secretary, which statement shall include contact information, including the address for a web page on the Secretary's web site, to enable the surface owner to obtain copies from the secretary.

Notice is hereby provided to:

SURFACE OWNER
Name: _____
Address: _____
Name: _____
Address: _____
Name: _____
Address: _____

COAL OWNER OR LESSEE
Name: Murray American Energy, Inc.
Attn.: Troy Freels
1 Bridge Street
Address: Monongah, WV-26554
 MINERAL OWNER(S)
Name: _____
Address: _____
Name: _____
Address: _____

*Please attach additional forms if necessary

Notice is hereby given:

Pursuant to West Virginia Code § 22-6A-10(a), notice is hereby given that the undersigned well operator is planning entry to conduct a plat survey on the tract of land as follows:

State: <u>WV</u>	Approx. Latitude & Longitude: <u>39.52384/-80.43652</u>
County: <u>Marion</u>	Public Road Access: <u>CR 7/3 & 7 (Lylac & Curtisville Rds.)</u>
District: <u>Mannington, Tax Map 49, Parcels 39 & 39.1</u>	Watershed: <u>Laurel Run</u>
Quadrangle: <u>Glover Gap</u>	Generally Used Farm Name: <u>Musgrave</u>

Copies of the state Erosion and Sediment Control Manual and the statutes and rules related to oil and gas exploration and production 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). Copies of such documents or additional information related to horizontal drilling may be obtained from the Secretary by visiting www.dep.wv.gov/oil-and-gas/pages/default.aspx.

Notice is hereby given by:

Well Operator: EQT Production Company
Telephone: 304-848-0074
Facsimile: 304-848-0040
Email: EQTLandEntryNotice@eqt.com

Address: 115 Professional Place, Bridgeport, WV 26330
EQT Representative: Jamie J. Barbo
Signature: *Jamie J. Barbo*

Oil and Gas Privacy Notice:

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

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Office of Oil and Gas
FEB 24 2017
WV Department of Environmental Protection
06/06/2017

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

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

Notice Time Requirement: Notice shall be provided at least TEN (10) days prior to filing a permit application.

Date of Notice: 2/21/17 **Date Permit Application Filed:** 2/21/17

Delivery method pursuant to West Virginia Code § 22-6A-16(b)

HAND DELIVERY **CERTIFIED MAIL RETURN RECEIPT REQUESTED**

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

Notice is hereby provided to the SURFACE OWNER(s):

Name: see attached
Address: _____

Name: _____
Address: _____

Notice is hereby given:

Pursuant to West Virginia Code § 22-6A-16(b), notice is hereby given that the undersigned well operator has an intent to enter upon the surface owner's land for the purpose of drilling a horizontal well on the tract of land as follows:

State:	<u>West Virginia</u>	UTM NAD 83	Easting:	<u>548,424.53</u>
County:	<u>Marion</u>		Northing:	<u>4,375,068.45</u>
District:	<u>Mannington</u>	Public Road Access:	<u>Co Rt. 7/4</u>	
Quadrangle:	<u>Glover Gap</u>	Generally used farm name:	<u>Equitrans LP.</u>	
Watershed:	<u>Laurel Run</u>			

This Notice Shall Include:

Pursuant to West Virginia Code § 22-6A-16(b), this notice 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. 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.

Notice is hereby given by:

Well Operator: EQT Production Company
Address: 115 Professional Place
Bridgeport, WV 26330
Telephone: 304-848-0082
Email: vroark@eqt.com
Facsimile: 304-848-0020

Authorized Representative: Victoria J. Roark
Address: 115 Professional Place
Bridgeport, WV 26330
Telephone: 304-848-0076
Email: vroark@eqt.com
Facsimile: 304-848-0020

Oil and Gas Privacy Notice:

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

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Office of Oil and Gas
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WV Department of
Environmental Protection
06/16/2017

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

WAIVER

Pursuant to W. Va. Code § 22-6A-16(b), at least ten days prior to filing a permit application, an operator shall, by certified mail return receipt requested or hand delivery, give the surface owner notice of its intent to enter upon the surface owner's land for the purpose of drilling a horizontal well: *Provided*, That notice given pursuant to subsection (a), section ten of this article satisfies the requirements of this subsection as of the date the notice was provided to the surface owner: *Provided, 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.

