

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

Austin Caperton, Cabinet Secretary www.dep.wv.gov

Tuesday, October 30, 2018 WELL WORK PERMIT Horizontal 6A / New Drill

EQT PRODUCTION COMPANY 625 LIBERTY AVE., SUITE 1700

PITTSBURGH, PA 15222

Re: Permit approval for SHR60H7 47-095-02543-00-00

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.

Operator's Well Number: SHR60H7

Farm Name: VIVIAN J. WELLS, ET AL.

U.S. WELL NUMBER: 47-095-02543-00-00

Horizontal 6A New Drill Date Issued: 10/30/2018

4709502543

PERMIT CONDITIONS

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

CONDITIONS

- 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.

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API Number:	•

PERMIT CONDITIONS

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

EQT Production

Hydraulic Fracturing Monitoring Plan

Pad ID: SHR60

County: Tyler

7/3/2018

Office of Cil and Gas

AUG 24 2018

WV Department of Environmental Protection

Purpose

The purpose of this pad-specific Hydraulic Fracturing Monitoring Plan is to identify and notify conventional well operators near EQT hydraulic fracturing in Tyler County, WV prior to hydraulic fracturing at the following EQT wells on SHR60 pad: SHR60H5, SHR60H6, SHR60H7, SHR60H8.

Due to the requirements under 35CSR8 5.11, the permittee is required to review the area surrounding the proposed well pad so as to identify and evaluate potential conduits for unintended fracture propagation.

A report is required to be submitted along with a well work permit application.

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

1. Communications with Well Operators

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

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

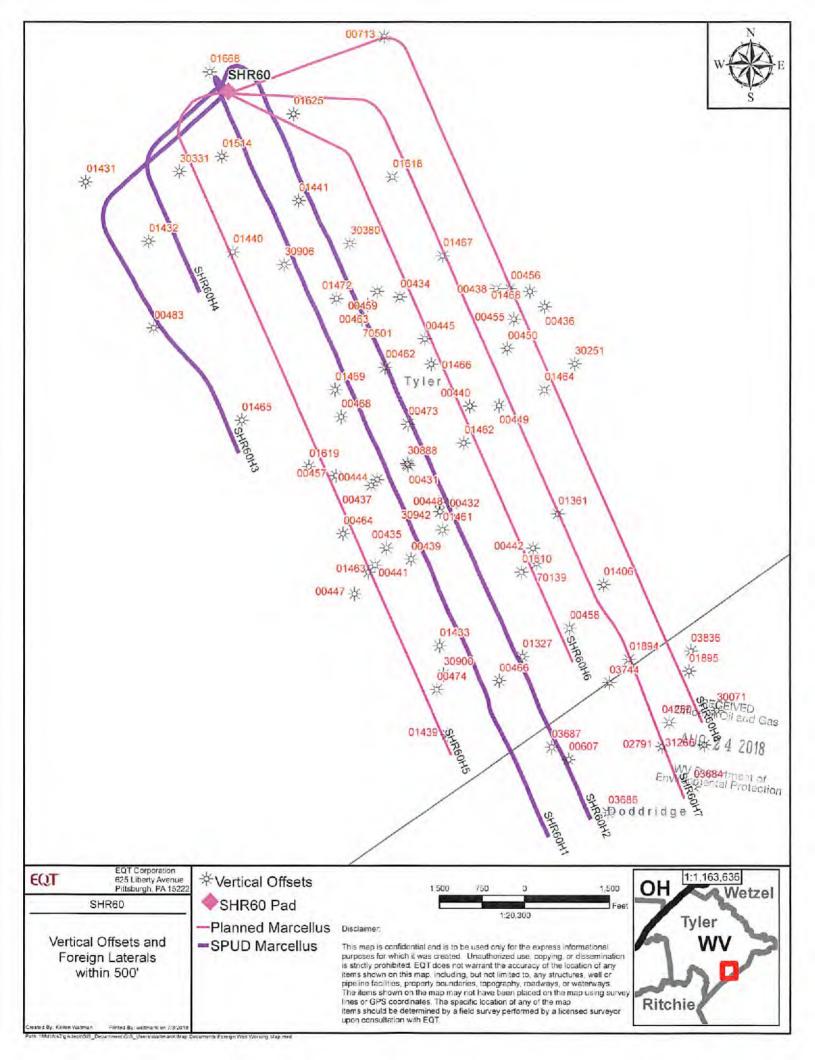
EQT will recommend to these operators at a minimum to:

- 1. Inspect their surface equipment prior to fracturing to establish integrity and establish prefrac well conditions
- 2. Observe wells closely during and after fracturing and monitor for abnormal increases in water, gas or pressure
- Office of Oil and Gas 3. Inspect or install master valves or other necessary equipment for wellhead integrity capable AUG 24 2018 of a pressure recommended by EQT
- 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.

