



west virginia department of environmental protection

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

Harold D. Ward, Cabinet Secretary
www.dep.wv.gov

Thursday, December 29, 2022
WELL WORK PLUGGING PERMIT
Horizontal 6A Plugging

EQT PRODUCTION COMPANY
625 LIBERTY AVE., SUITE 1700

PITTSBURGH, PA 15222

Re: Permit approval for WRIGHT 1H
47-049-02281-00-00

This well work permit is evidence of permission granted to perform the specified well work at the location described on the attached pages and located on the attached plat, subject to the provisions of Chapter 22 of the West Virginia Code of 1931, as amended, and all rules and regulations promulgated thereunder, and to any additional specific conditions and provisions outlined in the pages attached hereto. Notification shall be given by the operator to the Oil and Gas Inspector at least 24 hours prior to the construction of roads, locations, and/or pits for any permitted work. In addition, the well operator shall notify the same inspector 24 hours before any actual well work is commenced and prior to running and cementing casing. Spills or emergency discharges must be promptly reported by the operator to 1-800-642-3074 and to the Oil and Gas Inspector.

Upon completion of the plugging well work, the above named operator will reclaim the site according to the provisions of WV Code 22-6-30. Please be advised that form WR-38, Affidavit of Plugging and Filling Well, is to be submitted to this office within 90 days of completion of permitted well work, as should form WR-34 Discharge Monitoring Report within 30 days of discharge of pits, if applicable. Failure to abide by all statutory and regulatory provisions governing all duties and operations hereunder may result in suspension or revocation of this permit and, in addition, may result in civil and/or criminal penalties being imposed upon the operators.

Per 35 CSR 4-5.2.g this permit will expire in two (2) years from the issue date unless permitted well work is commenced. If there are any questions, please feel free to contact me at (304) 926- 0450.

James A. Martin
Chief

Operator's Well Number: WRIGHT 1H
Farm Name: RADCLIFF, JACKIE & SHEIL
U.S. WELL NUMBER: 47-049-02281-00-00
Horizontal 6A Plugging
Date Issued: 12/29/2022

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PERMIT CONDITIONS

West Virginia Code § 22-6-11 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. All pits must be lined with a minimum of 20 mil thickness synthetic liner.
2. In the event of an accident or explosion causing loss of life or serious personal injury in or about the well or while working on the well, the well operator or its contractor shall give notice, stating the particulars of the accident or explosion, to the oil and gas inspector and the Chief within twenty-four (24) hours.
3. Well work activities shall not constitute a hazard to the safety of persons.

12/30/2022

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

APPLICATION FOR A PERMIT TO PLUG AND ABANDON

4) Well Type: Oil ___ / Gas X / Liquid injection ___ / Waste disposal ___ /
(If "Gas, Production ___ or Underground storage ___) Deep ___ / Shallow X

5) Location: Elevation 1494' Watershed Bartholomew Fork
District Mannington County Marion Quadrangle Glover Gap 7.5'

6) Well Operator EQT Production Company 7) Designated Agent Joseph C. Mallow
Address 400 Woodcliff Drive Address 427 Midstate Drive
Canonsburg PA 15317 Clarksburg, WV 26301

8) Oil and Gas Inspector to be notified Name Kenneth Greynolds
Address 613 Broad Run Road
Jane Lew, WV 26378
9) Plugging Contractor Name R&J
Address 1087 Raccoon Road
Hueysville, KY 41640

10) Work Order: The work order for the manner of plugging this well is as follows:
See Attachment for details and procedures.

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Environmental Protection

Notification must be given to the district oil and gas inspector 24 hours before permitted work can commence.

Work order approved by inspector Kenneth Greynolds Date 12/30/2022

Digitally signed by Kenneth Greynolds
DN: cn = Kenneth Greynolds, email = Kenneth.Greynolds@wv.gov, c = US, o = WVDEP, ou = Oil and Gas
Date: 2022.11.02 13:17:57 -0500

12/30/2022

Radcliff 1H
Marion Co., WV
HZ Marcellus well
API # 47-049-02281
BY: Tyler Mizgorski
DATE: 10/31/2022

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CURRENT STATUS:

Elevation @ 1,490
20" J-55 94 ppf conductor @ 120' Type 1 Cement to Surface
13 3/8" J55 54.5 ppf casing @ 1,235' Type 1 Cement to Surface
9 5/8" J55 - 36 ppf casing @ 2,950' Type 1 Cement to Surface
5 1/2" P110 - 20 ppf casing @ 13,634' Class H POZ/Class H Cemented to Surface

Well Not Completed
Fresh water @ 60', 150'
Salt water @ 1,525'
Coal Show @ 1200'

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- 1) Notify Inspector **Ken Greynolds**, (304) 206-6613, Kenneth.L.Greynolds@wv.gov prior to beginning operations.
- 2) Check and record pressure on all casings, notify Engineer of recorded pressures.
- 3) Install 10k wireline BOP. Test BOP's and stack to regs. P/U install 10k lubricator. (Call 8hrs before, will need crane truck)
- 4) Equalize lubricator, if necessary and RIH w/ wireline to top of marcellus at 8,129' and set a CIBP above the Marcellus @ 8,079' MD. If unable to get to set depth, EQT office will call DEP to discuss options.
- 5) Hook up pump truck and pressure test lines to 8000 psi. (Call pump truck 8hrs before)
- 6) POOH w/ wireline and load well with 6% gel if not full. Perform CIT with pump truck to 2000 psi. Ensure leak-off is not more than 10% in thirty minutes per regulation.
- 7) RIH and set second CIBP 10' above the first
- 8) POOH w/ wireline and load well with 6% gel if not full. Perform CIT with pump truck to 2000 psi. Ensure leak-off is not more than 10% in thirty minutes per regulation.
- 9) RIH with Renegade segmented bond log and pull log from CIBP to surface
- 10) TIH with tubing to CIBP.
- 11) Pump 1500' Class A or Class L cement plug. 8,069' to ^{6,569'} 7,569' Pump 500' of cement and pull 500' of tubing 2 times. Pump last 500' section and pull tubing 300' and reverse circulate full hole volume. TOOH 300'
- 12) Let cement dry for 8 hours and tag top of cement. If cement top is at ^{6,569'} or close POOH to 3,150' and set a 500' Class A or Class L Cement plug from 3,150' to 2,650'. Pump 500' of cement and pull 500' of tubing. Pull tubing 300' and reverse circulate full hole volume. TOOH 300' (safety plug - 9 5/8" Casing Seat)
- 13) Let cement dry for 8 hours and tag top of cement. If cement top is at 2,650' POOH to 1,400'. Set a 400' Class A or Class L cement plug 1,400' to 1000'. TOOH 300' Reverse circulate full hole volume. TOOH 300' (13 3/8" casing seat - Coal Plug)
- 14) Let cement dry for 8 hours.
- 15) TIH with tubing and check TOC. IF at 1000' or close POOH to 350' and set Class A or Class L plug 350' to surface (Freshwater, and surface plug)
- 16) Reclaim location and Set Monument above ground to WV-DEP Specifications

Kenneth Greynolds
Digitally signed by Kenneth Greynolds
DN: cn = Kenneth Greynolds email = Kenneth.L.Greynolds@wv.gov, c = AD O = WVDEP, ou = Oil and Gas
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Actual Wellpath Report

Wright IH AWP Proj: 13677
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REFERENCE WELLPATH IDENTIFICATION

Operator	TRANS ENERGY Inc.	Slot	Slot 01
Area	Marion County, WV	Well	Wright IH
Field	Marion	Wellbore	Wright IH AWB
Facility	Wright Pad		

REPORT SETUP INFORMATION

Projection System	NAD27 - Lambert West Virginia SP, Northern Zone (4701), U.S feet	Software System	WellArchitect® 4.0.1
North Reference	Grid	User	Hareluk
Scale	0.999941	Report Generated	06 Nov 2014 at 11:26:51 AM
Convergence at Slot	0.60' West	Database Source File	WellArchitect\EasterDB\Wright_IH_AWB.xml

WELLPATH LOCATION

	Local coordinates		Grid coordinates		Geographic coordinates	
	North(ft)	East(ft)	Easting(U.S ft)	Northing(U.S ft)	Latitude	Longitude
Slot Location	4706	4706	1735594.27	397669.91	39°35'16.962"N	80°26'17.490"W
Facility Reference Pt			1735594.27	397669.91	39°35'16.962"N	80°26'17.490"W
Field Reference Pt			1738625.49	396770.37	39°35'08.182"N	80°25'38.652"W

WELLPATH DATUM

Calculation method	Minimum curvature	H&P (KB) to Facility Vertical Datum	1522.00ft
Horizontal Reference Pt	Slot	H&P (KB) to Mean Sea Level	1522.00ft
Vertical Reference Pt	H&P (KB)	H&P (KB) to Mud Line at Slot (Slot 01)	29.00ft
MD Reference Pt	H&P (KB)	Section Origin	N 0.00, E 0.00 ft
Field Vertical Reference	Mean Sea Level	Section Azimuth	350.00°

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REFERENCE WELLPATH IDENTIFICATION

Operator:	TRANS ENERGY Inc.	Site:	Slor 01
Area:	Marion County, WV	Well:	Wright IH
Field:	Marion	Wellbore:	Wright IH AWB
Facility:	Wright Pad		

WELLPATH DATA (167 stations)