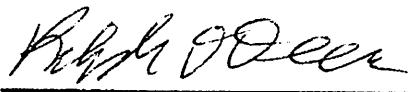

Surface Owner Waiver:

I, Ralph Deer, hereby state that I have read the notice provisions listed above and hereby waive the notice requirements under West Virginia Code § 22-6A-16(b) for the tract of land as follows:

State: WV
County: Marion
District: Mannington
Quadrangle: Glover Gap
Watershed: Laurel Run

UTM NAD 83 Easting: 548424.53
Northing: 4375068.45
Public Road Access: C/O Rt 714
Generally used farm name: Equitrans LP

Name: Equitrans LP
Address: 625 Liberty Ave Suite 1700
Pittsburgh PA 15222

Signature: 
Date: 2/21/17 

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.

22-6A-16(b)

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FEB 24 2017
WV Department of
Environmental Protection
06/16/2017

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

Notice Time Requirement: notice shall be provided no later than the **filing date of permit application.**

Date of Notice: 2/21/17 **Date Permit Application Filed:** 2/21/17

Delivery method pursuant to West Virginia Code § 22-6A-16(c)

- CERTIFIED MAIL HAND
RETURN RECEIPT REQUESTED DELIVERY

Pursuant to W. Va. Code § 22-6A-16(c), no later than the date for filing the permit application, an operator shall, by certified mail return receipt requested or hand delivery, give the surface owner whose land will be used for the drilling of a horizontal well notice of the planned operation. The notice required by this subsection shall include: (1) A copy of this code section; (2) The information required to be provided by subsection (b), section ten of this article to a surface owner whose land will be used in conjunction with the drilling of a horizontal well; and (3) A proposed surface use and compensation agreement containing an offer of compensation for damages to the surface affected by oil and gas operations to the extent the damages are compensable under article six-b of this chapter. (d) The notices required by this section shall be given to the surface owner at the address listed in the records of the sheriff at the time of notice.

Notice is hereby provided to the SURFACE OWNER(s)

(at the address listed in the records of the sheriff at the time of notice):

Name: <u>See Attached</u>	Name: _____
Address: _____	Address: _____
_____	_____

Notice is hereby given:

Pursuant to West Virginia Code § 22-6A-16(c), notice is hereby given that the undersigned well operator has developed a planned operation on the surface owner's land for the purpose of drilling a horizontal well on the tract of land as follows:

State: <u>WV</u>	UTM NAD 83	Easting: <u>548424.53</u>
County: <u>Marion</u>		Northing: <u>4375068.45</u>
District: <u>Mannington</u>	Public Road Access: <u>C/O Rt 7/4</u>	
Quadrangle: <u>Glover Gap</u>	Generally used farm name: <u>Equitrans LP</u>	
Watershed: <u>Laurel Run</u>		

This Notice Shall Include:

Pursuant to West Virginia Code § 22-6A-16(c), this notice shall include: (1) A copy of this code section; (2) The information required to be provided by **W. Va. Code § 22-6A-10(b)** to a surface owner whose land will be used in conjunction with the drilling of a horizontal well; and (3) A proposed surface use and compensation agreement containing an offer of compensation for damages to the surface affected by oil and gas operations to the extent the damages are compensable under article six-b of this chapter. 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 Operator: <u>EQT Production Company</u>	Address: <u>115 Professional Place PO Box 280</u>
Telephone: <u>304-848-0076</u>	<u>Bridgeport WV 26330</u>
Email: <u>wroark@eqt.com</u>	Facsimile: <u>304-848-0041</u>

Oil and Gas Privacy Notice:

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FEB 24 2017
WV Department of
Environmental Protection
06/16/2017

Surface Owners:

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

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

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

470490244

7036 2070 0001 0947 9069

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Certified Mail Fee \$	Postmark Here
Extra Services & Fees (check box, add fee as appropriate)	
<input type="checkbox"/> Return Receipt (hardcopy) \$	
<input type="checkbox"/> Return Receipt (electronic) \$	
<input type="checkbox"/> Certified Mail Restricted Delivery \$	
<input type="checkbox"/> Adult Signature Required \$	
<input type="checkbox"/> Adult Signature Restricted Delivery \$	
Postage \$	
Total P \$	
Sent To Street City, St	Thomas B. Wright Heirs c/o Martha Arnold 818 Gaston Ave. Fairmont WV 26554
PS Form	GLO168 Permit App. and Planned Op. Instructions