WV Department of Environmental Protection



API Number	Abandoned Date	Completion Date County	Current Operator	Elevation Elevation Reference	Final Status	Lat	Long Well Name	Permit Date	SPUD Date TD Formation	Total Depth Permit
47017036870000			CONSOL GAS COMPANY	1067 KB	2GAS		-80.7909 2 ROBINSON WILBUR	12/26/1988		5200 03687
47095004400000	1/20/1953		PITTSBURGH & W VA GAS	865 GR	ABD-GW	39.3794	-80.7960 2427 M J FERGESON	7/2/1911	7/17/1911 HURON LOWER	2531 00440
47095303310000	12/23/1942		HOPE NATURAL GAS	1003 GR	ABD-GW		-80.8141 3205 TAYLOR UNDERWOOD 1		11/5/1913 HURON LOWER	2725 30331
47095303800000 47017300710000	11/7/1945 8/15/1933		HOPE NATURAL GAS CLIFTON OIL & GAS INCORPORATED	1010 GR 1200 GR	ABD-GW ABD-GW		-80.8035 1558 PRATT-PIERPOINT -80.7806 1 STEPHEN PITTS		2/7/1910 HURON LOWER	2715 30380
47095004490001	6/13/1933 5/2/1973		EQUITABLE GAS COMPANY	864 GR	ABD-GW ABD-SW		-80.7942 5473 GEORGE H JONES		1/17/1911 POCONO 12/7/1972 UNKNOWN	2280 30071 2500 00449
47095004630001	3/25/1974		EQUITABLE GAS COMPANY	984 GR	D&A		-80.8024 1309762 M E UNDERWOOD	1/25/1974		2691 00463
4701700607000C		10/10/1961 DODDRIDGE	ANJA RESOURCES	994 GR	D&A-G	39.3624	-80.7899 1 WEYMAN ROBINSON	8/23/1961		2040 00607
47095014320000		11/14/1990 TYLER	CONSOL GAS COMPANY	892 KB	GAS		-80.8161 2 SECKMAN CLYDE		10/17/1990 DEVONIAN /SD/	5000 01432
4709501464000C		6/27/1991 TYLER	CONSOL GAS COMPANY	914 KB	GAS		-80.7914 DOLL1 DOLL A ETAL		6/9/1991 DEVONIAN /SD/	5040 01464
47095014690000 47095014610000		7/30/1991 TYLER 7/16/1991 TYLER	CONSOL GAS COMPANY CONSOL GAS COMPANY	914 KB 948 KB	GAS GAS		-80.8044 1 DILLON CLARENCE ETAL -80.7977 DBODE1 SCOTT M HRS		6/19/1991 DEVONIAN /SD/ 6/19/1991 DEVONIAN /SD/	5020 01469 5073 01461
47095014620000		7/6/1991 TYLER	CONSOL GAS COMPANY	967 KB	GAS		-80.7964 DBODE2 SCOTT M HRS		6/14/1991 DEVONIAN /SD/	5066 01462
47095007130001		4/27/1971 TYLER	CONSOLIDATED GAS SUPPLY CORPORATION	972 KB	GAS		-80.8013 2118 WILLIAM UNDERWOOD	12/22/1970		2731 00713
47095016680000		11/3/1996 TYLER	ALLIANCE PETROLEUM CORPORATION	986 GR	GAS	39.3955	-80.8122 2 KEYS MARY	10/20/1996	10/30/1996 DEVONIAN /SD/	2230 01668
47095016180000		6/22/1994 TYLER	CONSOL GAS COMPANY	992 GR	GAS		-80.8008 2 CUMBERLEDGE JACOB A		6/17/1994 DEVONIAN /SD/	5125 01618
47095014060000		9/5/1990 TYLER	CONSOL GAS COMPANY	1010 KB	GAS		-80.7877 2 NICHOLS	7/28/1990		5125 01406
47095016190000 47017038360000		6/16/1994 TYLER	CONSOL GAS COMPANY CONSOL GAS COMPANY	1020 GR 1024 KB	GAS GAS		-80.8061 1 MERCER MARIA ET AL -80.7822 2 PITTS STEPHEN	5/23/1994	6/2/1994 DEVONIAN /SD/ 8/11/1990 DEVONIAN /SD/	5190 01619 5150 03836
47095014400000		12/2/1990 TYLER	CONSOL GAS COMPANY	1032 KB	GAS		-80.8108 1 PRATT H T HEIRS		11/8/1990 DEVONIAN /SD/	5126 01440
47095014680000		8/10/1992 TYLER	CONSOL GAS COMPANY	1032 KB	GAS		-80.7922 MARKS1 MARKS JOHN		7/6/1992 DEVONIAN /SD/	5170 01468
47095016250000		11/16/1994 TYLER	CONSOL GAS COMPANY	1053 GR	GAS	39.3935	-80.8070 2 TAYLOR UNDERWOOD HEIRS		11/10/1994 DEVONIAN /SD/	5175 01625
47095014720000		7/25/1991 TYLER	CONSOL GAS COMPANY	1072 KB	GAS		-80.8043 2 DILLON CLARENCE ET AL		6/26/1991 DEVONIAN /SD/	5180 01472
4709501514000C		2/3/1993 TYLER	CONSOL GAS COMPANY	1075 GR	GAS		-80.8115 1 UNDERWOOD TAYLOR HEIRS		12/30/1992 DEVONIAN /SD/	5230 01514
4709501439000C 47095014660000		2/19/1991 TYLER 7/23/1991 TYLER	CONSOL GAS COMPANY CONSOL GAS COMPANY	1087 KB 1090 KB	GAS GAS		-80.7975 1 WEEKLEY ISAIAH HRS -80.7984 CLARENCE1 CUMBERLEDGE BLANCHE HEIRS ETAI		1/23/1991 DEVONIAN /SD/ 6/25/1991 DEVONIAN /SD/	5175 01439 5200 01466
4709501466000C		1/11/1991 TYLER	CONSOL GAS COMPANY	1092 KB	GAS		-80.8067 2 PRATT H T HEIRS		12/15/1990 DEVONIAN /SD/	5200 01466
47095014650000		6/25/1991 TYLER	CONSOL GAS COMPANY	1106 KB	GAS		-80.8103 UNDERWOOD2 STACK MARK ETUX		5/31/1991 DEVONIAN /SD/	5200 01465
47095004410000		2/5/1912 TYLER	EQUITABLE GAS COMPANY	1108 GR	GAS	39.3714	-80.8024 2490 OLIVE I STEWART		12/10/1911 HAMPSHIRE	2807 00441
47095014670000		7/12/1991 TYLER	CONSOL GAS COMPANY	1117 KB	GAS		-80.7977 CLARENCE2 CUMBERLEDGE CLARENCE		6/13/1991 DEVONIAN /SD/	5250 01467
47095013610000		1/29/1990 TYLER	CONSOL GAS COMPANY	1148 KB	GAS		-80.7905 1 NICHOLAS S C		1/16/1990 DEVONIAN /SD/	5200 01361
47095016100000 47017036840000		6/8/1994 TYLER	CONSOL GAS COMPANY CONSOL GAS COMPANY	1206 GR 1214 KB	GAS GAS		-80.7928 1 STEWART D -80.7821 1 SCOTT J N		5/30/1994 DEVONIAN /SD/ 1/24/1989 DEVONIAN /SD/	5344 01610 5350 03684
47017037440000			CONSOL GAS COMPANY	1226 KB	GAS		-80.7873 3 SCOTT JASPER		12/29/1989 DEVONIAN /SD/	5300 03744
47095014330000		10/11/1990 TYLER	CONSOL GAS COMPANY	1228 KB	GAS		-80.7979 2 WEEKLEY ISAIAH		9/27/1990 DEVONIAN /SD/	5300 01433
47095013270000		1/26/1990 TYLER	CONSOL GAS COMPANY	1232 KB	GAS	39.3673	-80.7928 2 PRUNTY S	12/27/1989	1/6/1990 DEVONIAN /SD/	5350 01327
47095014630000		8/1/1991 TYLER	CONSOL GAS COMPANY	1233 KB	GAS		-80.8019 BODE3 BODE DOROTHY		7/10/1991 DEVONIAN /SD/	5300 01463
47017042500000			CONSOL GAS COMPANY	1238 GR	GAS		-80.7836 2 SCOTT J N HEIRS		4/23/1996 BENSON /SD/	5342 04250
47017036860000 47017006070001		3/12/1966 DODDRIDGE	CONSOL GAS COMPANY	1267 KB 994 GR	GAS GAS-WO		-80.7874 1 ROBINSON WILBUR -80.7899 1 WEYMAN ROBINSON		1/31/1989 DEVONIAN /SD/ 1/30/1966 POCONO	5400 03686 2040 00607
47095004380000		10/13/1972 TYLER	EQUITABLE GAS COMPANY	832 GR	GSTG		-80.7944 5461 GAY CUMBERLEDGE		7/11/1972 GORDON /SD/	2602 00438
47095004350000		9/1/1972 TYLER	EQUITABLE GAS COMPANY	1024 GR	GSTG		-80.8012 5460 MOLLIE SCOTT		8/2/1972 GORDON	2582 00435
4701701894000C		6/1/1978 DODDRIDGE	EQUITABLE GAS COMPANY	1155 GR	GSTG	39.3672	-80.7861 5505 E M PITTS 1	4/17/1978	5/2/1978 BIG INJUN /SD/	2217 01894
4701702791000C			EQUITABLE GAS COMPANY	1236 GR	GSTG		-80.7840 2061 EDWIN P BODE		12/2/1980 BIG INJUN /SD/	2300 02791
4701701895000C			EQUITABLE GAS COMPANY	1263 GR	GSTG		-80.7824 5506 ERMA MABEL PITTS 2	7/18/1978		2226 01895
47095004380001 47095004360001		9/25/1989 TYLER 8/11/1974 TYLER	EQUITRANS INCORPORATED EQUITABLE GAS COMPANY	832 GR 983 GR	GSTGW GSTGW		-80.7944 5461 GAY CUMBERLEDGE -80.7913 5462 AUMBRA PRATT		6/15/1989 GORDON /SD/ 7/28/1972 BIG INJUN /SD/	2602 00438 1984 00436
47095014060001		5/22/1998 TYLER	CONSOL GAS COMPANY	1010 KB	GSTGW		-80.7817 2 NICHOLS		5/20/1998 DEVONIAN /SD/	5125 01406
47095004680001		9/6/1974 TYLER	EQUITABLE GAS COMPANY	1058 GR	GSTGW		-80.8041 1 ADDIE KEYS		7/10/1974 GORDON	2716 00468
47095302510000	6/26/1940	TYLER	HOPE NATURAL GAS		PSEUDO	39.3814	-80.7895 1 J W JONES	1/1/1801	1/1/1801	0 30251
47095308880000	4/25/1958		HOPE NATURAL GAS		PSEUDO		-80.7999 1996 JESSE UNDERWOOD 1		1/1/1801	0 30888
47095309060000	12/9/1959		HOPE NATURAL GAS		PSEUDO		-80.8076 3139 H T PRATT 1		1/1/1801	0 30906
47095309420000 47095705010000	3/6/1966	TYLER TYLER	HOPE NATURAL GAS HOPE NATURAL GAS		PSEUDO PSEUDO		-80.7979 1529 JESSE UNDERWOOD -80.8027		1/1/1801 1/1/1801	0 30942 0 70501
4709500456000C		TYLER	UNKNOWN	815 GR	PSEUDO		-80.7935 5466 GAY CUMBERLEDGE		1/1/1801	0 00456
47095004500000		TYLER	UNKNOWN	833 GR	PSEUDO		-80.7937 5474 GEORGE H JONES		1/1/1801	0 00450
47095004490000	5/2/1973		UNKNOWN	864 GR	PSEUDO		-80.7942 5473 GEORGE H JONES		1/1/1801	0 00449
47095004550000	4/8/1973		UNKNOWN	917 GR	PSEUDO		-80.7932 S480 ALTA PRATT		1/1/1801	0 00455
47095004360000	2/20/40=-	TYLER	EQUITABLE GAS COMPANY	983 GR	PSEUDO		-80.7913 S462 AUMBRA PRATT		1/1/1801 BIG INJUN /SD/	1984 00436
47095004630000 47095004340000	3/25/1974	TYLER Tyler	UNKNOWN	984 GR 988 GR	PSEUDO PSEUDO		-80.8024 5486 MARY E UNDERWOOD -80.8004 5456 BLANCHE CUMBERLEDGE 1		1/1/1801 1/1/1801	0 00463 0 00434
47095004450000		TYLER	UNKNOWN	1011 GR	PSEUDO		-80.7988 5468 A H CUMBERLEDGE		1/1/1801	0 00445
47095004480000		TYLER	INVESTMENT	1012 GR	PSEUDO		-80.7971 5472 JOHN W ASH		1/1/1801	0 00448
47095004620000		TYLER	NNKNOMN 🗓	1017 GR	PSEUDO		-80.8013 2 MARY E UNDERWOOD		1/1/1801	0 00462
47095004570000		TYLER	UNKNOWN S	1026 GR	PSEUDO		-80.8044 5479 ADDIE KEYS		1/1/1801	0 00457
47095004310000		TYLER	UNKNOWN	O 1057 GR 3 1058 GR C 1067 GR	PSEUDO		-80.7999 5455 CARL C WEEKLEY 1 -80.8041 5496 ADDIE KEYS		1/1/1801	0 00431
47095004680000 47095004590000		TYLER TYLER	UNKNOWN TO G	를 1058 GR 및 1067 GR	PSEUDO PSEUDO		-80.8041 5496 ADDIE KEYS -80.8018 5484 BLANCHE CUMBERLEDGE		1/1/1801 1/1/1801	0 00468 0 00459
47095004730000		TYLER	UNKNOWN GE G		PSEUDO		-80.7999 5469 MOLLY SCOTT ET AL		1/1/1801	0 00473
47095004470000		TYLER	UNKNOWN 25 80	₹ (∏ 1114 GR	PSEUDO		-80.8032 5471 E K FREEMAN		1/1/1801	0 00447
47095004740000		TYLER	NNKNOMN ===	⊇i 1123 GR	PSEUDO	39.3657	-80.7981 5499 INDIA DAVIS	1/1/1801	1/1/1801	0 00474
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4709500466000C	TYLER	UNKNOWN	1177 GR	PSEUDO	39.3661 -80.7942 5489 GERTRUDE PRUNTY	1/1/1801 1/1/1801	0 00466
47095004370000	TYLER	UNKNOWN	1180 GR	PSEUDO	39.3756 -80.8022 5459 CARL C WEEKLEY 2	1/1/1801 1/1/1801	0 00437
47095004390000	TYLER	UNKNOWN	1201 GR	PSEUDO	39.3720 -80.7997 S464 OLIVE I STEWART	1/1/1801 1/1/1801	0 00439
47095004440000	TYLER	UNKNOWN	1204 GR	PSEUDO	39.3758 -80.8018 5467 CARL C WEEKLEY	1/1/1801 1/1/1801	0 00444
47095004580000	TYLER	UNKNOWN	1219 GR	PSEUDO	39.3687 -80.7898 5478 TALMADGE NICHOLS	1/1/1801 1/1/1801	0 00458
47095004420000	TYLER	UNKNOWN	1257 GR	PSEUDO	39.3725 -80.7921 5465 CHARLES N WELCH	1/1/1801 1/1/1801	0 00442
47095004560001	5/11/1973 TYLER	EQUITABLE GAS COMPANY	815 GR	SWDOP	39.3850 -80.7935 5466 GAY CUMBERLEDGE	2/19/1973 3/1/1973 DEVONIAN /SD/	2510 00456
47095004500001	4/19/1973 TYLER	EQUITABLE GAS COMPANY	833 GR	SWDOP	39.3821 -80.7937 5474 GEORGE H JONES	1/28/1973 2/7/1973 DEVONIAN /SD/	2530 00450
47095004400001	7/27/1973 TYLER	EQUITABLE GAS COMPANY	865 GR	SWDOP	39.3794 -80.7960 5463/1 MOLLY S SCOTT	7/9/1972 7/19/1972 DEVONIAN /SD/	2516 00440
47095004550001	8/4/1973 TYLER	EQUITABLE GAS COMPANY	917 GR	SWDOP	39.3836 -80.7932 5480 ALTA PRATT	7/20/1973 7/30/1973 DEVONIAN /SD/	2604 00455
4709500432000C	10/10/1972 TYLER	EQUITABLE GAS COMPANY	988 GR	SWDOP	39.3747 -80.7979 5458/1 CARL C WEEKLEY	6/25/1972 7/5/1972 GANTZ /SD/	2435 00432
47095004450001	9/6/1972 TYLER	EQUITABLE GAS COMPANY	1011 GR	SWDOP	39.3826 -80.7988 5468 A H CUMBERLEDGE	8/1/1972 8/11/1972 MISSISSIPPIAN	2658 00445
47095004480001	7/19/1973 TYLER	EQUITABLE GAS COMPANY	1012 GR	SWDOP	39.3747 -80.7971 5472 JOHN W ASH	10/22/1972 11/1/1972 MISSISSIPPIAN	2648 00448
47095004620001	11/20/1973 TYLER	EQUITABLE GAS COMPANY	1017 GR	SWDOP	39.3812 -80.8013 2/5485/ MARY E UNDERWOOD	8/29/1973 9/8/1973 GORDON /SD/	2688 00462
47095004570001	8/13/1973 TYLER	EQUITABLE GAS COMPANY	1026 GR	SWDOP	39.3760 -80.8044 5479/1 ADDIE KEYS	3/9/1973 3/19/1973 DEVONIAN /SD/	2690 00457
47095004340001	7/27/1972 TYLER	EQUITABLE GAS COMPANY	1047 GR	SWDOP	39.3846 -80.8004 5456/1 B CUMBERLEDGE	4/16/1972 4/26/1972 DEVONIAN /SD/	2992 00434
47095004830000	8/23/1977 TYLER	EQUITABLE GAS COMPANY	1048 KB	SWDOP	39.3831 -80.8158 5501 F & W E SMITH JR	6/25/1977 7/5/1977 MISSISSIPPIAN	2350 00483
47095004310001	7/3/1972 TYLER	EQUITABLE GAS COMPANY	1057 GR	SWDOP	39.3765 -80.7999 5455/1 CARL C WEEKLEY	3/31/1972 4/10/1972 DEVONIAN /SD/	2760 00431
47095004590001	9/13/1973 TYLER	EQUITABLE GAS COMPANY	1067 GR	SWDOP	39.3849 -80.8018 5484/2 BLANCHE CUMBERLEDGE	7/27/1973 8/6/1973 DEVONIAN /SD/	2776 00459
47095004730001	1/29/1975 TYLER	EQUITABLE GAS COMPANY	1075 GR	SWDOP	39.3785 -80.7999 5469 MOLLY SCOTT ETAL	7/19/1974 7/29/1974 DEVONIAN /SD/	2716 00473
47095004410001	9/19/1973 TYLER	EQUITABLE GAS COMPANY	1108 GR	SWDOP	39.3714 -80.8024 2490/1 OLIVE I STEWART	10/3/1972 10/13/1972 DEVONIAN /SD/	2810 00441
47095004470001	3/22/1973 TYLER	EQUITABLE GAS COMPANY	1114 GR	SWDOP	39.3704 -80.8032 5471 E K FREEMAN	8/22/1972 9/1/1972 DEVONIAN /SD/	2772 00447
47095004740001	3/27/1975 TYLER	EQUITABLE GAS COMPANY	1129 KB	SWDOP	39.3657 -80.7981 1314510 INDIA DAVIS	8/18/1974 8/28/1974 WEIR /SD/	2402 00474
47095004660001	2/15/1974 TYLER	EQUITABLE GAS COMPANY	1177 GR	SWDOP	39.3661 -80.7942 1/5489/ GERTRUDE PRUNTY	11/20/1973 11/30/1973 MISSISSIPPIAN	2783 00466
47095004370001	8/1/1973 TYLER	EQUITABLE GAS COMPANY	1180 GR	SWDOP	39.3756 -80.8022 5459/2 CARL C WEEKLEY	7/21/1972 7/31/1972 DEVONIAN /SD/	2846 00437
47095004640000	2/28/1974 TYLER	EQUITABLE GAS COMPANY	1181 GR	SWDOP	39.3732 -80.8039 1/5481/ ROBERT D FERGUSON	9/18/1973 9/28/1973 GORDON /SD/	2813 00464
47095004390001	10/24/1972 TYLER	EQUITABLE GAS COMPANY	1201 GR	SWDOP	39.3720 -80.7997 5464 OLIVE I STEWART	7/10/1972 7/20/1972 BIG INJUN /SD/	2156 00439
47095004440001	8/8/1973 TYLER	EQUITABLE GAS COMPANY	1204 GR	SWDOP	39.3758 -80.8018 5467 CARL C WEEKLY	9/8/1972 9/18/1972 DEVONIAN /SD/	2861 00444
47095004580001	8/20/1973 TYLER	EQUITABLE GAS COMPANY	1219 GR	SWDOP	39.3687 -80.7898 5478/1 TALMADGE NICHOLS	5/21/1973 5/31/1973 DEVONIAN /SD/	2945 00458
47095004420001	8/15/1973 TYLER	EQUITABLE GAS COMPANY	1257 GR	SWDOP	39.3725 -80.7921 5465 CHARLES N WELSH	4/26/1973 5/6/1973 DEVONIAN /SD/	2750 00442
4709570139000C	2/16/1910 TYLER	HOPE NATURAL GAS		UNXWN	39.3718 -80.7919 2063 S J FREEMAN	1/2/1910 1/17/1910	0 70139
4709530900000C	10/24/1958 2/16/1912 TYLER	HOPE NATURAL GAS		UNKWN	39.3664 -80.7977 2374 ISAAH & LEAH WEEKLEY 1	1/2/1912 1/17/1912	0 30900
47095007130000	TYLER	CONSOLIDATED GAS SUPPLY CORPORATION	972 KB	UNXWN	39.3972 -80.8013 2118 UNDERWOOD	1/1/1801 1/1/1801 BIG INJUN /SD/	1998 00713

