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
www.dep.wv.gov

July 26, 2016

WELL WORK PERMIT

Horizontal 6A Well

This permit, API Well Number: 47-8510289, issued to EQT PRODUCTION COMPANY, 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 all 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 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.

In addition to the applicable requirements of this permit, and the statutes and rules governing oil and gas activity in WV, this permit may contain specific conditions which must be followed. Permit conditions are attached to this cover letter.

Per 35CSR-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) 926-0499 ext. 1654.

James Martin
Chief

Operator's Well No: 515966
Farm Name: WILSON, JAMES H & WILMA J
API Well Number: 47-8510289
Permit Type: Horizontal 6A Well
Date Issued: 07/26/2016

API Number: 85-10289

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. Operator shall take additional measures with this permitted activity to avoid communication with offset wells. Such additional measures are described in the attached addendum. This addendum is part of the terms of the well work permit, and includes a description of depth and completed formations of offset wells. Also included is a description of monitoring activities that will take place during fracturing operations of the permitted well work.

2. This proposed activity may require permit coverage from the United States Army Corps of Engineers (USACOE). Through this permit, you are hereby being advised to consult with USACOE regarding this proposed activity.

3. 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.

4. 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.

5. 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.

6. 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.

API Number: _____

PERMIT CONDITIONS

7. 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.

8. 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.

9. 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.

10. 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.

85-10289

EQT Production

Hydraulic Fracturing Monitoring Plan

Pad ID: PUL96

Ritchie County, WV

3/15/16

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Purpose

The purpose of this pad-specific Hydraulic Fracturing Monitoring Plan is to identify and notify conventional well operators near EQT hydraulic fracturing in Ritchie County, WV prior to hydraulic fracturing at the following EQT well(s) on the PUL96 pad: 515966

Due to the apparent presence of unique geological conditions, the potential for communication between deep geologic zones exists in this area. This potential communication, via natural gas, water, or both, may occur between hydraulically fractured wells in the Marcellus formation (approximately 6,400' TVD) and existing conventional natural gas wells in the partially-depleted, relatively high permeability Alexander formation (approximately 5,200' TVD).

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 pre-notification of conventional well operators of the timing and location of the hydraulic fracturing, establishment of measures conventional 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 Conventional Well Operators

EQT, using available data (WV Geological Survey, WVDEP website, and IHS data service), has identified all known conventional wells and well operators within 1,500 feet of this pad and the lateral sections. A map showing these wells along with a list of the wells and operators is included in **Attachment A.**

Upon approval of this plan, EQT will notify these operators, via letter, of the hydraulic fracturing schedule for these wells. A copy of this letter is included in **Attachment B.**

The letter provides recommendations to these conventional operators to 1) increase their monitoring of their wells during that time period, 2) ensure that their well head equipment is sound, and 3) provide immediate notification to EQT and the OOG in the event of any changes in their well conditions.

Specifically, the letter recommends that conventional well operators conduct the following activities during and after fracturing operations:

1. Inspect their surface equipment prior to fracturing to establish integrity and establish pre-frac well conditions
2. Observe wells closely during and after fracturing and monitor for abnormal increases in water, gas or pressure
3. Inspect or install master valves rated to 3,000 psi or other necessary equipment for wellhead integrity
4. Notify the OOG and EQT if any changes in water, gas production, pressure, or other anomalies are identified

2. Reporting

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

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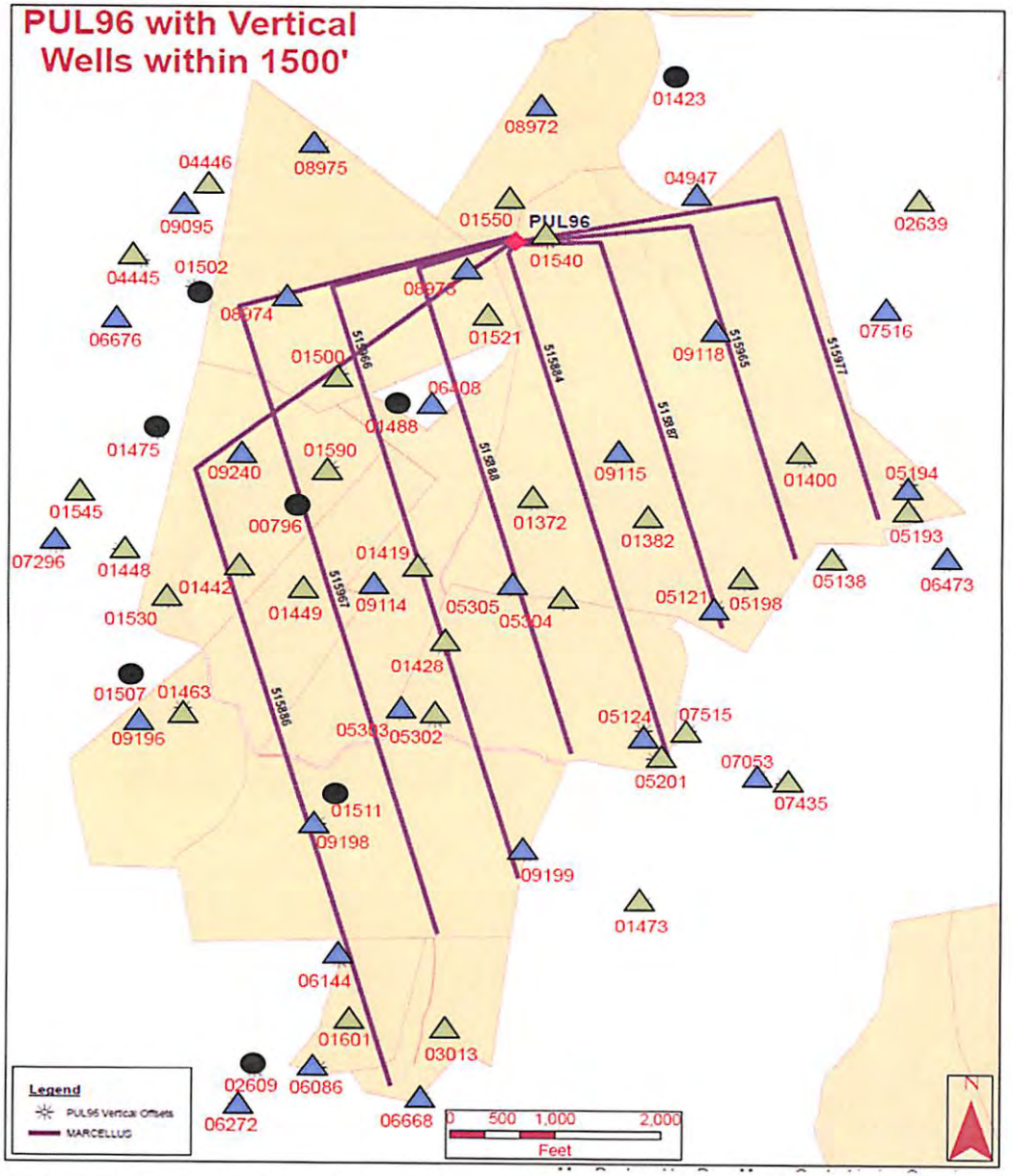
Attachment A-1

PUL96 Vertical Offsets



▲	Landed deeper than 4,000'
△	Landed shallower than 4,000'
●	Plugged

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Note: Vertical wells are only displayed if within 1500' (lateral distance) of the new/planned horizontal PUL96 wells.

85-10289

625 Liberty Ave, Suite 1700
Pittsburgh PA 15222
www.eqt.com

TEL: (412) 395-3305
FAX: (412) 395-2156

John Centofanti
Corporate Director,
Environmental Affairs

(date)

[Conventional Well Operator]
[address]
[state]

RE: Ritchie County Hydraulic Fracturing Notice

Dear Sir/Madam,

EQT has developed a Marcellus pad (Pullman 96 pad) located in Ritchie County, WV. As an owner or operator of conventional natural gas wells in this area, we are requesting your assistance in this matter.

Due to the apparent presence of unique geological conditions, the potential for communication between deep geologic zones exists in this area. This potential communication, via natural gas, water, or both, may occur between hydraulically fractured wells in the Marcellus formation (approximately 6,400' TVD) and existing conventional natural gas wells in the partially-depleted, relatively high permeability, Alexander formation (approximately 5,200' TVD).

EQT anticipates conducting hydraulic fracturing at the Pullman 96 pad during the [first,second, third,fourth] quarter of [year]. We have identified conventional natural gas wells operated by your company within 1,500' (lateral distance) of our new/planned laterals. Plats for each well on this pad are attached.

We recommend that conventional well operators conduct the following activities before, during, and after fracturing operations:

1. Inspect surface equipment, prior to fracturing, to establish integrity and establish well conditions.
2. Observe wells closely during and after fracturing and monitor for abnormal increases in water, gas, or pressure.
3. Inspect or install master valves rated to 3,000 psi or other necessary equipment for wellhead integrity.
4. Notify the OOG and EQT if any changes in water, gas production, pressure, or other anomalies are identified.

Please feel free to contact me at 412-395-3305 with any questions or comments. You may also contact the West Virginia Office of Oil and Gas at 304-926-0440.

Sincerely,
EQT Production

John Centofanti
Corporate Director, Environmental Affairs

cc: James Martin, WV Office of Oil and Gas

SAMPLE

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Attachment - B

Attachment A - 2

Well ID	Prior Operator on Record	Operator-DEP*	Status	Latitude	Longitude	Vertical TD	Closest Distance from PUL96 Lateral Map View	PUL96 Horizontal TVD minus Offset Vertical TD	Hypotenuse Distance	Producing Formation	Gas Show/Pay Zone Depths	Notes
4708500796	J L DAVIS	JL Davis	DRY-P	39.2034	-80.9934	2054	46	4235	5342.530955	Engin Sand	1925-2012	Plugged 5/7/1940
4708501372	RICHARDS ENERGY	Applied Mechanics Corp	GAS	39.2035	-80.9855	1874	363	4227	5344.050617	Big Injun	1800	Completed 1951
4708501382	ROCK CAMP OIL & GAS	Richards, Connard W & James E	GAS	39.203	-80.9816	1850	375	4269	5336.201364	Big Injun	1817	Completed 1951
4708501400	J E & C W RICHARDS	Richards, Connard W & James E	DRY	39.2048	-80.9763	1948	374	4243	5341.022842	2nd Salt Sand	1582-1587	Completed 1951
4708501419	TWIN FORKS GAS	Richards, Connard W & James E	GAS	39.2017	-80.9893	1542	6	4577	5288.485322	Salt Sands	1539	Completed 1952
4708501423	HECK & WOODFORD	Heck & Woodford	GAS-P	39.2159	-80.9807	2220	1439	4216	5346.158995	Big Injun	2189	Plugged 12/11/1961
4708501428	TWIN FORKS GAS	Richards, Connard W & James E	GAS	39.1993	-80.9884	1919	5	4230	5343.479391	Big Injun	1865	Completed 1952
4708501442	HARTMAN & RICHARDS	HARTMAN & RICHARDS	GAS	39.2015	-80.9952	1930	145	4229	5343.669619	Big Injun	1886	Completed 1953
4708501448	JOHN LOWTHER	JOHN LOWTHER	GAS	39.2021	-80.9993	1804	908	4509	5297.516871	Salt Sands	1779-1800	Completed 1953
4708501449	C W & J E RICHARDS	Twin Forks Gas	GAS	39.2009	-80.9932	1908	245	4234	5342.720281	Big Injun	1850	Completed 1953
4708501463	LOW GAP GAS	Richards, Connard W & James E	GAS	39.1975	-80.9972	2075	804	4200	5349.264622	Big Injun	2000	Completed 1953
4708501473	P O BURGY	P O BURGY	GAS	39.1919	-80.9817	1638	1210	4579	5288.232692	Big Injun	1634	Completed 1953
4708501475	BELL OIL & GAS	Richards, Connard W & James E	GAS-P	39.2055	-80.9981	2115	531	4213	5346.73779	Big Injun	2062	Plugged 5/3/1963
4708501488	STARKEY FARM GAS	Richards, Connard W & James E	GAS-P	39.2063	-80.9899	1860	297	4236	5342.341809	Keener	1772	Plugged 4/19/1963
4708501500	OHIO & WV OIL & GAS	Not available	DRY	39.2072	-80.992	1861	69	4231	5343.289343	Maxton, Keener, Big Injun	1560-1776	Completed 1953
4708501502	ELDER FARM GAS	Richards, Connard W & James E	DRY-P	39.2097	-80.9969	1870	475	4225	5344.432337	Squaw	1870	Plugged 11/17/1953
4708501507	OHIO & WV OIL & GAS	OHIO & WV OIL & GAS	DRY-P	39.1984	-80.9989	2083	1175	4197	5349.852054	Big Injun	2083	Plugged 12/28/1953
4708501511	APPLIED MECHANICS	Artex Oil Co.	GAS-P	39.195	-80.992	2164	356	4222	5345.006268	Big Injun	2113	Plugged 1970
4708501521	C W & J E RICHARDS	Richards, Connard W & James E	O&G	39.2089	-80.987	1991	370	4321	5326.926037	Keener	1992	Completed 1954
4708501530	RUBY OIL & GAS	Mossor Oil and Gas Co.	GAS	39.2006	-80.9977	2100	625	4251	5339.52629	Big Injun and Squaw	2060-2077	Completed 1954
4708501540	RICHARDS OIL & GAS	RICHARDS OIL & GAS	GAS	39.2111	-80.985	2090	8	4312	5328.496223	Keener	2090	Completed 1954
4708501545	E J FITZGERALD	E J FITZGERALD	GAS	39.2037	-81.0007	2098	1128	4238	5341.964058	Big Injun	2108	Completed 1954
4708501550	ROLLO OIL & GAS	Goose Run Gas	GAS	39.2122	-80.9863	2089	349	4308	5329.198814	Big Injun	2089	Completed 1954
4708501590	UNION GAS	Richards, Connard W & James E	GAS	39.2045	-80.9923	2064	365	4242	5341.210724	Big Injun	1975	Completed 1955
4708501601	INDIAN CREEK O & G	INDIAN CREEK O & G	DRY	39.1884	-80.9916	1082	205	5244	5246.000381	Squaw	2082	Completed 1956
4708502596	PDC	PDC	GAS	39.1831	-80.9884	2255	1347	4116	5366.322391	Pennsylvanian System, Mississippian, Big Injun, Squaw	1475-2113	Completed 1962
4708502609	ARTEX OIL	PDC	O&G-P	39.187	-80.9947	1980	1191	4173	5354.609696	Squaw	1980	Plugged 1970
4708502639	C & F OIL & GAS	Cotrille, C. C.	GAS	39.2123	-80.9724	1375	1322	4817	5263.51185	2nd Salt Sand	1375	Completed 1962
4708503013	LITTLE MO OIL & GAS	LITTLE MO OIL & GAS	GAS	39.1882	-80.9883	1920	672	4238	5341.964058	Big Injun	1857-1870	Completed 1965
4708504445	HAUGHT	HAUGHT	GAS	39.2105	-80.9987	2260	1061	4095	5370.783649	Big Injun	2144	Completed 1980
4708504446	HAUGHT	HAUGHT	GAS	39.2127	-80.9964	2279	1322	4078	5374.45253	Big Injun	2130	Completed 1980
4708504947	CHASE	CHASE	GAS	39.2125	-80.98	5445	186	899	6812.996771	Speechley, Balltown, Riley, Benson, Alexander	3482-5194	Completed 1980
4708505121	RICHARDS ENERGY	RICHARDS ENERGY	GAS	39.2005	-80.9793	5328	3	900	6812.358769	Riley, Benson, Alexander	4116-5086	Completed 1981
4708505124	RICHARDS ENERGY	RICHARDS ENERGY	GAS	39.1969	-80.9817	5372	147	938	6788.179432	Riley, Benson, Alexander	4428-5145	Completed 1981
4708505138	ALLSTATE ENERGY	ALLSTATE ENERGY	O&G	39.2019	-80.9753	2527	367	3769	5449.958257	Big Injun, Weir	2050-2364	Completed 1981
4708505193	RICHARDS ENERGY	RICHARDS ENERGY	GAS	39.2033	-80.9728	2463	299	3814	5437.93527	2nd Salt Sand, Big Injun, Weir	1686-2301	Completed 1981
4708505194	RICHARDS ENERGY	RICHARDS ENERGY	GAS	39.2041	-80.9728	5401	381	880	6825.13531	Riley, Benson, Alexander	4417-5138	Completed 1981
4708505198	RICHARDS ENERGY	RICHARDS ENERGY	GAS	39.2012	-80.9783	2490	339	3641	5486.031444	Big Injun, Weir	1868-2188	Completed 1981
4708505201	RICHARDS ENERGY	RICHARDS ENERGY	GAS	39.1961	-80.9813	2503	120	3831	5433.483321	2nd Salt Sand, Big Injun, Weir	1732-2393	Completed 1981
4708505302	RICHARDS ENERGY	RICHARDS ENERGY	GAS	39.1972	-80.9887	3727	300	2579	5885.015293	Speechley	3410-3452	Completed 1981
4708505303	RICHARDS ENERGY	RICHARDS ENERGY	GAS	39.1974	-80.9899	5262	296	1046	6720.157439	Balltown, Riley, Alexander	3888-4844	Completed 1981
4708505304	RICHARDS ENERGY	RICHARDS ENERGY	GAS	39.2006	-80.9844	3718	368	2594	5878.232728	Big Injun, Warren	2015-3413	Completed 1981/1983
4708505305	RICHARDS ENERGY	RICHARDS ENERGY	GAS	39.201	-80.9862	5265	80	1047	6719.532499	Bradford, Riley, Benson, Alexander	4134-5104	Completed 1981
4708506086	PRIOR OIL	PRIOR OIL	O&G	39.1871	-80.9926	5069	609	1072	6703.938544	Bradford, Riley, Benson, Java Fm	4215-4710	Completed 1982
4708506144	PRIOR OIL & GAS	PRIOR OIL & GAS	O&G	39.1902	-80.9919	5255	104	1126	6670.450959	Udev, Lower Huron, Alexander	3282-5168	Completed 1983
4708506272	PRIOR OIL & GAS	PRIOR OIL & GAS	O&G	39.186	-80.9953	5020	1456	1120	6674.158524	Lower Huron, Alexander	3426-4809	Completed 1983
4708506408	STALNAKER ENERGY	STALNAKER ENERGY	GAS	39.2063	-80.9888	5036	249	1074	6702.693488	Udev, Lower Huron, Java Fm, Alexander	3198-4961	Completed 1983
4708506434	PRIOR OIL & GAS	PRIOR OIL & GAS	O&G	39.1829	-80.99	5287	1326	1121	6673.540365	Udev, Lower Huron, Angola Fm	3448-5221	Completed 1983
4708506473	ALLSTATE	ALLSTATE	GAS	39.2018	-80.9716	5250	783	1124	6671.686443	Devonian, Angola Fm	2732-5188	Completed 1983

