



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

Tuesday, December 20, 2022
WELL WORK PLUGGING PERMIT
Horizontal 6A Plugging

EQT PRODUCTION COMPANY
625 LIBERTY AVE., SUITE 1700
PITTSBURGH, PA 15222

Re: Permit approval for WRIGHT 2H
47-049-02282-00-00

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.

A blue ink signature of James A. Martin is written over a blue circular stamp. The signature is cursive and appears to read 'James A. Martin'.

James A. Martin
Chief

Operator's Well Number: WRIGHT 2H
Farm Name: RADCLIFF, JACKIE & SHEILA
U.S. WELL NUMBER: 47-049-02282-00-00
Horizontal 6A Plugging
Date Issued: 12/20/2022

Promoting a healthy environment.

12/23/2022

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4704902282P

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.

12/23/2022

47049022820

1) Date November 1, 2022
2) Operator's
Well No. Wright 2H (Radcliff 2H)
3) API Well No. 47-049 - 02282

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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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 12/23/2022

Digitally signed by Kenneth Greynolds
DN: cn = Kenneth Greynolds, email = Kenneth.L.Greynolds@wv.gov, o = AH: DEPARTMENT OF ENVIRONMENTAL PROTECTION
Date: 2022.11.02 15:17:14-0500

12/23/2022

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Radcliff 2H
Marion Co., WV
HZ Marcellus well
API # 47-049-02282
BY: Tyler Mizgorski
DATE: 10/31/2022

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 @ 1,240' Type 1 Cement to Surface
9 5/8" J55 - 36 ppf casing @ 2,947' Type 1 Cement to Surface
5 1/2" P110 - 20 ppf casing @ 12,200' 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 8,138' and set a CIBP above the Marcellus @ 8,088' 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. 8,078' to 7,578' 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 7,578' 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 = District
Gas
Date: 2022.11.02 10:15:06 -0400

12/23/2022

4704902282P

WW-4A
Revised 6-07

1) Date: November 1, 2022

2) Operator's Well Number
Wright 2H (Radcliff 2H)

3) API Well No.: 47 - 049 - 02282

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:
(a) Name See Attached
Address _____

(b) Name _____
Address _____
(c) Name _____
Address _____
6) Inspector Kenneth Greynolds
Address 613 Broad Run Road
Jane Lew, WV 26378
Telephone 304-206-6613

5) (a) Coal Operator
Name _____
Address _____
(b) Coal Owner(s) with Declaration
Name See Attached
Address _____
(c) Coal Lessee with Declaration
Name _____
Address _____

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WV Department of
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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.

Commonwealth of Pennsylvania - Notary Seal
Rebecca Shrum, Notary Public
Beaver County
My commission expires March 9, 2024
Commission number 1267706
Member, Pennsylvania Association of Notaries

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.

12/23/2022

Wright 2H (Radcliff 2H) 47-049-02282 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 Hulsey
PO Box 238
Worthington, WV 26591

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Cathie L Ebert
506 Katy Road
Fairmont, WV 26554

Sharon D Wright
209 Jefferson Street
Mannington, WV 26582

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

William Williamson
21811 Aquasco Road
Aquasco, MD 20608

I. L. Morris
PO Box 397
Glennville, 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



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 2H (Radcliff 2H) Well
Permit Number 47-049-02282
Mannington District, Marion County

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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,

A handwritten signature in blue ink, appearing to read 'John Zavatchan'.

John Zavatchan
Project Specialist - Permitting

Enc.

12/23/2022



west virginia department of environmental protection

Office of Oil and Gas
601 57th Street, SE
Charleston, WV 25304
Phone (304) 826-0450

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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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.

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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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 Street and Apt. No. **161 CABIN CREEK RD**
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 Street and Apt. No. **PO BOX 219**
 City, State, ZIP+4® **COALTON, WV 26257**

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 Street and Apt. No. **141 LOSSIE LANE**
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 Street and Apt. No. **PO BOX 397**
 City, State, ZIP+4® **GLENVILLE, WV 26351**

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 Street and Apt. No. **181 EAST CHESTNUT STREET**
 City, State, ZIP+4® **BLAIRSVILLE, PA 15717**

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JAMES R BATSON
Street and Apt. No.
3 RED SKY DRIVE
City, State, ZIP+4®
MORGANTOWN, WV 26508

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

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WILLIAM WILLIAMSON
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21811 AQUASCO ROAD
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AQUASCO, MD 20608

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SANDRA F HULSEY
Street and Apt. No.
PO BOX 238
City, State, ZIP+4®
WORTHINGTON, WV 26591

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HEATHER R STOUT
Street and Apt. No.
1587 SUMMERS SCHOOL ROAD
City, State, ZIP+4®
MORGANTOWN, WV 26508