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Office of Cland Gas
AUG 2 4 2018

7

API NO. 47-095	02543
OPERATOR WE	LL NO. SHRBOH7
Well Pad Name	- SHR60

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

1) Well Operator: EQT Produ	ction Company	306686	Tyler	McElroy	Shirley
Access of a could be		Operator ID	County	District	Quadrangle
2) Operator's Well Number: St	HR60H7	Well I	ad Name: Sh	IR60	
3) Farm Name/Surface Owner:	VIvian J. Wells	Public R	oad Access: 6	0/2	
4) Elevation, current ground:	1011' EI	evation, propose	d post-constru	ection: 1011'	
5) Well Type (a) Gas × Other	Oil	Ur	derground Sto	orage	
(b)If Gas Sha	ıllow ×	Deep			
Но	rizontal X				
6) Existing Pad: Yes or No	- CANADA		= ()		
7) Proposed Target Formation(s					
Target formation is Marcellus at a d	epth of 6596 with the	anticipated thickness t	o be 52 feet an	d anticipated targe	t pressure of 2747 PSI
8) Proposed Total Vertical Dept	h: 6596				
) Formation at Total Vertical D	Depth: Marcellus				
0) Proposed Total Measured D	epth: 18624				
1) Proposed Horizontal Leg Le	ength: 10786 /				
12) Approximate Fresh Water S	trata Depths:	83, 133, 570,	906		
13) Method to Determine Fresh	Water Depths:	By offset wells			
(4) Approximate Saltwater Dep	ths: 1198, 1865				o du
(5) Approximate Coal Seam De	pths: 19, 420, 6	86, 875, 1315			
(6) Approximate Depth to Poss	ible Void (coal mi	ne, karst, other)	None report	ted	
17) Does Proposed well location directly overlying or adjacent to		ns Yes		No X	Office PECEIVE Of Oil ar SEP
(a) If Yes, provide Mine Info:	Name:				
	Depth:				Em W Dec
	Seam:				Environmental Prote
	Owner:				-10

9lB | 29/2018

WW-6B
(04/15)

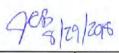
API NO. 47- 095 -

OPERATOR WELL NO. SHR60H7
Well Pad Name: SHR60

18)

CASING AND TUBING PROGRAM

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	26	New	A-500	85.6	60	60	73 ft^3 / CTS
Fresh Water	13 3/8	New	J-55	54.5	992	992	835 ft^3 / CTS
Coal							
Intermediate	9 5/8	New	A-500	40	2777	2777	1084 ft^3 / CTS
Production	5 1/2	New	P-110	20	18624	18624	500' above top producing zone
Tubing	2 3/8		J-55	4.7	THE THE PERSON NAMED IN TH	May not be run, if run set 40' above top perf or 80° inclination	
Liners							



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	26	30	.312	1378	26	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	See Variance	1.19
Production	5 1/2	8 1/2	.361	12640	10112	Class A/H	1.123/2.098
Tubing	2 3/8	NA	.19	7700			
Liners							

PACKERS

Office of Oil and Ga
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WV Department of Environmental Protects

WW-6B	
(10/14)	

API NO. 47- 095 OPERATOR WELL NO. SHR60H7 Well Pad Name: SHR60

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 3429'. Kick off and drill curve. Drill the lateral in the Marcellus. Cement casing.

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

Hydraulic fracturing is completed in accordance with state regulations using water recycled from previously fractured wells and obtained from freshwater sources. This water is mixed with sand and a small percentage (less than 0.1%) of chemicals (including 15% Hydrochloric acid, friction reducer, biocide, and scale inhibitor), referred to in the industry as a "slickwater" completion. Maximum anticipated internal casing pressure is expected to be approximately 10000 psi, maximum anticipated treating rates are expected to average approximately 100 bpm. Stage lengths vary from 150 to 300 feet. Average approximately 350,000 gallons of water per stage. Sand sizes vary from 100 mesh to 20/40 mesh. Average approximately 400,000 pounds of proppant per stage.

- 21) Total Area to be disturbed, including roads, stockpile area, pits, etc., (acres): no additional
- 22) Area to be disturbed for well pad only, less access road (acres): no additional
- 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 sturries Intermediate (Type 1 Cement): 0.3% Calcium Chloride, Used to speed the setting of cement sturries.

RECEIVED TECEIVED
Lead (Class A Cement): 0.2% CD-20 (dispersant makes cement easier to mix). .15% SuperFL-300 (fluid loss/lengthens thickening time) .15% SEC-10 (fluid loss) 50:50 POZ (extended) and Gas valer lest to formation 50% Calcular Contracts. Asia and All the formation 50% Calcular Contracts. water lost to formation. 60 % Calculm Carbonate. Acid solubility...

25) Proposed borehole conditioning procedures:

WV Department of Environmental Protection 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

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

*Note: Attach additional sheets as needed.

SEP 6 2018

Well SHR60H7

EQT Production

Shirley Quad Tyler County, WV

157 Azimuth Vertical Section 12680 Enertia # 514456

Note:	Diag	iram	is	not	to	scale

Top Base			Casing and Cementing			Deepest Fresh Wat	er: 906'
		-S / 1	Type	Conductor	Surface	Intermediate	Production
60	4111		Hale Size, In.	30	17 1/2	12 3/8	8 1/2
	7111		Casing Size, OD In.	26	13 3/8	9 5/8	5 1/2
906	111		Casing Wall Thickness, In.	0.312	0.380	0.395	0.361
	- 111	111	Depth, MD	60'	992'	2,777'	18,624
992	4		Weight	85.6#	54.5#	40#	20#
			Grade	A-500	J-55	A-500	P-110
	- 11		New or Used	New	New	New	New
	- 11		Burst (psi)	1378	2,700	3.950	12,640
	- 11	1.4	Cement Class	A	A/Type 1	A / Type 1	A/H
	- 11		Cement Yield	1.18	1.19	1.19	1.123 / 2.098
1876 2251 - 2317			Top of Cement (Planned)	Surface	Surface	Surface	500' above top Producing Zone
The second secon	11	1.1	Method	Displacement	Displacement	Displacement	Displacement
2461 - 2496	11	11	Est. Volume (cu ft)	73	835		3.584
2685 - 2700 2777 3007 - 3057		L	Possible Additives	N/A	Calcium Chloride	Calcium Chloride	Calcium Carbonate, Fluid Loss, Extender, Dispersent, Viscosifier, Defoamer, POZ, Bonding Agent, Retarder, Anti-Settling/Suspension Agent
3433 - 3551 3855 - 3925 4548 - 4585 4965 - 5002 5222 - 5294 6212 - 6381 6381 - 6425 6425 - 6501 6501 - 6530 6530 - 6554 6554 - 6571 6571 - 6623 18624 MD		KOP @ 3,429*					
	906 992 1534 - 1587 1829 - 2111 1876 2251 - 2317 2368 - 2415 2461 - 2496 2595 - 2636 2685 - 2700 2777 3007 - 3067 3339 - 3413 3433 - 3551 3655 - 3925 4548 - 4585 4965 - 5002 5222 - 5294 6212 - 6381 6381 - 6425 6425 - 6501 6501 - 6530 6530 - 6554 6654 - 6571	7VD 7VD 60 906 992 1534 - 1587 1829 - 2111 1876 2251 - 2317 2368 - 2415 2461 - 2496 2595 - 2636 2665 - 2700 2777 3007 - 3067 3339 - 3413 3433 - 3551 3655 - 3925 4548 - 4585 4965 - 5002 5222 - 5294 6212 - 6381 6381 - 6425 6425 - 6501 6501 - 6530 6530 - 6554 6554 - 6571 6571 - 6623	TVD TVD 60 906 992 1534 - 1587 1829 - 2111 1876 2251 - 2317 2368 - 2415 2461 - 2496 2595 - 2636 2595 - 2636 2665 - 2700 2777 3007 - 3067 3339 - 3413 3433 - 3551 3655 - 3925 4548 - 4585 4965 - 5002 5222 - 5294 6212 - 6381 6381 - 6425 6425 - 6501 6501 - 6530 6530 - 6554 6554 - 6571 6571 - 6623	TVD TVD 60 906 906 992 1534 - 1587 1529 - 2111 1876 2251 - 2317 2368 - 2415 2461 - 2496 2595 - 2636 2686 - 2700 2777 3007 - 3067 3339 - 3413 3433 - 3551 33655 - 3925 4540 - 4585 4965 - 5002 5222 - 5294 6212 - 6381 6381 - 6425 6426 - 6501 6501 - 6530 6530 - 6554 6554 - 6571 65671 - 6623	Type Conductor Hole Size, In. 30 Casing Size, OD In. 26 Casing Wall Thickness, In. 0.312 Depth, MD 60' Weight 85.6# Grade A-500 New or Used New Burst (psi) 1378 Cement Class A Cement Yield 1.18 Top of Cament (Planned) Surface Method Displacement Est. Volume (cu ft) 73 3339 - 3413 3433 - 3551 3355 - 3925 4548 - 4585 4965 - 5002 5222 - 5294 6212 - 6381 6381 - 6425 6425 - 6501 6501 - 6530 6530 - 6554 6554 - 6571 6571 - 6623	TVD TVD 60 906 906 997 998 1534 - 1587 1829 - 2111 1876 2251 - 2317 2368 - 2415 2461 - 2496 2595 - 2636 2665 - 2700 2777 3007 - 3057 1534 - 3551 3835 - 3825 4548 - 4585 4965 - 5002 5222 - 5294 6531 - 6425 6425 - 6501 6501 - 6530 6530 - 6554 6554 - 6571 6571 - 6623	Type Conductor Surface Intermediate Hole Size, In. 30 17 1/2 12 3/8 906 906 906 9082 2,777 992 Weight 85.6# 54.5# 40# Grade A.500 J.55 A.500 New or Used New New New New Burst (psi) 1378 2,700 3,950 Cement Yield 1.18 1.19 1.19 1876 1.18 1.19 1.19 1876 2251 2317 2368 2415 2496 2595 2636 2665 2700 2777 3007 3057 Possible Additives N/A Calcium Chloride Calcium Chloride KOP @ 3,429' 6212 6331 6365 3925 6448 4585 6456 6651 6625 6551 6625 6551 6625 6551 6623

Proposed Well Work:

Drill and complete a new horizontal well in the Marcellus formation. Drill the vertical to an approximate depth of 3429'.

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

10,786' Lateral



8/21/2018

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

Re: Casing Plan on SHR60

Dear Mr. Brewer,

EQT is requesting the 13-3/8" surface casing be set at 992' KB, 86' below the deepest fresh water. We will set the 9-5/8" intermediate string at 2777' KB, below the Gordon formation.

If you have any questions, please do not hesitate to contact me at

Sincerely,

Todd Klaner

Regional Land Manager

Enc.

Office of Oil and Gas

SEP 6 2018

WV Department of Environmental Protection



west virginia department of environmental protection

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

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

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.

100.

Environmental Resources Specialist / Permitting

Office of Oil and Gas
AUG 2.4 2010

Environmental Protection

Promoting a healthy environment.



west virginia department of environmental protection

Office of Oil and Gas 601 57th Street, SE Charleston, WV 25304 (304) 926-0450 (304) 926-0452 fax Earl Ray Tomblin, Governor Randy C. Huffman, Cabinet Secretary dep.wv.gov

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

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

REPORT OF THE OFFICE

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

FINDINGS OF FACT

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



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

Office of Oil and Gas

AUG 24 2018

WV Department of Environmental Protection

API	Num	her	47 -	095
	1 4 14 14 1		T 1 -	an electric

Operator's Well No. SHREUH7

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) Morrison Run of McElroy Creek Quadrangle Shirley
Do you anticipate using more than 5,000 bbls of water to complete the proposed well work? Yes V
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 48 79 101
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
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. Office of Oil Company Official Signature
Company Official (Typed Name) Erin Spine SEP 6
Company Official Title Regional Land Supervisor
Company Official Title Regional Land Supervisor WV Departmental Programmental Programment
Subscribed and sworn before me this 22 day of AUQUST , 20 18
Debecca & Wanstrolt Notary Public OFFICIAL SPAN
NOTABY PUBLIC
My commission expires 4-1-200 REBECCA L. WANSTRE EOT PRODUCTION COMPAN PO BOX 280 BRIDGEPORT, WY 28330

WW-9 Attachment

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

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

Additives to be used in drilling medium?