85-1085

Attachment A-3

Well ID	Prior Operator on Record	Operator-DEP*	Status	Latitude	Longitude	Vertical TD	Closest Distance from PUL96 Lateral Map View	PUL96 Horizontal TVD minus Offset Vertical TD	Hypotenuse Distance	Producing Formation	Gas Show/Pay Zone Depths	Notes
4708506668	TOWER DRILLING	TOWER DRILLING	O&G	39.1862	-80.9891	5118	322	1054	6715.16046	Udev, Lower Huron, Java Fm, Angola Fm	3231-5064	Completed 1983
4708506676	PRIOR OIL	PRIOR OIL	O&G	39.2087	-80.9995	5027	1179	1084	6696.473699	Lower Huron, Angola Fm	3571-4957	Completed 1983
4708507053	ALLSTATE	ALLSTATE	GAS	39.1956	-80.9778	5318	854.27	1051	6717.033646	Warren, Java Fm, Alexander	3414-5162	Completed 1984
4708507296	STALNAKER ENERGY	STALNAKER ENERGY	GAS	39.2022	-81.0015	5367	1496	999	6749.631471	Lower Huron, Angola Fm	5196	Completed 1985
4708507435	ALLSTATE	ALLSTATE	GAS	39.1954	-80.9769	2226	1117	4130	5363.391837	Big Injun	2032-2078	Completed 1985
4708507515	ALLSTATE	ALLSTATE	UNK	39.1969	-80.9802	2223	260	4160	5357.229881	Big Injun	2061-2107	Completed 1986
4708507516	STONEWALL GAS	STONEWALL GAS	GAS	39.2091	-80.9735	4870	698	1362	6527.325026	Warren, Lower Huron, Benson	3287-4746	Completed 1986
4708508972	STALNAKER ENERGY	STALNAKER ENERGY	GAS	39.214995	-80.98529	5164	1363	1081	6698.338675	Warren, Balltown, Riley, Benson, Alexander	3318-5047	Completed 2004
4708508973	STALNAKER ENERGY	STALNAKER ENERGY	GAS	39.210195	-80.98769	5353	16	1061	6710.792874	Warren, Speechly, Balltown, Riley, Benson, Alexander	3488-5194	Completed 2004
4708508974	STALNAKER ENERGY	STALNAKER ENERGY	GAS	39.209415	-80.993855	5039	28	1063	6709.545812	Warren, Balltown, Riley, Benson, Alexander	3186-5039	Completed 2003
4708508975	STALNAKER ENERGY	STALNAKER ENERGY	GAS	39.213765	-80.992715	5350	1403	1094	6690.263074	Warren, Balltown, Riley, Benson, Alexander	3534-5350	Completed 2003
4708509095	STALNAKER ENERGY	STALNAKER ENERGY	GAS	39.21201	-80.99717	5322	1158	1026	6732.675248	Warren, Balltown, Riley, Benson, Alexander	3457-5322	Completed 2004
4708509114	STALNAKER ENERGY	STALNAKER ENERGY	GAS	39.201105	-80.99075	5049	441	1086	6695.23084	Elizabeth, Warren, Balltown, Riley, Benson, Udev	2638-5049	Completed 2005
4708509115	STALNAKER ENERGY	STALNAKER ENERGY	GAS	39.204885	-80.98265	5047	405	1077	6700.826591	Warren, Balltown, Riley, Benson, Alexander	3178-5047	Completed 2005
4708509118	STALNAKER ENERGY	STALNAKER ENERGY	GAS	39.20844	-80.9792	5257	45	1079	6699.58245	Warren, Balltown, Riley, Benson, Alexander	3370-5257	Completed 2005
4708509196	STAKNAKER ENERGY	STAKNAKER ENERGY	GAS	39.19707	-80.9987	5108	1256	1088	6693.988348	Warren, Greenland Gap, Benson, Alexander	3253-5108	Completed 2006
4708509198	STALNAKER ENERGY	STALNAKER ENERGY	GAS	39.194145	-80.992685	5234	82	1101	6685.921103	Udev, Warren, Greenland Gap, Benson, Alexander	3374-5234	Completed 2006
4708509199	STALNAKER ENERGY	STALNAKER ENERGY	GAS	39.193305	-80.98568	5324	125	1104	6684.061639	Mauch Chunk Grp, Udev, Greenland Gap, Balltown, Riley, Bens	1998-5324	Completed 2006
4708509240	STALNAKER ENERGY	STALNAKER ENERGY	GAS	39.204885	-80.99522	5259	155	1093	6690.883723	Warren, Scherr Fm, Misc Sands	6438-5259	Completed 2006

* Most recent operator on DEP website

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Office of Oil and Gas

MAY 06 2016

WV Department of
Environmental Protection

4708510289

WW-6B
(04/15)

API NO. 47- 85 -
OPERATOR WELL NO. 515966
Well Pad Name: PUL96

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

1) Well Operator: EQT Production Company	306686	Ritchie	Union	Pullman
	Operator ID	County	District	Quadrangle

2) Operator's Well Number: 515966 Well Pad Name: PUL96

3) Farm Name/Surface Owner: James H. & Wilma J. Wilson Public Road Access: 12/3

4) Elevation, current ground: 1182 Elevation, proposed post-construction: 1182

5) Well Type (a) Gas x Oil _____ Underground Storage _____
Other _____
(b)If Gas Shallow x Deep _____
Horizontal x

Michael Doff 5/26/16

6) Existing Pad: Yes or No Yes

7) Proposed Target Formation(s), Depth(s), Anticipated Thickness and Expected Pressure(s):
Marcellus, 6376', 54', 2190 PSI, Top of Marcellus 6352'

8) Proposed Total Vertical Depth: 6376'

9) Formation at Total Vertical Depth: Marcellus

10) Proposed Total Measured Depth: 13,276'

11) Proposed Horizontal Leg Length: 6,227'

12) Approximate Fresh Water Strata Depths: 342, 368, 399, 556

13) Method to Determine Fresh Water Depths: From Offset Wells

14) Approximate Saltwater Depths: None

15) Approximate Coal Seam Depths: None

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

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

(a) If Yes, provide Mine Info: Name: _____
Depth: _____
Seam: _____
Owner: _____

Received
Office of Oil & Gas
MAY 27 2016

4708510289

WW-6B
(04/15)

API NO. 47- 85 -
OPERATOR WELL NO. 515966
Well Pad Name: PUL96

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	20	New	A-500	78.6	40	40	60 ft^3 / CTS
Fresh Water	13 3/8	New	J-55	54.5	655	655	589 ft^3 / CTS
Coal							
Intermediate	9 5/8	New	A-500	40	2566	2566	1011 ft^3 / CTS
Production	5 1/2	New	P-110	20	13276	13276	500' above top producing zone
Tubing	2 3/8		J-55	4.7		May not be run, if run set 40' above top perf or 80° inclination.	
Liners							

MAC
5/26/16

TYPE	Size (in)	Wellbore Diameter (in)	Wall Thickness (in)	Burst Pressure (psi)	Anticipated Max. Internal Pressure (psi)	Cement Type	Cement Yield (cu. ft./k)
Conductor	20	26	.375	1378	1102	Class A	1.18
Fresh Water	13 3/8	17 1/2	.38	2700	2160	See Variance	1.19
Coal							
Intermediate	9 5/8	12 3/8	.395	3950	3160	See Variance	1.19
Production	5 1/2	8 1/2	.361	12640	10112	Class H	1.07/1.86
Tubing	2 3/8	NA	.19	7700			
Liners							

PACKERS

Kind:				
Sizes:				
Depths Set:				

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(10/14)

API NO. 47-085-10289
OPERATOR WELL NO. 515966
Well Pad Name: PUL96

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 5029'. Kick off and drill curve. Drill the lateral in the Marcellus. Cement casing.

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

Hydraulic fracturing is completed in accordance with state regulations using water recycled from previously fractured wells and obtained from freshwater sources. This water is mixed with sand and a small percentage (less than 0.3%) of chemicals (including 15% Hydrochloric acid, gelling agent, gel breaker, friction reducer, biocide, and scale inhibitor), referred to in the industry as a "slickwater" completion. Maximum anticipated internal casing pressure is expected to be approximately 10000 psi, maximum anticipated treating rates are expected to average approximately 100 bpm. Stage lengths vary from 150 to 300 feet. Average approximately 200,000 barrels of water per stage. Sand sizes vary from 100 mesh to 20/40 mesh. Average approximately 200,000 pounds of sand per stage.

21) Total Area to be disturbed, including roads, 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 slurries, .25% Flake Loss Circulation Material (LCM) is used to combat the loss of the cement slurry to a thief zone.
Intermediate (Type 1 Cement): 0-3% Calcium Chloride. Salt is used in shallow, low temperature formations to speed the setting of cement slurries. 0.25% flake. Loss Circulation Material (LCM) is used to combat the loss of whole drilling fluid or cement slurry (not filtrate) to a thief zone.
Production:
Lead (Type H Cement): 0.2% CD-20 (dispersant makes cement easier to mix). .15% SuperFL-300 (fluid loss/lengthens thickening time) .15% SEC-10 (fluid loss) 50:50 POZ (extender).
Tail (Type H Cement): 0.2% Super CR-1 (Retarder). Lengthens thickening time. .3% Super FL-200 (fluid loss) .2% SEC-10 (Fluid loss). .2% SuperFL-350 (fluid loss) Reduces amount of water lost to formation. 60 % Calcuim Carbonate. Acid solubility.

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25) Proposed borehole conditioning procedures:

Surface: Circulate hole clean while rotating & reciprocating the drill string until cuttings diminish at surface.
Intermediate: Circulate hole clean while rotating & reciprocating the drill string until cuttings diminish at surface.
Production: Pump marker sweep with nut plug to determine actual hole washout. Calculate a gauge holes bottoms up volume. Perform a cleanup cycle by pumping 3-5 bottoms up or until the shakers are clean. Check volume of cuttings coming across the shakers every 15 minutes.

*Note: Attach additional sheets as needed.