MD (ft)	Inclination (°)	Azimuth (°)	TV D (ft)	Vert Surf (ft)	North (ft)	East (ft)	Grid East (U.S. ft)	Grid North (U.S. ft)	Latitude	Longitude	Chosen Dst (ft)	Chosen Dst (ft)	DLS (ft/1000)
2555.00	2.390	107.121	2527.78	-27.98	-10.69	153.65	1735720.35	397640.23	39.3316.8717°N	80°26'15.7657°W	153.52	94.426	0.51
2630.00	1.400	86.835	2622.32	-35.22	13.41	138.14	1735732.40	397638.53	39.3316.8657°N	80°26'15.7247°W	158.63	94.739	0.10
2724.00	1.140	88.575	2716.50	-35.69	-13.57	140.21	1735734.47	397638.09	39.3316.8627°N	80°26'15.6977°W	146.69	94.697	0.14
2819.00	1.100	18.520	2813.48	-35.66	-13.19	141.94	1735736.20	397638.72	39.3316.8667°N	80°26'15.6757°W	142.38	94.606	0.42
2906.00	1.100	74.270	2908.47	-35.43	-10.63	143.46	1735737.71	397639.23	39°35'16.8717°N	80°26'15.656°W	143.85	94.257	0.16
3070.00	0.740	35.470	3062.44	-34.83	-8.93	145.44	1735740.10	397639.26	39.3316.8617°N	80°26'15.6267°W	146.16	93.780	0.28
3164.00	0.770	56.470	3151.44	-34.33	-8.09	146.87	1735741.13	397639.95	39.3316.8687°N	80°26'15.6177°W	147.14	93.491	0.64
3259.00	0.560	77.010	3243.47	-34.03	-6.45	147.86	1735742.11	397640.41	39.3316.8677°N	80°26'15.6007°W	148.10	93.297	0.33
3353.00	0.430	106.050	3335.43	-34.15	-8.49	148.57	1735742.91	397640.45	39.3316.8677°N	80°26'15.5907°W	148.89	93.258	0.25
3448.00	0.340	56.080	3440.43	-34.15	-4.37	149.24	1735743.49	397640.54	39°35'16.8947°N	80°26'15.5827°W	149.47	93.209	0.32
3542.00	0.460	95.670	3534.43	-33.91	-8.92	149.79	1735744.05	397640.89	39.3316.8687°N	80°26'15.5757°W	150.01	93.064	0.15
3636.00	0.510	36.560	3628.43	-33.49	-7.49	150.57	1735744.62	397641.42	39.3316.8697°N	80°26'15.5697°W	150.55	92.857	0.21
3731.00	0.280	312.230	3723.42	-32.67	-4.92	151.40	1735744.94	397642.90	39.3316.8697°N	80°26'15.5637°W	150.77	92.380	0.51
3825.00	0.340	11.170	3817.42	-32.33	-4.29	150.64	1735744.96	397643.65	39.3316.9157°N	80°26'15.5637°W	150.77	92.380	0.51
3919.00	0.500	345.420	3911.41	-31.50	-5.43	150.62	1735744.98	397644.48	39°35'16.9247°N	80°26'15.5657°W	150.72	92.065	0.25
4014.00	0.620	348.330	4006.41	-30.58	-4.57	151.42	1735744.67	397645.38	39.3316.9377°N	80°26'15.5687°W	150.48	91.721	0.15
4108.00	0.460	338.680	4100.41	-29.70	-3.68	150.18	1735744.41	397646.27	39.3316.9417°N	80°26'15.5717°W	150.22	91.402	0.20
4202.00	0.320	29.250	4194.40	-29.12	-3.19	149.17	1735744.42	397646.82	39.3316.9447°N	80°26'15.5717°W	150.20	91.181	0.38
4297.00	0.340	340.230	4289.40	-28.64	-2.60	148.26	1735744.46	397647.11	39.3316.9527°N	80°26'15.5717°W	150.22	90.991	0.29
4391.00	0.300	318.710	4383.40	-28.16	-2.15	149.94	1735744.02	397647.76	39°35'16.9567°N	80°26'15.5747°W	149.96	90.822	0.13
4485.00	0.400	346.240	4477.40	-27.62	-1.64	149.70	1735744.02	397648.27	39.3316.9617°N	80°26'15.5777°W	149.77	90.627	0.26
4579.00	2.110	213.650	4571.38	-26.85	-1.75	148.79	1735743.04	397648.71	39.3316.9607°N	80°26'15.5807°W	149.81	91.060	2.10
4674.00	3.720	137.320	4666.26	-25.64	-1.21	147.11	1735742.55	397649.76	39.3316.9607°N	80°26'15.6107°W	147.28	92.805	1.99
4768.00	3.860	189.920	4761.65	-24.21	-1.18	145.12	1735740.57	397650.73	39.3316.9467°N	80°26'15.6327°W	145.91	95.182	6.46
4862.00	4.580	180.260	4853.80	-44.68	-19.94	144.21	1735738.47	397649.97	39°35'16.7807°N	80°26'15.6457°W	145.58	97.872	1.70
4956.00	4.540	180.920	4947.57	-33.64	-17.21	143.41	1735739.67	397649.76	39.3316.7827°N	80°26'15.6297°W	147.93	100.598	1.17
5051.00	6.670	142.920	5042.05	-21.65	-13.14	138.08	1735744.25	397650.77	39.3316.6107°N	80°26'15.6097°W	154.16	107.183	2.61
5146.00	8.720	146.620	5138.26	-12.34	-10.42	147.24	1735741.40	397650.46	39.3316.5297°N	80°26'15.4757°W	163.47	116.113	2.24
5239.00	9.080	156.320	5229.11	-8.47	-9.05	153.05	1735740.29	397650.86	39.3316.5697°N	80°26'15.5097°W	173.4	109.911	7.48
5333.00	9.000	165.010	5322.74	-102.00	-74.15	166.95	1735740.14	397650.77	39°35'16.2467°N	80°26'15.3497°W	182.62	113.956	0.74

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Wellpath Report

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REFERENCE WELLPATH IDENTIFICATION

Operator	TRANS ENERGY Inc	Site	Slot 01
Area	Marion County, WV	Well	Wright 1H
Field	Marion	Wellbore	Wright 1H A W B
Facility	Wright Pad		

WELLPATH DATA (167 stations)

MD (ft)	Elevation (ft)	Azimuth (°)	TV D (ft)	Vert Surf (ft)	North (ft)	East (ft)	Grid East (US B)	Grid North (US B)	Latitude	Longitude	Closest Dist (ft)	Closest Dir (°)	DLS (ft/1000)
429.00	675.00	174.00	541.93	-114.00	-385.00	170.00	173779.42	167484.74	39°38'16.1337N	80°26'14.2045W	154.21	116.62	5.51
452.00	16.500	149.720	530.53	-121.72	-57.41	177.59	173779.12	167482.53	39°38'16.0177N	80°26'14.2113W	212.55	118.777	4.87
463.00	19.340	150.260	502.40	-142.77	112.21	185.96	173780.16	167485.72	39°38'15.8725N	80°26'14.1637W	217.33	121.112	5.10
471.00	12.020	145.590	504.62	-139.64	127.61	199.61	173780.87	167482.51	39°38'15.7217N	80°26'14.0747W	233.56	123.134	2.91
5826.00	17.040	142.510	5785.58	-180.79	-146.63	209.53	1735803.78	167526.29	39°35'15.5347N	80°26'14.7947W	255.74	124.985	5.40
6031.00	23.520	141.210	5874.71	-206.64	172.30	229.93	1735824.05	167497.56	39°35'15.2827N	80°26'14.5327W	287.28	126.871	6.65
6063.00	24.670	140.120	5960.60	-242.97	243.94	253.96	1735848.21	167467.98	39°35'14.9927N	80°26'14.2197W	324.48	128.489	1.45
6266.00	20.440	136.780	6048.55	-274.08	226.27	277.67	1735872.22	167440.65	39°35'14.7247N	80°26'13.9097W	361.33	128.515	4.67
6384.00	18.800	145.940	6139.36	-301.45	255.42	298.16	1735892.41	167416.40	39°35'14.4877N	80°26'13.6487W	391.27	130.374	3.96
6278.00	22.690	149.230	6224.74	-332.06	-281.61	316.39	1734910.63	167388.53	39°35'14.2137N	80°26'13.4117W	423.42	131.650	4.53
6373.00	24.470	147.060	6310.40	-370.08	316.17	338.09	1734932.34	167355.76	39°35'13.8727N	80°26'13.1297W	462.96	133.081	6.26
6467.00	24.170	143.270	6384.64	-407.90	349.42	361.80	1734956.04	167320.97	39°35'13.5367N	80°26'12.8227W	502.68	134.085	4.92
6561.00	27.780	149.770	6480.67	-442.61	381.96	382.76	1734976.94	167289.97	39°35'13.2247N	80°26'12.5417W	544.70	134.645	2.94
6656.00	25.910	162.980	6567.08	-480.96	418.13	398.28	1734992.82	167261.81	39°35'12.8717N	80°26'12.2477W	577.46	136.303	6.36
6751.00	24.710	163.340	6652.96	-521.26	-457.00	410.05	1734004.29	167212.94	39°35'12.4687N	80°26'12.1927W	613.99	138.699	1.27
6845.00	23.880	160.160	6738.64	-559.52	493.72	422.14	1734030.58	167176.22	39°35'12.1267N	80°26'12.0327W	649.59	139.469	11.5
6940.00	26.760	158.410	6825.15	-594.60	527.14	434.73	1734028.97	167142.80	39°35'11.7937N	80°26'11.8677W	687.28	140.489	3.85
7036.00	18.340	155.740	6898.82	-616.55	547.87	445.47	1734027.71	167122.08	39°35'11.6937N	80°26'11.7537W	704.80	141.912	3.16
7102.00	18.700	151.840	6980.66	-644.91	574.76	456.51	1734031.74	167095.88	39°35'11.5327N	80°26'11.5837W	722.68	141.522	1.36
7197.00	18.250	147.990	7070.27	-672.87	-600.13	471.44	1736662.67	167069.82	39°35'11.0807N	80°26'11.3887W	763.15	141.848	1.27
7293.00	15.590	142.190	7162.11	-698.22	623.67	487.32	1736681.53	167046.88	39°35'10.8347N	80°26'11.1877W	791.01	141.976	3.26
7342.00	9.810	134.040	7262.96	-707.40	631.18	494.36	1736688.66	167028.77	39°35'10.7757N	80°26'11.0757W	801.74	141.931	12.52
7387.00	5.940	129.270	7244.47	-712.62	644.99	499.13	1736695.35	167014.96	39°35'10.7387N	80°26'11.0307W	807.69	141.850	9.64
7473.00	4.820	97.880	7308.70	-713.98	646.18	502.70	1736696.99	167013.66	39°35'10.7257N	80°26'11.0047W	810.99	141.680	6.03
7484.00	2.830	56.230	7351.22	-713.99	-635.88	505.48	1736699.71	167004.07	39°35'10.7107N	80°26'10.9497W	812.31	141.518	4.95
7490.00	4.250	152.740	7397.15	-711.83	623.55	506.21	1736710.44	167016.40	39°35'10.7037N	80°26'10.9407W	811.95	141.375	9.51
7580.00	7.480	155.640	7446.89	-706.82	629.74	504.52	1736698.40	167041.20	39°35'10.6937N	80°26'10.9037W	808.21	141.284	7.26
7630.00	11.760	150.610	7499.25	-696.27	621.77	504.84	1736695.18	167048.22	39°35'10.6897N	80°26'11.0097W	798.47	141.141	6.85
7674.00	13.160	136.790	7539.26	-696.52	617.31	498.91	1736691.14	167056.39	39°35'10.6497N	80°26'11.0637W	789.54	140.997	1.25
7719.00	17.050	341.990	7582.73	-679.00	-602.57	492.85	1736687.08	167067.38	39°35'11.0547N	80°26'11.1157W	778.45	140.720	9.15

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REFERENCE WELLPATH IDENTIFICATION

Operator	TRANS ENERGY Inc.	Slot	Slot 01
Area	Marion County, WV	Well	Wright IH
Field	Marion	Wellbore	Wright IH AWB
Facility	Wright Pad		

WELLPATH DATA (167 stations)