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

Office of Oil and Gas

SEP 6 2018

WV Department of Environmental Protection

Field Reviewed?

Anticipated Frac Additives Chemical Names and CAS numbers

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

Office of Oil and Gas

SEP 6 201

WV Department of Environmental Protection

EQT Production Water plan

Offsite disposals for Marcellus wells

CWS TRUCKING INC.

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

LAD LIQUID ASSETS DISPOSAL INC.

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

TRI COUNTY WASTE WATER MANAGEMENT, INC.

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

Waste Management - Meadowfill Landfill

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

Waste Management - Northwestern Landfill

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

BROAD STREET ENERGY LLC

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

TRIAD ENERGY

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

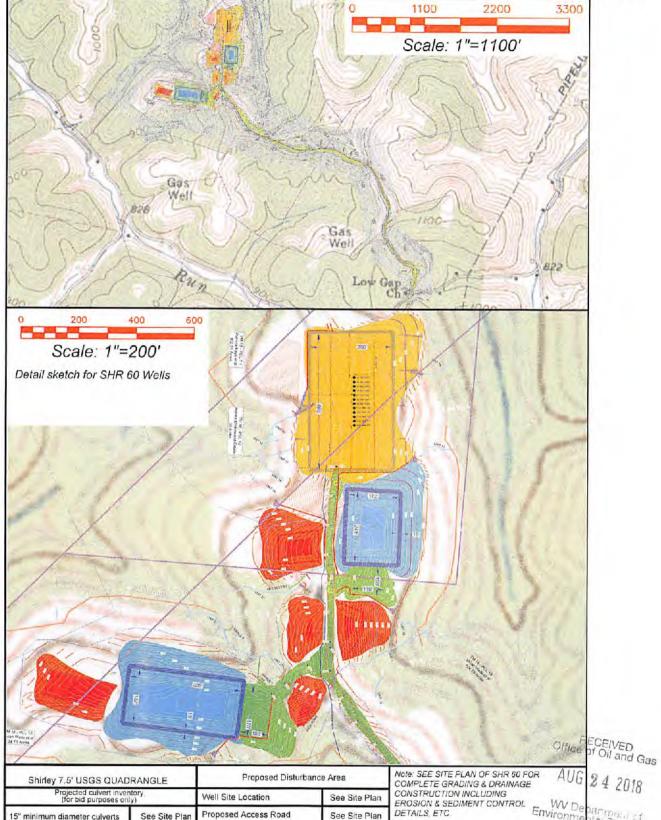
KING EXCAVATING CO.

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

> RECEIVED Office of Oil and Gas

AUG 24 2018

WV Department of Environmental Protection



15" minimum diameter culverts See Site Plan See Site Plan 24" minimum diameter culverts See Site Plan Approximate Total Disturbance See Site Plan Ben Singleton PS GRAWING FILE NO. ACAD-208-13-Rec Plan July 3,2018 208-13

SURVEYING AND MAPPING SERVICES PERFORMED BY:

ALLEGHENY SURVEYS, INC.

Birch River Office Phone: (304) 649-8606 Fax: (304) 649-8608 1-800-482-8606 237 Birch River Road P.O. Box 438 Birch River, WV 26610 Environmental Protection



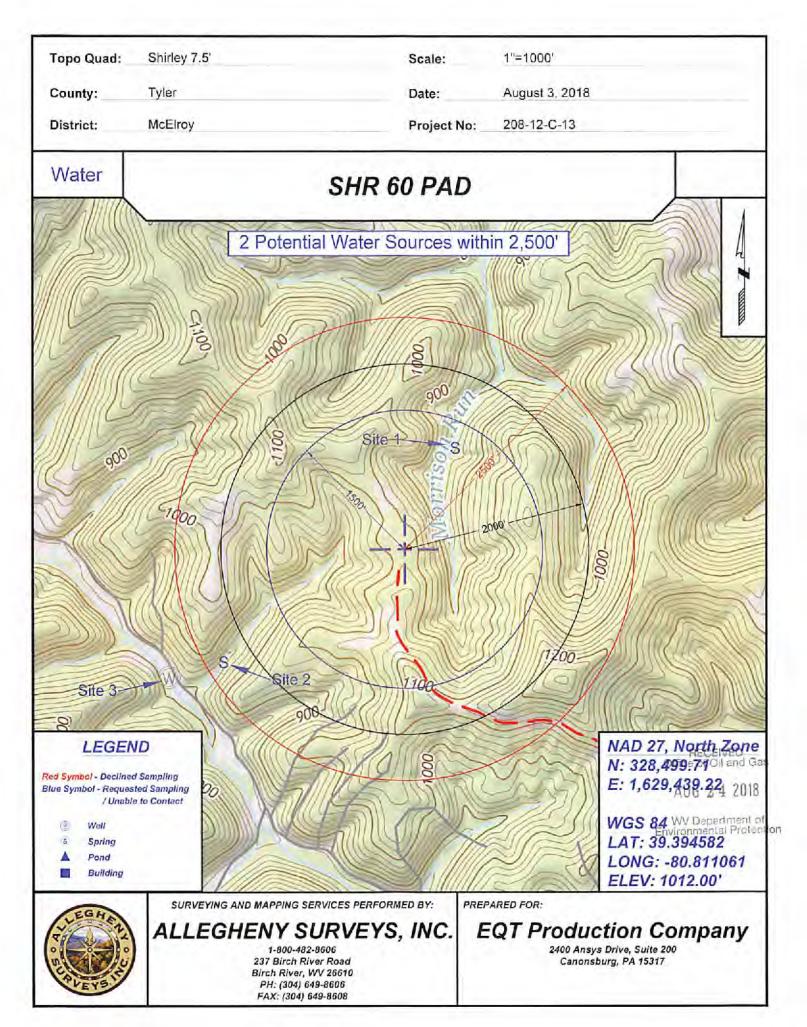


Site Specific Safety and Environmental Plan

EQT
SHR60 Pad
Shirley
Tyler County, WV

ZHKLOOHE SHKLOOH SHKLOOH	1_SHR(COH8	
Date Prepared: February 16, 2018 EQT Production Penjonal Land Supervisor Title	WyOil and Gas Inspector Title	Office of Oil and Gas
8/21/2018	8/29/2018	Environmental Protection

For Wells:





(Insert additional pages as needed)

Table 1 - Water Source Identification

EQT Well Pad Name: SHR 60 PAD Submittal Date: 7/30/20	7							
EQT Well Number:								
Survey / Engineering Company: Allegheny Surveys, Inc.								
Site Number: 1 Distance from Gas Well (feet): 1224.65								
Surface Owner / Occupant: <u>Todd & Kimberly James</u>	□ Landowner Requested							
Address: 2879 Jefferson Run Rd. Alma, WV 26320 Phone #: 304-758-2853	Sampling Landowner Decline							
Field Located Date: 7/28/2018 Owner home during survey (yes/no): Yes	Sampling Unable to Contact							
Coordinates: <u>39.235137, 80.483297</u> (decimal degrees – NAD 83)	(Further contact attempts to be made by EQT's third party pre-drill sampling lab)							
Contact Attempts (Date): 1st; 7/9/2018 2nd; Door Hanger Left;								
Comments: Certified letter sent July 9. Did not receive return card back. Visit 1 - July 10 residence on Jefferson Run Rd. She said they use a spring at property on Morrison Run for accessed through EQT access road through well pad. Left letter with her. She will talk to Visit 2 - July 20: talked to Todd 11:30 a.m. after meeting with Steve Ashley (sites 2 & 3), spring to be 200 yards north of well pad. He didn't seem to think it was necessary to test to never known of it being tested before, but refused to sign the form to decline testing. He is have it tested. He indicated his phone had been out for a few weeks. Visit 3 - 7/25: Unabset up meeting to get site location, drove to residence again and arranged with Kim to mee 7/28: Met with Todd James to do field location on Morrison Run. Beware of dogs. Once the fine Todd and Kim are very friendly. Call phase: 740.238.9542.	or cattle. Property is Fodd and get back to me. Todd said he estimated he water because he had aid he would go ahead and le to contact Mr. James to et Todd on 7/28. Visit 4 -							
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residence on Jefferson Run Rd. She said they use a spring at property on Morrison Run for accessed through EQT access road through well pad. Left letter with her. She will talk to visit 2 – July 20: talked to Todd 11:30 a.m. after meeting with Steve Ashley (sites 2 & 3), spring to be 200 yards north of well pad. He didn't seem to think it was necessary to test to never known of it being tested before, but refused to sign the form to decline testing. He is nave it tested. He indicated his phone had been out for a few weeks. Visit 3 – 7/25: Unable set up meeting to get site location, drove to residence again and arranged with Kim to mee 7/28: Met with Todd James to do field location on Morrison Run. Beware of dogs. Once to the fine. Todd and Kim are very friendly. Cell phone: 740-228-9542	or cattle. Property is Fodd and get back to me. Todd said he estimated he water because he had aid he would go ahead and le to contact Mr. James to et Todd on 7/28. Visit 4 - hey get to know you, they're Sampling Landowner Decline Sampling Unable to Contact							

Site Number: 3 Distance from Gas Well (feet): 2910.51

Surface Owner / Occupant: Steve Ashley (formerly Keys)

Address: 3332 Jefferson Run Rd. Alma WV 26320 Phone #: 304-758-2907

Field Located Date: 7/20/2018 Owner home during survey (yes/no): Yes

Coordinates: 39.232648, 80.491219 (decimal degrees – NAD 83)

Contact Attempts (Date): 1st: 7/9/2018 2nd: ______ Door Hanger Left: ______

Comments: Water well located outside 2,500' radius.

□ Landowner Requested Sampling
 □ Landowner Requested
 □ Landowner Requested

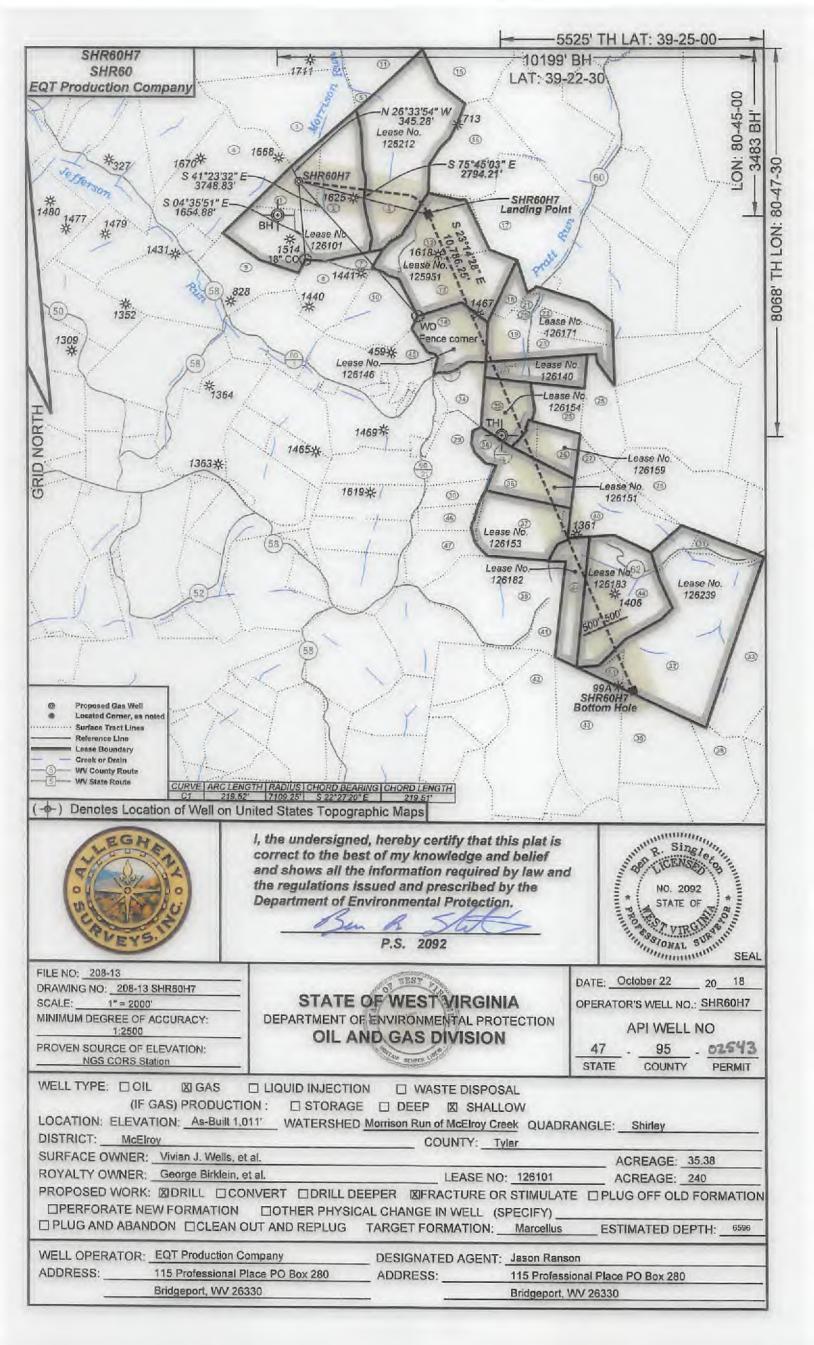
☐ Landowner Decline Sampling

☐ Unable to Contact
(Further contact attempts to be made by EQT's third party pre-drill sampling lab)