MDC 5/26/16

Well 515966(PUL96H9)

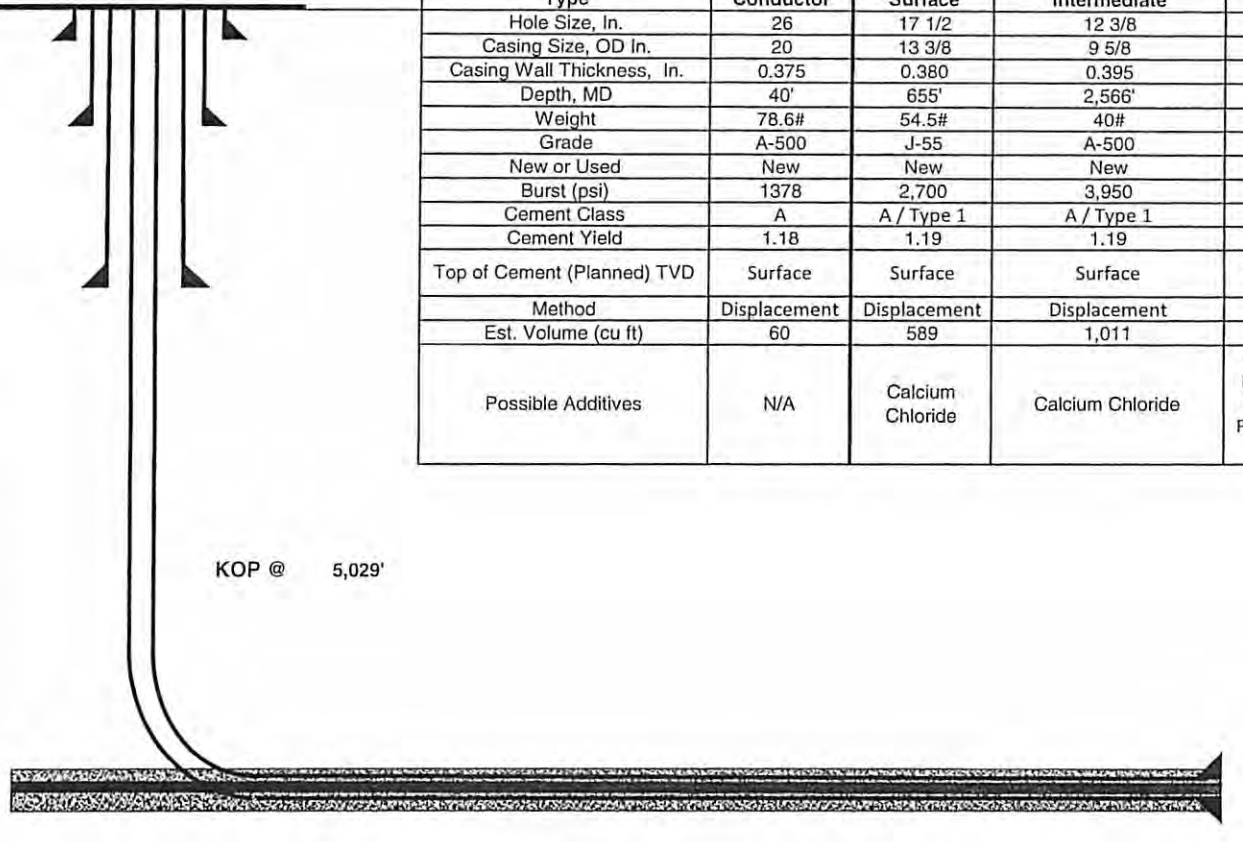
EQT Production

Pullman Quad
Ritchie County, WV

Azimuth 347
Vertical Section 6783

Note: Diagram is not to scale

Formations	Top TVD	Base TVD
Conductor	40	
Base Fresh Water	556	
Surface Casing	655	
Base Red Rock	1208	
Maxton	1830	1870
Big Lime	2050	2139
Big Injun	2139	2204
Weir	2447	2492
Intermediate Casing	2566	
Gantz	2662	2685
Fifty foot	2744	2778
Thirty foot	2793	2814
Gordon	2831	2891
Forth Sand	2951	2959
Bayard	3102	3133
Warren	3503	3549
Speechley	3613	3740
Balltown A	3951	4002
Riley	4598	4619
Benson	4939	4979
Alexander	5218	5243
Sonyea	6099	6213
Middlesex	6213	6265
Genesee	6265	6313
Geneseo	6313	6340
Tully	6340	6349
Hamilton	6349	6352
Marcellus	6352	6406
Production Casing	13276	MD
Onondaga	6406	



Casing and Cementing	Deepest Fresh Water: 556'			
Type	Conductor	Surface	Intermediate	Production
Hole Size, In.	26	17 1/2	12 3/8	8 1/2
Casing Size, OD In.	20	13 3/8	9 5/8	5 1/2
Casing Wall Thickness, In.	0.375	0.380	0.395	0.361
Depth, MD	40'	655'	2,566'	13,276'
Weight	78.6#	54.5#	40#	20#
Grade	A-500	J-55	A-500	P-110
New or Used	New	New	New	New
Burst (psi)	1378	2,700	3,950	12,640
Cement Class	A	A / Type 1	A / Type 1	H
Cement Yield	1.18	1.19	1.19	1.07/1.86
Top of Cement (Planned) TVD	Surface	Surface	Surface	500' above top Producing Zone
Method	Displacement	Displacement	Displacement	Displacement
Est. Volume (cu ft)	60	589	1,011	2,587
Possible Additives	N/A	Calcium Chloride	Calcium Chloride	Calcium Carbonate, Fluid Loss, Extender, Dispersent, Viscosifier, Defoamer, POZ, Bonding Agent, Retarder, Anti-Settling/Suspension Agent

<NOT PILOT HOLE>
Proposed Well Work:
Drill and complete a new horizontal well in the Marcellus formation.
Drill the vertical to an approximate depth of 5029.4'.
Kick off and drill curve. Drill lateral in the Marcellus. Cement casing.

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85-10289

west virginia department of environmental protection

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

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

March 18, 2014

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

Re: Cement Variance Request

Dear Sir or Madam,

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

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

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

Sincerely,

James Peterson by GCS

James Peterson
Environmental Resources Specialist / Permitting

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85-10289

west virginia department of environmental protection

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

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

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

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

REPORT OF THE OFFICE

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

FINDINGS OF FACT

1.) Nabors Completion & Production Services Co. proposes the following cement blend:

- 2% Calcium Chloride (Accelerator)
- 0.25 % Super Flake (Lost Circulation)
- 94% Type "1" Cement
- 5.20 % Water

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

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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

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Well 515966(PUL96H9)

EQT Production

Pullman Quad

Ritchie County, WV

Azimuth 347

Vertical Section 6783

Note: Diagram is not to scale

Formations	Top TVD	Base TVD
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Surface Casing	655	
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Marcellus	6352	6406
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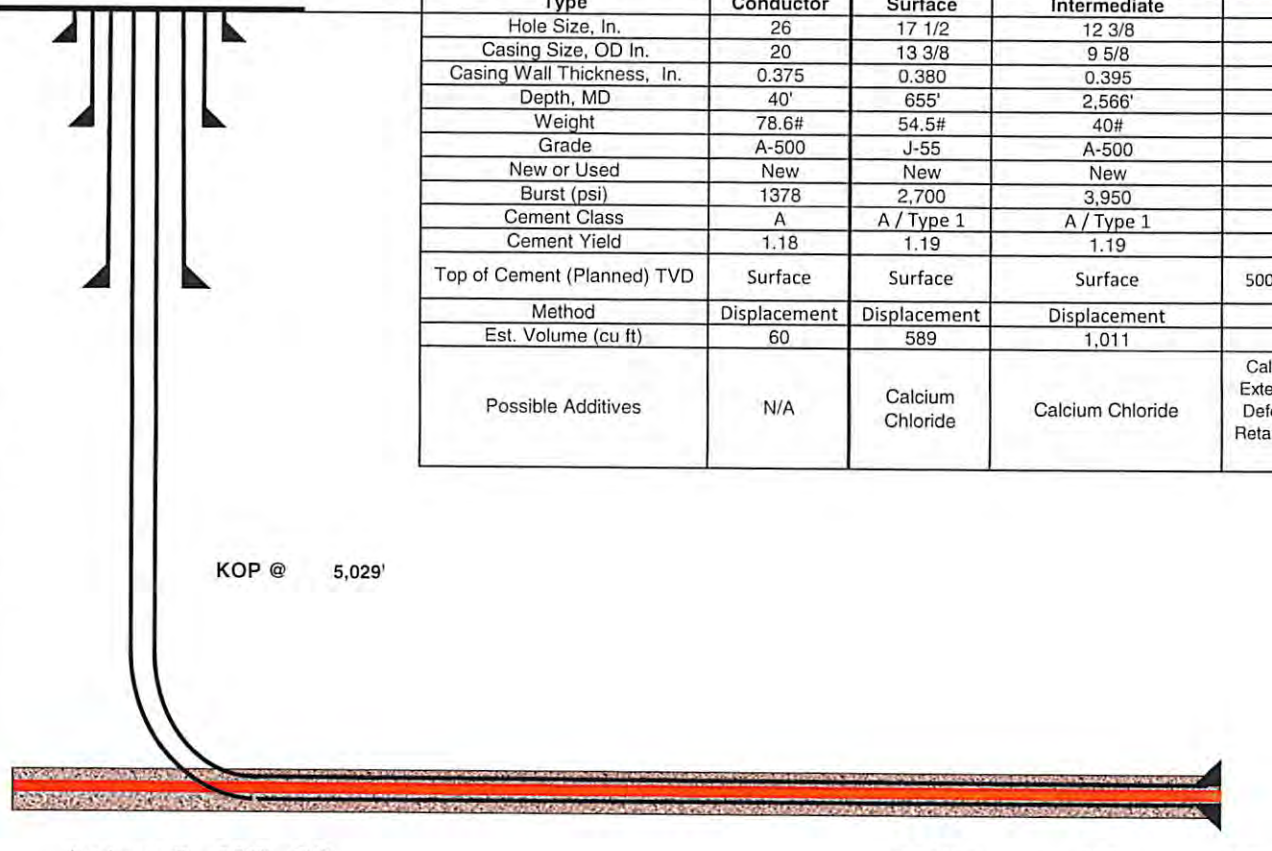

Casing and Cementing Deepest Fresh Water: **556'**

Type	Conductor	Surface	Intermediate	Production
Hole Size, In.	26	17 1/2	12 3/8	8 1/2
Casing Size, OD In.	20	13 3/8	9 5/8	5 1/2
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New or Used	New	New	New	New
Burst (psi)	1378	2,700	3,950	12,640
Cement Class	A	A / Type 1	A / Type 1	H
Cement Yield	1.18	1.19	1.19	1.07/1.86
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<NOT PILOT HOLE>

Proposed Well Work:

Drill and complete a new horizontal well in the Marcellus formation.

Drill the vertical to an approximate depth of 5029.4'.

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

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April 22, 2016

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

Re: Casing Plan on Wells (PUL96)

Dear Mr. Smith,

EQT is requesting the 13-3/8" surface casing be set at 655' KB, 100' below the deepest fresh water show. We will set the 9-5/8" intermediate string at 2566' KB, below the porosity zone in the Big Injun formation.

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

Sincerely,

Vicki Roark
Permitting Supervisor

Enc.

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EQT Production 115 Professional Place I P.O. Box 280 I Bridgeport, WV 26330
T 304.848.0000 I F 304.848.0040 I www.eqt.com

WW-9
(4/16)

4708510289

API Number 47 - 85 - _____
Operator's Well No. 515866

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) Goose Run of Rockcamp Run Quadrangle Pullman

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

Will a pit be used? Yes ☑ No ☐

If so, please describe anticipated pit waste: Flowback water and residual solids

Will a synthetic liner be used in the pit? Yes ☑ No ☐ If so, what ml.? 60

Proposed Disposal Method For Treated Pit Wastes: MAG 5/04/16

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

Will closed loop system be used? If so, describe: Yes, The closed loop system will remove drill cuttings from the drilling fluid. The drill cuttings are then prepared for transportation to an off-site disposal facility.

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

-If oil based, what type? Synthetic, petroleum, etc. Synthetic Mud

Additives to be used in drilling medium? See Attached

Drill cuttings disposal method? Leave in pit, landfill, removed offsite, etc. Landfill

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

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

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

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

I certify under penalty of law that I have personally examined and am familiar with the information submitted on this application form and all attachments thereto and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine or imprisonment.

Company Official Signature _____ Received
Company Official (Typed Name) Victoria J. Roark Office of Oil & Gas
Company Official Title Permitting Supervisor MAY 27 2016

Subscribed and sworn before me this 4 day of May, 2016

Rebecca L Wanstreet Notary Public

My commission expires 4-7-20

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

85 10289

WW-9 Attachment

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

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

Additives to be used in drilling medium?

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

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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

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Form WW-9

Operator's Well No. 515966

EQT Production Company

Proposed Revegetation Treatment: Acres Disturbed No Additional Prevegetation pH 6.6

Lime 3 Tons/acre or to correct to pH 6.5

Fertilizer type Granular 10-20-20

Fertilizer amount 1/3 lbs/acre

Mulch 2 Tons/acre

Seed Mixtures

Temporary		Permanent	
Seed Type	lbs/acre	Seed Type	lbs/acre
KY-31	40	Orchard Grass	15
Alsike Clover	5	Alsike Clover	5
Annual Rye	15		

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

Photocopied section of involved 7.5' topographic sheet.

Plan Approved by: Michael Duff

Comments: Preseed & Mulch any disturbed areas per WVDEP regulations. Maintain & upgrade ens as necessary.

Title: Oil & Gas Inspector Date: 5/26/16

Field Reviewed? (✓) Yes ( ) No

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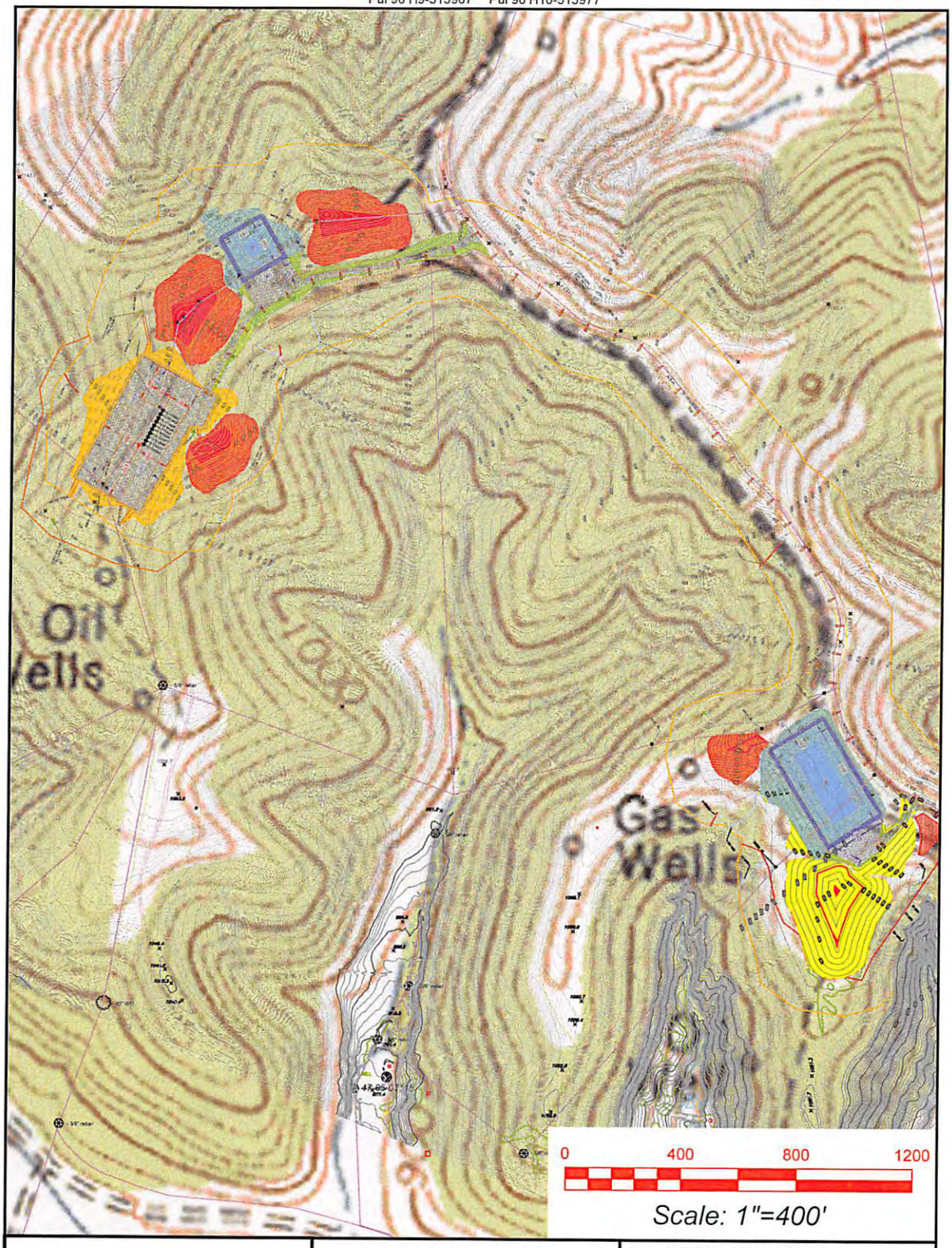
MAY 27 2016