MD ID	Inclination (°)	Azimuth (°)	TVD (ft)	True North (ft)	North (ft)	East (ft)	Grid East (U.S. ft)	Grid North (U.S. ft)	Latitude	Longitude	Churn Dis (ft)	Churn Dir (°)	DLS (ft/100ft)
770.00	23.410	343.570	7620.60	6661.78	-583.02	488.09	1736082.55	397084.02	39°33'11.222"N	80°26'11.178"W	762.00	343.570	13.15
781.00	23.680	347.080	7671.46	6642.36	-507.10	487.29	1736079.55	397102.84	39°33'11.407"N	80°26'11.216"W	781.00	347.080	13.30
790.00	24.230	347.720	7713.02	6623.02	-428.00	487.51	1736080.14	397122.08	39°33'11.660"N	80°26'11.211"W	790.00	347.720	8.56
7908.00	28.560	31.980	7755.55	6594.99	-527.56	488.13	1736084.57	397142.44	39°33'11.799"N	80°26'11.190"W	7908.00	31.980	13.99
7946.00	33.640	17.810	7787.87	-587.18	-508.78	496.01	1736090.25	397161.16	39°33'11.984"N	80°26'11.087"W	7946.00	17.810	13.41
7982.00	38.240	13.794	7817.02	-568.15	-489.45	501.72	1736095.08	397181.49	39°33'12.140"N	80°26'10.973"W	7982.00	13.794	14.54
8029.00	43.120	9.910	7857.45	-548.81	-471.25	505.31	1736099.94	397203.71	39°33'12.347"N	80°26'10.873"W	8029.00	9.910	20.54
8044.00	48.140	6.150	7861.99	-528.06	-448.48	508.85	1736105.09	397225.46	39°33'12.602"N	80°26'10.851"W	8044.00	6.150	15.91
8071.00	52.850	4.150	7870.19	-508.01	-425.79	510.76	1736105.09	397244.15	39°33'12.866"N	80°26'10.869"W	8071.00	4.150	17.71
8106.00	58.430	1.890	7899.01	-479.92	-397.60	512.26	1736106.49	397272.93	39°33'13.091"N	80°26'10.894"W	8106.00	1.890	17.61
8136.00	64.220	0.870	7913.49	-444.12	-370.70	512.83	1736107.04	397299.23	39°33'13.317"N	80°26'10.891"W	8136.00	0.870	19.68
8185.00	72.650	798.510	7931.49	-409.22	-334.18	512.42	1736108.56	397344.75	39°33'13.617"N	80°26'10.902"W	8185.00	798.510	17.40
8236.00	79.660	356.470	7944.09	-358.23	-273.83	510.16	1736104.39	397396.12	39°33'14.007"N	80°26'10.937"W	8236.00	356.470	13.78
8270.00	82.680	344.740	7949.09	-326.77	-242.28	507.73	1736101.97	397427.64	39°33'14.630"N	80°26'10.977"W	8270.00	344.740	10.84
8701.00	84.640	354.140	7952.42	-306.05	-211.62	504.75	1736099.98	397458.30	39°33'14.922"N	80°26'11.015"W	8701.00	354.140	6.61
8713.00	85.340	345.260	7955.22	-264.24	-176.95	501.29	1736095.49	397489.96	39°33'15.233"N	80°26'11.064"W	8713.00	345.260	5.41
8724.00	85.220	342.140	7955.65	-211.24	-147.51	497.07	1736091.51	397522.01	39°33'15.557"N	80°26'11.121"W	8724.00	342.140	5.57
8798.00	83.070	342.000	7960.64	-169.65	-113.73	492.68	1736089.91	397544.18	39°33'16.009"N	80°26'11.182"W	8798.00	342.000	10.66
8427.00	83.200	351.596	7963.08	-179.64	-87.13	488.55	1736082.79	397582.79	39°33'16.151"N	80°26'11.238"W	8427.00	351.596	11.08
8461.00	87.080	351.470	7965.34	-136.73	-53.58	483.56	1736077.79	397616.34	39°33'16.482"N	80°26'11.306"W	8461.00	351.470	5.28
8752.00	90.250	341.950	7968.71	-77.78	-4.78	475.04	1736069.28	397674.09	39°33'17.098"N	80°26'11.423"W	8752.00	341.950	5.43
8010.00	91.080	342.520	7969.50	-14.14	99.47	467.89	1736056.15	397745.77	39°33'17.990"N	80°26'11.604"W	8010.00	342.520	1.96
8710.00	91.020	342.120	7969.89	112.06	192.99	449.17	1736043.41	397820.89	39°33'18.043"N	80°26'11.797"W	8710.00	342.120	0.22
8804.00	90.121	348.996	7962.94	206.04	241.70	435.75	1736027.09	397893.40	39°33'18.897"N	80°26'11.998"W	8804.00	348.996	3.46
8899.00	89.870	346.010	7963.20	300.95	378.43	413.19	1736007.43	398048.32	39°33'20.744"N	80°26'12.263"W	8899.00	346.010	3.19
8993.00	89.290	347.030	7964.14	394.70	409.84	391.28	1735985.62	398199.72	39°33'21.647"N	80°26'12.455"W	8993.00	347.030	1.15
9087.00	90.850	349.850	7964.54	488.71	441.91	375.47	1735966.67	398271.79	39°33'22.443"N	80°26'12.608"W	9087.00	349.850	7.42
9181.00	90.990	342.850	7962.54	582.64	474.82	348.28	1735945.62	398324.09	39°33'23.470"N	80°26'13.001"W	9181.00	342.850	3.22
9276.00	89.910	345.960	7961.80	677.48	509.19	327.78	1735921.67	398369.07	39°33'24.402"N	80°26'13.143"W	9276.00	345.960	1.07
9370.00	89.690	355.370	7962.13	771.17	542.78	308.96	1735902.90	398412.84	39°33'25.326"N	80°26'13.277"W	9370.00	355.370	1.50

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Wellpath Report

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Actual Wellpath Report

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REFERENCE WELLPATH IDENTIFICATION

Operator	TRANS ENERGY Inc.	Site	Slot 01
Area	Marion County, WV	Well	Wright 1H
Field	Marion	Wellbore	Wright 1H AWB
Facility	Wright Pad		

WELLPATH DATA (167 stations)

MD (ft)	Inclination (°)	Azimuth (°)	TV D (ft)	Vert Sect (ft)	North (ft)	East (ft)	Grid East (E.S.N.)	Grid North (E.S.N.)	Latitude	Longitude	Closest Dist (ft)	Closest Dir (°)	DLS (ft/100ft)
9484.00	90.750	156.17	7602.17	864.05	936.51	33.75	173525.17	398266.58	39.5526251°N	80°26'13.278°W	965.84	163.63	1.04
9550.00	90.862	155.57	7601.25	949.54	1231.11	32.67	173517.51	398266.58	39.5527185°N	80°26'13.461°W	1086.58	17.367	3.02
9635.00	90.710	146.180	7600.96	1033.28	1423.55	28.39	173509.12	398266.58	39.5528077°N	80°26'13.726°W	1164.58	18.254	7.63
9747.00	90.520	121.996	7600.96	1140.80	1214.20	26.80	173507.13	398266.58	39.5528491°N	80°26'14.017°W	1246.57	17.869	2.76
9842.00	90.310	106.780	7600.27	1241.54	1006.11	25.60	173505.85	398266.58	39°55'29.836°N	80°26'14.374°W	1331.27	11.157	3.37
9936.00	90.480	124.531	7600.27	1335.32	1197.78	23.10	173502.58	398266.58	39°55'30.794°N	80°26'14.673°W	1417.02	5.550	1.34
10011.00	90.740	148.995	7600.27	1430.25	1406.02	21.15	173500.58	398266.58	39°55'31.794°N	80°26'14.933°W	1505.52	8.178	1.66
10125.00	90.699	147.210	7600.27	1524.14	1581.99	19.74	173498.79	398266.58	39°55'32.817°N	80°26'15.214°W	1595.05	7.617	1.87
10219.00	90.220	149.868	7600.41	1617.95	1679.55	17.94	173497.09	398266.58	39°55'33.817°N	80°26'15.516°W	1682.20	3.887	1.82
10314.00	90.220	146.350	7600.05	1712.70	1765.47	149.43	173504.69	398266.58	39°55'34.422°N	80°26'15.816°W	1771.79	4.838	0.85
10407.00	90.220	156.510	7600.05	1807.45	1851.45	133.03	173502.48	398266.58	39°55'35.223°N	80°26'16.097°W	1861.12	4.024	4.25
10502.00	90.370	152.180	7600.20	1900.12	1938.42	116.17	173500.41	398266.58	39°55'36.249°N	80°26'16.296°W	1955.88	3.489	1.97
10596.00	90.090	149.186	7600.45	1994.62	2027.17	100.95	173498.21	398266.58	39°55'37.162°N	80°26'16.473°W	2046.66	2.829	1.21
10690.00	90.220	151.990	7600.59	2088.58	2115.89	85.57	173496.81	398266.58	39°55'38.079°N	80°26'16.642°W	2137.61	2.264	2.49
10785.00	90.280	154.540	7600.16	2183.42	2200.23	74.45	173496.09	398266.58	39°55'39.010°N	80°26'16.836°W	2231.47	1.911	2.68
10879.00	89.660	157.010	7600.21	2276.94	2283.97	67.91	173495.77	398266.58	39°55'40.036°N	80°26'17.057°W	2324.54	1.664	2.71
10973.00	89.540	156.660	7600.21	2370.27	2417.82	62.32	173495.58	398266.58	39°55'41.067°N	80°26'17.310°W	2418.62	1.479	0.81
11067.00	90.440	150.131	7600.28	2463.63	2511.68	56.85	173495.18	398266.58	39°55'42.198°N	80°26'17.599°W	2512.31	1.298	0.91
11162.00	90.250	148.838	7600.16	2558.28	2604.83	44.85	173494.72	398266.58	39°55'43.219°N	80°26'17.924°W	2606.21	0.986	8.21
11257.00	90.310	140.210	7602.69	2652.93	2697.30	19.54	173503.80	400367.04	39°55'43.620°N	80°26'18.600°W	2697.57	0.415	9.09
11351.00	90.250	139.099	7602.23	2748.48	2789.19	12.69	173503.58	400367.04	39°55'44.491°N	80°26'18.923°W	2789.53	399.776	6.36
11445.00	89.910	141.510	7602.10	2846.10	2874.25	44.97	173503.20	400367.04	39°55'45.362°N	80°26'19.450°W	2874.54	199.122	1.91
11539.00	90.250	140.138	7603.97	2943.11	2964.45	70.29	173502.42	400367.04	39°55'46.251°N	80°26'19.783°W	2969.28	198.642	8.38
11634.00	89.820	139.868	7603.51	3040.54	3057.54	49.08	173502.08	400367.04	39°55'47.169°N	80°26'19.953°W	3058.84	158.351	4.75
11728.00	89.750	130.080	7602.27	3138.56	3150.23	-104.69	173500.58	400367.04	39°55'48.084°N	80°26'19.247°W	3151.97	158.097	0.77
11822.00	90.740	136.660	7601.89	3234.34	3243.45	113.54	173497.73	400367.04	39°55'49.065°N	80°26'19.508°W	3244.61	189.960	7.67
11917.00	90.220	131.521	7601.12	3330.11	3338.51	117.05	173497.23	400367.04	39°55'49.943°N	80°26'19.453°W	3340.61	157.992	4.14
12011.00	90.460	131.948	7601.49	3426.87	3432.47	-118.51	173497.58	400367.04	39°55'50.872°N	80°26'19.499°W	3434.51	198.026	4.88
12105.00	89.490	129.380	7600.79	3524.56	3525.75	-129.50	173494.78	400367.04	39°55'51.792°N	80°26'19.514°W	3528.11	157.897	8.04
12200.00	90.460	130.020	7600.04	3587.65	3619.20	-146.48	173494.79	400367.04	39°55'52.714°N	80°26'19.844°W	3622.16	357.682	0.68

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Wellpath Report

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Actual Wellpath Report

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REFERENCE WELLPATH IDENTIFICATION

Operator	TRANS ENERGY Inc	Slot	Slot #1
Area	Marion County, WV	Well	Wright IH
Field	Marion	Wellbore	Wright IH AWB
Facility	Wright Pad		

WELLPATH DATA (167 stations)