7036 2070 0001 0947 9076

U.S. Postal Service™ CERTIFIED MAIL® RECEIPT Domestic Mail Only	
For delivery information, visit our website at www.usps.com ®.	
OFFICIAL USE	
Certified Mail Fee \$	Postmark Here
Extra Services & Fees (check box, add fee as appropriate)	
<input type="checkbox"/> Return Receipt (hardcopy) \$	
<input type="checkbox"/> Return Receipt (electronic) \$	
<input type="checkbox"/> Certified Mail Restricted Delivery \$	
<input type="checkbox"/> Adult Signature Required \$	
<input type="checkbox"/> Adult Signature Restricted Delivery \$	
Postage \$	
Total P \$	
Sent To Street City, St	Joseph V Forte, John H Musgrave, Matilda Henry c/o Joseph Forte 11 Hutchinson Dr. Fairmont WV 26554
PS Form	GLO168 Permit App and Planned Op. Instructions

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Office of Oil and Gas

FEB 24 2017

WV Department of
Environmental Protection
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

470 9902445

7016 2070 0001 0947 9069

U.S. Postal Service™
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OFFICIAL USE

Certified Mail Fee	\$
Extra Services & Fees (check box, add fee as appropriate)	
<input type="checkbox"/> Return Receipt (hardcopy)	\$
<input type="checkbox"/> Return Receipt (electronic)	\$
<input type="checkbox"/> Certified Mail Restricted Delivery	\$
<input type="checkbox"/> Adult Signature Required	\$
<input type="checkbox"/> Adult Signature Restricted Delivery	\$
Postage	\$
Total P	\$
Sent To	Thomas B. Wright Heirs
Street	c/o Martha Arnold
City, St	818 Gaston Ave.
	Fairmont WV 26554
PS For	GLO168 Permit App. and Planned Op.

Postmark Here

Instructions

7016 2070 0001 0947 9076

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

For delivery information, visit our website at www.usps.com®.

OFFICIAL USE

Certified Mail Fee	\$
Extra Services & Fees (check box, add fee as appropriate)	
<input type="checkbox"/> Return Receipt (hardcopy)	\$
<input type="checkbox"/> Return Receipt (electronic)	\$
<input type="checkbox"/> Certified Mail Restricted Delivery	\$
<input type="checkbox"/> Adult Signature Required	\$
<input type="checkbox"/> Adult Signature Restricted Delivery	\$
Postage	\$
Total P	\$
Sent To	Joseph V Forte, John H Musgrave, Matilda Henry
Street	c/o Joseph Forte
City, St	11 Hutchinson Dr.
	Fairmont WV 26554
PS For	GLO168 Permit App and Planned Op.

Postmark Here

Instructions

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Office of Oil and Gas

FEB 24 2017

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

7016 2070 0001 0947 9076

U.S. Postal Service™
CERTIFIED MAIL® RECEIPT
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For delivery information, visit our website at www.usps.com®.

OFFICIAL USE

Certified Mail Fee	\$
Extra Services & Fees (check box, add fee as appropriate)	
<input type="checkbox"/> Return Receipt (hardcopy)	\$
<input type="checkbox"/> Return Receipt (electronic)	\$
<input type="checkbox"/> Certified Mail Restricted Delivery	\$
<input type="checkbox"/> Adult Signature Required	\$
<input type="checkbox"/> Adult Signature Restricted Delivery	\$

Postage \$

Total P \$

Sent To: Joseph V Forte, John H Musgrave, Matilda Henry
c/o Joseph Forte
11 Hutchinson Dr.
Fairmont WV 26554
GLO168 Permit App and Planned Op.

PS Form 3800, June 2012

Postmark Here FEB 2 2017

Instructions

97049024

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Office of Oil and Gas
FEB 24 2017
WV Department of
Environmental Protection
06/16/2017

WW-6AW
(1-12)

API NO. 47- 49
OPERATOR WELL NO. GLO168H21
Well Pad Name: GLO168

STATE OF WEST VIRGINIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS
VOLUNTARY STATEMENT OF NO OBJECTION

Instructions to Persons Named on Page WW-6A

The well operator named on page WW-6A is applying for a permit from the State of West Virginia to conduct oil or gas well work. Well work permits are valid for twenty-four (24) months. Please contact the listed well operator and the Office of Oil and Gas if you do not own any interest in the listed surface tract.