WW-9

Pul 96 H1-515883 Pul 96 H2-515884 Pul 96 H3-515885 Pul 96 H4-515886
Pul 96 H5-515887 Pul 96 H6-515888 Pul 96 H7-515965 Pul 96 H8-515966
Pul 96 H9-515967 Pul 96 H10-515977

85-10289



Pullman 7.5' USGS QUADRANGLE		Proposed Disturbance Area	
Projected culvert inventory. (for bid purposes only)		Well Site Location	See Site Plan
15" minimum diameter culverts	See Site Plan	Proposed Access Road	See Site Plan
24" minimum diameter culverts	See Site Plan	Approximate Total Disturbance	See Site Plan
DRAWN BY: Dwayne A. Hall, PS	DATE: April 11, 2016	FILE NO. 243-14	DRAWING FILE NO. 243-14 Rec Plan

Note: SEE SITE PLAN OF PULLMAN 96 FOR COMPLETE GRADING & DRAINAGE CONSTRUCTION INCLUDING EROSION & SEDIMENT CONTROL DETAILS, ETC.

SURVEYING AND MAPPING SERVICES PERFORMED BY:

ALLEGHENY SURVEYS, INC.

1-800-482-8606

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

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

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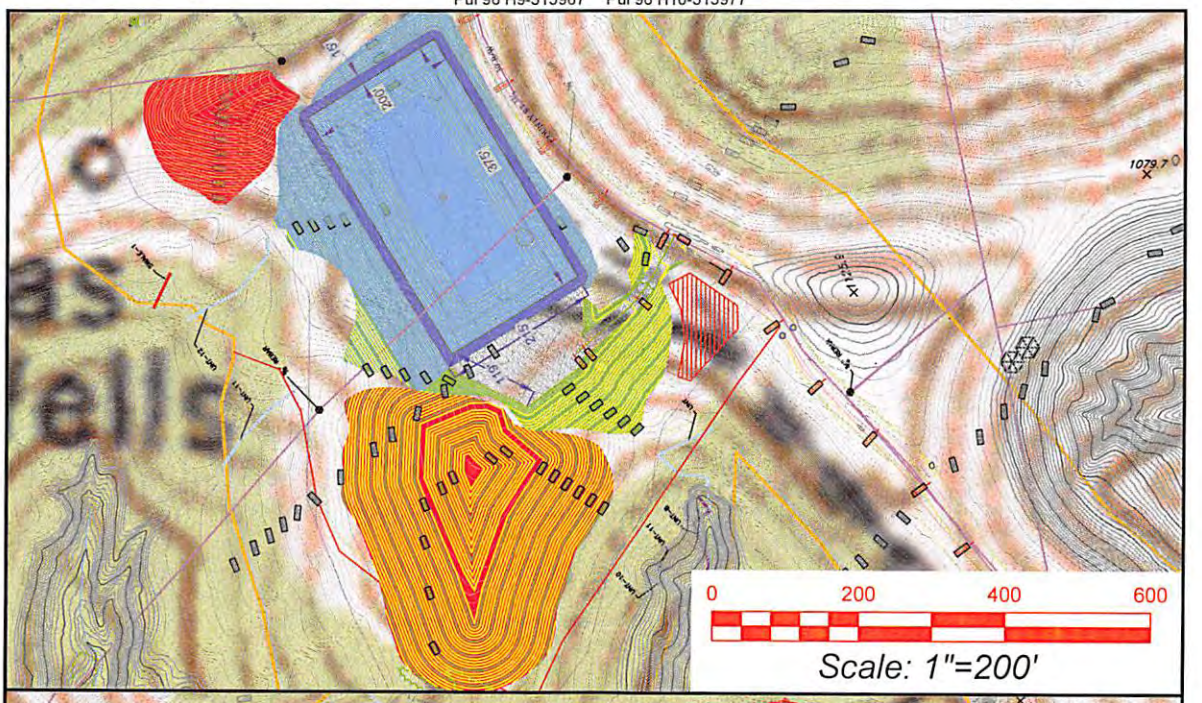

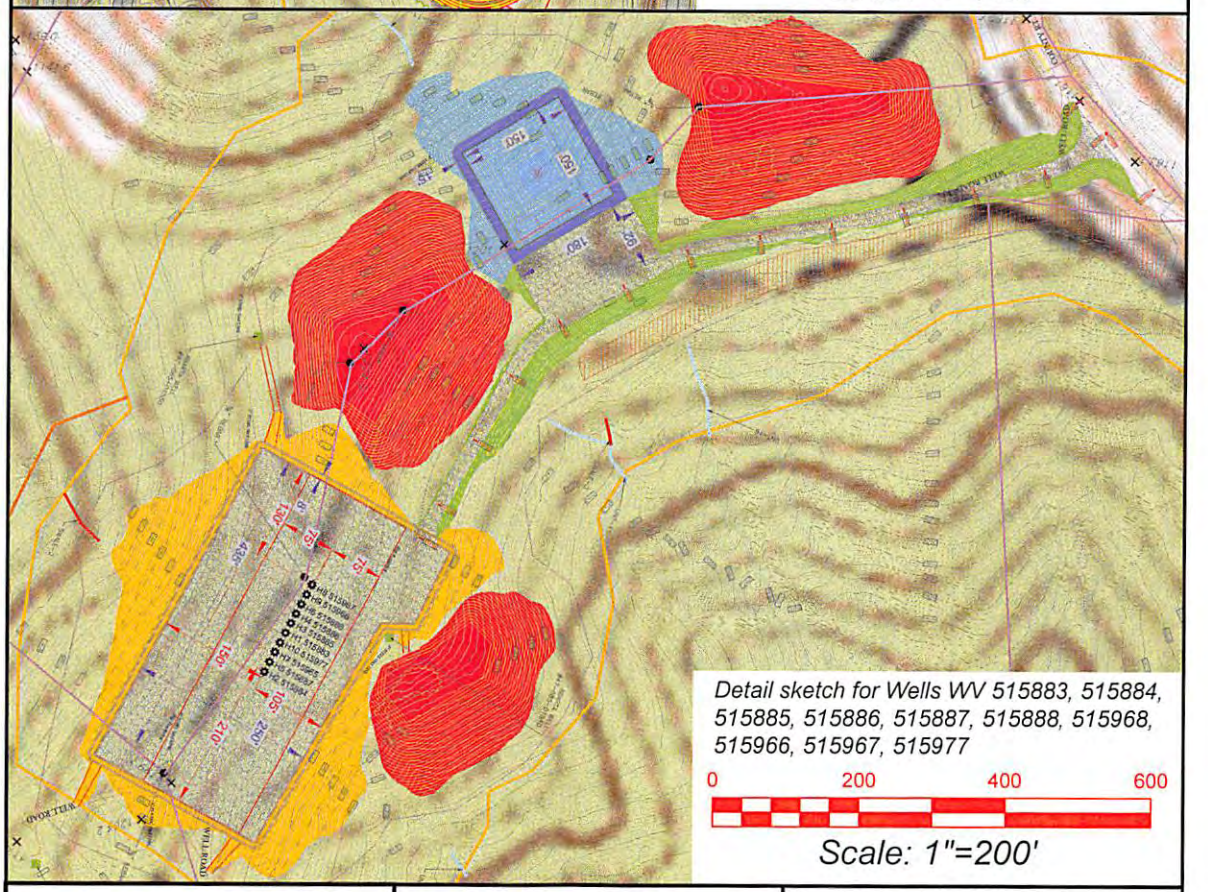

Pullman 7.5' USGS QUADRANGLE		Proposed Disturbance Area	
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SURVEYING AND MAPPING SERVICES PERFORMED BY:

ALLEGHENY SURVEYS, INC.

1-800-482-8606

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

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

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WV Department of
Environmental Protection

85-10289

WW-6A1
(5/13)

Operator's Well No. 515966

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

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

(1) the tract of land is the same tract described in this Application, partly or wholly depicted in the accompanying plat, and described in the Construction and Reclamation Plan;

(2) the parties and recordation data (if recorded) for lease(s) or other continuing contract(s) by which the Applicant claims the right to extract, produce or market the oil or gas are as follows:

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

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

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

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

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

Well Operator: EQT Production Company
By: Victoria J Roark
Its: Permitting Supervisor

85-10285

WW-6A1 attachment | Operator's Well No. 515966

Lease No.	Grantor, Lessor, etc.	Grantee, Lessee, etc.	Royalty	Book/Page
919995	**Laurie Ann Haddox, et al (current royalty owner)**		***	
	James A. Wilson, et ux (original lessor)	R. W. Richards		LB79/542
	R. W. Richards	J. E. Richards and C. W. Richards		LB80/78
	J. E. Richards and C. W. Richards	Bolyard Oil & Gas, LTD		LB169/136
	Bolyard Oil & Gas, LTD	Sheffield Exploration Co.		LB189/521
	Sheffield Exploration Co.	M. S. Oil Co. (69.513% of working interest) and Applied Mechanics Corp. (30.487% of working interest)		LB208/268
	M. S. Oil Co. (69.513%)	Applied Mechanics Corp.		LB222/836
	Applied Mechanics Corporation, et al	FS Limited Partnership		AB274/80
	FS Limited Partnership	EQT Production Co.		AB274/102
919993	**Ian David Wilson, et al (current royalty owner)**		***	
	Effie E. Wilson and James Wilson (original lessor)	J.E. Richards		LB79/346
	J.E. Richards	J. E. Richards and C.W. Richards		LB79/407
	J.E. Richards and C.W. Richards	P.O. Burgy, B.S. Marshall, L.B. Burgy & Rollo Riggs		LB81/279
	P.O. Burgy, B.S. Marshall, L.B. Burgy & Rollo Riggs	J. E. Richards and C.W. Richards		LB123/303
	J. E. Richards and C.W. Richards	Applied Mechanics, et al		LB206/8
	Applied Mechanics Corporation, et al	FS Limited Partnership		AB274/80
	FS Limited Partnership	EQT Production Co.		AB274/102
1006580	**Eagle Ridge L.P., et al (current royalty owner)**		min pd 1/8th	
	Eagle Ridge L.P. (original lessor)	EQT Production Company		LB285/155
1006581	**Eagle Ridge L.P., et al (current royalty owner)**		min pd 1/8th	
	Eagle Ridge L.P. (original lessor)	EQT Production Company		LB285/157
1006560	**E. Howard Todd (current royalty owner)**		min pd 1/8th	
	E. Howard Todd (original lessor)	EQT Production Company		LB283/945
919989	**Sandra Kay Reed, et al (current royalty owner)**		***	
	Barr Wilson, et al (original lessor)	W. H. Mossor		LB 81/120
	W.H. Mossor	Term Energy Corporation		LB132/314
	Term Energy Corporation	Sun Pantry Enterprises, Inc		158/831
	Sun Pantry Enterprises, Inc	Applied Mechanics Corporation, et al		222/830
	Applied Mechanics Corporation, et al	FS Limited Partnership		274/80
	FS Limited Partnership	EQT Production Company		LB274/102

*** We will pay one-eighth of the total amount paid to or received by or allowed to the owner of the working interest at the wellhead for the oil or gas so extracted, produced or marketed before deducting the amount to be paid to or set aside for the owner of the oil or gas in place, on all such oil or gas to be extracted, produced or marketed from the well.

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April 22, 2016

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

Re: PUL96 well pad, well number 515966
Union District, Ritchie County

Dear Mr. Martin,

EQT Production Company is submitting an application for a new well work permit for the above well number. Upon information and belief, Operator's lease and/ or other real property rights permit it to conduct drilling operations for the subject well in the location shown on the plat, including under any public roads that the well lateral crosses.

Sincerely,

Vicki Roark
Permitting Supervisor-WV

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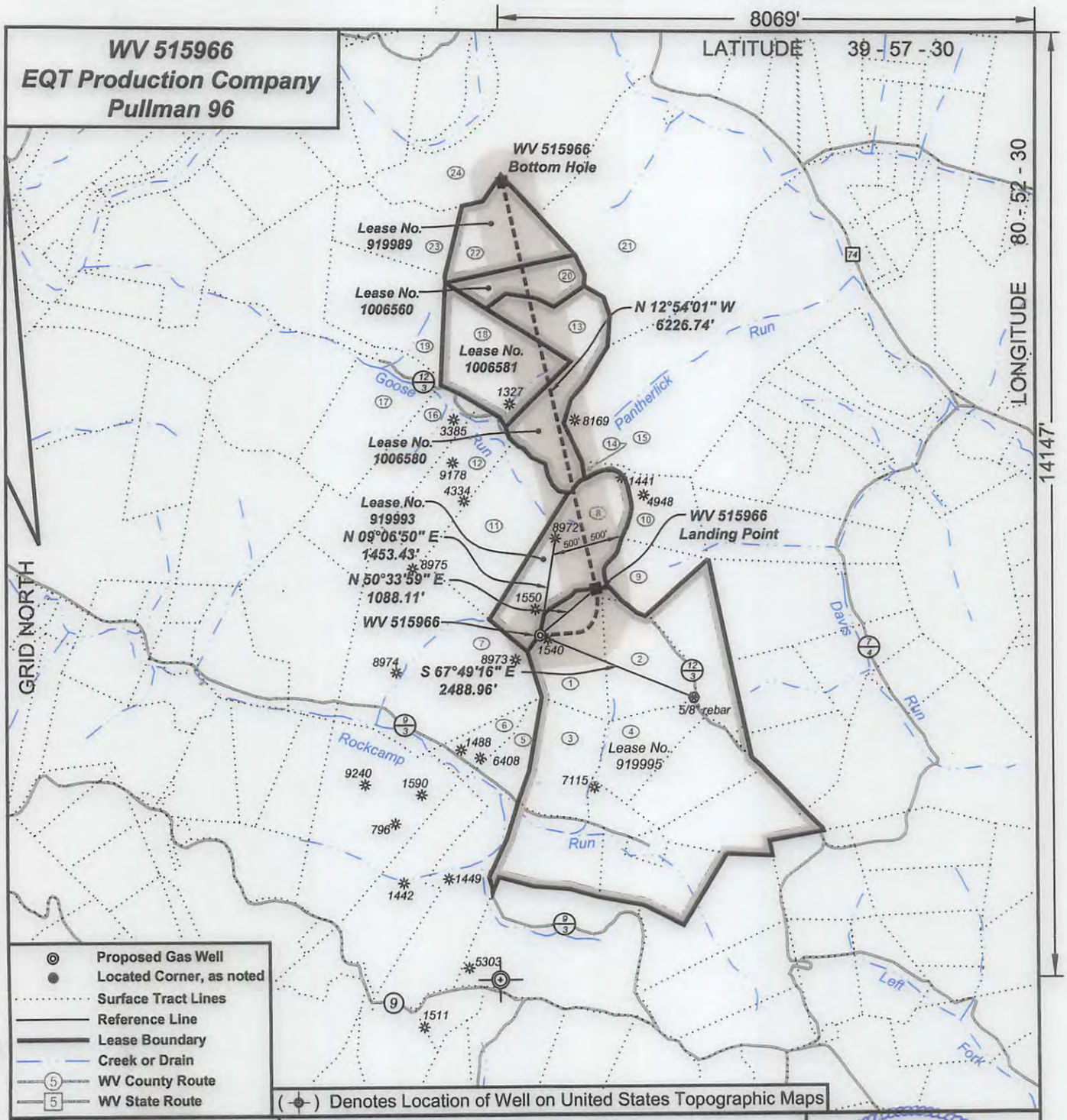
Environmental Protection

WV 515966
EQT Production Company
Pullman 96



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

(⊕) Denotes Location of Well on United States Topographic Maps

ALLEGHENY SURVEYS, INC.