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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	\$

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Sent To
SHARON D WRIGHT
Street and Apt. No.
209 JEFFERSON STREET
City, State, ZIP+4
MANNINGTON, WV 26582

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

7021 2720 0000 9233 0712

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Certified Mail Fee	\$ 4.00
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<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	\$ 3.84
Total Postage and	\$ 11.09

Postmark
Here

Sent To
JASON G STOUT
Street and Apt. No.
637 UPPER MURRAY ROAD
City, State, ZIP+4
MANNINGTON, WV 26582

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

12/23/2022

Operator's Well Number

Wright 2H (Radcliff 2H)

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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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 12/23/2022

API No.	<u>47-049-02282P</u>
Farm Name	<u>Wright</u>
Well No.	<u>Wright 2H (Radcliff 2H)</u>

**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.

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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 _____

WW-9
(5/16)

4704902282P

API Number 47 - 049 - 02282
Operator's Well No. Wright 2H (Radcliff 2H)

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 AUX WELL EFFLUENT WILL BE CONTAINED IN TANKS AND DISPOSED OFF-SITE PROPERLY.

If so, please describe anticipated pit waste: _____ JWH

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: _____

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

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

Additives to be used in drilling medium? _____

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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? _____

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 [Signature]

Company Official (Typed Name) Erin Spine

Company Official Title Manager - Subsurface Permitting

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

[Signature]

Notary Public

Commonwealth of Pennsylvania - Notary Seal
Rebecca Shrum, Notary Public
Beaver County
My commission expires March 9, 2024
Commission number 1267706

My commission expires March 9, 2024

Member, Pennsylvania Association of Notaries

12/23/2022

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.

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Office of Oil and Gas

Plan Approved by: Kenneth Greynolds
Digitally signed by Kenneth Greynolds
DN: cn = Kenneth Greynolds email = Kenneth.L.Greynolds@wv.gov c = AD D = WVDEP Oil & Gas
Date: 2022.11.02 10:17:04 -0400

NOV 04 2022

Comments: _____
WV Department of Environmental Protection

Title: _____ Date: _____

Field Reviewed? () Yes () No

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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Site Pictures
Wright 2H
47-049-02282



Wright 2H Well Head



Wright Well Pad

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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 RHL Boulevard - Suite 5
Charleston, WV 25309
phone: 304-756-2949 fax: 304-756-2948

Topo Quad: Glover Gap 7.5'