RECEIVED Office of Oil and Gas

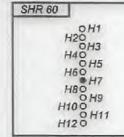
AUG 24 2018

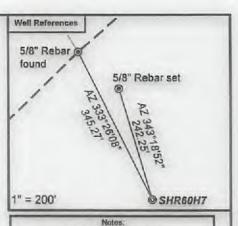
WV Department of Environmental Protection



SHR60H7 SHR60 **EQT Production Company**

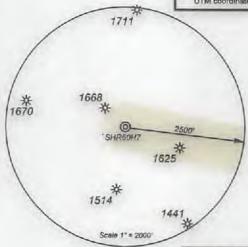
Tract I.D.	Tax Map No.	Parcel No.	County	District	Surface Tract Owner	Acres
1	18	12	Tyler	McElroy	Hanna A. Underwood Estate	35,00
2	18	13	Tyler	McElroy	Blaine Underwood Estate, et al.	104.73
3	138	9	Tyler	McElroy	Lawrence Rayburn, et al.	100.00
4	18	7.1	Tyler	McElrov	Patricia A. Keys, et al.	102.31
5	18	10	Tyler	McElroy	Susan Spancer	2.92
6	18	11	Tyler	McEiroy	Susan Spencer	132.00
7	18	15	Tyler	McElroy	Susan Spencer	8.00
3	1.8	1.5	Tyler	McElroy	Donald E. Bible Sr.	35,50
9	18	23	Tyler	McElroy	Clyde Seckman Estata	111.75
10	1.8	17	Tyler	McElroy	Allen Dale Fornash, et al.	43.00
11	15	32	Tyler	McElroy	Betty June Weese	360.00
12	18	14	Tyler	McElroy	Terry J. Cumberledge, et al.	54.81
13	1.8	18	Tyler	McElroy	Terry J. Cumberledge, et al.	49.87
14	25	19	Tyler	McElroy	John Paul Daws	35.00
15	10	1.0	Tylet	McElroy	Susan L. Spencer	53,00
16	19	49	Tyler	McElroy	James Edward Cumberledge, et al.	57.50
17	19	50.0	Tyler	McElroy	Renald L. Cumberledge	123.15
18	19	70.1	Tyler	McElroy	Edith J. Pratt	2.77
19	19	72	Tyler	McElroy	Terry A. Cumberledge, et al.	18.09
20	19	79.0	Tyler	McElroy	Terry J. & Cheryl A. Cumberledge	1.13
21	10	71.0	Tyler	McElroy	Edith J. Pratt	3.30
22	19	70.0	Tyler	McElroy	Ronald L Cumberledge	13.99
23	19	74	Tyler	McElroy	Randall P. Clugson II	19.00
24	19	75	Tyler:	McElroy	Roger L. Prett	24.19
25	. 10	78	Tyler	McElroy	Roger L. Pratt, et al.	43,81
25	22	1.2	Tyler	McElroy	James B. Scott	40.00
27	22	2	Tyler	McElroy	June Pratt	7.00
28	22	4	Tyler	McElroy	Jacquelina L. Wichman Trust	72.83
29	22	20	Tyler	McElrey	James B. Scott	30.00
30	21	18	Tyler	McElroy	Richard E. E. Barbara A. Mullins	20.00
31	22	13.1	Tyler	McElroy	Jacqueline L. Wickman, et al.	9.98
32	22	13	Tyler	McEfroy	Warren C. Putman	147.77
33	2	11	Doddridge	West Union	Mark Ziegentuns	99.94
34	19	30	Tyler	McElroy	John Paul Davis	25.00
35	2	2	Doddrige	West Union	Jason J. Boggs	66,87
.36	21	21	Tyler	McElroy	James B. Scott	30.00
37	22	19	Tyler	McElroy	Berdina Rose, et al.	55.00
38	4	1	Doddridge	Grant	Warren C Putman	77.00
39	22	18	Tyler	McElroy	Bruce W. Boland	86.75
40	72	3	Tyler	McElroy	Jacqueline Wickman, et al.	71.62
41	22	18.1	Tyler	McEltoy	Bruce W. Boland	18.91
42	2	18	Dodriridge	West Union	David R. & Elizabeth A. Beveridge	125.00
43	2	1	Doddridge	West Union	James M. Petrovich, et al.	70.00
44	22	14	Tyler	McElroy	Faul Dean Steinman Jr. & Marc J. Steinman	125.00
45	16	20.2	Tyler	McElroy	Richard E. Hensen	19.96
46	21	19	Tyler	McElroy	Richard E. & Barbera A. Mullina	20.00
47	21	21	Tyler	McElrov	James B. Segtt	30.00





SHR60H7 coordinates are
NAD 27 N: 328,492,21 E: 1,629,439.28
NAD 27 Lat: 39,384480 Long: -80,811233
NAD 83 UTM N: 4,380,580,01 E: 516,269,36 NAD 83 UTM N: 4,380,580,01 E: 516,269.36 SHR60H7 Landing Point coordinates are NAD 27 N: 327,804.44 E: 1,632,147.52 NAD 27 Lat: 39,392700 Long: -80.801616 NAD 83 UTM N: 4,360,384.27 E: 517,097.92 SHR60H7 Bottom Hole coordinates are NAD 27 N: 317,893.48 E: 1,636,403.81 NAD 27 Lat: 39,365660 Long: -80,786056 NAD 83 UTM N: 4,357,386.53 E: 518,444.99 West Virginia Coordinate system of 1927 (North Zone) based upon Differential GPS Measurements. Plat orientation, comer and well ties are based upon the grid north meridian. Well location references are based upon the grid north meridian.

meridian.
UTM coordinates are NAD83, Zone 17, Meters.



Lease No. 126212 125951 126146 126171 126140 126154

Bridgeport, WV 26330

Proposed Gas Well Located Corner, as noted Surface Tract Lines Reference Line Lease Boundary Creek or Drain WV County Route WV State Route

ub Surface Easements Parcel No. Acres 05-18-11 132 Owner Susan L. Spencer

Owner
Susan L. Spencer
Mona R. Cumberledge, et al.
Dlucie Frances Bonnell, et al.
Daniel G. Cumberledge, et al.
Roger L. Pratt
Regina Jo Gillespie, et al.
Nick A. Demoss, et al.
Dorothy H. Bode, et al.
Jeffrey T. Heffin, et al.
Robert J. Nichols, et al.
Robert J. Nichols, et al.
Paul Tallman, et al. Acres 131 225 35 78 25 28 25 30 55 38 89 234 126154 126151 126151 126153 126182 126183 Paul Tallman, 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.

P.S. 2092



FILE NO: 208-13 DRAWING NO: 208-13 SHR60H7 SCALE 1" = 2000 MINIMUM DEGREE OF ACCURACY 1:2500

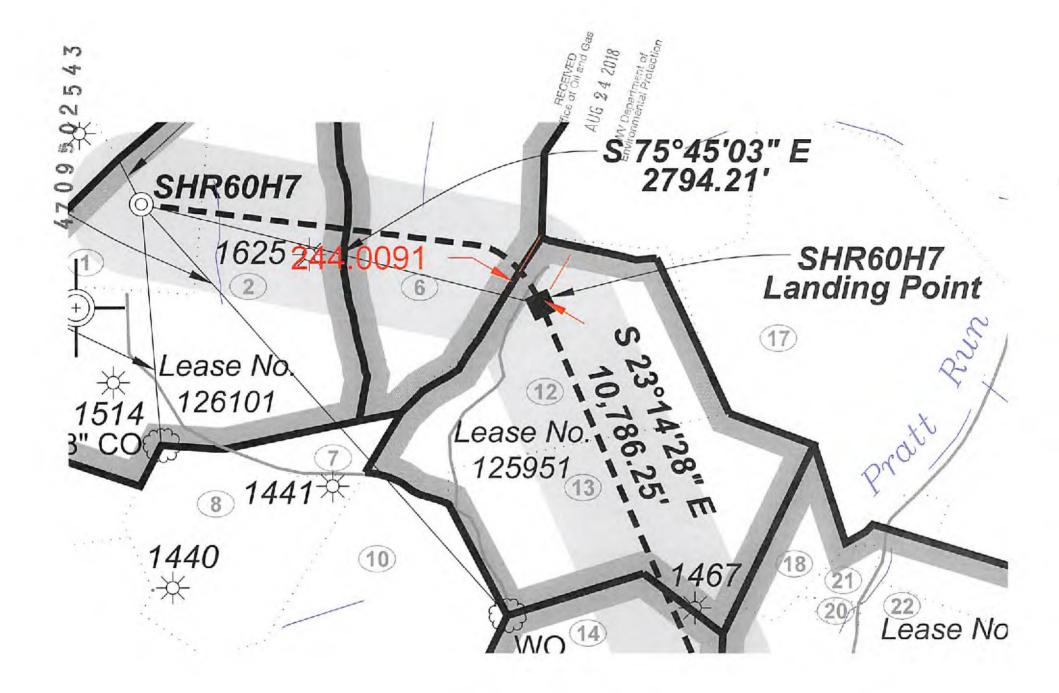
PROVEN SOURCE OF ELEVATION:

Bridgeport, WV 26330

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

DATE: _	October 22			20 18		
OPERAT	OR'S	WELLN	0.: 5	SHR	60H7	
	AF	I WEL	LN	0		
47		95		025	143	
243 555	7.0	ARREST LA		20.30	THE PARTY.	

- NOO GONG GIGIION	The state of the s	STATE COUNTY PERMIT
WELL TYPE: □ OIL S GAS □ LIQUID INJ		
	DRAGE DEEP IN SHALLOW	
LOCATION: ELEVATION: As-Built 1,011' WATER	SHED Morrison Run of McElroy Creek QUAL	DRANGLE: Shirley
DISTRICT: McElroy	COUNTY: Tyler	
SURFACE OWNER: Vivian J. Wells, et al.		ACREAGE: 35.38
ROYALTY OWNER: George Birklein, et al.	LEASE NO: 126101	ACREAGE: 240
PROPOSED WORK: MIDRILL CONVERT DR		ATE IT PLUG OFF OLD FORMATION
□PERFORATE NEW FORMATION □OTHER P		
☐ PLUG AND ABANDON ☐ CLEAN OUT AND REPL		
WELL OPERATOR: EQT Production Company	DESIGNATED AGENT: Jason Ra	nson
ADDRESS: 115 Professional Place PO Box 280		



Operator's	Well No.	SHR60H7
Jungary of S	well ino.	0111100111

WW-6A1 (5/13)

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 Grar	ntor, Lessor, etc.	Grantee, Lessee, etc.	Royalty	Book/Page

See Attached

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

The permit applicant for the proposed well work addressed in this application hereby acknowledges the composition possibility of the need for permits and/or approvals from local, state, or federal entities in addition to the DEP, or Oil and Gas AUG of the following: AUG 24 2018 Environmental Protection

- 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:	Erin Spine
Its:	Regional Land Supervisor