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

Dwayne A Hall
P.S. 2089SU

DWAYNE A. HALL LICENSED No. 2089 SU STATE OF WEST VIRGINIA PROFESSIONAL SURVEYOR SEAL

FILE NO: 243-14
DRAWING NO: 243-14 Pullman 96 H9.dwg
SCALE: 1" = 2000'
MINIMUM DEGREE OF ACCURACY: 1:2500
PROVEN SOURCE OF ELEVATION: NGS CORS Station

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

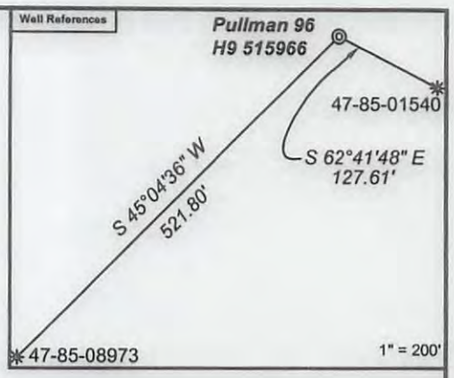
DATE: May 02 20 16
OPERATOR'S WELL NO. 515966
API WELL NO HGA
47 - 85 - 10289
STATE COUNTY PERMIT

WELL TYPE: ☐ OIL ☒ GAS ☐ LIQUID INJECTION ☐ WASTE DISPOSAL
(IF GAS) PRODUCTION : ☐ STORAGE ☐ DEEP ☒ SHALLOW
LOCATION: ELEVATION: As-Built 1182.6' WATERSHED Goose Run of Rockcamp Run QUADRANGLE: Pullman
DISTRICT: Union COUNTY: Ritchie
SURFACE OWNER: James H. & Wilma J. Wilson ACREAGE: 40.089
ROYALTY OWNER: Laurie Ann Haddox, et al LEASE NO: 919995 ACREAGE: 360
PROPOSED WORK: ☒ DRILL ☐ CONVERT ☐ DRILL DEEPER ☒ FRACTURE OR STIMULATE ☐ PLUG OFF OLD FORMATION
☐ PERFORATE NEW FORMATION ☐ OTHER PHYSICAL CHANGE IN WELL (SPECIFY)
☐ PLUG AND ABANDON ☐ CLEAN OUT AND REPLUG TARGET FORMATION: Marcellus ESTIMATED DEPTH: 6,376

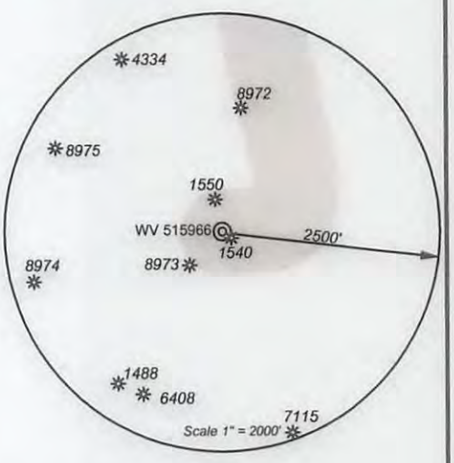
WELL OPERATOR: EQT Production Company
ADDRESS: PO Box 280 / 115 Professional Place, Bridgeport, WV 26330
DESIGNATED AGENT: Rex C. Ray
ADDRESS: PO Box 280 / 115 Professional Place, Bridgeport, WV 26330

WV 515966
EQT Production Company
Pullman 96

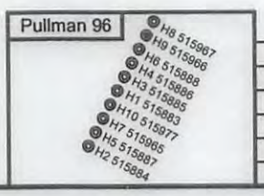
Tract I.D.	Tax Map No.	Parcel No.	County	District	Surface Tract Owner	Acres
1	7	8.4	Ritchie	Union	Wilma J. Wilson	40.09
2	7	8.3	Ritchie	Union	James D. Wilson	39.87
3	7	8.5	Ritchie	Union	Robert & Oleta Jane Wilson	37.23
4	7	8.2	Ritchie	Union	Ian David Wilson	30.10
5	7	11.0	Ritchie	Union	Arnold K. Richards (Life)	43.84
6	7	6.0	Ritchie	Union	Eva L. Riffle	14.75
7	7	5.0	Ritchie	Union	Jean W. Moore	134.70
8	7	4.0	Ritchie	Union	James D. Wilson, et al.	63.00
9	39	10.0	Ritchie	Clay	Charlie Ray & Lori Ann Amos	24.64
10	39	10.1	Ritchie	Clay	Pierce Okla & Suzanne Denise Amos	25.36
11	7	3.0	Ritchie	Union	Earl Wilson Jr., et al.	61.00
12	7	2.1	Ritchie	Union	Michael W. Elder	46.20
13	35	39.0	Ritchie	Clay	Chester D. Riddle, et al.	49.50
14	7	17.0	Ritchie	Union	Max D. & Laura B. Dodd	1.00
15	35	40.0	Ritchie	Clay	Max D. & Laura B. Dodd	211.60
16	7	2.0	Ritchie	Union	Michael W. Elder	66.00
17	7	1.0	Ritchie	Union	Randall K. Woods	55.20
18	35	39.1	Ritchie	Clay	Chester D. Riddle, et al.	47.50
19	35	38.0	Ritchie	Clay	James L. Crouse, et al.	50.00
20	35	39.2	Ritchie	Clay	Howard E. Todd	22.50
21	35	31.0	Ritchie	Clay	Max D. & Laura B. Dodd	93.33
22	35	30.0	Ritchie	Clay	Hothem Family Properties LP	38.75
23	35	29.0	Ritchie	Clay	James L. Crouse, et al.	38.50
24	35	14.0	Ritchie	Clay	Earl Wilson Jr., et al.	293.36



Notes:
WV 515966 coordinates are
NAD 27 N: 262,511.67 E: 1,578,950.12
NAD 27 Lat: 39.211188 Long: -80.985997
NAD 83 UTM N: 4,340,221.89 E: 501,223.44
WV 515966 Landing Point coordinates are
NAD 27 N: 263,202.82 E: 1,579,790.53
NAD 27 Lat: 39.213124 Long: -80.983072
NAD 83 UTM N: 4,340,436.73 E: 501,475.95
WV 515966 Bottom Hole coordinates are
NAD 27 N: 269,272.40 E: 1,578,400.39
NAD 27 Lat: 39.229723 Long: -80.988332
NAD 83 UTM N: 4,342,278.72 E: 501,021.57
West Virginia Coordinate system of 1927 (North Zone).
Geographic coordinates are NAD27.
UTM coordinates are NAD83, Zone 17, Meters.
Plat orientation, corner and well ties are based upon the grid north meridian.
Well location references are based upon the grid north meridian.



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



Lease No.	Name	Acres
919993	Ian David Wilson, et al.	63
1006580	Eagle Ridge L.P., et al.	49.5
1006581	Eagle Ridge L.P., et al.	47.5
1006560	E. Howard Todd	22.5
919989	Sandra Kay Reed, et al.	38

ALLEGHENY SURVEYS, INC.

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

Dwayne A. Hall
P.S. 2089SU

DWAYNE A. HALL LICENSED No. 2089 SU STATE OF WEST VIRGINIA PROFESSIONAL SURVEYOR
SEAL

FILE NO: 243-14
DRAWING NO: 243-14 Pullman 96 H9.dwg
SCALE: 1" = 2000'
MINIMUM DEGREE OF ACCURACY: 1:2500
PROVEN SOURCE OF ELEVATION: NGS CORS Station

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

DATE: May 02 20 16
OPERATOR'S WELL NO. 515966
API WELL NO H6A
47 - 85 - 10289
STATE COUNTY PERMIT

WELL TYPE: ☐ OIL ☒ GAS ☐ LIQUID INJECTION ☐ WASTE DISPOSAL
(IF GAS) PRODUCTION : ☐ STORAGE ☐ DEEP ☒ SHALLOW
LOCATION: ELEVATION: As-Built 1182.6' WATERSHED Goose Run of Rockcamp Run QUADRANGLE: Pullman
DISTRICT: Union COUNTY: Ritchie
SURFACE OWNER: James H. & Wilma J. Wilson ACREAGE: 40.089
ROYALTY OWNER: Laurie Ann Haddox, et al LEASE NO: 919995 ACREAGE: 360
PROPOSED WORK: ☒ DRILL ☐ CONVERT ☐ DRILL DEEPER ☒ FRACTURE OR STIMULATE ☐ PLUG OFF OLD FORMATION
☐ PERFORATE NEW FORMATION ☐ OTHER PHYSICAL CHANGE IN WELL (SPECIFY) _____
☐ PLUG AND ABANDON ☐ CLEAN OUT AND REPLUG TARGET FORMATION: Marcellus ESTIMATED DEPTH: 6,376

WELL OPERATOR: EQT Production Company
ADDRESS: PO Box 280 / 115 Professional Place
Bridgeport, WV 26330

DESIGNATED AGENT: Rex C. Ray
ADDRESS: PO Box 280 / 115 Professional Place
Bridgeport, WV 26330

85-10289

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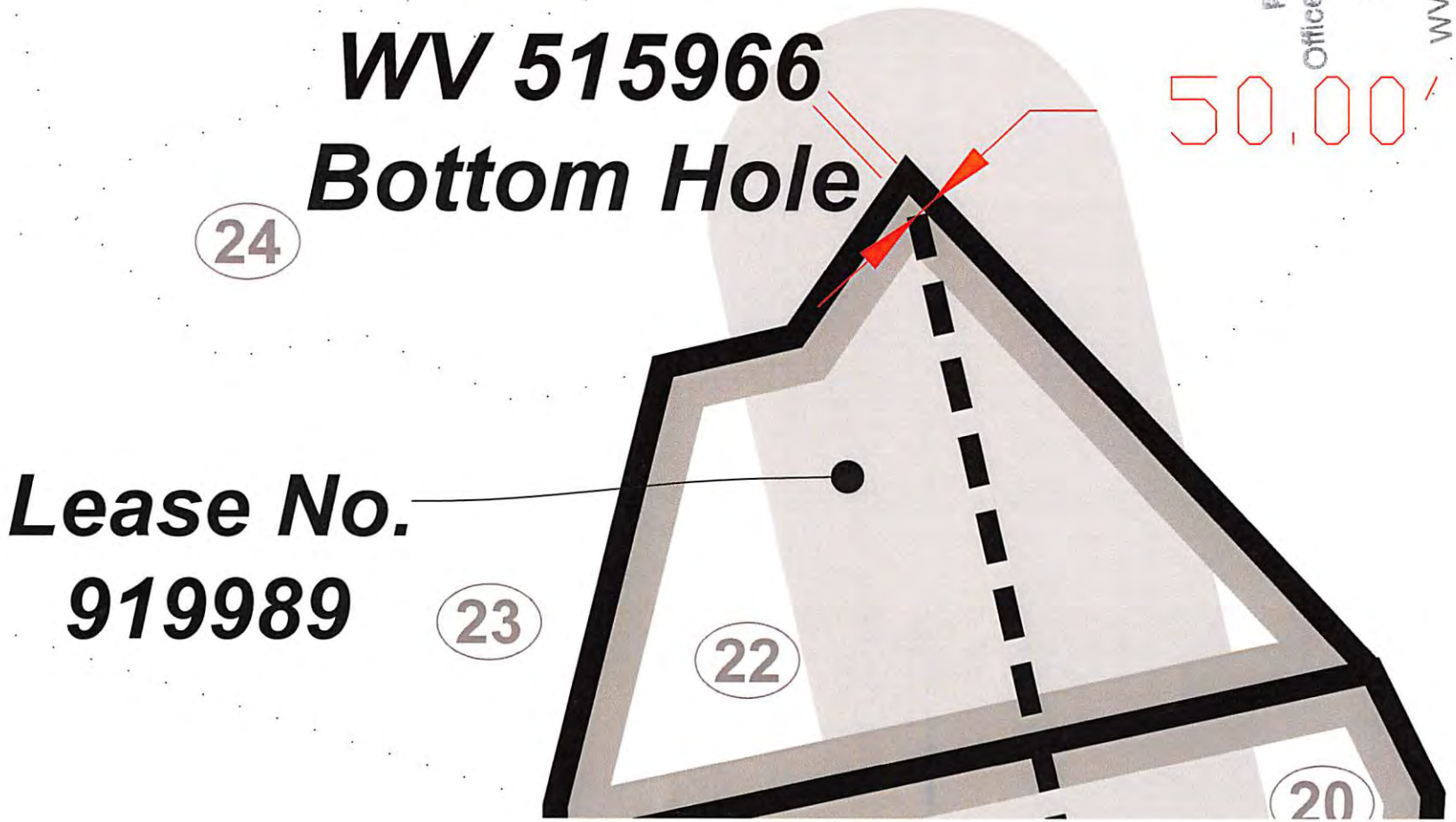
WV Department of
Environmental Protection



WW-6AC
(1/12)

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

Date of Notice Certification: _____

API No. 47- 85 - 10289
Operator's Well No. 515966
Well Pad Name: PUL96

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

State: WV
County: Ritchie
District: Union
Quadrangle: Pullman
Watershed: Goose Run of Rockcamp Run

UTM NAD 83 Easting: 501,223.443
Northing: 4,340,221.893
Public Road Access: 12/3
Generally used farm name: James H. & Wilma J. Wilson

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

Pursuant to West Virginia Code § 22-6A, the Operator has attached proof to this Notice Certification that the Operator has properly served the required parties with the following:

*PLEASE CHECK ALL THAT APPLY

	OOG OFFICE USE ONLY
☐ 1. NOTICE OF SEISMIC ACTIVITY or ☒ NOTICE NOT REQUIRED BECAUSE NO SEISMIC ACTIVITY WAS CONDUCTED	☐ RECEIVED/ NOT REQUIRED
☐ 2. NOTICE OF ENTRY FOR PLAT SURVEY or ☒ NO PLAT SURVEY WAS CONDUCTED	☐ RECEIVED
☒ 3. NOTICE OF INTENT TO DRILL or ☐ NOTICE NOT REQUIRED BECAUSE NOTICE OF ENTRY FOR PLAT SURVEY WAS CONDUCTED or ☐ WRITTEN WAIVER BY SURFACE OWNER (PLEASE ATTACH)	☐ RECEIVED/ NOT REQUIRED
☒ 4. NOTICE OF PLANNED OPERATION	☐ RECEIVED
☒ 5. PUBLIC NOTICE	☐ RECEIVED
☒ 6. NOTICE OF APPLICATION	☐ RECEIVED

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MAY 0 6 2016
WV Department of
Environmental Protection

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.