Scale: 1" = 2000' 47049022820

County: Marion

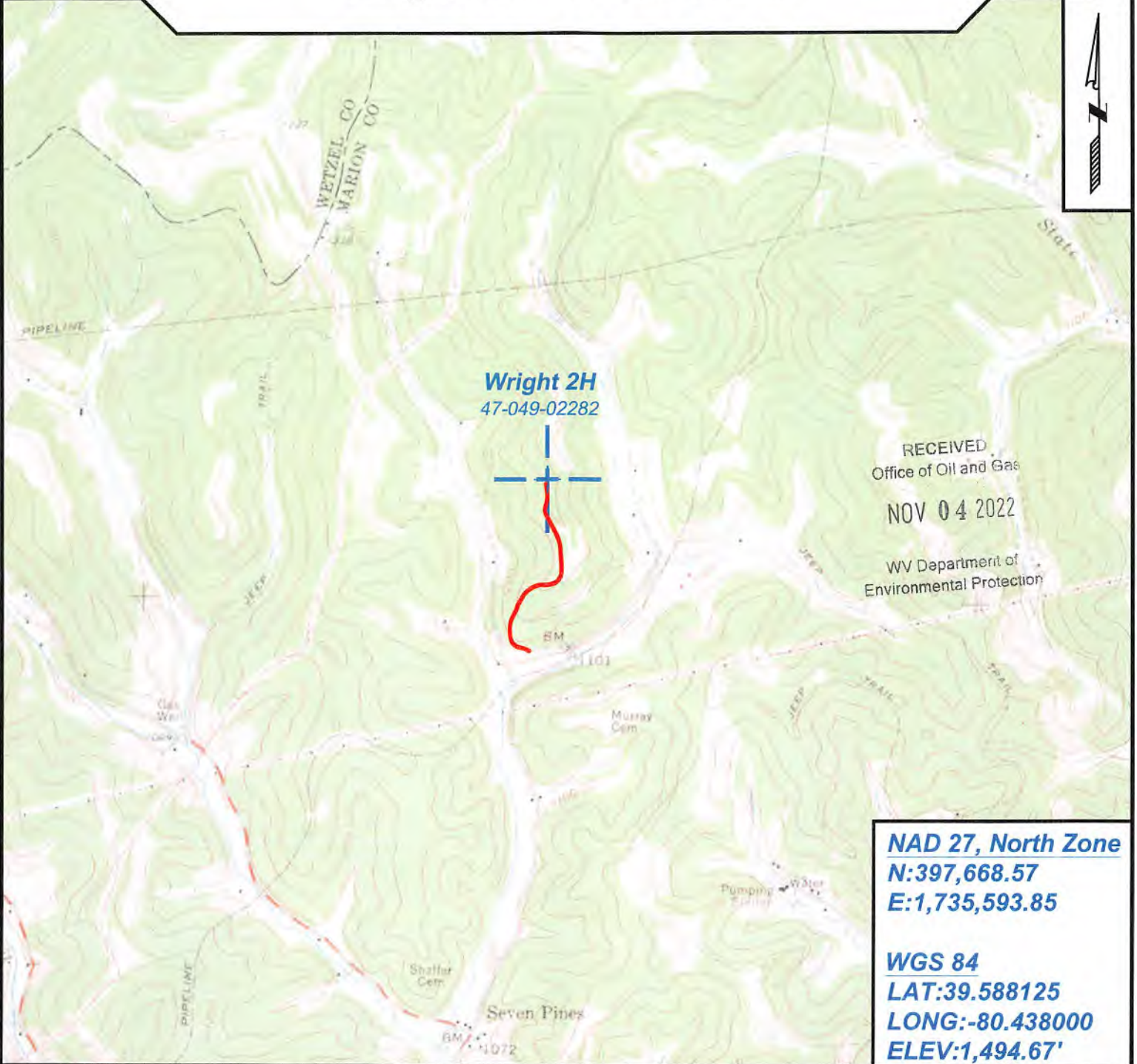
Date: February 7, 2022

District: Mannington

Project No: 74-18-00-08

Wright 2H - 47-049-02282

Topo



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NAD 27, North Zone
N:397,668.57
E:1,735,593.85

WGS 84
LAT:39.588125
LONG:-80.438000
ELEV:1,494.67'



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

12/23/2022



47049022829

August 29, 2017

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AUG 30 2017

WV Department of
Environmental Protection

Melanie Hankins
West Virginia Department of Environmental Protection
601 57th Street SE
Charleston, WV 25304

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WV Department of
Environmental Protection

Re: WR-35 & as drilled plat
47-049-02281, 47-049-02282

Dear Ms.Hankins,

Attached is an updated WR-35 and as drill plat for the above Stone Energy wells. Please use this information for the transfer of wells to EQT Production Company.

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

Sincerely,

Vicki Roark
Regional Land Supervisor

Enc.

Reviewed
SPU
8/22/14
Well not complete

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

API 47-049-02282 County Marion District Mannington
Quad Glover Gap Pad Name Wright Field/Pool Name _____
Farm name Jackie & Sheila Radcliffe Well Number Wright 2H

Operator (as registered with the OOG) EQT Production
Address 625 Liberty Avenue City Pittsburgh State PA Zip 15222 RECEIVED
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As Drilled location NAD 83/UTM Attach an as-drilled plat, profile view, and deviation survey
Top hole Northing 4,382,196.715 Easting 548,254.911
Landing Point of Curve Northing 4,382,181.758 Easting 548,205.245
Bottom Hole Northing 4,383,562.387 Easting 548,927.410
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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

Drilling Media Surface hole Air Mud Fresh Water Intermediate hole Air Mud Fresh Water Brine
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

Date permit issued 05/07/2017 Date drilling commenced 9/25/2014 Date drilling ceased 11/26/2014
Date completion activities began NOT YET COMPLETED Date completion activities ceased NOT YET COMPLETED RECEIVED
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Verbal plugging (Y/N) _____ Date permission granted _____ Granted by _____ AUG 30 2017

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

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Freshwater depth(s) ft 60,150' Open mine(s) (Y/N) depths N
Salt water depth(s) ft 1,525' Void(s) encountered (Y/N) depths N
Coal depth(s) ft 1,200' Cavern(s) encountered (Y/N) depths N
Is coal being mined in area (Y/N) N

Reviewed by: _____

WR-35
Rev. 8/23/13

API 47-049 - 02281 Farm name Jackie & Sheila Radcliffe Well number Wright 2H

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"	1,240'	NEW	J-55 54.5#	N/A	Y
Coal							
Intermediate 1	12-1/4"	9-5/8"	2,947'	NEW	J-55 36#	N/A	Y
Intermediate 2							
Intermediate 3							
Production	8-3/4"	5-1/2"	12,200'	NEW	P-110 20#	N/A	Y
Tubing							
Packer type and depth set							

Comment Details _____

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	1.3	180.6	Surface	24+
Surface	Type 1	894	15.6	1.20	1072.6	Surface	28
Coal							
Intermediate 1	Type 1	967	15.6	1.20	1,156.7	Surface	72+
Intermediate 2							
Intermediate 3							
Production	Class H POZ/Class H	1,375 / 1,416	14.0/15.6	1.38/1.18	3,568.8	Surface	72+
Tubing							