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert. Sec. [ft]	North [ft]	East [ft]	Grid East [US Ft]	Grid North [US Ft]	Latitude	Longitude	Closest Dist [ft]	Closest Dir [°]	DLS [ft (000)]
12764.00	89.416	349.990	7928.58	3183.65	371.90	-167.07	1735432.29	411381.59	39°33'53.629"N	80°26'20.655"W	373.44	347.86	0.93
12768.00	89.494	349.460	7928.93	3177.64	3804.67	-177.26	1735437.97	411474.35	39°33'54.647"N	80°26'20.261"W	3808.76	347.55	0.93
12772.00	89.574	348.949	7929.25	3171.63	3895.77	-187.51	1735443.77	411567.15	39°33'55.675"N	80°26'20.494"W	3902.92	347.14	0.93
12776.00	89.652	348.439	7929.54	3165.63	3986.80	-197.68	1735449.59	411659.97	39°33'56.725"N	80°26'20.710"W	3995.06	346.64	0.93
12780.00	89.730	347.929	7929.81	3159.63	4077.80	-207.81	1735455.43	411752.81	39°33'57.784"N	80°26'20.926"W	4089.02	346.16	0.93
12784.00	89.808	347.420	7930.07	3153.63	4168.80	-217.91	1735461.29	411845.67	39°33'58.851"N	80°26'21.142"W	4183.97	345.67	0.94
12788.00	89.886	346.910	7930.31	3147.63	4259.80	-228.00	1735467.17	411938.54	39°33'59.926"N	80°26'21.358"W	4278.97	345.18	0.94
12792.00	89.964	346.400	7930.54	3141.63	4350.80	-238.10	1735473.07	412031.42	39°34'01.009"N	80°26'21.574"W	4373.97	344.69	0.94
12796.00	90.042	345.890	7930.76	3135.63	4441.80	-248.20	1735478.99	412124.31	39°34'02.100"N	80°26'21.790"W	4468.97	344.20	0.94
12800.00	90.120	345.380	7930.97	3129.63	4532.80	-258.30	1735484.93	412217.21	39°34'03.199"N	80°26'22.006"W	4563.97	343.71	0.94
12804.00	90.198	344.870	7931.17	3123.63	4623.80	-268.40	1735490.89	412310.12	39°34'04.306"N	80°26'22.222"W	4658.97	343.22	0.94
12808.00	90.276	344.360	7931.36	3117.63	4714.80	-278.50	1735496.87	412403.04	39°34'05.421"N	80°26'22.438"W	4753.97	342.73	0.94
12812.00	90.354	343.850	7931.54	3111.63	4805.80	-288.60	1735502.87	412495.97	39°34'06.544"N	80°26'22.654"W	4848.97	342.24	0.94
12816.00	90.432	343.340	7931.71	3105.63	4896.80	-298.70	1735508.89	412588.91	39°34'07.674"N	80°26'22.870"W	4943.97	341.75	0.94
12820.00	90.510	342.830	7931.88	3099.63	4987.80	-308.80	1735514.93	412681.86	39°34'08.811"N	80°26'23.086"W	5038.97	341.26	0.94
12824.00	90.588	342.320	7932.04	3093.63	5078.80	-318.90	1735520.99	412774.82	39°34'09.954"N	80°26'23.302"W	5133.97	340.77	0.94
12828.00	90.666	341.810	7932.19	3087.63	5169.80	-329.00	1735527.07	412867.79	39°34'11.104"N	80°26'23.518"W	5228.97	340.28	0.94
12832.00	90.744	341.300	7932.33	3081.63	5260.80	-339.10	1735533.17	412960.77	39°34'12.262"N	80°26'23.734"W	5323.97	339.79	0.94
12836.00	90.822	340.790	7932.47	3075.63	5351.80	-349.20	1735539.29	413053.76	39°34'13.427"N	80°26'23.950"W	5418.97	339.30	0.94
12840.00	90.900	340.280	7932.60	3069.63	5442.80	-359.30	1735545.43	413146.76	39°34'14.598"N	80°26'24.166"W	5513.97	338.81	0.94
12844.00	90.978	339.770	7932.73	3063.63	5533.80	-369.40	1735551.59	413239.77	39°34'15.775"N	80°26'24.382"W	5608.97	338.32	0.94
12848.00	91.056	339.260	7932.86	3057.63	5624.80	-379.50	1735557.77	413332.79	39°34'16.958"N	80°26'24.598"W	5703.97	337.83	0.94
12852.00	91.134	338.750	7932.98	3051.63	5715.80	-389.60	1735563.97	413425.82	39°34'18.147"N	80°26'24.814"W	5798.97	337.34	0.94
12856.00	91.212	338.240	7933.10	3045.63	5806.80	-399.70	1735570.19	413518.86	39°34'19.341"N	80°26'25.030"W	5893.97	336.85	0.94
12860.00	91.290	337.730	7933.21	3039.63	5897.80	-409.80	1735576.43	413611.91	39°34'20.541"N	80°26'25.246"W	5988.97	336.36	0.94
12864.00	91.368	337.220	7933.32	3033.63	5988.80	-419.90	1735582.69	413704.97	39°34'21.746"N	80°26'25.462"W	6083.97	335.87	0.94
12868.00	91.446	336.710	7933.43	3027.63	6079.80	-430.00	1735588.97	413798.04	39°34'22.956"N	80°26'25.678"W	6178.97	335.38	0.94
12872.00	91.524	336.200	7933.54	3021.63	6170.80	-440.10	1735595.27	413891.12	39°34'24.171"N	80°26'25.894"W	6273.97	334.89	0.94
12876.00	91.602	335.690	7933.65	3015.63	6261.80	-450.20	1735601.59	413984.21	39°34'25.391"N	80°26'26.110"W	6368.97	334.40	0.94
12880.00	91.680	335.180	7933.75	3009.63	6352.80	-460.30	1735607.93	414077.31	39°34'26.616"N	80°26'26.326"W	6463.97	333.91	0.94
12884.00	91.758	334.670	7933.86	3003.63	6443.80	-470.40	1735614.29	414170.42	39°34'27.847"N	80°26'26.542"W	6558.97	333.42	0.94
12888.00	91.836	334.160	7933.96	2997.63	6534.80	-480.50	1735620.67	414263.54	39°34'29.083"N	80°26'26.758"W	6653.97	332.93	0.94
12892.00	91.914	333.650	7934.06	2991.63	6625.80	-490.60	1735627.07	414356.67	39°34'30.324"N	80°26'26.974"W	6748.97	332.44	0.94
12896.00	91.992	333.140	7934.16	2985.63	6716.80	-500.70	1735633.49	414449.81	39°34'31.570"N	80°26'27.190"W	6843.97	331.95	0.94
12900.00	92.070	332.630	7934.26	2979.63	6807.80	-510.80	1735639.93	414542.96	39°34'32.821"N	80°26'27.406"W	6938.97	331.46	0.94
12904.00	92.148	332.120	7934.36	2973.63	6898.80	-520.90	1735646.39	414636.12	39°34'34.077"N	80°26'27.622"W	7033.97	330.97	0.94
12908.00	92.226	331.610	7934.46	2967.63	6989.80	-531.00	1735652.87	414729.29	39°34'35.338"N	80°26'27.838"W	7128.97	330.48	0.94
12912.00	92.304	331.100	7934.56	2961.63	7080.80	-541.10	1735659.37	414822.47	39°34'36.604"N	80°26'28.054"W	7223.97	329.99	0.94
12916.00	92.382	330.590	7934.66	2955.63	7171.80	-551.20	1735665.89	414915.66	39°34'37.875"N	80°26'28.270"W	7318.97	329.50	0.94
12920.00	92.460	330.080	7934.76	2949.63	7262.80	-561.30	1735672.43	415008.86	39°34'39.151"N	80°26'28.486"W	7413.97	329.01	0.94
12924.00	92.538	329.570	7934.86	2943.63	7353.80	-571.40	1735678.99	415102.07	39°34'40.432"N	80°26'28.702"W	7508.97	328.52	0.94
12928.00	92.616	329.060	7934.96	2937.63	7444.80	-581.50	1735685.57	415195.29	39°34'41.718"N	80°26'28.918"W	7603.97	328.03	0.94
12932.00	92.694	328.550	7935.06	2931.63	7535.80	-591.60	1735692.17	415288.52	39°34'43.009"N	80°26'29.134"W	7698.97	327.54	0.94
12936.00	92.772	328.040	7935.16	2925.63	7626.80	-601.70	1735698.79	415381.76	39°34'44.305"N	80°26'29.350"W	7793.97	327.05	0.94
12940.00	92.850	327.530	7935.26	2919.63	7717.80	-611.80	1735705.43	415475.01	39°34'45.606"N	80°26'29.566"W	7888.97	326.56	0.94
12944.00	92.928	327.020	7935.36	2913.63	7808.80	-621.90	1735712.09	415568.27	39°34'46.912"N	80°26'29.782"W	7983.97	326.07	0.94
12948.00	93.006	326.510	7935.46	2907.63	7899.80	-632.00	1735718.77	415661.54	39°34'48.223"N	80°26'29.998"W	8078.97	325.58	0.94
12952.00	93.084	326.000	7935.56	2901.63	7990.80	-642.10	1735725.47	415754.82	39°34'49.539"N	80°26'30.214"W	8173.97	325.09	0.94
12956.00	93.162	325.490	7935.66	2895.63	8081.80	-652.20	1735732.19	415848.11	39°34'50.860"N	80°26'30.430"W	8268.97	324.60	0.94
12960.00	93.240	324.980	7935.76	2889.63	8172.80	-662.30	1735738.93	415941.41	39°34'52.186"N	80°26'30.646"W	8363.97	324.11	0.94
12964.00	93.318	324.470	7935.86	2883.63	8263.80	-672.40	1735745.69	416034.72	39°34'53.517"N	80°26'30.862"W	8458.97	323.62	0.94
12968.00	93.396	323.960	7935.96	2877.63	8354.80	-682.50	1735752.47	416128.04	39°34'54.853"N	80°26'31.078"W	8553.97	323.13	0.94
12972.00	93.474	323.450	7936.06	2871.63	8445.80	-692.60	1735759.27	416221.36	39°34'56.194"N	80°26'31.294"W	8648.97	322.64	0.94
12976.00	93.552	322.940	7936.16	2865.63	8536.80	-702.70	1735766.09	416314.69	39°34'57.541"N	80°26'31.510"W	8743.97	322.15	0.94
12980.00	93.630	322.430	7936.26	2859.63	8627.80	-712.80	1735772.93	416408.03	39°34'58.893"N	80°26'31.726"W	8838.97	321.66	0.94
12984.00	93.708	321.920	7936.36	2853.63	8718.80	-722.90	1735779.79	416501.38	39°34'59.250"N	80°26'31.942"W	8933.97	321.17	0.94
12988.00	93.786	321.410	7936.46	2847.63	8809.80	-733.00	1735786.67	416594.74	39°35'00.608"N	80°26'32.158"W	9028.97	320.68	0.94
12992.00	93												

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Wellpath Report

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Actual Wellpath Report
Wright 1H AWP Proj: 136777
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REFERENCE WELLPATH IDENTIFICATION

Operator	TRANS ENERGY Inc.	Slot	Slot 01
Area	Marion County, WV	Well	Wright 1H
Field	Marion	Wellbore	Wright 1H AWB
Facility	Wright Pad		