WW-6AC
(1/12)

85-10289

Certification of Notice is hereby given:

THEREFORE, I _____, have read and understand the notice requirements within West Virginia Code § 22-6A. I certify that as required under West Virginia Code § 22-6A, I have served the attached copies of the Notice Forms, identified above, to the required parties through personal service, by registered mail or by any method of delivery that requires a receipt or signature confirmation. I certify under penalty of law that I have personally examined and am familiar with the information submitted in this Notice Certification and all attachments, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

Well Operator:	EQT Production Company	Address:	115 Professional Place PO Box 280
By:	Victoria J Roark		Bridgeport WV 26330
Its:	Permitting Supervisor	Facsimile:	304-848-0041
Telephone:	304-848-0076	Email:	vroark@eqt.com

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

Subscribed and sworn before me this 4 day of May 2016.

Rebecca L Wanstreet Notary Public

My Commission Expires 4-7-20

Oil and Gas Privacy Notice:

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

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MAY 06 2016

WV Department of
Environmental Protection

WW-6A
(9-13)

API NO. 47- 85 - 10289
OPERATOR WELL NO. 515966
Well Pad Name: PUL96

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: 5/5/16 **Date Permit Application Filed:** 5/5/16

Notice of:

☑ PERMIT FOR ANY WELL WORK

☐ CERTIFICATE OF APPROVAL FOR THE CONSTRUCTION OF AN IMPOUNDMENT OR PIT

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

☐ PERSONAL SERVICE

☐ REGISTERED MAIL

☑ METHOD OF DELIVERY THAT REQUIRES A RECEIPT OR SIGNATURE CONFIRMATION

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

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

☑ SURFACE OWNER(s)
Name: See Attached
Address: _____

Name: _____
Address: _____

☑ SURFACE OWNER(s) (Road and/or Other Disturbance)
Name: See Attached
Address: _____

Name: _____
Address: _____

☑ SURFACE OWNER(s) (Impoundments or Pits)
Name: See Attached
Address: _____

☑ COAL OWNER OR LESSEE
Name: See Attached
Address: _____

☐ COAL OPERATOR
Name: _____
Address: _____

☐ SURFACE OWNER OF WATER WELL AND/OR WATER PURVEYOR(s)
Name: _____
Address: _____

☐ OPERATOR OF ANY NATURAL GAS STORAGE FIELD
Name: _____
Address: _____

*Please attach additional forms if necessary

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Office of Oil and Gas
MAY 06 2016
WV Department of Environmental Protection

WW-6A
(8-13)

API NO. 47- 85 - 10289
OPERATOR WELL NO. 515966
Well Pad Name: PUL96

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

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

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

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

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

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

Well Location Restrictions
Pursuant to W. Va. Code § 22-6A-12, Wells may not be drilled within two hundred fifty feet measured horizontally from any existing water well or developed spring used for human or domestic animal consumption. The center of well pads may not be located within six hundred twenty-five feet of an occupied dwelling structure, or a building two thousand five hundred square feet or larger used to house or shelter dairy cattle or poultry husbandry. This limitation is applicable to those wells, developed springs, dwellings or agricultural buildings that existed on the date a notice to the surface owner of planned entry for surveying or staking as provided in section ten of this article or a notice of intent to drill a horizontal well as provided in subsection (b), section sixteen of this article was provided, whichever occurs first, and to any dwelling under construction prior to that date. This limitation may be waived by written consent of the surface owner transmitted to the department and recorded in the real property records maintained by the clerk of the county commission for the county in which such property is located. Furthermore, the well operator may be granted a variance by the secretary from these distance restrictions upon submission of a plan which identifies the sufficient measures, facilities or practices to be employed during well site construction, drilling and operations. The variance, if granted, shall include terms and conditions the department requires to ensure the safety and protection of affected persons and property. The terms and conditions may include insurance, bonding and indemnification, as well as technical requirements. (b) No well pad may be prepared or well drilled within one hundred feet measured horizontally from any perennial stream, natural or artificial lake, pond or reservoir, or a wetland, or within three hundred feet of a naturally reproducing trout stream. No well pad may be located within one thousand feet of a surface or ground water intake of a public water supply. The distance from the public water supply as identified by the department shall be measured as follows: (1) For a surface water intake on a lake or reservoir, the distance shall be measured from the boundary of the lake or reservoir. (2) For a surface water intake on a flowing stream, the distance shall be measured from a semicircular radius extending upstream of the surface water intake. (3) For a groundwater source, the distance shall be measured from the wellhead or spring. The department may, in its discretion, waive these distance restrictions upon submission of a plan identifying sufficient measures, facilities or practices to be employed during well site construction, drilling and operations to protect the waters of the state. A waiver, if granted, shall impose any permit conditions as the secretary considers necessary. (c) Notwithstanding the foregoing provisions of this section, nothing contained in this section prevents an operator from conducting the activities permitted or authorized by a Clean Water Act Section 404 permit or other approval from the United States Army Corps of Engineers within any waters of the state or within the restricted areas referenced in this section. (d) The well location restrictions set forth in this section shall not apply to any well on a multiple well pad if at least one of the wells was permitted prior to the effective date of this article. (e) The secretary shall, by December 31, 2012, report to the Legislature on the noise, light, dust and volatile organic compounds generated by the drilling of horizontal wells as they relate to the well location restrictions regarding occupied dwelling structures pursuant to this section. Upon a finding by the secretary that the well location restrictions regarding occupied dwelling structures are inadequate or otherwise require alteration to address the items

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

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

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

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

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

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

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

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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.**

WV Department of
Environmental Protection

WW-6A
(8-13)

API NO. 47- 85 - 10289
OPERATOR WELL NO. 515966
Well Pad Name: PUL96

Time Limits and Methods for Filing Comments.

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

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

Comment Requirements

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

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

Permit Denial or Condition

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

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

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

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

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WW-6A
(8-13)

API NO. 47- 85 - 10289
OPERATOR WELL NO. 515966
Well Pad Name: PUL96

Notice is hereby given by:

Well Operator: EQT Production Company
Address: 115 Professional Place PO Box 280
Bridgeport WV 26330
Telephone: 304-848-0076
Email: vroark@eqt.com
Facsimile: 304-848-0041

Oil and Gas Privacy Notice:

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

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

Subscribed and sworn before me this 4 day of May 2016.

Rebecca L Wanstreet Notary Public

My Commission Expires 4-7-20

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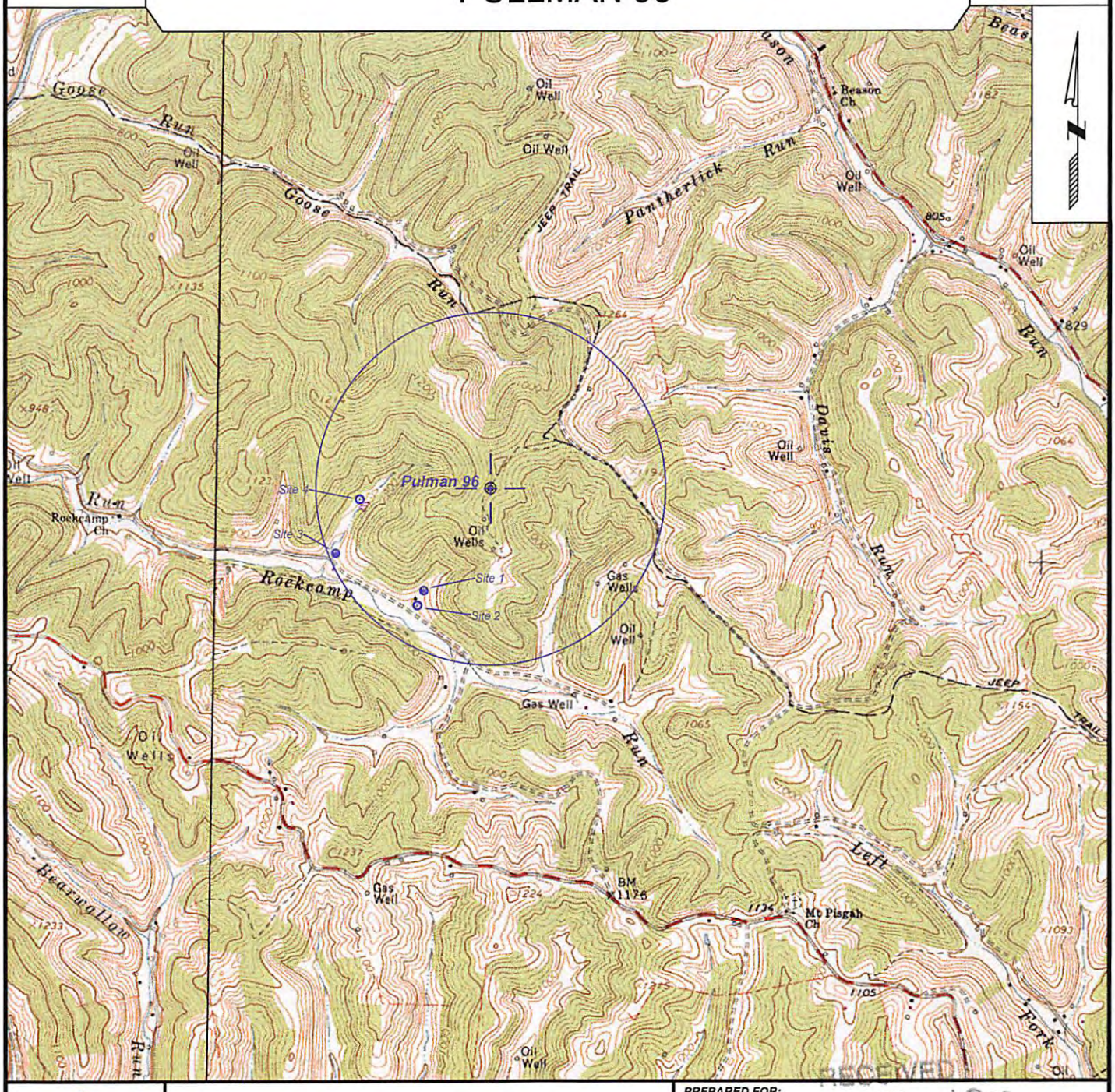
85-10289

Topo Quad: Pullman 7.5' Scale: 1 " = 2000'

County: Ritchie Date: December 12, 2014

District: Union Project No: 243-38-U-14

PULLMAN 96



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

P.O. Box 280
Bridgeport, WV 26330

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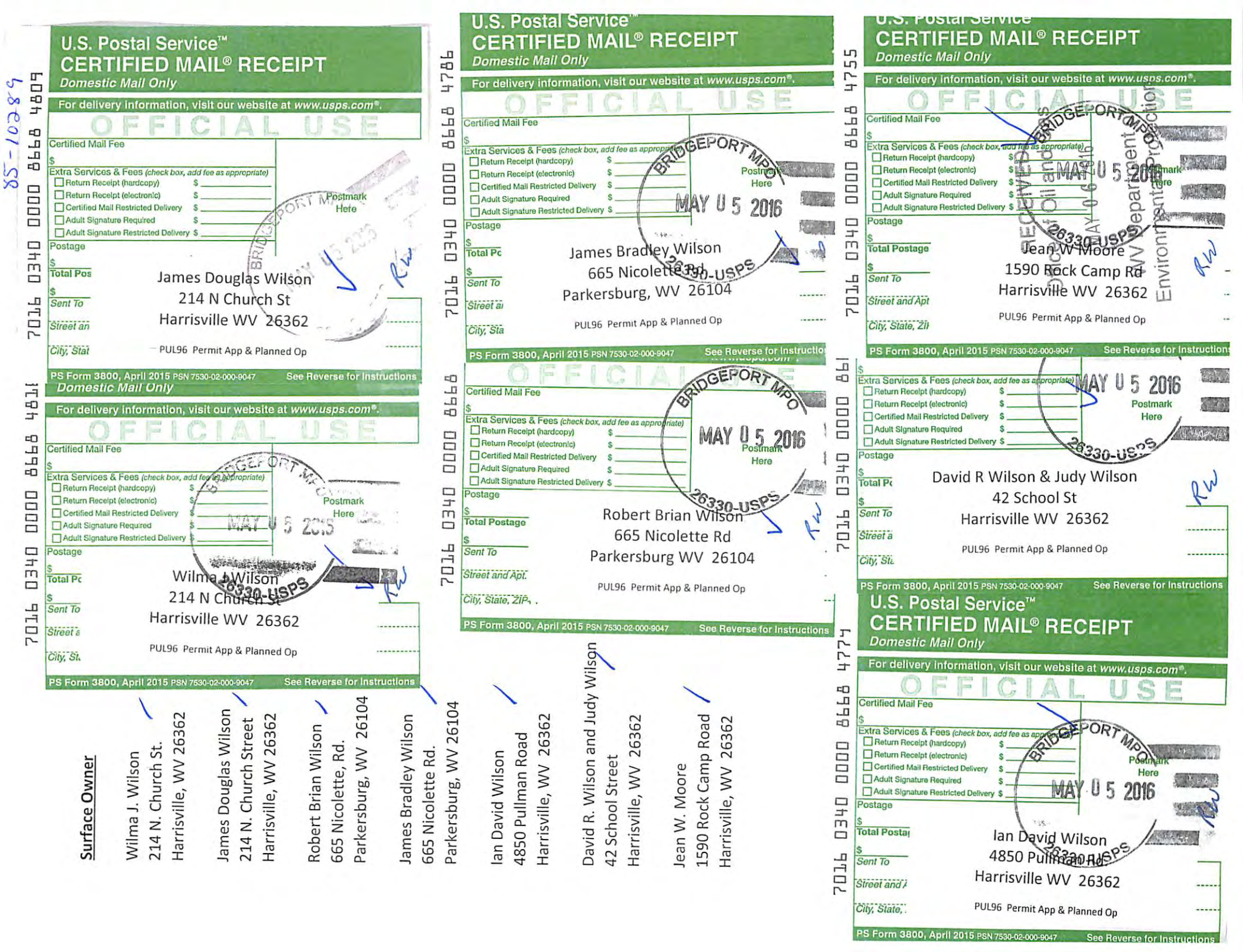