.ease No.	Grantor, Lessor, etc.	Grantee, Lessee, etc.	Royalty	Book/Page
126101	George Birklein, et al (current roaylty owner)		**	
	WM. Blaine Underwood Et ux et al (original lessor)	Equitable Gas Co.		DB186/86
	Equitable Gas Co.	Equitrans, Inc.		DB274/471
	Equitrans, Inc./Equitable Gas Company/Equitable Resrouces, Inc.	Equitrans, L.P.		DB433/777
	Equitrans, L.P.	EQT Production Company		DB396/640
	Equitrans, L.P.	EQT Production Company		OG420/10
126212	Susan L Spencer	EQT Production Company		513/207 Subsurface
125951	Mona R. Cumberledge, et al (current royalty owner)		••	
	Jacob A. Cumberledge, et ux (original lessor)	Equitable Gas Co.		DB202/294
	Equitable Gas Co.	Equitrans, Inc.		DB274/471
	Equitrans, Inc./Equitable Gas Company/Equitable Resources, Inc.	Equitrans, L.P.		DB433/777
	Equitrans, L.P.	EQT Production Company		DB396/640
126146	<u>Dulcie Frances Bonnell, et al (current royalty owner)</u>		••	
1111111	Blanche Cumberledge, et al (original lessor)	Equitable Gas Company		191/509
	Equitable Gas Company	Equitrans, Inc.		DB274/471
	Equitrans, Inc.	Equitrans, L.P.		DB433/777
	•	•		
	Equitrans, L.P.	EQT Production Company		DB396/640
<u>126171</u>	Daniel G. Cumberledge, et al (current royalty owner)	Forth Or O	**	400/500
	Gay Cumberledge, Widow, et al (original lessor)	Equitable Gas Company		193/502
	Equitable Gas Company	Equitrans, Inc.		DB274/471
	Equitrans, Inc.	Equitrans, L.P.		DB433/777
	Equitrans, L.P.	EQT Production Company		DB396/640
<u>126140</u>	Roger L. Pratt (current royalty owner)		**	
	Aumbra Pratt, Widow (original lessor)	Equitable Gas Company		191/530
	Equitable Gas Company	Equitrans, Inc.		DB274/471
	Equitrans, Inc.	Equitrans, L.P.		DB433/777
	Equitrans, L.P.	EQT Production Company		DB396/640
126154	Regina Jo Gillespie, et al (current royalty owner)		**	
	George H. Jones, et al (original lessor)	Equitable Gas Company		192/130
	Equitable Gas Company	Equitrans, Inc.		DB274/471
	Equitrans, Inc.	Equitrans, L.P.		DB433/777
	Equitrans, L.P.	EQT Production Company		DB396/640
126159	Nick A. Demoss, et al (current royalty owner)		**	
	Earl Stubbs, et ux	Equitable Gas Company		192/253
	Equitable Gas Company	Equitrans, Inc.		DB274(471 DA
	Equitrans, Inc.	Equitrans, L.P.		DB433/HPe CEIL
	Equitrans, L.P.	EQT Production Company		DB27/471 RECEIVE DB433/HPE or Cil an DB396/640 24 20
<u>126151</u>	Dorothy H. Bode, et al. (current royalty owner)		**	24 20
=	Mollie Scott, et al (original lessor)	Equitable Gas Company	E	71.191/492
	Equitable Gas Company	Equitrans, Inc.		OBZ7474ZIL ATTO
	Equitrans, Inc.	Equitrans, L.P.		DB433/777 Prot 0
	Equitrans, L.P.	EQT Production Company		AUG 24 20 in 19/1492 en art ment o DB433/TT AP rotect
126153	Jeffrey Heflin, et al (current royalty owner)		**	
	John W Ash, et al (original lessor)	Equitable Gas Company		192/80
	Equitable Gas Company	Equitable das dempary Equitrans, Inc.		DB274/471
	Equitrans, Inc.	Equitrans, L.P.		DB433/777
	• •			
	Equitrans, L.P.	EQT Production Company		DB396/640

<u>126182</u>	Robert J. Nichols, et al (current royalty owner)		**	
	Talmage Nichols, et ux (original lessor)	Equitable Gas Company		195/381
	Equitable Gas Company	Equitrans, Inc.		DB274/471
	Equitrans, Inc.	Equitrans, L.P.		DB433/777
	Equitrans, L.P.	EQT Production Company		DB396/640
126183	Robert J. Nichols, et al (current royalty owner)		**	
	Talmage Nichols, et ux (original lessor)	Equitable Gas Company		195/378
	Equitable Gas Company	Equitrans, Inc.		DB274/471
	Equitrans, Inc.	Equitrans, L.P.		DB433/777
	Equitrans, L.P.	EQT Production Company		DB396/640
126239	Paul Taliman, et al (current royalty owner)		**	
	Erma M. Pitts, et al (original lessor)	Equitable Gas Company		98/357
	Equitable Gas Company	Equitrans, Inc.		154/475
	Equitrans, Inc.	Equitrans, L.P.		329/645
	Equitrans, L.P.	EQT Production Company		OG268/689

^{**} Per West Virginia Code Section 22-6-8.





July 16, 2018

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

Re: SHR60 well pad, well numbers SHR60H5, SHR60H6, SHR60H7, SHR60H8 McElroy District, Tyler 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,

Erin Spine

Regional Land Supervisor

Office of Cil and Gas

AUG 24 2018

Environmental Protection

Date of Notice Certification: 07/26/2018

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

Date of Notic	ce Certification: 07/26/2018		API No. 47- 095			
			-	Well No. SHRE	0H7	
		•	Well Pad N	Name: SHR60		
Notice has I	been given:					
Pursuant to th	ne provisions in West Virginia Code §	22-6A, the Operator has provi	ded the rec	quired parties w	ith the Notice Forms listed	
	tract of land as follows:	_	.			
State:	w		Easting:	516269.36		
County:	Tyler	r	Northing:	4360580.01		
District:	McElroy	Public Road Acces		60/2		
Quadrangle:	Shirley	Generally used far	Generally used farm name: Vivian J. Wells			
Watershed:	Morrison Run of McElroy Creek					
it has provide information re of giving the requirements Virginia Code	the secretary, shall be verified and sled the owners of the surface described equired by subsections (b) and (c), se surface owner notice of entry to surface owner notice of extra to surface of subsection (b), section sixteen of e § 22-6A-11(b), the applicant shall to have been completed by the applicant	need in subdivisions (1), (2) and ction sixteen of this article; (ii) rivey pursuant to subsection (a f this article were waived in vender proof of and certify to the	d (4), subs that the re), section vriting by	section (b), sec quirement was ten of this artic the surface ow	tion ten of this article, the deemed satisfied as a result ele six-a; or (iii) the notice mer; and Pursuant to West	
that the Ope	West Virginia Code § 22-6A, the Operator has properly served the required	erator has attached proof to thi d parties with the following:	s Notice C	ertification	OOG OFFICE USE ONLY	
☐ 1. NO	TICE OF SEISMIC ACTIVITY or	■ NOTICE NOT REQUIRE SEISMIC ACTIVITY WAS			RECEIVED/ NOT REQUIRED	
☐ 2. NO	TICE OF ENTRY FOR PLAT SURV	EY or 🔳 NO PLAT SURVE	Y WAS C	ONDUCTED	☐ RECEIVED	
■ 3. NO	TICE OF INTENT TO DRILL or	NOTICE NOT REQUIRED NOTICE OF ENTRY FOR PEWAS CONDUCTED OF			RECEIVED/ NOT REQUIRED	
		☐ WRITTEN WAIVER B (PLEASE ATTACH)	Y SURFA	CE OWNER		
■ 4. NO	TICE OF PLANNED OPERATION				□ RECEIVED	
■ 5. PUI	BLIC NOTICE			RECEIVED fice of Oil and C		
■ 6. NO	TICE OF APPLICATION		14.0	UG 24 2018	— , — , — , — ,	
			Enviro	V <u>Department o</u> inniental Protec	tion	

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.

Certification of Notice is hereby given:

THEREFORE, I Erin Spine , 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:

Erin Spine

Its:

Regional Land Supervisor

Telephone: 304-848-0035

Address: 2400 Ansys Drive, Suite 200

Canonsburg PA 15317

Facsimile: 304-848-0041

Email: espine@eqt.com

NOTARY PUBLIC STATE OF WEST VIRGINIA REBECCA L. WANSTREET EUT PRODUCTION COMPANY PO BOX 280
BRIDGEPORT, WV 26330
My complission expires April 07, 2020

Subscribed and sworn before me this 22 day of HUQUST 2018.

· ruguo.

My Commission Expires

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.

Office of Oil and Gas

AUG 2 4 2018

Wy Department of Environmental Protection

WW-6A (9-13) API NO. 47-095 7 0 9 5 0 2 5 4 3
OPERATOR WELL NO. SHR60H7
Well Pad Name: SHR60

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 8/24 18 Date Permit Application Filed: 8/24 18 Notice of: PERMIT FOR ANY ☐ CERTIFICATE OF APPROVAL FOR THE WELL WORK CONSTRUCTION OF AN IMPOUNDMENT OR PIT Delivery method pursuant to West Virginia Code § 22-6A-10(b) PERSONAL ☐ REGISTERED ☐ METHOD OF DELIVERY THAT REQUIRES A SERVICE RECEIPT OR SIGNATURE CONFIRMATION MAIL 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) COAL OWNER OR LESSEE Name: See Attached Name: See Attached Address: Address: COAL OPERATOR Name: Name: Address: Address: SURFACE OWNER(s) (Road and/or Other Disturbance) Name: See Attached SURFACE OWNER OF WATER WELL VAV Department of AND/OR WATER PURVEYOR(s) Address: Name: See Allached Address: Name: Address: □ OPERATOR OF ANY NATURAL GAS STORAGE FIELD SURFACE OWNER(s) (Impoundments or Pits) Name: Address: Name: See Attached Address: *Please attach additional forms if necessary

Surface Owners:

Vivian Janice Wells 1814 Oil Ridge Rd. Sistersville, WV 26175

George Birklein 121 Oxford Street Sistersville, WV 26175

Andrea Shotts 432-2 East Main Street Plymouth, PA 18651

Albina Pasko 18 Jensen St. East Brunswick NJ 08816

Clifford Haug 3894 Cellar Creek Rd Blackstone VA 23824

Timothy M. Haug 3890 Cellar Creek Rd Blackstone VA 23824

Benjamin A. Haug 3890 Cellar Creek Rd Blackstone VA 23824

Jean Jackubowski 158 Baumgardner Road Willow Street PA 17584

Theodore Jackubowski 1212 Kelso Blvd Windermere FL 34786

Louis Jackubowski, Jr. 1922 Robindale Ave Lancaster, PA 17601

Mary Jean Ross 904 Truce Road Holtwood PA 17532

Susan Buzzard 21 Cherokee Road Willow Street PA 17584

Sharon Graeff 3217 Eisenbrown Rd Reading PA 19605

Virginia Hornberger 3415 River Road Reading PA 19605

Anthony Jackubowski, Jr. 535 Shawnee Street Wilkes-barre PA 18702 Raymond A. Jackubowski 123 North Pioneer Avenue Shavertown, PA 18708-1027

Beverly A. Chisdock 213 Lehigh Street Avoca, Pa 18641-1011

Cynthia Kryzwicki 213 Nicholson Street Wilkes-Barre, PA 18702

Lisa Wesolowski 254 Lampman Street Avoca, PA 18641-1010

Gary A Midcap etal 55 Temple Circle Sistersville WV 26175

Surface Owners (road or other disturbance):

Vivian Janice Wells 1814 Oil Ridge Rd. Sistersville, WV 26175

George Birklein 121 Oxford Street Sistersville, WV 26175

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Cynthia Kryzwicki 213 Nicholson Street Wilkes-Barre, PA 18702

Lisa Wesolowski 254 Lampman Street Avoca, PA 18641-1010

John Paul Davis 45 Crystal Lake Road, West Union, WV 26456-8932

Richard E. Hansen 1043 Low Gap Road Wilbur WV 26459

Joyce K. Hill 88 Arvilla Road Bens Run, WV 26146

Terry J. Cumberledge 1384 Pratts Run Road Alma, WV 26320

BC Farm Investments LLC P. O. Box 1183 Cannonsburg, PA 15317

Gary A Midcap etal 55 Temple Circle Sistersville WV

Susan L. Spencer HC 74 Box 98 Alma WV 26320 -9710

RECEIVED
Office of Oil and Gas

AUG 24 2018

Surface Owners (Pits or impoundments):

Vivian Janice Wells 1814 Oil Ridge Rd. Sistersville, WV 26175

George Birklein 121 Oxford Street Sistersville, WV 26175

Andrea Shotts 432-2 East Main Street Plymouth, PA 18651

Albina Pasko 18 Jensen St. East Brunswick NJ 08816

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Lisa Wesolowski 254 Lampman Street Avoca, PA 18641-1010

RECEIVED
Office of Oil and Gas

AUG 24 2018

Coal Owner

Vivian Janice Wells 1814 Oil Ridge Rd. Sistersville, WV 26175

Jean Jackubowski 158 Baumgardner Road Willow Street PA 17584

Raymond A. Jackubowski 123 North Pioneer Avenue Shavertown, PA 18708-1027

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Albina Pasko 18 Jensen St. East Brunswick NJ 08816

George Birklein 121 Oxford Street Sistersville, WV 26175

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Office of Oil and Gas

AUG 24 2018

Owners of Water Wells

No water owners within 2000 feet.

RECEIVED Office of Oil and Gas

AUG 24 2018

4709502543

API NO. 47-095

OPERATOR WELL NO. SHR60H7

Well Pad Name: SHR60

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.

qualified to test water supplies in accordance with standard acceptable memous.

Office of Oil and Gas

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.gowdil-2 4 2018 and-gas/pages/default.aspx.

and-gas/pages/default.aspx.

Environmental Protection

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, if any, by the secretary that the well location restrictions regarding occupied dwelling structures are inadequate or otherwise require alteration to address the items WW-6A (8-13) API NO. 47-7950 9 5 0 2 5 4 3
OPERATOR WELL NO. SHREOH7

Well Pad Name: SHR60

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 fire witten comments with the secretary as to the location or construction of the applicant's proposed well work within thirty days after the Gas application is filed with the secretary. All persons described in West Virginia Code § 22-6A-10(b) may file written or the location or construction of the applicant's proposed well work to the Secretary at:

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

WV Department of Environmental Protection

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

WW-6A (8-13) API NO. 47-495 0 9 5 0 2 5 4 3
OPERATOR WELL NO. SHR60H7
Well Pad Name: SHR60

Time Limits and Methods for Filing Comments.