Drillers TD (ft) 12,982 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) 5,335

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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

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DESCRIBE THE CENTRALIZER PLACEMENT USED FOR EACH CASING STRING _____

13-3/8" Fresh Water - 1 Bowspring Centralizer every 150' @ 1,250' @ Surface
 9-5/8" Intermediate - 1 Bowspring Centralizer every 100' from 3,000' @ 900'
 5-1/2" Production - 1 Solid Body Centralizer every 80' from 12,200' @ 7000'

AUG 30 2017

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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

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TRANS ENERGY Inc.
Location: Marion County, WV Slot: Slot 02
Field: Marion Well: Wright 2H
Facility: Wright Pad Wellbore: Wright 2H-PWB

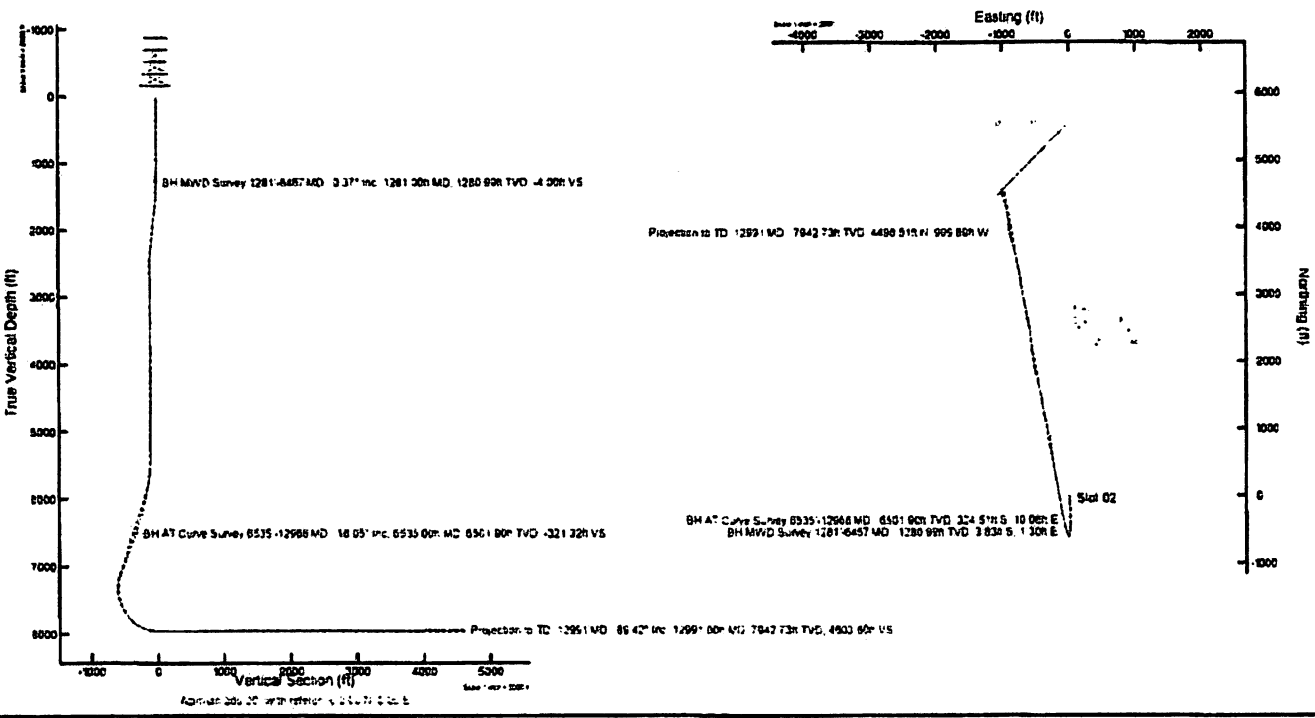


Well Information	
Well Name	Wright 2H-PWB
Well Type	Production
Well Status	Active
Well Depth	4900
Well Completion	Open Hole
Well Production	Oil
Well Production	Gas
Well Production	Water

Location Information	
Location	Marion County, WV
Field	Marion
Facility	Wright Pad
Well	Wright 2H
Wellbore	Wright 2H-PWB