TARGETS

Name	MD [ft]	TSD [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Shape
Wright 1H A	1522.00	248.00	141.17	173771.39	49174.42	49174.42	39°35'41.650"N	80°26'16.020"W	point
Wright 1H A1	1522.00	248.00	141.17	173771.39	49174.42	49174.42	39°35'42.290"N	80°26'16.810"W	point
Wright 1H A2	1522.00	248.00	141.17	173771.39	49174.42	49174.42	39°35'43.130"N	80°26'16.870"W	point
Wright 1H A3	1522.00	248.00	141.17	173771.39	49174.42	49174.42	39°35'44.650"N	80°26'16.950"W	point
Wright 1H C	1522.00	4470.44	1679.02	173249.13	485140.68	485140.68	39°36'01.030"N	80°26'31.870"W	point
Wright 1H D	1522.00	4506.07	48.03	173552.16	485119.15	485119.15	39°36'11.310"N	80°26'19.100"W	point
Wright 1H LP EDC Rev 1	7967.00	0.00	48.00	1736674.24	397619.94	397619.94	39°35'17.110"N	80°26'11.110"W	point
Wright 1H PBHL Rev 1	7967.00	5171.70	444.23	173510.00	41274.36	41274.36	39°36'07.140"N	80°26'27.490"W	point

WELLPATH COMPOSITION - Ref Wellbore: Wright 1H AWB Ref Wellpath: Wright 1H AWP Proj: 136777

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name Comment	Wellbore
296.00	296.00	ISCS SA MWD Re... Standard	01_APS EM 12 2nd Section 204-206	Wright 1H AWB
296.00	694.00	NavTrak - Standard	02_BH MWD Sid N 7th Section 1070-1080	Wright 1H AWB
694.00	798.00	NavTrak - AT Curve Short Spaced	03_BH AT Curve R 7th 7th 7th	Wright 1H AWB
798.00	828.00	NavTrak - Standard	04_BH MWD x 7th 7th 7th	Wright 1H AWB
828.00	1347.00	NavTrak - AT Curve Short Spaced	05_BH AT Curve R 7th 7th 7th	Wright 1H AWB
1347.00	1347.00	Band Drilling - Ind	Projection 100	Wright 1H AWB

file://C:\Users\shareluk\WellArchitect\Wright_1H_AWB.xml

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Actual Wellpath Report

Wright 1H AWP Proj: 13677

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REFERENCE WELLPATH IDENTIFICATION

Operator	TRANS ENERGY Inc.	Site	Site #1
Area	Marion County, WA	Well	Wright 1H
Field	Marion	Wellbore	Wright 1H AWB
Facility	Wright Pad		

COMMENTS

Wellpath general comments
 API 47-049-02281-0000
 BHT Job # 6721121
 Reg. H&P 285
 Duration 11/01/2014-11/01/2014
 APS EM 12-1/4" (200' - 2900')
 BHT MKD 8-1/4" (7070' - 6940')
 BHT AT Curve <B-3.4> (7008' - 7948')
 BHT ATWD 8-1/4" (7948' - 8238')
 BHT AT Curve <B-3.4> (8270' - 13011')
 Projected MD # TD 13677

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file://C:\Users\hareluk\WellArchitect\Wright_1H_AWB.xml

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WR-35
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State of West Virginia
Department of Environmental Protection - Office of Oil and Gas
Well Operator's Report of Well Work

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API 47-049-02281 County Marion District Mannington
Quad Glover Gap Pad Name Wright Field/Pool Name _____
Farm name Jackie & Sheila Radcliffe Well Number Wright 1H
Operator (as registered with the OOG) EQT Production
Address 625 Liberty Avenue City Pittsburgh State PA Zip 15222

As Drilled location NAD 83/UTM Attach an as-drilled plat, profile view, and deviation survey
Top hole Northing 4,382,195.962 Easting 548,259.421
Landing Point of Curve Northing 4,382,162.099 Easting 548,407.004
Bottom Hole Northing 4,383,739.473 Easting 548,110.933

Elevation (ft) 1,490 GL Type of Well New Existing Type of Report Interim Final
Permit Type Deviated Horizontal Horizontal 6A Vertical Depth Type Deep Shallow
Type of Operation Convert Deepen Drill Plug Back Redrilling Rework Stimulate
Well Type Brine Disposal CBM Gas Oil Secondary Recovery Solution Mining Storage Other
Type of Completion Single Multiple Fluids Produced Brine Gas NGL Oil Other _____
Drilled with Cable Rotary

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Drilling Media Surface hole Air Mud Fresh Water Intermediate hole Air Mud Fresh Water
Production hole Air Mud Fresh Water Brine
Mud Type(s) and Additive(s)
Synthetic Base Drilling Mud with Barite, Calcium Carbonate, Calcium Chloride, Hydrated Lime, Cedar Fiber, Bentonite, Soda Ash, Lignite
Aluminum Sterate, Citric Acide, Sodium Bicarbonate, Glycerine, Desco, Caustic Soda, Synvert Synthetic 11-L

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Date permit issued 05/07/2014 Date drilling commenced 10/3/2014 Date drilling ceased 11/4/2015
Date completion activities began Not Yet Completed Date completion activities ceased Not Yet Completed
Verbal plugging (Y/N) _____ Date permission granted _____ Granted by _____

Please note: Operator is required to submit a plugging application within 5 days of verbal permission to plug

Freshwater depth(s) ft 60, 150' Open mine(s) (Y/N) depths No
Salt water depth(s) ft 1,525' Void(s) encountered (Y/N) depths No
Coal depth(s) ft 1,200' Cavern(s) encountered (Y/N) depths No
Is coal being mined in area (Y/N) N

Reviewed

Reviewed by _____

SDW
8/22/19 Well not complete
12/30/2022

WR-35
Rev. 8/23/13

API 47-049 - 02281 Farm name Jackie & Sheila Radcliffe Well number Wright 1H

CASING STRINGS	Hole Size	Casing Size	Depth	New or Used	Grade wt/ft	Basket Depth(s)	Did cement circulate (Y/N) * Provide details below*
Conductor	26"	20"	120'	NEW	J-55 94#	N/A	Y
Surface	17-1/2"	13-3/8"	1,235'	NEW	J-55 54 5#	N/A	Y
Coal							
Intermediate 1	12-1/4"	9-5/8"	2,950'	NEW	J-55 36#	N/A	Y
Intermediate 2							
Intermediate 3							
Production	8-3/4"	5-1/2"	13,634'	NEW	P-110 20#	N/A	Y
Tubing							
Packer type and depth set							

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Comment Details _____

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CEMENT DATA	Class/Type of Cement	Number of Sacks	Slurry wt. (ppg)	Yield (ft ³ /sks)	Volume (ft ³)	Cement Top (MD)	WOC (hrs)
Conductor	Type 1	140	15.2	1.30	180.6	Surface	24+
Surface	Type 1	947	15.6	1.18	1,117.4	Surface	23.5
Coal							
Intermediate 1	Type 1	950	15.6	1.25	1,190.4	Surface	30.25
Intermediate 2							
Intermediate 3							
Production	Class H POZ/Class H	1,376/1,582	14.0/15.6	1.39/1.18	3,750.82	Surface	72+
Tubing							

Drillers TD (ft) 13,677 Loggers TD (ft) N/A
 Deepest formation penetrated Marcellus Plug back to (ft) N/A
 Plug back procedure _____

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Kick off depth (ft) 4,485

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Check all wireline logs run caliper density deviated directional induction
 neutron resistivity gamma ray temperature sonic

Well cored Yes No Conventional Sidewall Were cuttings collected Yes No

DESCRIBE THE CENTRALIZER PLACEMENT USED FOR EACH CASING STRING _____
13-3/8" Fresh Water - 1 Centralizer every 160'
9-5/8" Fresh Water - 1 Bowspring Centralizer every 100' / 2,950 T/900'
5-1/2" Fresh Water - 1 Solid Body Centralizer every 80' from 13,634 T/7,000'

WAS WELL COMPLETED AS SHOT HOLE Yes No DETAILS NOT YET COMPLETED

WAS WELL COMPLETED OPEN HOLE? Yes No DETAILS NOT YET COMPLETED

WERE TRACERS USED Yes No TYPE OF TRACER(S) USED NOT YET COMPLETED

WW-4A
Revised 6-07

1) Date: November 1, 2022
2) Operator's Well Number
Wright 1H (Radcliff 1H)
3) API Well No.: 47 - 049 - 02281

STATE OF WEST VIRGINIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS
NOTICE OF APPLICATION TO PLUG AND ABANDON A WELL

4) Surface Owner(s) to be served:	5) (a) Coal Operator
(a) Name <u>See Attached</u>	Name _____
Address _____	Address _____
(b) Name _____	(b) Coal Owner(s) with Declaration
Address _____	Name <u>See Attached</u>
(c) Name _____	Address _____
Address _____	Name _____
6) Inspector <u>Kenneth Greynolds</u>	(c) Coal Lessee with Declaration
Address <u>613 Broad Run Road</u>	Name _____
<u>Jane Lew, WV 26378</u>	Address _____
Telephone <u>304-206-6613</u>	_____

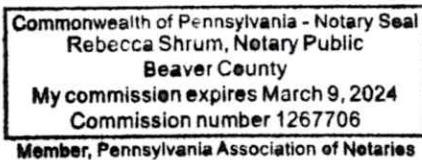
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TO THE PERSONS NAMED ABOVE: You should have received this Form and the following documents:

- (1) The application to Plug and Abandon a Well on Form WW-4B, which sets out the parties involved in the work and describes the well its and the plugging work order; and
- (2) The plat (surveyor's map) showing the well location on Form WW-6.

The reason you received these documents is that you have rights regarding the application which are summarized in the instructions on the reverses side. However, you are not required to take any action at all.

Take notice that under Chapter 22-6 of the West Virginia Code, the undersigned well operator proposes to file or has filed this Notice and Application and accompanying documents for a permit to plug and abandon a well with the Chief of the Office of Oil and Gas, West Virginia Department of Environmental Protection, with respect to the well at the location described on the attached Application and depicted on the attached Form WW-6. Copies of this Notice, the Application, and the plat have been mailed by registered or certified mail or delivered by hand to the person(s) named above (or by publication in certain circumstances) on or before the day of mailing or delivery to the Chief.



Well Operator EQT Production Company
 By: Erin Spine *[Signature]*
 Its: Manager - Subsurface Permitting
 Address 400 Woodcliff Drive
Canonsburg PA 15317
 Telephone (724) 271-7380

Subscribed and sworn before me this 1st day of November, 2022
[Signature] Notary Public
My Commission Expires March 9, 2024

Oil and Gas Privacy Notice

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

Wright 1H (Radcliff 1H) 47-049-02281 WW-4A Attachment**Surface Owner:**

Jackie D & Sheila L Radcliff
161 Cabin Creek Rd
Mannington, WV 26582

Jason G & Heather R Stout
637 Upper Murray Rd
Mannington, WV 26582

Access Owner:

Lula B Knight
638 Upper Murray Rd
Mannington, WV 26582

Jackie D & Sheila L Radcliff
161 Cabin Creek Rd
Mannington, WV 26582

Coal Owners:

Consol Mining Company
1000 Consol Energy Drive
Canonsburg, PA 15317

Charles Stewart
181 East Chestnut Street
Blairsville, PA 15717

Douglas A Gwinn
95 Sabraton Avenue
Fairmont, WV 26554

James R Batson
3 Red Sky Drive
Morgantown, WV 26508

Rebecca Shuttlesworth
468 Katy Road
Fairmont, WV 26554

Sandra F Hulse
PO Box 238
Worthington, WV 26591

Cathie L Ebert
506 Katy Road
Fairmont, WV 26554

Sharon D Wright
209 Jefferson Street
Mannington, WV 26582

Mike Ross, Inc.
PO Box 219
Coalton, WV 26257

William Williamson
21811 Aquasco Road
Aquasco, MD 20608

I. L. Morris
PO Box 397
Glenville, WV 26351

Heather R Stout
1587 Summers School Road
Morgantown, WV 26508

Cynthia Ann Garner
314 Woodridge Drive
Locust Grove, GA 30248

Jason G Stout
637 Upper Murray Road
Mannington, WV 26582

Amy Renee Russell
141 Lossie Lane
McDonough, GA 30253

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CONSOL MINING COMPANY
1000 CONSOL ENERGY DRIVE
CANONSBURG, PA 15317

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FAIRMONT, WV 26554

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638 UPPER MURRAY RD
MANNINGTON, WV 26582