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PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions

85-10284

7016 0340 0000 8668 4809
James Douglas Wilson
214 N Church St
Harrisville WV 26362

7016 0340 0000 8668 4786
James Bradley Wilson
665 Nicolette Rd
Parkersburg, WV 26104

7016 0340 0000 8668 4755
Jean W Moore
1590 Rock Camp Rd
Harrisville WV 26362

7016 0340 0000 8668 4811
Wilma J Wilson
214 N Church St
Harrisville WV 26362

7016 0340 0000 8668
Robert Brian Wilson
665 Nicolette Rd
Parkersburg WV 26104

7016 0340 0000 861
David R Wilson & Judy Wilson
42 School St
Harrisville WV 26362

7016 0340 0000 8668 4717
Ian David Wilson
4850 Pullman Rd
Harrisville WV 26362

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Surface Owner

Wilma J. Wilson
214 N. Church St.
Harrisville, WV 26362

James Douglas Wilson
214 N. Church Street
Harrisville, WV 26362

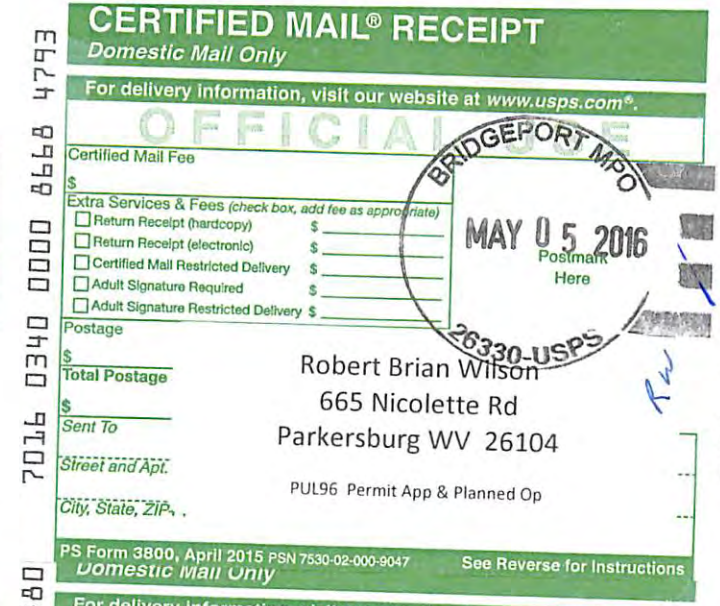
Robert Brian Wilson
665 Nicolette, Rd.
Parkersburg, WV 26104

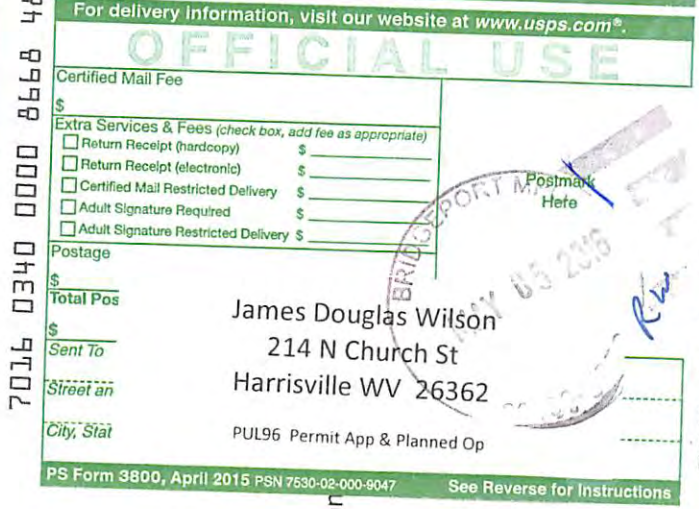
James Bradley Wilson
665 Nicolette Rd.
Parkersburg, WV 26104

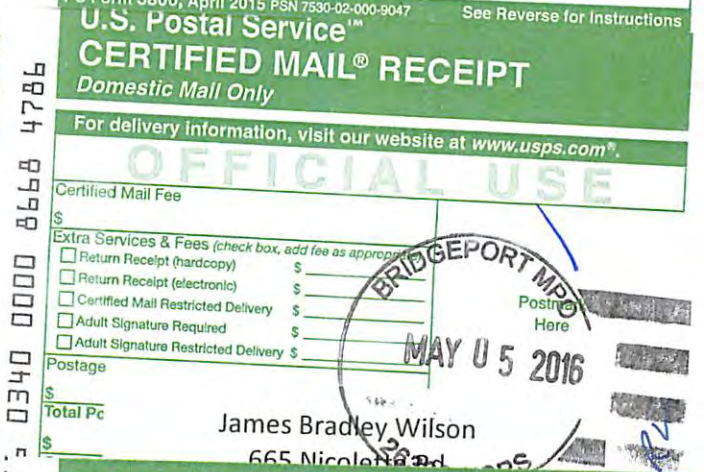
Ian David Wilson
4850 Pullman Road
Harrisville, WV 26362

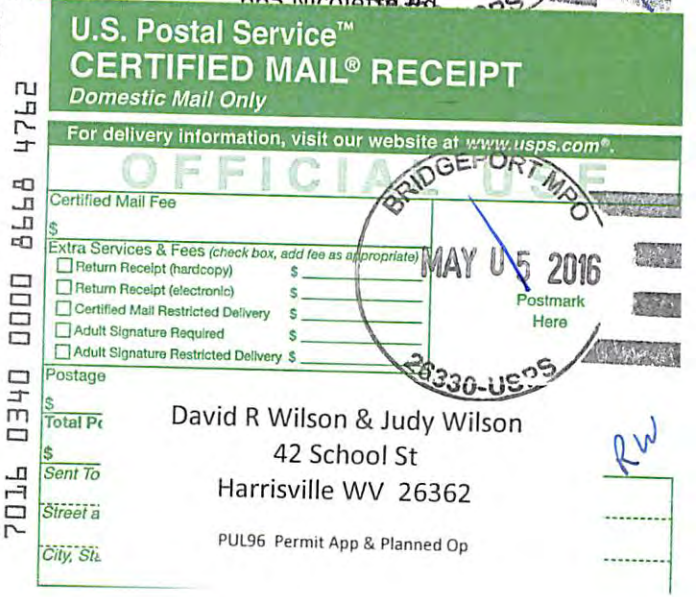
David R. Wilson and Judy Wilson
42 School Street
Harrisville, WV 26362

Jean W. Moore
1590 Rock Camp Road
Harrisville, WV 26362









Surface Owner (Road and/or Other Disturbance)

Wilma J. Wilson
214 N Church St
Harrisville, WV 26362

James Douglas Wilson
214 N. Church Street
Harrisville, WV 26362

Robert Brian Wilson
665 Nicolette, Rd.
Parkersburg, WV 26104

James Bradley Wilson
665 Nicolette Rd.
Parkersburg, WV 26104

Ian David Wilson
4850 Pullman Road
Harrisville, WV 26362

David R. Wilson and Judy Wilson
42 School Street
Harrisville, WV 26362

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Robert Brian Wilson
665 Nicolette Rd
Parkersburg WV 26104

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James Douglas Wilson
214 N Church St
Harrisville WV 26362

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Jean W Moore
1590 Rock Camp Rd
Harrisville WV 26362

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James Bradley Wilson
665 Nicolette Rd
Parkersburg, WV 26104

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City, Sta

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David R Wilson & Judy Wilson
42 School St
Harrisville WV 26362

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Surface Owner (Impoundments or Pits)

Wilma J. Wilson
214 N. Church St.
Harrisville, WV 26362

James Douglas Wilson
214 N. Church Street
Harrisville, WV 26362

Robert Brian Wilson
665 Nicolette, Rd.
Parkersburg, WV 26104

James Bradley Wilson
665 Nicolette Rd.
Parkersburg, WV 26104

Ian David Wilson
4850 Pullman Road
Harrisville, WV 26362

David R. Wilson and Judy Wils
42 School Street
Harrisville, WV 26362

85-10289

Coal Owners

Ritchie Petroleum Corporation
P.O. Box 545
Pennsboro, WV 26415-0545

J.F. Deem Oil & Gas
4541 Emerson Avenue
Parkersburg, WV 26104-1213

Nancy C. Ruth, Trustee
Cottrill Family Trust
328 E. Spring Street
Marietta, OH 45750-2438

Jay A. Cottrill, Trustee
Cottrill Family Trust
328 E. Spring Street
Marietta, OH 45750-2438

Joseph D. Cottrill, Trustee
Cottrill Family Trust
1748 Mills Ave
Cincinnati, OH 45212-2826

Christopher Cottrill, Trustee
3029 Lakeshore Drive
1108 E. 2700 S Apt 14
Salt Lake City, UT 84106

Theresa Ann Wilson
1026 King Street
Lancaster, OH 43130

Leslie Randall Elder
1432 Wedgewood Drive
Anaheim, CA 92801

James Russell Clovis
19801 Eagle Nest Rd.
Cutler Bay, FL 33157

Claudia G. Elder
2119 Tremont Avenue
Simi Valley, CA 93063

Richard Wesley Elder
1931 Whitehall Court
Simi Valley, CA 93065

Geneva E. Snodgrass
510 Harrisoin St.
Harrisville, WV 26362

William Harold Moore
3307 Smith St.
Parkersburg, WV 26104

Pamela Donohoe
524 SE 42nd Street
Ocala, FL 34480

Carol Robinson
524 SE 42nd Street
Ocala, FL 34480

Deborah Lesh
524 SE 42nd Street
Ocala, FL 34480

Earl Wilson Jr.
10593 Pullman Rd.
Pennsboro, WV 26415

Annabel Wilson Day
4101 County Rd 282
Auxvasse, MO 65231

Julia Staggers
3052 Valley Avenue #100
Winchester, VA 22601

Sandra Staggers
1604 Rose Hill Drive
Charlottesville, VA 22903

Susan Cafferty
3855 105th Street SE
Kandiyohi, MN 56251

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85-10289

Coal Owners

Mira White
3244 Homerood Ave
North Port, FL 34286

Ian David Wilson
1025 E. south Street
Harrisville, WV 26362

James Douglas Wilson
214 S. Church Street
Harrisville, WV 26362

James Bradley Wilson
665 Nicolette Rd.
Parkersburg, WV 26104

Robert Brian Wilson
665 Nicolette Rd.
Parkersburg, WV 26104

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WV Department of
Environmental Protection

85-10289

WW-6A4
(1/12)

Operator Well No. 515966

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

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

Notice Time Requirement: Notice shall be provided at least **TEN (10)** days prior to filing a permit application.
Date of Notice: 04/15/2016 **Date Permit Application Filed:** 04/25/2016

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

☐ HAND DELIVERY ☑ CERTIFIED MAIL RETURN RECEIPT REQUESTED

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

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

Name: See Attached
Address:

Name: See Attached
Address:

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

State: WV
County: Ritchie
District: Union
Quadrangle: Pullman
Watershed: Goose Run of Rockcamp Run

UTM NAD 83 Easting: 501,223.443
Northing: 4,340,221.893
Public Road Access: 12/3
Generally used farm name: James H. & Wilma J. Wilson

This Notice Shall Include:
Pursuant to West Virginia Code § 22-6A-16(b), this notice shall include the name, address, telephone number, and if available, facsimile number and electronic mail address of the operator and the operator's authorized representative. Additional information related to horizontal drilling may be obtained from the Secretary, at the WV Department of Environmental Protection headquarters, located at 601 57th Street, SE, Charleston, WV 25304 (304-926-0450) or by visiting www.dep.wv.gov/oil-and-gas/pages/default.aspx.

Notice is hereby given by:

Well Operator: EQT Production Company
Address: 115 Professional Place PO Box 280
Bridgeport WV 26330
Telephone: 304-848-0076
Email: vroark@eqt.com
Facsimile: 304-848-0041

Authorized Representative: Victoria Roark
Address: 115 Professional Place PO Box 280
Bridgeport WV 26330
Telephone: 304-848-0076
Email: vroark@eqt.com
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.

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WV Department of
Environmental Protection

85-10289

Surface Owner

Wilma J. Wilson
214 N. Church St.
Harrisville, WV 26362

James Douglas Wilson
214 N. Church Street
Harrisville, WV 26362

Robert Brian Wilson
665 Nicolette, Rd.
Parkersburg, WV 26104

James Bradley Wilson
665 Nicolette Rd.
Parkersburg, WV 26104

Ian David Wilson
4850 Pullman Road
Harrisville, WV 26362

David R. Wilson and Judy Wilson
42 School Street
Harrisville, WV 26362

Jean W. Moore
1590 Rock Camp Road
Harrisville, WV 26362

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Environmental Protection

WW-6A5
(1/12)

85-10285
Operator Well No. 515966

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

Notice Time Requirement: notice shall be provided no later than the **filing date of permit application.**
Date of Notice: 5/5/16 **Date Permit Application Filed:** 5/5/16

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

☒ CERTIFIED MAIL RETURN RECEIPT REQUESTED ☐ HAND DELIVERY

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

Notice is hereby provided to the SURFACE OWNER(s)
(at the address listed in the records of the sheriff at the time of notice):

Name: See Attached
Address:

Name: See Attached
Address:

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

State:	WV	UTM NAD 83 Easting:	501,223.443
County:	Ritchie	Northing:	4,340,221.893
District:	Union	Public Road Access:	12/3
Quadrangle:	Pullman	Generally used farm name:	James H. & Wilma J. Wilson
Watershed:	Goose Run of Rockcamp Run		

This Notice Shall Include:
Pursuant to West Virginia Code § 22-6A-16(c), this notice shall include: (1)A copy of this code section; (2) The information required to be provided by **W. Va. Code § 22-6A-10(b)** to a surface owner whose land will be used in conjunction with the drilling of a horizontal well; and (3) A proposed surface use and compensation agreement containing an offer of compensation for damages to the surface affected by oil and gas operations to the extent the damages are compensable under article six-b of this chapter. Additional information related to horizontal drilling may be obtained from the Secretary, at the WV Department of Environmental Protection headquarters, located at 601 57th Street, SE, Charleston, WV 25304 (304-926-0450) or by visiting www.dep.wv.gov/oil-and-gas/pages/default.aspx.

Well Operator:	EQT Production Company	Address:	115 Professional Place PO Box 280
Telephone:	304-848-0076		Bridgeport WV 26330
Email:	vroark@eqt.com	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.