Drilled Well Profile Data	
Depth (ft)	0
Depth (ft)	100
Depth (ft)	200
Depth (ft)	300
Depth (ft)	400
Depth (ft)	500
Depth (ft)	600
Depth (ft)	700
Depth (ft)	800
Depth (ft)	900
Depth (ft)	1000
Depth (ft)	1100
Depth (ft)	1200
Depth (ft)	1300
Depth (ft)	1400
Depth (ft)	1500
Depth (ft)	1600
Depth (ft)	1700
Depth (ft)	1800
Depth (ft)	1900
Depth (ft)	2000
Depth (ft)	2100
Depth (ft)	2200
Depth (ft)	2300
Depth (ft)	2400
Depth (ft)	2500
Depth (ft)	2600
Depth (ft)	2700
Depth (ft)	2800
Depth (ft)	2900
Depth (ft)	3000
Depth (ft)	3100
Depth (ft)	3200
Depth (ft)	3300
Depth (ft)	3400
Depth (ft)	3500
Depth (ft)	3600
Depth (ft)	3700
Depth (ft)	3800
Depth (ft)	3900
Depth (ft)	4000
Depth (ft)	4100
Depth (ft)	4200
Depth (ft)	4300
Depth (ft)	4400
Depth (ft)	4500
Depth (ft)	4600
Depth (ft)	4700
Depth (ft)	4800
Depth (ft)	4900

Well Data	
Well Name	Wright 2H-PWB
Well Type	Production
Well Status	Active
Well Depth	4900
Well Completion	Open Hole
Well Production	Oil
Well Production	Gas
Well Production	Water



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NOV 04 2022

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Actual Wellpath Report

Wright 2H AWP Proj: 12992'

Page 1 of 8



REFERENCE WELL PATH IDENTIFICATION

Operator	TRANS ENERGY Inc.	Slot	Slot 02
Area	Marion County, WV	Well	Wright 2H
Field	Marion	Wellbore	Wright 2H AWB
Facility	Wright Pad		

REPORT SETUP INFORMATION

Projection System	NAD27 / Lambert West Virginia SP, Northern Zone (4701), US feet	Software System	WellArchitect 4.0.1
North Reference	Grid	User	Stewdenk
Scale	0.999941	Report Generated	12/1/2014 at 1:50:53 PM
Convergence at slot	0.60° West	Database Source file	WA_Eastern/Wright_2H_AWB.xml

WELL PATH LOCATION

	Local coordinates		Grid coordinates		Geographic coordinates	
	North[ft]	East[ft]	Easting[US ft]	Northing[US ft]	Latitude	Longitude
Slot Location	2.72	-14.76	1735579.51	397672.63	39 35'16.987"N	80 26'17.679"W
Facility Reference Pt			1735594.27	397669.91	39 35'16.962"N	80 26'17.490"W
Field Reference Pt			1738625.59	396770.37	39 35'08.382"N	80 25'38.652"W

WELL PATH DATUMS

Calculation method	Minimum curvature	H&P 285 (KB) to Facility Vertical Datum	1522.00ft
Horizontal Reference Pt	Slot	H&P 285 (KB) to Mean Sea Level	1522.00ft
Vertical Reference Pt	H&P 285 (KB)	H&P 285 (KB) to Mud Line at Slot (Slot 02)	29.00ft
MD Reference Pt	H&P 285 (KB)	Section Origin	N 0.00, E 0.00 ft
Field Vertical Reference	Mean Sea Level	Section Azimuth	350.00°

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12/23/2022

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Actual Wellpath Report

Wright 2H AWP Proj: 12992'

Page 2 of 8



REFERENCE WELL PATH IDENTIFICATION

Operator	TRANS ENERGY Inc.	Slot	Slot 02
Area	Marion County, WV	Well	Wright 2H
Field	Marion	Wellbore	Wright 2H AWB
Facility	Wright Pad		