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FAIRMONT, WV 26554

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74-08 - WRIGHT/RADCLIFF WW-4A NOTIFICATIONS

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MIKE ROSS, INC.
PO BOX 219
COALTON, WV 26257

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<input type="checkbox"/> Adult Signature Restricted Delivery	\$
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I. L. MORRIS
PO BOX 397
GLENVILLE, WV 26351

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

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CYNTHIA ANN GARNER
314 WOODRIDGE DRIVE
LOCUST GROVE, GA 30248

PS Form 3800, April 2012

74-08 - WRIGHT/RADCLIFF WW-4A NOTIFICATIONS

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<input type="checkbox"/> Adult Signature Required	\$
<input type="checkbox"/> Adult Signature Restricted Delivery	\$
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AMY RENEE RUSSELL
141 LOSSIE LANE
MCDONOUGH, GA 30253

PS Form 3800, April 2012

74-08 - WRIGHT/RADCLIFF WW-4A NOTIFICATIONS

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

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City, State, ZIP+4®

CHARLES STEWART
181 EAST CHESTNUT STREET
BLAIRSVILLE, PA 15717

PS Form 3800, April 2012

74-08 - WRIGHT/RADCLIFF WW-4A NOTIFICATIONS

12/30/2022

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

Postmark
Here

JAMES R BATSON
3 RED SKY DRIVE
MORGANTOWN, WV 26508

PS Form 3800, A 74-08 - WRIGHT/RADCLIFF WW-4A NOTIFICATIONS

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

Postmark
Here
4704902281P

WILLIAM WILLIAMSON
21811 AQUASCO ROAD
AQUASCO, MD 20608

PS Form 3800, A 74-08 - WRIGHT/RADCLIFF WW-4A NOTIFICATIONS

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

Postmark
Here

SANDRA F HULSEY
PO BOX 238
WORTHINGTON, WV 26591

PS Form 3800, A 74-08 - WRIGHT/RADCLIFF WW-4A NOTIFICATIONS

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

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HEATHER R STOUT
1587 SUMMERS SCHOOL ROAD
MORGANTOWN, WV 26508

PS Form 3800, A 74-08 - WRIGHT/RADCLIFF WW-4A NOTIFICATIONS

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

Postmark
Here

SHARON D WRIGHT
209 JEFFERSON STREET
MANNINGTON, WV 26582

PS Form 3800, A 74-08 - WRIGHT/RADCLIFF WW-4A NOTIFICATIONS

7021 2720 0000 9233 0712

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OFFICIAL USE

Certified Mail Fee	\$ 4.00
Extra Services & Fees (check box, add fee as appropriate)	
<input checked="" type="checkbox"/> Return Receipt (hardcopy)	\$ 3.25
<input type="checkbox"/> Return Receipt (electronic)	\$
<input type="checkbox"/> Certified Mail Restricted Delivery	\$
<input type="checkbox"/> Adult Signature Required	\$
<input type="checkbox"/> Adult Signature Restricted Delivery	\$
Postage	\$ 9.84
Total Postage and	\$ 17.09

Postmark
Here

JASON G STOUT
637 UPPER MURRAY ROAD
MANNINGTON, WV 26582

PS Form 3800, A 74-08 - WRIGHT/RADCLIFF WW-4A NOTIFICATIONS

12/30/2022

SURFACE OWNER WAIVER

4704902281P

Operator's Well
Number

Wright 1H (Radcliff 1H)

INSTRUCTIONS TO SURFACE OWNERS NAMED ON PAGE WW4-A

The well operator named on page WW-4A is applying for a permit from the State to plug and abandon a well. (Note: If the surface tract is owned by more than three persons, then these materials were served on you because your name appeared on the Sheriff's tax ticket on the land or because you actually occupy the surface tract. In either case, you may be the only owner who will actually receive these materials.) See Chapter 22 of the West Virginia Code. Well work permits are valid for 24 months. If you do not own any interest in the surface tract, please forward these materials to the true owner immediately if you know who it is. Also, please notify the well operator and the Office of Oil and Gas.

NOTE: YOU ARE NOT REQUIRED TO FILE ANY COMMENT.

WHERE TO FILE COMMENTS AND OBTAIN ADDITIONAL INFORMATION:

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

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Office of Oil and Gas
NOV 04 2022
WV Department of
Environmental Protection

Time Limits and methods for filing comments. The law requires these materials to be served on or before the date the operator files his Application. You have **FIVE (5) 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.

Comments must be in writing. Your comments must 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.

The Chief has the power to deny or condition a well work permit based on comments on the following grounds:

- 1) The proposed well work will constitute a hazard to the safety of persons.
- 2) The soil erosion and sediment control plan is not adequate or effective;
- 3) Damage would occur to publicly owned lands or resources;
- 4) The proposed well work fails to protect fresh water sources or supplies;
- 5) The applicant has committed a substantial violation of a previous permit or a substantial violation of one or more of the rules promulgated under Chapter 22, and has failed to abate or seek review of the violation...".

If you want a copy of the permit as it is issued or a copy of the order denying the permit, you should request a copy from the Chief.

VOLUNTARY STATEMENT OF NO OBJECTION

I hereby state that I have read the instructions to surface owners and that I have received copies of a Notice and Application For A Permit To Plug And Abandon on Forms WW-4A and WW-4B, and a survey plat.

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

FOR EXECUTION BY A NATURAL PERSON
ETC.

FOR EXECUTION BY A CORPORATION,

	Date	Name	
Signature		By	
		Its	Date
		Signature	Date

12/30/2022

API No.	47-049-02281 <i>P</i>
Farm Name	Wright
Well No.	Wright 1H (Radcliff 1H)

**INSTRUCTIONS TO COAL OPERATORS
OWNERS AND LESSEE**

The well operator named on the obverse side of WW-4 (B) is about to abandon the well described in the enclosed materials and will commence the work of plugging and abandoning said well on the date the inspector is notified. Which date shall not be less than five days after the day on which this notice and application so mailed is received, or in due course should be received by the Department of Environmental Protection Office of Oil & Gas.

This notice and application is given to you in order that your respective representatives may be present at the plugging and filling of said well. You are further notified that whether you are represented or not the operator will proceed to plug and fill said well in the manner required by Section 24, Article 6, Chapter 22 of the Code and given in detail on obverse side of this application.

NOTE: If you wish this well to be plugged according to 22-6-24(d) then as per Regulation 35CSR4-13.9 you must complete and return to this office on form OB-16 "Request by Coal Operator, Owner, or Lessee for plugging" prior to the issuance of this plugging permit.

WAIVER

The undersigned coal operator ____/ owner ____/ lessee ____/ of the coal under this well location has examined this proposed plugging work order. The undersigned has no objection to the work proposed to be done at this location, provided, the well operator has complied with all applicable requirements of the West Virginia Code and the governing regulations.

Date: _____

By: _____

Its _____

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 Office of Oil and Gas
 NOV 04 2022
 WV Department of
 Environmental Protection



November 1, 2022

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

Re: Class L Cement Variance Request
Wright 1H (Radcliff 1H) Well
Permit Number 47-049-02281
Mannington District, Marion County

RECEIVED
Office of Oil and Gas
NOV 04 2022
WV Department of
Environmental Protection

Dear Mr. Brewer,

EQT Production Company (EQT) has been notified by our cement providers that they will no longer be providing Class A cement. As a result of this, EQT is requesting the option to utilize Class L cement, if necessary, in place of Class A cement for its cement jobs.

The variance request from Legislative Rule 35CSR4 Section 11.5, related to the use of Class L Cement, was approved by the Office of Oil and Gas on September 13, 2022. A copy of the variance is included with this request.

If you have any questions, please do not hesitate to contact me at 724-746-9073.

Sincerely,

John Zavatchan
Project Specialist - Permitting

Enc.

12/30/2022



west virginia department of environmental protection

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

Harold D. Ward, 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)
LEGISLATIVE RULE 35CSR4)
SECTION 14.1. AND LEGISLATIVE RULE)
35CSR8 SECTION 20.1,)
RELATING TO THE CEMENTING)
OF OIL AND GAS WELLS)**

ORDER NO. 2022-13

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Environmental Protection

REPORT OF THE OFFICE

In response to industry requests, the West Virginia Department of Environmental Protection, Office of Oil and Gas has reviewed the proposed use of American Petroleum Institute (API) Class L cement to be used in place of API Class A cement for well plugging.

FINDINGS OF FACT

1. On July 28, 2022, Diversified Gas & Oil Co. (DGO) submitted a variance request from Legislative Rule 35CSR4 for the use of API Class L cement in place of API Class A cement, relating to the plugging of conventional wells.
2. Laboratory analysis submitted by DGO on July 28, 2022, indicates API Class L cement is comparable to API Class A cement and thereby satisfies the requirements of the West Virginia Code.
3. Contemporaneously, the Chief of the Office of Oil and Gas also chose to consider a variance to Legislative Rule 35CSR8 Section 20.1., for the use of API Class L cement in place of API Class A cement, relating to the plugging of horizontal wells.

4. On August 18, 2022, the Office of Oil and Gas provided public notice of acceptance of public comments on the variance consideration. During the 20-day public comment period, no comments were received.

CONCLUSIONS OF LAW

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

Pursuant to Legislative Rule 35CSR4, Section 18 and Legislative Rule 35CSR8, Section 14, the Chief of the Office of Oil and Gas may grant a variance from any requirement of these rules.

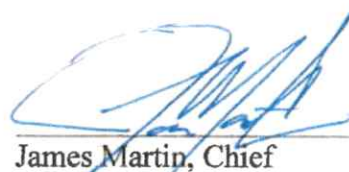
ORDER

It is ordered that the Class L cement product approved and monogrammed by API is approved for use in place of API Class A cement for well plugging subject to the provisions of Legislative Rule 35CSR4 and Legislative Rule 35CSR8.

Dated this, the 13th day of September, 2022.

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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Office of Oil and Gas

NOV 04 2022

WV Department of
Environmental Protection

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) Bartholomew Fork Quadrangle Glover Gap 7.5'

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

ALL WELL EFFLUENT MUST BE CONTAINED IN TANKS AND DISPOSED OFF SITE. JWH

If so, please describe anticipated pit waste: _____

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

Proposed Disposal Method For Treated Pit Wastes:

- Land Application (if selected provide a completed form WW-9-GPP)
- Underground Injection (UIC Permit Number _____)
- Reuse (at API Number _____)
- Off Site Disposal (Supply form WW-9 for disposal location)
- Other (Explain _____)

Will closed loop system be used? If so, describe: _____

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

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

Additives to be used in drilling medium? _____

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

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

-Landfill or offsite name/permit number? _____

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Office of Oil and Gas
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WV Department of
Environmental Protection

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 April 1, 2016, 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 *Erin Spine*

Company Official (Typed Name) Erin Spine

Company Official Title Manager - Subsurface Permitting

Subscribed and sworn before me this 1st day of November, 2022

Rebecca Shrum

Notary Public

My commission expires March 9, 2024

Commonwealth of Pennsylvania - Notary Seal
Rebecca Shrum, Notary Public
Beaver County
My commission expires March 9, 2024
Commission number 1230/2022
Member, Pennsylvania Association of Notaries

47049022810

**EQT Production Water plan
Offsite disposals**

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

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12/30/2022

Proposed Revegetation Treatment: Acres Disturbed 1± Prevegetation pH _____

Lime 3 Tons/acre or to correct to pH 6.5

Fertilizer type (10-20-20) or equivalent

Fertilizer amount 1/3 ton lbs/acre

Mulch 2 Tons/acre

Seed Mixtures

Temporary		Permanent	
Seed Type	lbs/acre	Seed Type	lbs/acre
Red Fescue	40	Red Fescue	15
Aslike Clover	5	Aslike 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, provide water volume, include dimensions (L, W, D) of the pit, and dimensions (L, W), and area in acres, of the land application area.