Comment and Waiver Provisions

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

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

VOLUNTARY STATEMENT OF NO OBJECTION

I, Ralph Deer, hereby state that I have read the Instructions to Persons Named on Page WW-6A and the associated provisions listed above, and that I have received copies of a Notice of Application, an Application for a Well Work Permit on Form WW-6A and attachments consisting of pages one (1) through _____, including the erosion and sediment control plan, if required, and the well plat, all for proposed well work on the tract of land as follows:

State: <u>WV</u>	UTM NAD 83 Easting: <u>548424 53</u>
County: <u>Morton</u>	Northing: <u>4375088 45</u>
District: <u>Mannington</u>	Public Road Access: <u>C/D Rt 7/4</u>
Quadrangle: <u>Glover Gap</u>	Generally used farm name: <u>Equitrans LP</u>
Watershed: <u>Laurel Run</u>	

I further state that I have no objection to the planned work described in these materials, and I have no objection to a permit being issued on those materials.

<p>*Please check the box that applies</p> <p><input checked="" type="checkbox"/> SURFACE OWNER</p> <p><input checked="" type="checkbox"/> SURFACE OWNER (Road and/or Other Disturbance)</p> <p><input checked="" type="checkbox"/> SURFACE OWNER (Impoundments/Pits)</p> <p><input type="checkbox"/> COAL OWNER OR LESSEE</p> <p><input type="checkbox"/> COAL OPERATOR</p> <p><input type="checkbox"/> WATER PURVEYOR</p> <p><input type="checkbox"/> OPERATOR OF ANY NATURAL GAS STORAGE FIELD</p>	<p>FOR EXECUTION BY A NATURAL PERSON</p> <p>Signature: _____</p> <p>Print Name: _____</p> <p>Date: _____</p> <p>FOR EXECUTION BY A CORPORATION, ETC.</p> <p>Company: <u>Equitrans LP</u></p> <p>By: <u>Ralph Deer</u></p> <p>Its: <u>VP Land</u></p> <p>Signature: <u><i>Ralph Deer</i></u></p> <p>Date: <u>2/21/17</u></p>
------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

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 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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FEB 24 2017

WV Department of
Environmental Protection
06/16/2017



WEST VIRGINIA DEPARTMENT OF TRANSPORTATION
Division of Highways

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

Jim Justice
Governor

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

February 17, 2017

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

Subject: DOH Permit for the GLO 168 Pad Site, Marion County

GLO168H1	GLO168H2	GLO168H3	GLO168H4
GLO168H5	GLO168H6	GLO168H7	GLO168H8
GLO168H9	GLO168H10	GLO168H11	GLO168H12
GLO168H13	GLO168H14	GLO168H15	GLO168H16
GLO168H17	GLO168H18	GLO168H19	GLO168H20
GLO168H21	GLO168H22	GLO168H23	GLO168H24

44-02445

Dear Mr. Martin,

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

Cc: Nick Bumgardner
EQT Production Company
CH, OM, D-4, File

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WV Department of
Environmental Protection

Anticipated Frac Additives
Chemical Names and CAS numbers

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



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WV Department of
Environmental Protection

06/16/2017

GLO 168 WELL PAD FINAL SITE DESIGN



Allegheny Surveys Inc.
 P.O. Box 438
 237 Birch River Road
 Birch River, WV 26610
 304-649-8606