WELLPATH DATA (174 stations) * = interpolated/extrapolated station

MD (ft)	Inclination (°)	Azimuth (°)	TVD (ft)	Vert Sec (ft)	North (ft)	East (ft)	Grid East (ft)	Grid North (ft)	Latitude	Longitude	Closure Dist (ft)	Closure Dir (°)	DLS (ft/cft)	Build Rate (ft/100ft)	Turn Rate (°/100ft)
0.00	0.000	161.270	0.00	0.00	0.00	0.00	1735579.51	397672.67	39°35'16.987"N	80°26'17.679"W	0.00	0.000	0.00	0.00	0.00
25.00	0.000	161.270	29.00	0.00	0.00	0.00	1735579.51	397672.63	39°35'16.987"N	80°26'17.679"W	0.00	0.000	0.00	0.00	0.00
1281.00	0.370	161.270	1280.99	-4.00	-5.85	1.30	1735580.81	397668.80	39°35'16.946"N	80°26'17.661"W	4.04	161.270	0.07	0.03	0.00
1509.00	0.970	189.270	1508.99	-2.31	-4.15	1.29	1735580.80	397668.48	39°35'16.946"N	80°26'17.662"W	4.54	162.743	3.38	3.14	100.56
1543.00	2.070	195.990	1542.98	-5.14	-5.03	1.09	1735580.60	397667.60	39°35'16.958"N	80°26'17.664"W	5.15	162.733	3.23	3.24	13.59
1374.00	3.580	196.460	1373.94	-6.47	-6.43	0.70	1735580.21	397666.18	39°35'16.923"N	80°26'17.669"W	6.49	175.813	4.24	-4.23	7.07
1403.00	4.370	198.940	1402.87	-8.20	-8.31	0.10	1735579.61	397664.32	39°35'16.905"N	80°26'17.676"W	8.31	179.524	3.48	3.41	3.55
1457.00	4.620	197.690	1456.77	-10.53	-10.84	-0.74	1735578.77	397661.79	39°35'16.880"N	80°26'17.687"W	10.87	185.896	0.79	0.74	-3.68
1469.00	4.880	196.280	1468.08	-12.91	-12.58	-1.51	1735578.00	397659.25	39°35'16.855"N	80°26'17.690"W	12.46	186.447	0.89	0.81	-4.41
1498.00	4.680	197.380	1497.56	-15.07	-13.69	-2.21	1735572.30	397656.94	39°35'16.832"N	80°26'17.705"W	15.84	188.021	0.76	-0.69	3.79
1533.00	4.740	195.080	1532.44	-17.64	-18.45	-3.01	1735576.50	397654.18	39°35'16.804"N	80°26'17.715"W	18.69	189.277	0.57	0.17	-6.57
1564.00	5.310	196.160	1563.52	-20.09	-21.06	-3.75	1735575.76	397651.57	39°35'16.779"N	80°26'17.724"W	21.39	190.084	1.86	1.84	3.48
1592.00	5.700	194.400	1591.19	-22.52	-23.65	-4.45	1735575.06	397648.98	39°35'16.757"N	80°26'17.732"W	24.07	190.660	1.32	1.36	-6.29
1686.00	5.970	191.660	1684.71	-31.52	-32.96	-6.60	1735572.91	397639.67	39°35'16.661"N	80°26'17.738"W	33.62	191.324	0.41	0.29	-3.91
1781.00	6.540	191.360	1779.16	-40.79	-42.94	-8.63	1735570.88	397629.69	39°35'16.562"N	80°26'17.763"W	43.80	191.366	0.39	0.39	-0.32
1876.00	6.720	187.860	1873.54	-50.97	-53.58	-10.43	1735569.08	397619.04	39°35'16.456"N	80°26'17.805"W	54.60	191.009	0.58	0.40	-3.68
1970.00	6.230	184.940	1966.94	-61.13	-64.12	-11.62	1735567.89	397608.51	39°35'16.352"N	80°26'17.818"W	65.17	190.269	0.62	-0.52	-7.11
2064.00	6.070	176.980	2060.40	-70.99	-74.17	-11.78	1735567.73	397598.47	39°35'16.253"N	80°26'17.819"W	75.10	189.026	0.92	-0.17	-8.47
2159.00	6.790	185.610	2154.81	-81.44	-84.79	-11.88	1735567.03	397587.85	39°35'16.148"N	80°26'17.819"W	85.62	187.979	1.09	0.76	6.98
2253.00	6.600	171.860	2248.10	-92.24	-95.68	-11.47	1735568.04	397576.95	39°35'16.040"N	80°26'17.810"W	96.37	186.833	1.47	-0.20	-12.80
2347.00	5.240	161.250	2341.81	-100.26	-103.55	-9.83	1735569.66	397569.00	39°35'15.963"N	80°26'17.791"W	104.02	185.434	3.69	3.27	-11.29
2442.00	2.350	130.940	2436.70	-104.42	-107.36	-7.52	1735571.08	397563.26	39°35'15.925"N	80°26'17.780"W	107.63	184.011	1.73	-0.56	-31.91
2536.00	1.750	80.380	2530.65	-105.91	-108.37	-4.69	1735574.83	397564.27	39°35'15.916"N	80°26'17.724"W	108.47	182.476	1.93	-0.64	-55.79
2630.00	1.270	345.490	2624.63	-104.88	-107.12	-2.55	1735571.96	397563.51	39°35'15.928"N	80°26'17.710"W	107.18	181.896	2.27	-0.49	100.75
2725.00	1.820	334.750	2719.60	-102.63	-105.10	-4.94	1735574.57	397567.53	39°35'15.948"N	80°26'17.728"W	105.22	182.689	1.08	0.58	-35.26
2819.00	1.170	261.550	2813.57	-101.45	-104.25	-3.00	1735572.51	397566.38	39°35'15.956"N	80°26'17.754"W	104.49	183.841	1.49	-0.89	-52.60
2913.00	0.620	172.310	2907.56	-101.94	-101.90	-3.88	1735571.63	397567.74	39°35'15.950"N	80°26'17.765"W	103.20	184.296	1.40	-0.29	-34.72
3034.00	0.680	178.470	2928.56	-102.18	-105.14	-3.86	1735571.65	397567.50	39°35'15.947"N	80°26'17.765"W	103.41	184.226	0.43	0.20	20.53
3079.00	0.650	202.510	3064.55	-103.63	-104.66	-8.12	1735571.38	397563.98	39°35'15.932"N	80°26'17.768"W	106.77	184.361	0.20	-0.62	17.55
3165.00	0.370	198.290	3159.55	-104.33	-107.45	-8.43	1735571.08	397563.19	39°35'15.924"N	80°26'17.773"W	107.78	184.488	0.30	-0.29	-4.23