Photocopied section of involved 7.5' topographic sheet.

Plan Approved by: Kenneth Greynolds
Digitally signed by Kenneth Greynolds
 DN: cn = Kenneth Greynolds email = Kenneth.L.Greynolds@wv.gov c = AD C = WVDEP OU = Oil and Gas
 Date: 2022.11.02 10:19:15 -0400

Comments: _____

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 Office of Oil and Gas
 NOV 04 2022
 WV Department of
 Environmental Protection

Title: _____ Date: _____

Field Reviewed? () Yes () No

Topo Quad: Glover Gap 7.5'

Scale: 1" = 2000' 4704902281P

County: Marion

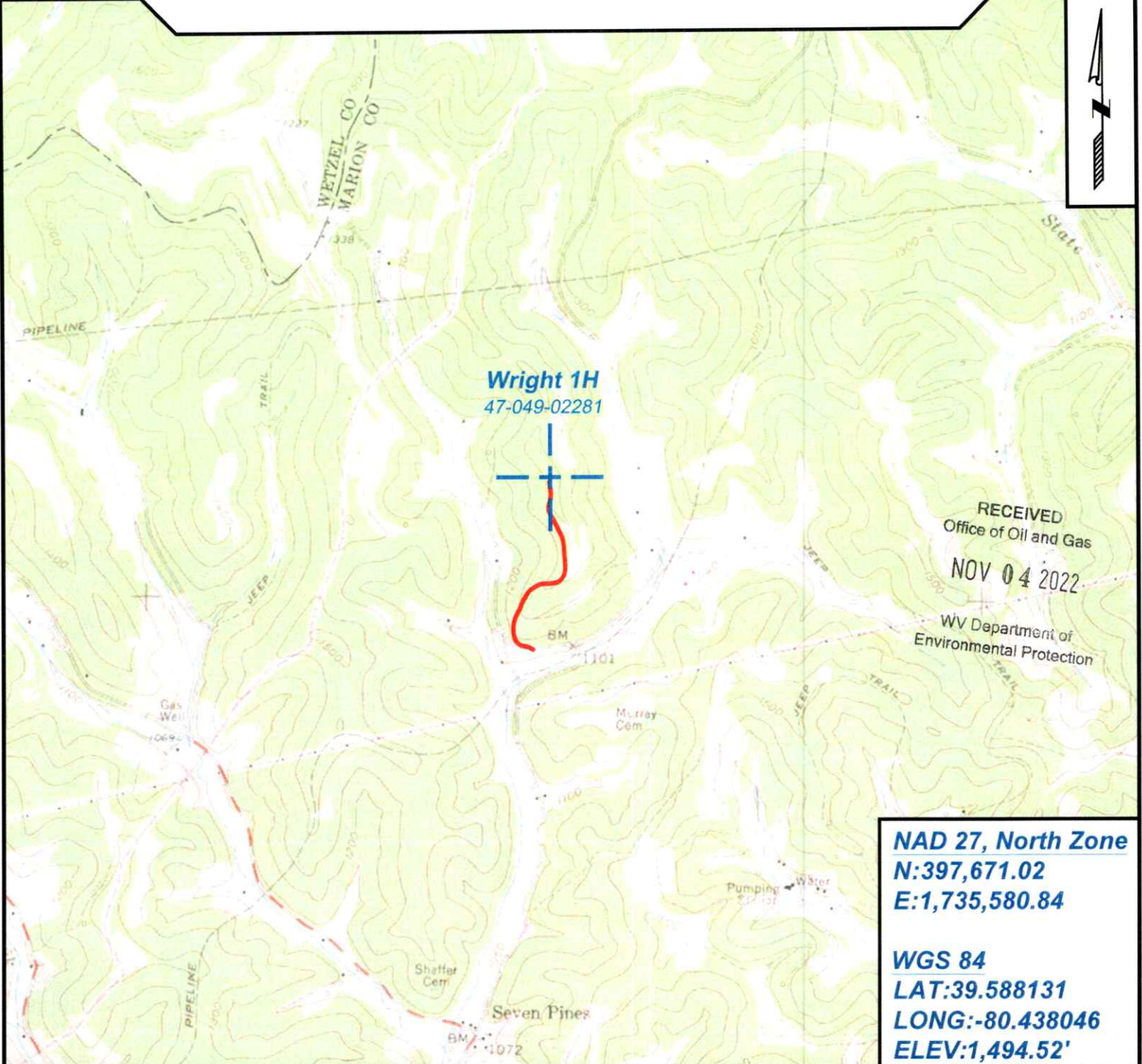
Date: February 7, 2022

District: Mannington

Project No: 74-18-00-08

Wright 1H - 47-049-02281

Topo



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Office of Oil and Gas
NOV 04 2022
WV Department of
Environmental Protection

NAD 27, North Zone
N:397,671.02
E:1,735,580.84

WGS 84
LAT:39.588131
LONG:-80.438046
ELEV:1,494.52'



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

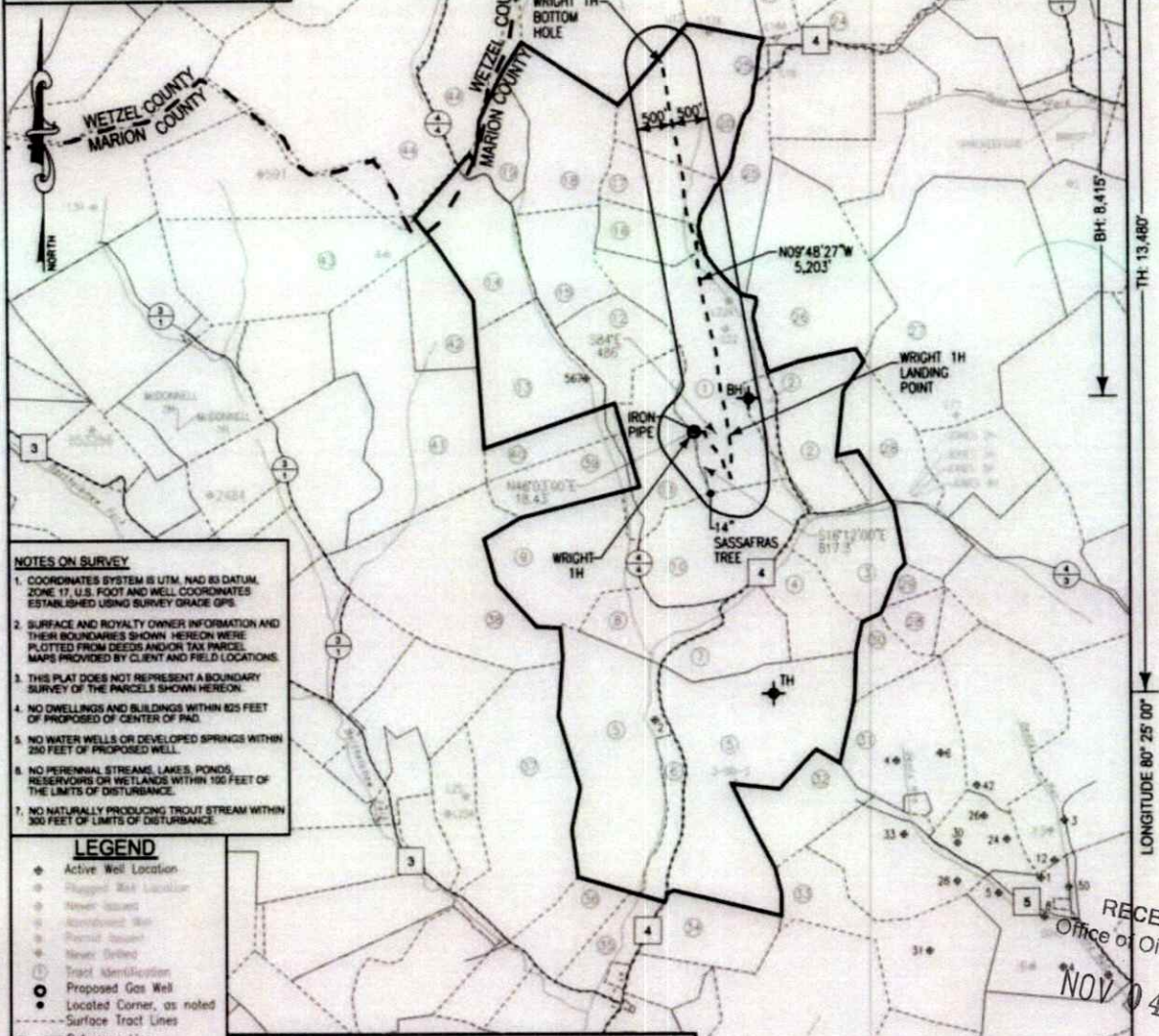
400 Woodcliff Drive
Canonsburg, PA 15317

12/30/2022

LATITUDE 39° 37' 00" TH: 6,065'

BH: 6,527' 470490228 1P

**Wright 1H
Wright
EQT Production Company**



NOTES ON SURVEY

- COORDINATE SYSTEM IS UTM, NAD 83 DATUM, ZONE 17, U.S. FOOT AND WELL COORDINATES ESTABLISHED USING SURVEY GRADE GPS.
- SURFACE AND ROYALTY OWNER INFORMATION AND THEIR BOUNDARIES SHOWN HEREON WERE PLOTTED FROM DEEDS AND/OR TAX PARCELS. MAPS PROVIDED BY CLIENT AND FIELD LOCATIONS.
- THIS PLAT DOES NOT REPRESENT A BOUNDARY SURVEY OF THE PARCELS SHOWN HEREON.
- NO DWELLINGS AND BUILDINGS WITHIN 825 FEET OF PROPOSED CENTER OF PAD.
- NO WATER WELLS OR DEVELOPED SPRINGS WITHIN 290 FEET OF PROPOSED WELL.
- NO PERENNIAL STREAMS, LAKES, PONDS, RESERVOIRS OR WETLANDS WITHIN 100 FEET OF THE LIMITS OF DISTURBANCE.
- NO NATURALLY PRODUCING TROUT STREAM WITHIN 300 FEET OF LIMITS OF DISTURBANCE.