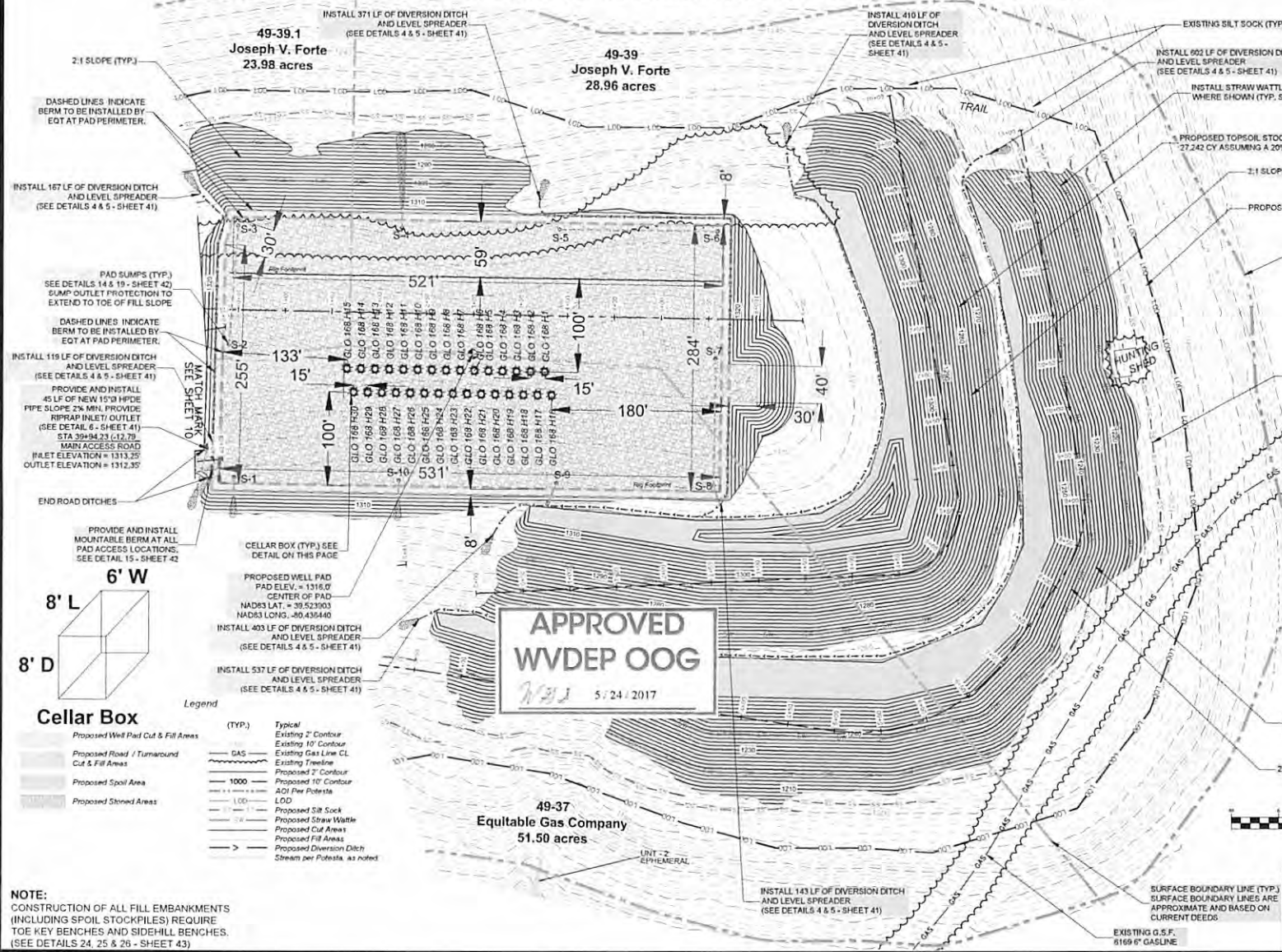
Hornor Bros. Engineers
 Since 1908
 Civil, Mining, Environmental and
 Consulting Engineering
 1000 Main Street, Suite 200
 Martinsburg, WV 26001
 304-261-1111



EQT
 Energy Services Company

THIS DOCUMENT
 PREPARED FOR
 EQT PRODUCTION
 COMPANY

FINAL SITE DESIGN
**GLO 168
 WELL PAD SITE**
 MORGANTHAU DISTRICT
 MORGANTHAU COUNTY, WV



INSTALL 371 LF OF DIVERSION DITCH AND LEVEL SPREADER (SEE DETAILS 4 & 5 - SHEET 41)

INSTALL 410 LF OF DIVERSION DITCH AND LEVEL SPREADER (SEE DETAILS 4 & 5 - SHEET 41)

EXISTING SILT SOCK (TYP.)

INSTALL 902 LF OF DIVERSION DITCH AND LEVEL SPREADER (SEE DETAILS 4 & 5 - SHEET 41)

INSTALL STRAW WATTLES WHERE SHOWN (TYP. SEE DETAIL 3 - SHEET 41)

PROPOSED TOPSOIL STOCKPILE 27,242 CY ASSUMING A 20% SWELL FACTOR

2:1 SLOPE (TYP.)

PROPOSED LIMIT OF DISTURBANCE (TYP.)

AOI PER POTESTA (TYP.)