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

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

Comment Requirements

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

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

Permit Denial or Condition

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

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

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

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

Office of Oil and Gas

AUG 24 2018

WW-6A (8-13)

4709502543

API NO. 47-095 OPERATOR WELL NO. SHR60H7 Well Pal Mand: SHRED

Notice is hereby given by:

Well Operator: EQT Production Company

Telephone: 304-848-0035 Email: espine@eqt.com

Address: 2400 Ansys Drive Suite 200

Canonsburg PA 15317

Facsimile: 304-848-0041

Oil and Gas Privacy Notice:

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

OFFICIAL SEAL
MOTARY PUBLIC
STATE OF WEST VIRGINIA
REBECCA L. WANSTREET
EQT PRODUCTION COMPANY PO BOX 280 BRIDGEPORT, WV 26330 complission expires April 07, 2020

Subscribed and sworn before me this 22 day of August

Notary Public

My Commission Expires

Office of Oil and Gas Environmental Protection

Topo Quad: Shirley 7.5' 1"=1000" Scale: County: Tyler Date: August 3, 2018 McElroy District: Project No: 208-12-C-13 Water SHR 60 PAD 2 Potential Water Sources within 2,500 Site 2 Site 3 NAD 27, North Zone LEGEND E: 1,629,439.22 2 4 2018 Red Symbol - Declined Sampling Blue Symbol - Requested Sampling Environmental Prote / Unable to Contact WGS 84 Well LAT: 39.394582 Spring Pond LONG: -80.811061



Building

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

ELEV: 1012.00'

2400 Ansys Drive, Suite 200 Canonsburg, PA 15317

Surface Owners:

Vivian Janice Wells 1814 Oil Ridge Rd. Sistersville, WV 26175

George Birklein 121 Oxford Street Sistersville, WV 26175

Andrea Shotts 432-2 East Main Street / Plymouth, PA 18651

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Gary A Midcap etal 55 Temple Circle Sistersville WV 26175

Office of Oil and Gas

AUG 24 2018

Environmental Protection

Surface Owners (road or other disturbance):

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Richard E. Hansen 1043 Low Gap Road Wilbur WV 26459

Joyce K. Hill 88 Arvilla Road Bens Run, WV 26146

Terry J. Cumberledge / 1384 Pratts Run Road Alma, WV 26320

BC Farm Investments LLC P. O. Box 1183 Cannonsburg, PA 15317

Gary A Midcap etal 55 Temple Circle Sistersville WV

Susan L. Spencer HC 74 Box 98 Alma WV 26320 -9710 Office of Oil and Gas

AUG 24 2018

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Coal Owner

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AUG 24 2018

Owners of Water Wells

No water owners within 2000 feet.

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AUG 24 2018

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 Date of Noti		ed at least TEN (10) days prior to filing a Permit Application Filed: 06/10/2018	permit application.
Delivery me	thod pursuant to West Virginia Cod	le § 22-6A-16(b)	
☐ HAND	■ CERTIFIED MAIL		
DELIVI		REQUESTED	
receipt reque drilling a hor of this subsec subsection m	sted or hand delivery, give the surface izontal well: <i>Provided</i> , That notice getion as of the date the notice was provay be waived in writing by the surface	e owner notice of its intent to enter upon to iven pursuant to subsection (a), section to vided to the surface owner: <i>Provided</i> , how	, an operator shall, by certified mail return the surface owner's land for the purpose of en of this article satisfies the requirements wever, That the notice requirements of this lude the name, address, telephone number, or's authorized representative.
	reby provided to the SURFACE		
Name: See Atta		Name: See Attached	
Address:		Address:	
		a horizontal well on the tract of land as for the state of land as fore	well operator has an intent to enter upon ollows: 516269.36 4360580.01 60/2 Vivian J. Wells
	Chall Include:		
Pursuant to facsimile num	West Virginia Code § 22-6A-16(b), nber and electronic mail address of	the operator and the operator's authoriz	ress, telephone number, and if available, ed representative. Additional information of Environmental Protection headquarters, ep.wv.gov/oil-and-gas/pages/defaultoaspages/Gas
facsimile nui related to ho located at 60	West Virginia Code § 22-6A-16(b), nber and electronic mail address of	the operator and the operator's authoriz	ed representative. Additional information of Environmental Protection headquarters, ep.wv.gov/oil-and-gas/pages/default.asp. Gas
Pursuant to facsimile nui related to ho located at 60 Notice is he	West Virginia Code § 22-6A-16(b), nber and electronic mail address of rizontal drilling may be obtained from 1 57 th Street, SE, Charleston, WV 253	the operator and the operator's authoriz	ed representative. Additional information of Environmental Protection headquarters, ep.wv.gov/oil-and-gas/pages/default/asp. Gas
Pursuant to facsimile numeriated to holocated at 60 Notice is he Well Operator	West Virginia Code § 22-6A-16(b), nber and electronic mail address of rizontal drilling may be obtained from 1 57 th Street, SE, Charleston, WV 253 reby given by:	the operator and the operator's authoriz n the Secretary, at the WV Department of 104 (304-926-0450) or by visiting www.de	ed representative. Additional information of Environmental Protection headquarters, ep.wv.gov/oil-and-gas/pages/default/asp. Gas
Pursuant to facsimile nun related to ho located at 60 Notice is he Well Operato Address: Canonsburg PA	West Virginia Code § 22-6A-16(b), nber and electronic mail address of rizontal drilling may be obtained fron 1 57 th Street, SE, Charleston, WV 253 reby given by: r: EQT Production Company 2400 Ansys Drive, Suite 200	the operator and the operator's authorizen the Secretary, at the WV Department of 04 (304-926-0450) or by visiting <a href="https://www.department.com/www.department</td><td>ed representative. Additional information of Environmental Protection headquarters, ep.wv.gov/oil-and-gas/pages/default-asp. Gas</td></tr><tr><td>Pursuant to facsimile nuite related to hos located at 60 Notice is he Well Operate Address: Canonsburg PA Telephone:</td><td>West Virginia Code § 22-6A-16(b), nber and electronic mail address of rizontal drilling may be obtained fron 1 57<sup>th</sup> Street, SE, Charleston, WV 253 reby given by: r: EQT Production Company 2400 Ansys Drive, Suite 200</td><td>the operator and the operator's authorized the Secretary, at the WV Department of 104 (304-926-0450) or by visiting <a href=" https:="" td="" www.deman<="" www.demander.com=""><td>ed representative. Additional information of Environmental Protection headquarters, ep.wv.gov/oil-and-gas/pages/default/asp. Gas</td>	ed representative. Additional information of Environmental Protection headquarters, ep.wv.gov/oil-and-gas/pages/default/asp. Gas
Pursuant to facsimile nui related to ho located at 60 Notice is he	West Virginia Code § 22-6A-16(b), nber and electronic mail address of rizontal drilling may be obtained from 1 57 th Street, SE, Charleston, WV 253 reby given by: T: EQT Production Company 2400 Ansys Drive, Suite 200	the operator and the operator's authorized the Secretary, at the WV Department of 104 (304-926-0450) or by visiting	

Oil and Gas Privacy Notice:

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

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George Birklein 121 Oxford Street Sistersville, WV 26175

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Office of Oil and Gas
AUG 24 2018

WW-6A5 (1/12)

Operator Well No. SHR60H7

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

Delivery met	hod pursuant to West Virginia Co	ode § 22-6A-16(c)			
■ CERTI	FIED MAIL	☐ HAND			
	RN RECEIPT REQUESTED	DELIVERY			
return receipt the planned of required to be drilling of a l damages to th (d) The notice of notice.	V. Va. Code § 22-6A-16(c), no late requested or hand delivery, give the operation. The notice required by a provided by subsection (b), section horizontal well; and (3) A proposed as surface affected by oil and gas operate surface affected by this section shall be get by provided to the SURFACE OV	e surface owner whose land this subsection shall inclu ten of this article to a surf d surface use and compen- erations to the extent the da given to the surface owner a	I will be used for de: (1) A copy ace owner whose sation agreement mages are com	or the drilling of a of this code sect the land will be used to containing an opensable under ar	horizontal well notice of tion; (2) The information ed in conjunction with the offer of compensation for ticle six-b of this chapter.
(at the addres	s listed in the records of the sheriff a	at the time of notice):			
Name: See Atta	ched	Name:	See Attached		
Address:	0		ne undersigned		
Notice is her Pursuant to W operation on State: County: District:	eby given: /est Virginia Code § 22-6A-16(c), no	otice is hereby given that the pose of drilling a horizonta UTM NAD & Public Road	ne undersigned of the trace of		
Address: Notice is her Pursuant to W	eby given: /est Virginia Code § 22-6A-16(c), note the surface owner's land for the purww Tyler McElroy	otice is hereby given that the pose of drilling a horizonta UTM NAD & Public Road	ne undersigned of the undersigne	et of land as follo 516269.36 4360580.01 60/2	
Notice is her Pursuant to Woperation on State: County: District: Quadrangle: Watershed: This Notice S Pursuant to Wood to be provide horizontal we surface affect information r headquarters,	eby given: /est Virginia Code § 22-6A-16(e), not the surface owner's land for the pur w/ Tyler McElroy Shirley Morrison Run of McElroy Creek Shall Include: /est Virginia Code § 22-6A-16(e), the day W. Va. Code § 22-6A-10(b) ell; and (3) A proposed surface use a led by oil and gas operations to the elated to horizontal drilling may be located at 601 57th Street, SE,	otice is hereby given that the pose of drilling a horizonta UTM NAD & Public Road Generally use this notice shall include: (1 to a surface owner whose and compensation agreement extent the damages are contained from the Secretary of the secreta	he undersigned of well on the tra Basting: Northing: Access: ed farm name: A copy of this e land will be undersontaining arompensable undersy, at the WV	code section; (2) sed in conjunction offer of compensus. Department of I	The information required on with the drilling of a sation for damages to the f this chapter. Additional Environmental Protection yww.den.wy.gov/oil-and-
Notice is her Pursuant to W operation on State: County: District: Quadrangle: Watershed: This Notice S Pursuant to W to be provide horizontal we surface affect information r headquarters, gas/pages/def	eby given: /est Virginia Code § 22-6A-16(c), not the surface owner's land for the pur w/ Tyler McElroy Shirley Morrison Run of McElroy Creek Shall Include: /est Virginia Code § 22-6A-16(c), the drop w/	otice is hereby given that the pose of drilling a horizonta UTM NAD & Public Road Generally use this notice shall include: (1 to a surface owner whose and compensation agreement extent the damages are one obtained from the Secret Charleston, WV 25304	he undersigned of well on the tra Easting: Northing: Access: ed farm name: A copy of this e land will be understanded to the containing arompensable underly, at the WV (304-926-0450)	ect of land as follo 516269.36 4360580.01 60/2 Vivian J. Wells code section; (2) ased in conjunction offer of compension article six-b of the properties of the properti	The information required on with the drilling of a sation for damages to the f this chapter. Additional Environmental Protection yww.den.wy.gov/oil-and-
Notice is her Pursuant to W operation on State: County: District: Quadrangle: Watershed: This Notice 5 Pursuant to W to be provide horizontal we surface affect information r headquarters, gas/pages/def	eby given: //est Virginia Code § 22-6A-16(c), not the surface owner's land for the pur w/ Tyler McElroy Shirley Morrison Run of McElroy Creek Shall Include: //est Virginia Code § 22-6A-16(c), the downward of the surface use a led by w. Va. Code § 22-6A-10(b) and (3) A proposed surface use a led by oil and gas operations to the elated to horizontal drilling may be located at 601 57th Street, SE, ault.aspx.	otice is hereby given that the pose of drilling a horizonta UTM NAD & Public Road Generally use this notice shall include: (1 to a surface owner whose and compensation agreement extent the damages are contained from the Secretary of the secreta	he undersigned of well on the tra Easting: Northing: Access: ed farm name: A copy of this e land will be und tarry, at the WV (304-926-0450)	ct of land as follo 516269.36 4360580.01 60/2 Vivian J. Wells code section; (2) used in conjunction offer of compender article six-b of Department of I or by visiting y	The information required on with the drilling of a sation for damages to the f this chapter. Additional Environmental Protection
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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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WEST VIRGINIA DEPARTMENT OF TRANSPORTATION

Division of Highways

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

Revised July 3, 2018

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

Jill M. Newman Deputy Commissioner

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 SHR 60 Well Pad, Tyler County

SHR 60 H1	SHR 60 H2	SHR 60 H3
SHR 60 H4	SHR 60 H5	SHR 60 H6
SHR 60 H7	SHR 60 H8	SHR 60 H9
SHR 60 H10	SHR 60 H11	SHR 60 H12
SHR 60 H13		

2000 12000

Dear Mr. Martin,

This well site will be accessed from DOH Permit #06-2014-0798 issued to EQT Production Company for access to the State Road for a well site located off of Tyler County Route 60/1 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.