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Actual Wellpath Report

Wright 2H AWP Proj: 12992

Page 3 of 8



REFERENCES WELLPATH IDENTIFICATION

Operator	TRANS ENERGY Inc.	Slot	Slot 01
Area	Marion County, WV	Well	Wright 2H
Field	Marion	Wellbore	Wright 2H AWB
Facility	Wright Pad		

WELLPATH DATA (174 stations)

MDP [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Closure Dist [ft]	Closure Dir [°]	DLS [ft/100ft]	Build Rate ["/100ft]	Turn Rate ["/100ft]
3259.00	0.310	167.790	3253.54	-105.04	-108.14	-8.24	1735571.07	397564.49	39°35'15.913"N	80°26'17.772"W	108.47	184.463	0.29	0.13	-32.45
3354.00	0.220	106.060	3348.54	-103.54	-108.61	-8.18	1735571.33	397564.03	39°35'18.915"N	80°26'17.768"W	108.92	184.303	0.47	-0.31	-65.04
3448.00	0.420	178.060	3442.54	-103.96	-109.00	-7.99	1735571.52	397563.63	39°35'15.909"N	80°26'17.766"W	109.30	184.193	0.44	0.21	-76.66
3543.00	0.150	211.250	3536.54	-106.39	-109.45	-8.04	1735571.47	397563.18	39°35'15.903"N	80°26'17.767"W	109.75	184.205	0.35	-0.29	34.53
3637.00	0.410	244.560	3631.54	-106.58	-109.70	-8.41	1735571.10	397562.92	39°35'15.902"N	80°26'17.771"W	110.03	184.386	0.31	0.27	35.06
3731.00	0.450	285.850	3725.53	-106.52	-109.76	-9.08	1735570.43	397562.88	39°35'15.901"N	80°26'17.780"W	110.14	184.727	0.31	0.04	41.80
3825.00	0.560	291.750	3819.53	-106.15	-109.50	-9.86	1735569.65	397563.13	39°35'15.904"N	80°26'17.790"W	109.95	185.146	0.14	0.12	8.30
3920.00	0.540	266.900	3914.53	-105.81	-109.35	-10.74	1735568.77	397563.26	39°35'15.905"N	80°26'17.801"W	109.88	185.609	0.25	-0.02	-26.16
4014.00	0.510	115.970	4008.52	-106.07	-109.72	-11.43	1735568.08	397562.92	39°35'15.903"N	80°26'17.810"W	110.31	185.946	0.48	-0.05	-54.18
4108.00	0.250	253.440	4102.52	-106.38	-110.11	-11.87	1735567.64	397562.52	39°35'15.898"N	80°26'17.813"W	110.75	186.133	0.37	-0.28	39.66
4203.00	0.240	174.090	4197.52	-106.61	-110.38	-12.05	1735567.46	397562.26	39°35'15.895"N	80°26'17.818"W	111.04	186.231	0.35	0.00	-82.58
4297.00	0.250	150.760	4291.52	-107.01	-110.76	-11.93	1735567.58	397561.87	39°35'15.891"N	80°26'17.816"W	111.40	186.149	0.11	0.00	-25.78
4391.00	0.330	81.310	4385.52	-107.21	-110.90	-11.56	1735567.95	397561.74	39°35'15.890"N	80°26'17.811"W	111.50	185.953	0.36	0.09	-73.67
4486.00	0.390	79.830	4480.52	-107.21	-110.80	-10.98	1735568.55	397561.83	39°35'15.891"N	80°26'17.804"W	111.35	185.657	0.06	0.06	-1.77
4580.00	0.220	64.850	4574.52	-107.17	-110.87	-10.50	1735569.01	397561.97	39°35'15.892"N	80°26'17.798"W	111.17	185.419	0.20	-0.18	-15.94
4674.00	0.180	340.910	4668.52	-106.97	-110.45	-10.28	1735569.15	397562.18	39°35'15.894"N	80°26'17.796"W	110.94	185.370	0.29	-0.64	-89.50
4768.00	0.290	554.180	4762.51	-106.60	-110.10	-10.53	1735568.98	397562.54	39°35'15.898"N	80°26'17.798"W	110.60	185.465	0.12	0.12	-7.16
4863.00	0.440	286.320	4857.51	-106.28	-109.78	-10.99	1735568.52	397562.86	39°35'15.901"N	80°26'17.804"W	110.33	185.716	0.34	0.16	-50.15
4957.00	0.140	290.310	4951.51	-105.99	-109.64	-11.44	1735568.07	397563.00	39°35'15.902"N	80°26'17.810"W	110.23	185.928	0.22	-0.32	4.67
5052.00	0.100	282.850	5046.51	-103.89	-109.58	-11.63	1735567.88	397563.06	39°35'15.903"N	80°26'17.812"W	110.20	186.060	0.05	-0.04	-7.85
5146.00	0.070	298.230	5140.51	-103.83	-109.53	-11.76	1735567.75	397563.10	39°35'15.903"N	80°26'17.814"W	110.16	186.130	0.04	-0.03	65.36
5240.00	0.180	335.900	5234.51	-103.49	-109.22	-11.94	1735567.37	397563.41	39°35'15.906"N	80°26'17.816"W	109.87	186.219	0.25	0.13	49.07
5335.00	0.330	259.290	5329.51	-103.19	-108.99	-12.24	1735567.17	397563.65	39°35'15.909"N	80°26'17.822"W	109.68	186.459	0.47	-0.05	-83.64
5383.00	1.400	195.810	5377.50	-105.72	-109.58	-12.67	1735566.86	397563.06	39°35'15.903"N	80°26'17.825"W	110.30	186.577	2.68	2.27	-122.23
5429.00	2.650	171.720	5423.47	-107.29	-111.17	-12.63	1735566.88	397563.17	39°35'15.887"N	80°26'17.825"W	111.88	186.484	3.23	2.73	-52.57
5480.00	5.150	166.790	5474.41	-109.86	-113.70	-12.14	1735567.37	397563.94	39°35'15.862"N	80°26'17.818"W	114.55	186.096	1.09	0.98	-5.87
5523.00	4.260	161.330	5517.32	-112.62	-116.36	-11.36	1735568.15	397563.27	39°35'15.856"N	80°26'17.808"W	116.93	185.577	2.71	2.58	-12.70
5574.00	4.810	159.650	5568.17	-116.51	-120.08	-10.04	1735569.47	397563.96	39°35'15.799"N	80°26'17.761"W	120.40	184.781	0.72	0.69	-7.55
5618.00	4.520	158.760	5612.03	-119.95	-122.32	-8.80	1735570.71	397564.29	39°35'15.767"N	80°26'17.774"W	123.67	184.080	0.26	-0.20	-1.98
5712.00	5.200	152.520	5705.68	-127.72	-130.66	-5.45	1735570.86	397564.98	39°35'15.699"N	80°26'17.731"W	130.77	182.390	1.00	0.83	-6.84