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MAY 06 2016
WV Department of
Environmental Protection

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

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

OFFICIAL USE

Certified Mail Fee
$

Extra Services & Fees (check box, add fee as appropriate)
- Return Receipt (hardcopy) $
- Return Receipt (electronic) $
- Certified Mail Restricted Delivery $
- Adult Signature Required $
- Adult Signature Restricted Delivery $

Postage
$

Total Postage
$

Sent To
James Douglas Wilson
214 N Church St
Harrisville WV 26362

Street and Apt.
PUL96 Permit App & Planned Op

City, State, ZIP+4®

PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions

7016 0340 0000 8668 4809

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MAY 05 2016
26330-USPS

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Total Postage
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Sent To
Wilma J Wilson
214 N Church St
Harrisville WV 26362

Street and Apt.
PUL96 Permit App & Planned Op

City, State, ZIP+4®

PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions

7016 0340 0000 8668 4816

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- Certified Mail Restricted Delivery $
- Adult Signature Required $
- Adult Signature Restricted Delivery $

Postage
$

Total Postage
$

Sent To
James Bradley Wilson
665 Nicolette Rd
Parkersburg, WV 26104

Street and Apt.
PUL96 Permit App & Planned Op

City, State, ZIP+4®

PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions

7016 0340 0000 8668 4786

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MAY 05 2016
26330-USPS

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OFFICIAL USE

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- Return Receipt (electronic) $
- Certified Mail Restricted Delivery $
- Adult Signature Required $
- Adult Signature Restricted Delivery $

Postage
$

Total Postage
$

Sent To
Robert Brian Wilson
665 Nicolette Rd
Parkersburg WV 26104

Street and Apt.
PUL96 Permit App & Planned Op

City, State, ZIP+4®

PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions

7016 0340 0000 8668

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MAY 05 2016
26330-USPS

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

OFFICIAL USE

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- Return Receipt (electronic) $
- Certified Mail Restricted Delivery $
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- Adult Signature Restricted Delivery $

Postage
$

Total Postage
$

Sent To
Jean W Moore
1590 Rock Camp Rd
Harrisville WV 26362

Street and Apt.
PUL96 Permit App & Planned Op

City, State, ZIP+4®

PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions

7016 0340 0000 8668 4755

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- Return Receipt (hardcopy) $
- Return Receipt (electronic) $
- Certified Mail Restricted Delivery $
- Adult Signature Required $
- Adult Signature Restricted Delivery $

Postage
$

Total Postage
$

Sent To
David R Wilson & Judy Wilson
42 School St
Harrisville WV 26362

Street and Apt.
PUL96 Permit App & Planned Op

City, State, ZIP+4®

PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions

7016 0340 0000 861

MAY 05 2016
Postmark Here
26330-USPS

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

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OFFICIAL USE

Certified Mail Fee
$

Extra Services & Fees (check box, add fee as appropriate)
- Return Receipt (hardcopy) $
- Return Receipt (electronic) $
- Certified Mail Restricted Delivery $
- Adult Signature Required $
- Adult Signature Restricted Delivery $

Postage
$

Total Postage
$

Sent To
Ian David Wilson
4850 Pullman Rd
Harrisville WV 26362

Street and Apt.
PUL96 Permit App & Planned Op

City, State, ZIP+4®

PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions

7016 0340 0000 8668 4724

BRIDGEPORT MPO
MAY 05 2016
26330-USPS

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on first SO Receipts

David R. Wilson and Judy Wilson
42 School Street
Harrisville, WV 26362

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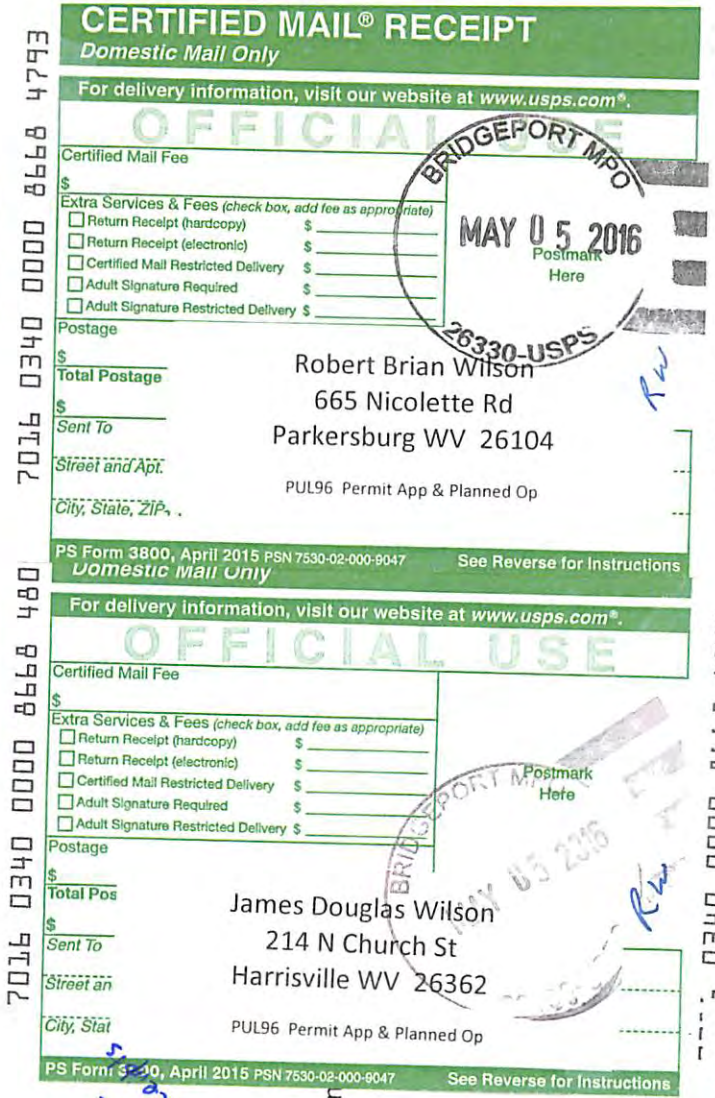

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Environmental Protection

85-10289

WEST VIRGINIA DEPARTMENT OF TRANSPORTATION
Division of Highways
1900 Kanawha Boulevard East • Building Five • Room 110
Charleston, West Virginia 25305-0430 • (304) 558-3505

Earl Ray Tomblin
Governor

Paul A. Mattox, Jr., P. E.
Secretary of Transportation/
Commissioner of Highways

April 18, 2016

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 PUL 96 Pad Site, Ritchie County

515966 PUL96H9

Dear Mr. Martin,

This well site will be accessed from Permit #03-2015-0122 applied for by EQT Production Company for access to the State Road. The well site is located off of Ritchie County Route 12/3 SLS. Approved permit must be received before the start of construction.

The operator has signed a STATEWIDE OIL AND GAS ROAD MAINTENANCE BONDING AGREEMENT and provided the required Bond. This operator is currently in compliance with the DOH OIL AND GAS POLICY dated January 3, 2012.

Very Truly Yours,

Gary K. Clayton

Gary K. Clayton, P.E.
Regional Maintenance Engineer
Central Office O&G Coordinator

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Office of Oil and Gas
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WV Department of
Environmental Protection

Cc: Nick Bumgardner
EQT Production Company
CH, OM, D-3, File

85-10289

Anticipated Frac Additives

Chemical Names and CAS numbers

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

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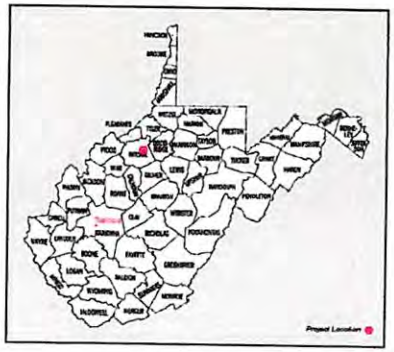
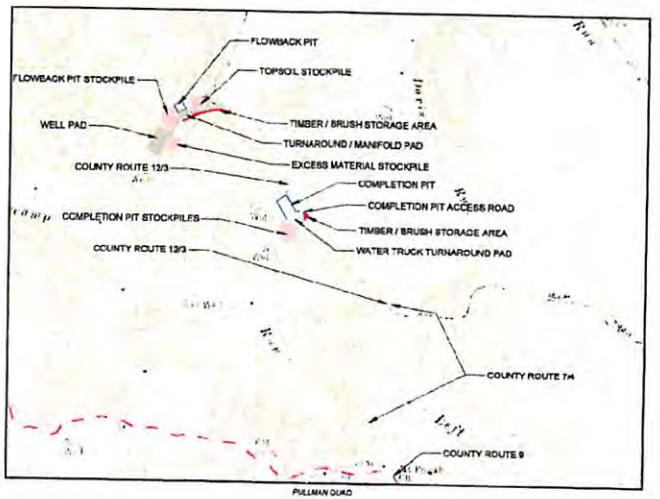
PUL 96
AS BUILT COVER SHEET / LOCATION MAP





AFFECTED PROPERTIES
CLAY & UNION DISTRICTS - RITCHIE COUNTY, WV

All topographic information shown hereon is based on scanned data as provided by Allegheny Surveys, Inc. dated 10.19.2015

FLOODPLAIN CONDITIONS

DO SITE CONSTRUCTION ACTIVITIES TAKE PLACE IN FLOODPLAIN:	NO
PERMIT NEEDED FROM COUNTY FLOODPLAIN COORDINATOR:	NO
HEC-RAS STUDY COMPLETED:	N/A
FLOODPLAIN SHOWN ON DRAWINGS:	N/A
FIRM MAP NUMBER(S) FOR SITE:	54103C0185C
ACREAGES OF CONSTRUCTION IN FLOODPLAIN:	N/A

NO WETLANDS OR STREAMS ARE IMPACTED

WVDEP OOG ACCEPTED AS-BUILT 7-26-2016

GRADING VOLUMES				ASBUILT GRADING VOLUMES				TDE KEY EXCAVATION		
DESCRIPTION	CUT (CY)	FILL (CY)	NET (CY)	CUT (CY)	FILL (CY)	NET (CY)	Design vs Asbuilt	CUT (CY)	FILL (CY)	NET (CY)
WELL PAD ACCESS ROAD	3,893	1,917	976	4,493	3,721	771	205	3,059	0	3,659
WELL PAD	38,128	24,163	13,965	35,153	24,933	10,212	3,753	5,342	0	5,342
COMPLETION PIT	68,447	15,823	52,624	67,677	15,680	51,997	627	2,017	0	2,017
FLOWBACK PIT	34,880	3,857	21,023	26,557	9,411	23,342	-2,119	1,405	0	1,405
COMPLETION PIT ACCESS / WTTA	479	17,842	17,363	1,566	17,285	-15,719	-1,644	1,075	0	1,075
FLOWBACK PIT ACCESS / MANIFOLD	4,569	1,859	2,709	2,391	264	2,127	573	0	0	0
COMP / WTTA STOCKPILE	0	43,220	-43,220	15	40,919	-40,904	-7,316	3,881	0	3,881
FLOWBACK PIT ACCESS / MANIFOLD	0	22,585	-22,585	0	17,381	-17,381	-5,204	1,071	0	1,071
EXCESS MATERIAL STOCKPILE	0	8,120	-8,120	0	17,073	-17,073	8,953	2,572	0	2,572
TOPSOIL STOCKPILE	12,850	0	12,850	12,314	0	12,314	536	3,894	0	3,894
TOTAL	154,226	141,386	12,850	150,163	140,677	9,486	3,364	25,516	0	25,516

SITE LOCATIONS NAD 83		
	LATITUDE	LONGITUDE
Beginning of Completion Pit Access Road	39.207807	-80.978449
Center of Completion Pit	39.207949	-80.977306
Beginning of Well Pad Access Road	39.212806	-80.981797
Center of Flowback Pit	39.212857	-80.984765
Center of Well Pad	39.211704	-80.985019

WELL LEGEND

H8 515967 - LAT: 39.211306 / LONG:-80.985804
H9 515966 - LAT: 39.211269 / LONG:-80.985829
H6 515888 - LAT: 39.211233 / LONG:-80.985853 (API# 47-085-10218)
H4 515886 - LAT: 39.211196 / LONG:-80.985878 (API# 47-085-10217)
H3 515885 - LAT: 39.211160 / LONG:-80.985902 (API# 47-085-10220)
H1 515883 - LAT: 39.211123 / LONG:-80.985927 (API# 47-085-10219)
H10 515977 - LAT: 39.211087 / LONG:-80.985951 (API# 47-085-10210)
H7 515965 - LAT: 39.211050 / LONG:-80.985976 (API# 47-085-10209)
H5 515887 - LAT: 39.211014 / LONG:-80.986000 (API# 47-085-10211)
H2 515884 - LAT: 39.210977 / LONG:-80.986025 (API# 47-085-10207)

ASBUILT MATERIAL QUANTITIES			
ITEM DESCRIPTION	DESIGN QTY	UNIT	ASBUILT QTY
Clearing and Grubbing	28.99	AC	28.99
24" Silt Sox	6,770	LF	6,794
Straw Wattle	6,080	LF	3,659
Access Roads, Well Pad, & WTTA's 6" Minus Crusher Run Aggregate (8")	4,857	CY	4,574
Access Roads, Well Pad, & WTTA's 1.5" Minus Crusher Run Aggregate (2")	1,213	CY	1,143
15" Dia. HDPE Culvert/ Pipe	247	LF	110
18" Dia. HDPE Culvert/ Pipe	0	LF	0
Erosion Control Matting	41,280	SY	N/A
Access Roads, Well Pad, & WTTA's Geotextile Fabric (Terra Tex HTG-37)	6,508	SY	6,940
Existing Fence Replacement/ Relocation	0	LF	N/A

Notes:
Quantities are based upon comparisons of design data to asbuilt field surveyed or scanned data and do not account for overlap, actual truck volumes or tonnage as required for proper installation or waste.

Descrepancies in E & S device quantities may be due to items not being completely installed at time of field survey or scan.

MISS Utility of West Virginia
1-800-245-1848
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!!
811 Know what's below. Call before you dig.

Project Contacts:
EQT
Chris Metzger - EQT Production Company
304-848-0075 Off.

Billy Miller - Landman II-Drilling EQT Production Company
304-627-0367 Mobile
304-843-0039 Office

Surveyor & Engineer

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

Thomas D. Corathers - PE , PS- Homer Brothers Engineers
304-624-6445 Office

SHEET INDEX

COVER SHEET / LOCATION MAP	1
AS-BUILT GRADING	2-9
AS-BUILT ROUTES IMPROVEMENTS PROFILE	10
AS-BUILT MAIN ACCESS & COMPLETION PIT ROAD PROFILE	11

DATE	REVISIONS
3.31.16	ADD API NUMBERS, UPDATE H8 & H9

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

Hornor Bros. Engineers
Civil, Mining, Environmental and Consulting Engineering

THIS DOCUMENT PREPARED FOR EQT PRODUCTION COMPANY

AS BUILT COVER SHEET
PUL 96
WELL PAD SITE
CLAY & UNION DISTRICTS
RITCHIE COUNTY, WV

Date: 10/28/2015
Scale: N/A
Designed By: TDC
Drawn By:
Page: 1 of 11

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Office of Oil and Gas
MAR 30 2016
WV Department of
Environmental Protection