INSTALL SILT SOCK WHERE SHOWN (TYP. SEE DETAIL 10 - SHEET 42)

NOTES:

1. THE ACCESS ROAD ALIGNMENT WAS RELOCATED 15' - 25' IN A WESTERLY AND NORTHERLY DIRECTION FROM STATION 0+00 - 23+50 TO TRY TO USE 1H TO 1V SLOPES TO THE EXTENT POSSIBLE. ACTUAL FIELD CONDITIONS WILL DICTATE THIS USE.
2. IT IS RECOMMENDED THAT THE GEOTECHNICAL ENGINEER BE PRESENT TO OBSERVE AND MONITOR THE CONSTRUCTION OF THE CUT AND FILL SLOPES.
3. PERIODIC MAINTENANCE OF ALL 1H TO 1V SLOPES MAY BE REQUIRED TO REMOVE MATERIALS THAT MIGRATE INTO THE DITCHES.

PROPOSED EXCESS MATERIAL STOCKPILE 7 24,855 CY ASSUMING A 20% SWELL FACTOR

2:1 SLOPE (TYP.)

GRAPHIC SCALE
 1" = 50' FT.

DATE: 12/07/2016
 REVISIONS: UPDATE TOP ROAD LOCATIONS
 Scale: 1"=50'
 Drawn By: TIC
 Date: 11 of 40

2:1 SLOPE (TYP.)

DASHED LINES INDICATE BERM TO BE INSTALLED BY EQT AT PAD PERIMETER.

INSTALL 167 LF OF DIVERSION DITCH AND LEVEL SPREADER (SEE DETAILS 4 & 5 - SHEET 41)

PAD SUMPS (TYP.) SEE DETAILS 14 & 15 - SHEET 42. SUMP OUTLET PROTECTION TO EXTEND TO TOE OF FILL SLOPE

DASHED LINES INDICATE BERM TO BE INSTALLED BY EQT AT PAD PERIMETER.

INSTALL 119 LF OF DIVERSION DITCH AND LEVEL SPREADER (SEE DETAILS 4 & 5 - SHEET 41)

PROVIDE AND INSTALL 45 LF OF NEW 15"Ø HDPE PIPE SLOPE 2% MIN. PROVIDE RIPRAP INLET/OUTLET (SEE DETAIL 6 - SHEET 41) STA 39+84.23 (+12.78) MAIN ACCESS ROAD (PLOT ELEVATION = 1313.25) OUTLET ELEVATION = 1312.35'

END ROAD DITCHES

PROVIDE AND INSTALL MOUNTABLE BERM AT ALL PAD ACCESS LOCATIONS. SEE DETAIL 15 - SHEET 42



Cellar Box

Proposed Well Pad Cut & Fill Areas

Proposed Road / Turnaround Cut & Fill Areas

Proposed Spoil Area

Proposed Stored Areas

Legend

(TYP.) Typical

Existing 2' Contour

Existing 10' Contour

Existing Gas Line CL

Existing Trenchline

Proposed 2' Contour

Proposed 10' Contour

AOI Per Potesta

LOD

Proposed Silt Sock

Proposed Straw Wattle

Proposed Cut Areas

Proposed Fill Areas

Proposed Diversion Ditch

Stream per Potesta, as noted

APPROVED WVDEP OOG
 5/24/2017

NOTE:
 CONSTRUCTION OF ALL FILL EMBANKMENTS (INCLUDING SPOIL STOCKPILES) REQUIRE TOE KEY BENCHES AND SIDEHILL BENCHES. (SEE DETAILS 24, 25 & 26 - SHEET 43)

SURFACE BOUNDARY LINE (TYP.)
 SURFACE BOUNDARY LINES ARE APPROXIMATE AND BASED ON CURRENT DEEDS

EXISTING G.S.F.
 5169 6" GASLINE

49-37
 Equitable Gas Company
 51.50 acres

CELLAR BOX (TYP.) SEE DETAIL ON THIS PAGE

PROPOSED WELL PAD
 PAD ELEV. = 1315.0'
 CENTER OF PAD
 NAD83 LAT. = 39.523903
 NAD83 LONG. = -80.438440

INSTALL 403 LF OF DIVERSION DITCH AND LEVEL SPREADER (SEE DETAILS 4 & 5 - SHEET 41)

INSTALL 537 LF OF DIVERSION DITCH AND LEVEL SPREADER (SEE DETAILS 4 & 5 - SHEET 41)

DATE: 12/07/2016