RECEIVED Office of Oil and Gas

Very Truly Yours,

AUG 24 2018

WV Department of Environmental Protection

Gary K. Clayton P.E.

Regional Maintenance Engineer Central Office Oil & Gas Coordinator

Cc: Nick Bumgardner

EOT Production Company

CH, OM, D-6

File

Anticipated Frac Additives Chemical Names and CAS numbers

4709502543

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

RECEIVED Office of Oil and Gas

AUG 24 2018



Office of Oil and Gas

West Virginia Department of Environmental Protection Office of Oil & Gas 601 57th Street SE Charleston, WV 25304-2345

DEP Office Use only	 -
Date Received by Oil & Gas:	
Assigned Impoundment ID #: 095-WPA00013	

Permit Associated Impoundment / Pit Registration

Instruction: This form is to be used to register impoundments or waste pits, greater than 5,000 bbls, that are associated with a WVDEP, Office of Oil and Gas, well drilling permit. An associated impoundment or pit means it has been designed and included in the well drilling permit application, will follow the reclamation time frame of well work permit, and will be approved in conjunction with the well work permit. An impoundment ID number will be assigned by WVDEP, Office of Oil and Gas, to all impoundments and pits. This impoundment ID number will be sent to the applicant following receipt of this form by WVDEP. Please reference this impoundment ID number with all future correspondence and reference to this impoundment. Conditions as described in W.Va. State Rule §35-4-21 will be followed as it relates to impoundments and pits.

Section 1 – Operator Information

Operator Name: EQT Production Company

Operator ID:	300000				
Address: Street	175 Industry Road				
City:	Waynesburg	State: PA	Zip:	15370	
Contact Name:	Douglas Conklin	Contact Title:	Optimization Ar	alyst	
Contact Phone:	(724) 271-7534	Contact Email:	dconklin@eqt.c	om	RECEIVED Office of Oir and Gas
					Gas
				-	AUG 24 2018
Section 2 - Engi	neering / Design Contractor	Information			MALE
Design will be contra	cted ■ Designed in-house □	· · · · · · · · · · · · · · · · · · ·		•	WV Department of Environmental Protection
Company Nam	e: Hornor Brothers Engineers				
Address: Stre	et P.O. Box 386				
Ci	ty: Clarksburg	State: w	/ Zip:	26302	
Contact Nam	ne: Thomas D. Corathers	Contact Title	PE, PS		
Contact Phor	ie: 304-624-6445	Contact Email	tom@hbe1902	2.com	
Certifying Profession	al Engineer: Thomas D. Corather	rs			
Professional Enginee	er Registration Number: 14161				





Office of Oil and Gas

Section 3 - Impoundment / Pit Information

Type of Structure. Check one of Freshwater Impoundme Note: Any waste in a pit will make it	ent	⊠ W	aste Pit		
Name of Structure (Company Na	ame:) E	QT-SHR 60 Flow Back	Pit		
County: Tyler	· · · · · · · · · · · · · · · · · · ·		McElroy		
<u> </u>	Shirley				
Farm Name:					
Pad Name: SHR 60		·			
	Underwood	Estate			
Physical Description of Location	From inte	rsection Tyler Co Rte 60/2	& Tyler Co.Rte	60/1 & Site Access	s Road
travel northwesterly along access roa	•	<u> </u>		· · · · · · · · · · · · · · · · · · ·	
(Note: Give general location, example: 2	miles south	of Smalltown, WV on Rt. 22, I	eft on Buffalo Cr	eek)	
Watershed (nearest perennial):	Morriso	n Run			
Distance (Drainage Distance) to	nearest pe	erennial stream: appr	oximately 400 t	feet	
,	·				
Location Coordinates (NAD83, E	Decimal De	grees (xx.xxxx, -xx.xxx	x))		
Latitude: 39.393399	Longit	ude (Use negative sigi	n): -80.8108	02	
UTM Coordinates : UTM 83	-17NF:1693	8867.689569 E UT	M 83-17NF:14	305913.201097	N
Access Road Coordinates (junct	ion of state	highway access)	<u> </u>		
Latitude: 39.383561	Long	itude (Use negative sig	gn):80.800	365	
UTM Coordinates : UTM	83-17NF:169	96682.830031 E UT	M 83-17NF:14	302337.088710	N
Approximate Dimensions					
Length: 235	_ *******	174	_ Height: _	14'	Office of O'
Note: If irregularly shaped, give approxing	nate dimensio	ons of long axis.			Office of Oil and Gas
Total Capacity – Provide all units	s of measu	re below:			AUG 24 2018
Barrels: 66,028	Gallons:	2,773,363	_ Acre-Feet:	8.511	į
					WV Department of Environmental Protection
Capacity with 2' Freeboad – Pro	vide all uni	its of measure below:			ctior Protection
Barrels: 52,185	Gallons:	2,191,927	_ Acre-Feet:	6.727	
Incised volume:					
Barrels: 8,616	Gallons:	361,906	_ Acre-Feet:	1.111	
Net impounded volume: (Total v	olume less	incised volume.)			
Barrels: 43,569	Gallons:	1,830,021	_ Acre-Feet:	5.616	
Anticipated Construction Start D			-411140/055		
Note: No construction may beging calendar days prior to confirmed	1 ON ASSOC	cioated impoundment u	Office of Oil	issues the drillin & Gas, and the	g permit. At least 7
inspector of construction start da					



Section 4 - Associated Well Numbers and API Numbers. List associated well numbers and API number. API numbers may not be assigned at time of registering this impoundment, if so list as pending.

Well Number(s):	API Number(s) – If issued:
SHR60H1 SHR60H2	47-095-02257 47-095-02264
SHR60H3 SHR60H4	47-095-02255 47-095-02220
SHR60H5 SHR60H6	
SHR60H7 SHR60H8	•
SHR60H9 SHR60H10	
SHR60H11 SHR60H12	

Section 5 -	Required In	formation (Checklist	To Registe	er Permit Asso	ciated
Impoundme	ents or Pits.	Include the	following i	nformation	and plans with	application

- Engineered Construction Plans, certified by WV Registered P.E.
- Erosion and Sediment Control Plan, certified by WV Registered P.E.
- Reclamation Plan, certified by WV Registered P.E.

Section 6 - Dam Standard Qualifying Evaluation

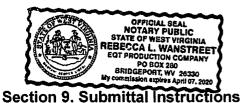
Section 6 - Dam Standard Qualitying Evaluation	
The design of this structure has been evaluated by the applicant to determine it does defined as a dam, under W.Va Rule §47-34. If the design of this structure qualifies all permits regulating dams will be required prior to registering the structure with the The dam standard, from the WVDEP, Div. Of Water and Waste, is available for reventup://www.dep.wv.gov/WWE/ee/ds/Pages/default.aspx	ew at: AUG 2 4 2018
	Environment of
Section 7 - Comments - Provide any additional comments concerning thi	Environmental Frotection

Section 8 - Application Certification

I hereby certify that the information listed above is true and accurate. I understand that this pit/impoundment is to be constructed only in a location appropriate for the storage of water, including wastewater, and will be constructed in accordance with plans designed and certified by a West Virginia registered professional engineer. I further recognize that all required plans have been submitted to the Office of Oil and Gas. I understand that after construction, and prior to any fluid being placed in the pit/impoundment, it shall be inspected by a West Virginia registered professional engineer to ensure compliance with the certified design and construction plan, and that the professional engineer shall certify that this structure was constructed in accordance with design and construction plans. I understand that such certification shall be in writing to the Chief and that no fluids may be placed in the pit/impoundment until the certification has been filed with the chief. I agree that this pit/impoundment shall be constructed, maintained, operated and closed in accordance with all applicable laws and rules, including the requirements of W. Va. Code R § 35-4-2.

Name:	Erin Spine	
Title:	Regional Land Supervisor	
Signature:	2. Sp.:	
Taken, subscri	ibed a nd s worn to before me this, <u>24</u> Day of <u>JUIV</u> 20 <u>18</u>	
Notary Public:	ibed and sworn to before me this, 24 Day of JULY 20 18	
My commission	n expires: 4-7-2020	
Matau Onali		

Notary Seal:



RECEIVED Office of Oil and Gas

AUG 24 2018

WV Department of Environmental Protection

Submit original paper copy of application to:

West Virginia Department of Environmental Protection
Office of Oil and Gas
Impoundment Registration
601 57th Street, SE
Charleston WW 25304

Email PDF file format of this application and all related engineering Plans to : <u>Depimpoundments@wv.gov</u>

SHR - 60 - ALT FINAL SITE DESIGN ALT, CONSTRUCTION PLANS, & **EROSION & SEDIMENT CONTROL PLANS** EQT PRODUCTION COMPANY

West Virginia Coordinate System of 1983 State Place Grid North Elevations NAVD88 Established By Survey Grade GPS

DIRECTOR = 1.28 ACRES
FICHMENT COSTS FRANCE CO ACRES
FICHMENT STUMENT = 0.38 ACRES
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TM 10 - FY 13 VIVIAN WELLS HAI 10473 ACRES SITE DISTURBANCE

CONSIDERATION OF CONTRACT PROPORTION OF CONTR

TATOUT COMMISSI SINGS OF AL SITEDSTURBANCE

MOV ACCESS FOAD = 0.05 ACRES TOTAL DISTURBANCE = 0.05 ACRES TOTAL WOODED AREA DISTURBANCE = 0.23 ACRES

TM 184 PCL 15 SUSAN SPENCER 8 AGRES SITE DISTURBANCE

MAIN ACCESS POAD + 665 ACRES TOTAL DISTURBANCE = 0 85 ACREE
TOTAL WOODED AREA DISTURBANCE = LIST ACRES

TM 15 - PCL 18 DONALDE BRILE 25 5 RCRES SITE DISTURBANCE

MAIN ACCESS ROAD = 1 JA ACRES TOTAL DISTURBANCE = 124 ACRES TOTAL WOODED AREA DISTURBANCE = 5 91 ACRES

IM 19- PCL 17 ALTER FORWARD 40 AGRES SITE D'STUTEANCE

MAIN ACCESS ROAD = 1 II ACRAS
TOTAL DISTURBANCE = 1 IS ACRES
TOTAL WOODED AREA DISTURBANCE = 1 04 ACRES

TM 18 - PCL 18 TERRY CUMBERLEDGE WM 49 87 ACKS S SITE DISTURBANCE

MAIN ADDESS ROAD | 122 ACRES TOTAL DISTURBANCE = 1,27 ACRES TOTAL WOODED AWA DISTURBANCE = 0 ANACHES

TM 18-PCL 19 JOHN PAUL DAVIS 3N ACRES SITE DISTURBANCE

MOTIV ACCESS ROAD = : 24 ACRES TOTAL DISTURBANCE = 1.24 ACRES
TOTAL WOODED AREA DISTURBANCE = 0.73 ACRES

MAIN ACCESS ROAD + 11 ACRES TOTAL DISTURBANCE + 113 ACRES TOTAL INDOCED AREA DISTURBANCE + 0 NO. ACRES

DATE	REVISIONS	Date: 19.817914
1311 2011	CAN PERSON AND THE PROPERTY OF THE PARTY OF	Scale: AS NOTED
19352914	SUBSTRACT SERVICES	Disgraphy Effe & LBC
		Ness MUSEL
		No. 1 of 21

FLOODPLAIN CONDITIONS DO SITE CONSTRUCTION ACTIVITIES TAKE PLACE IN FLOODPLAIR. PERMIT NEEDED FROM COUNTY FLOODPLAIN COORDINATOR. HET PAS STILLY COURSETED NA PLOCOPLAIN SHOWN ON DRAWINGS N/A FIRM WAR NUMBER (SVEOR SITE 54095C0175C ACREAGES OF CONSTRUCTION IN FLOODPLAIN NA



APPROVED WVDEP OOG

3-24-15

NO WETLANDS ARE IMPACTED THE CURRENT SOIL ON IS 6 3

Dasign Contilization

The grawings, construction notes, and reterence The disenting Continuent rooms are released to Cligarian Statched heleto have been proposed in secondaria each time Vess Virginia Code of State Ruse, Division of Environmental Procession, Office of Old and See §35-4-31. The information inflicts a temporary traciple point, The computed school grade imaging volume is less than 15 acro (set filing method purmon, frac, bodd is losed.

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



Know what's below. Call before you dig.





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Project Contacts

Chits Metroix - EQT Production Company 304-846-0075 Office

Steve Gum - Dominion Hop 304-672-9921

Surveyor & Engineer

Ben Skipleton - PS - Allegheny Surveys Inc. 334-649-8506 Off.

Tom Constitues - PE, PS - Nomor Brothers Engineers 304-624-6445 Office

AFFECTED PROPERTES

e o



Engine



PRITARID FOR COMPANY

ALT - 60 SITE SHR PAD DRILL