LEGEND

- Active Well Location
- Proposed Well Location
- Neighboring Well
- Abandoned Well
- Permit Issued
- Neighboring Well
- Neighboring Well
- Tract Identification
- Proposed Gas Well
- Located Corner, as noted
- Surface Tract Lines
- Reference Line
- Lease Boundary
- Creek or Drain
- WV County Route
- WV State Route

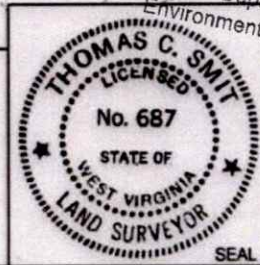
Tract ID.	Acres	Owner
1	1090	Billy C. Haight & Betty A. Haight

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



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

Thomas C. Smit
L. L. S. 687



FILE NO: _____
DRAWING NO: _____
SCALE: 1" = 2000'
MINIMUM DEGREE OF ACCURACY: 1:2500
PROVEN SOURCE OF ELEVATION: SG-GPS (OPUS)

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

DATE: AUGUST 29 20 17
OPERATORS WELL NO: WRIGHT 1H
API WELL NO
47 - 049 - 02281
STATE COUNTY PERMIT

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

LOCATION ELEVATION: 1527 WATERSHED: BARTHOLOMEW FORK QUADRANGLE: GLOVER GAP
DISTRICT: Mannington COUNTY: Marion

SURFACE OWNER: Dale G. OR Theresa D. Stout ACREAGE: 99.75 ±
ROYALTY OWNER: Billy C. Haight & Betty A. Haight LEASE NO: 871462 ACREAGE: 1090 ±

PROPOSED WORK: DRILL CONVERT DRILL DEEPER FRACTURE OR STIMULATE PLUG OFF OLD FORMATION
 PERFORATE NEW FORMATION OTHER PHYSICAL CHANGE IN WELL (SPECIFY) _____
 PLUG AND ABANDON CLEAN OUT AND REPLUG TARGET FORMATION: Marcellus ESTIMATED DEPTH: 7,200'

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

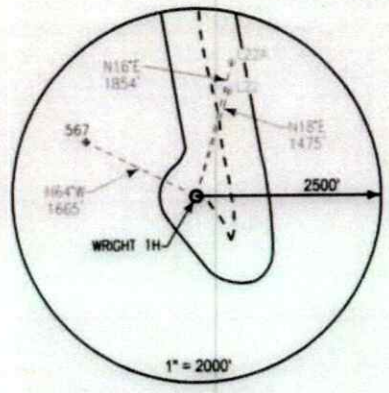
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12/30/2022

4704902281P

**Wright 1H
Wright
EQT Production Company**

Traffic ID	Tax Map No.	Parcel No.	County	District	Surface Tract Owner	Acres
1	40	3	Marion	Mannington	Dale G. OR Theresa D. Stout	99.75
2	26	18	Marion	Mannington	Jason G. & Michelle R. Stout	46.17
3	30	2	Marion	Mannington	Winfred H. & Julia B. Knight	43.89
4	40	2.1	Marion	Mannington	Dale G. & Theresa D. Stout & C/O Jason G. & Heather B. Stout	29.58
5	30	4	Marion	Mannington	Coastal Lumber, CO & C/O CFM	243.72
6	30	4.1	Marion	Mannington	Thomas R. & Joann McHenry	14.9
7	40	2.2	Marion	Mannington	James W. OR Joseph D. Boone	26.52
8	40	23	Marion	Mannington	Hilda L. Swenson	26.41
9	40	21	Marion	Mannington	Clarence W. Swenson	63
10	40	2	Marion	Mannington	Winfred H. & Julia B. Knight	56.23
11	40	10.1	Marion	Mannington	Jackie D. & Sheila L. Radloff	48.08
12	40	10	Marion	Mannington	Sheila L. Nelson & Sander A. Frazzka	44.03
13	40	14	Marion	Mannington	Sander A. Frazzka	51
14	40	12	Marion	Mannington	George Guido	48.18
15	40	9	Marion	Mannington	Karl A. Gould	35.32
16	40	4	Marion	Mannington	Henry E. Michael & Nicole Deam	21
17	40	5	Marion	Mannington	Henry E. Michael & Nicole Deam	25
18	40	7	Marion	Mannington	Kenneth D. & Cynthia J. Knight	31
19	40	8	Marion	Mannington	Mary Jane VW Vangilder	30.13
20	40	6	Marion	Mannington	Henry E. Michael & Nicole Deam	64
21	25	17	Marion	Mannington	Esler J. & Patricia C. Jones	192
22	25	35	Marion	Mannington	Jeffrey L. & Michelle B. Pettit	42
23	25	34	Marion	Mannington	Jeffrey L. & Michelle B. Pettit	34.75
24	25	39	Marion	Mannington	James R. Patton	50
25	26	14	Marion	Mannington	N/A	N/A
26	26	15	Marion	Mannington	John A. Barnes	93.9
27	26	12	Marion	Mannington	James R. Patton	152.25
28	26	17	Marion	Mannington	Robert L. & Faye H. Jones & DR 939-739	37
29	30	15	Marion	Mannington	Robert L. Jones	7.5
30	30	9	Marion	Mannington	Robert L. & Faye H. Jones	10.25
31	30	5	Marion	Mannington	Robert L. & Faye H. Jones	63.85
32	30	21.1	Marion	Mannington	David McFalls	37.26
33	30	21	Marion	Mannington	Dennis G. & Louise M. Hays	74.88
34	30	1	Marion	Mannington	Casey B. & Jennifer J. Altender	37.25
35	44	11	Marion	Mannington	Charles D. & Jane Shaver	57.75
36	44	14	Marion	Mannington	Charles D. & Jane Shaver	22.77
37	40	22	Marion	Mannington	James & Natalie Kerns	113.25
38	40	18	Marion	Mannington	Norred Cole & C/O David Schlegel	92.12
39	40	12	Marion	Mannington	Jackie D. & Sheila L. Radloff	27.85
40	40	13	Marion	Mannington	Sander A. Frazzka	59.75
41	40	17	Marion	Mannington	Harry W. Herberger II	109
42	40	16	Marion	Mannington	George Guido	29
43	41	9	Marion	Mannington	Mary J. Farns	85.75
44	19	21	Wetzel	Church	Ruth Loraine Koontz ET AL	208.8
45	N/A	N/A	N/A	N/A	N/A	N/A

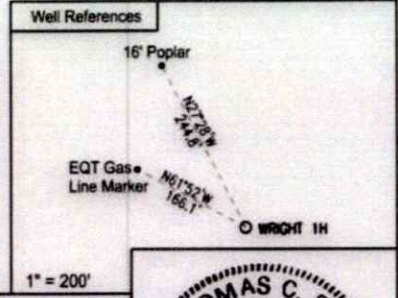
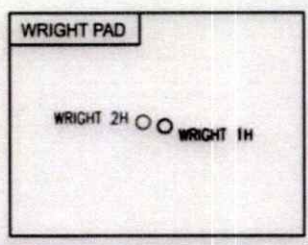


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Notes:
WRIGHT 1H As-Built coordinates are
 NAD 27 N: 397,669,910 E: 1,735,594,270
 NAD 27 Lat: 39.586045 Long: -80.438192
 NAD 83 UTM N: 4,382,195,962 E: 548,259,421
WRIGHT 1H As-Built Landing Point coordinates are
 NAD 27 N: 397,616,340 E: 1,736,077,790
 NAD 27 Lat: 39.587912 Long: -80.436474
 NAD 83 UTM N: 4,382,182,099 E: 548,407,004
WRIGHT 1H As-Built Bottom Hole coordinates are
 NAD 27 N: 402,742,890 E: 1,735,191,370
 NAD 27 Lat: 39.601950 Long: -80.439809
 NAD 83 UTM N: 4,383,739,473 E: 548,110,933
 West Virginia Coordinates system of 1927 (North Zone)
 based upon Differential GPS Measurements
 Plat orientation, Corner and well ties are based upon
 the grid north meridian
 Well location references are based upon the grid north
 meridian.
 UTM coordinates are NAD83, Zone 17, Meters.

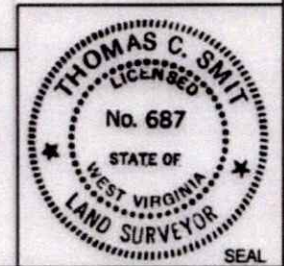
LEGEND

- Active Well Location
- Proposed Gas Well
- Located Corner, as noted
- Surface Tract Lines
- - - Reference Line
- ▬ Lease Boundary
- ~ Creek or Drain
- ⊙ WV County Route
- ⊠ WV State Route



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

Thomas C. Smits
 L. L. S. 687



FILE NO: _____
 DRAWING NO: _____
 SCALE: 1" = 1000'
 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: AUGUST 29 20 17
 OPERATORS WELL NO: WRIGHT 1H
 API WELL NO
 47 - 049 - 02281
 STATE COUNTY PERMIT

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

LOCATION ELEVATION: 1527' WATERSHED: BARTHOLOMEW FORK QUADRANGLE: GLOVER GAP
 DISTRICT: Mannington COUNTY: Marion

SURFACE OWNER: Dale G. OR Theresa D. Stout ACREAGE: 99.75 ±
 ROYALTY OWNER: Billy C. Haught & Betty A. Haught LEASE NO: 871462 ACREAGE: 1090 ±

PROPOSED WORK: DRILL CONVERT DRILL DEEPER FRACTURE OR STIMULATE PLUG OFF OLD FORMATION
 PERFORATE NEW FORMATION OTHER PHYSICAL CHANGE IN WELL (SPECIFY) _____
 PLUG AND ABANDON CLEAN OUT AND REPLUG TARGET FORMATION: Marcellus ESTIMATED DEPTH: 7,200'

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

12/30/2022



Site Pictures
Wright 1H
47-049-02281



Wright 1H Well Head



Wright Well Pad

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Environmental Protection

BIRCH RIVER OFFICE

237 Birch River Road
Birch River, WV 26610

phone: 304-649-8606 fax: 304-649-8608

BRIDGEPORT OFFICE

172 Thompson Drive
Bridgeport, WV 26330

phone: 304-848-5035 fax: 304-848-5037

CHARLESTON OFFICE

301 R.H. Boulevard - Suite 5
Charleston, WV 25309

phone: 304-756-2949 fax: 304-756-2948



Via Email

November 2, 2022

West Virginia Department of Environmental Protection
Office of Oil and Gas
Attn: Jeff McLaughlin
601 57th Street, SE
Charleston, WV 25304

**RE: Application for a Permit to Plug & Abandon
Wright 1H (Radcliff 1H) Well
API 47-049-02281
Mannington District, Marion County, WV**

WVDEP Recipient,

Attached is EQT Production Company's application for a permit to plug and abandon for the well referenced above. Please note that EQT permitted another well on this Wright Pad as "Radcliff" and these wells may also be referred to as Radcliff.

EQT Production trusts that if any portion of the submitted documentation is found to be inadequate for processing the permit, notification will be made to our land department at your earliest convenience. It is EQT Production's intent to cooperate fully to provide any additional requested documentation and clarification in a timely manner such that permitting proceeds in a predictable and logical manner.

Sincerely,

Becky Shrum
Project Specialist - Permitting
bshrum@eqt.com
412-660-0654

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NOV 04 2022
WV Department of
Environmental Protection

12/30/2022



Kennedy, James P <james.p.kennedy@wv.gov>

Plugging permit issued 4704902281

1 message

Kennedy, James P <james.p.kennedy@wv.gov>

Thu, Dec 29, 2022 at 9:45 AM


To: "Zavatchan, John" <JZavatchan@eqt.com>, "Shrum, Becky" <BShrum@eqt.com>, OPishioneri@eqt.com, mtrach@wvassessor.com, Samuel D Ward <samuel.d.ward@wv.gov>


To whom it may concern, a plugging permit has been issued for 4704902281.

James Kennedy

WVDEP OOG

2 attachments

 **4704902281.pdf**
6832K

 **ir-8 4704902281.pdf**
120K

12/30/2022