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Wright 2H AWP Proj: 12992'

Page 4 of 8



REPORTING WELL PATH DEVELOPMENT

Operator	TRANS ENERGY Inc.	Slot	Slot 02
Area	Marion County, WV	Well	W right 2H
Field	Marion	Wellbore	W right 2H AWP
Facility	Wright Pad		

WELLPATH DATA (174 stations)

MD (ft)	Inclination (°)	Azimuth (°)	TVD (ft)	Vert. Sec (ft)	North (ft)	East (ft)	Grid East (US R)	Grid North (US R)	Latitude	Longitude	Closure Dist (ft)	Closure Dir (°)	DLS (1000)	Build Rate (100ft)	Turn Rate (100ft)
5761.06	7.240	151.530	5754.39	-172.81	-135.38	-2.94	1735576.57	397537.26	39 35 15.649°N	80 26 17.698°W	135.41	181.243	3.97	3.96	-2.92
5806.00	8.770	154.130	5798.95	-138.80	-140.96	-0.09	1735579.42	397531.68	39 35 15.592°N	80 26 17.661°W	140.96	180.056	3.49	3.40	5.78
5846.66	9.750	157.080	5848.29	-146.59	-148.29	3.22	1735582.73	397524.35	39 35 15.522°N	80 26 17.618°W	148.52	178.755	2.18	1.96	5.90
5901.06	9.600	157.980	5892.65	-183.98	-155.28	6.31	1735585.62	397517.76	39 35 15.457°N	80 26 17.580°W	153.40	177.745	0.47	-0.23	2.00
5946.00	10.430	163.730	5936.97	-161.70	-162.67	8.66	1735588.17	397509.97	39 35 15.380°N	80 26 17.546°W	162.90	176.932	2.89	1.84	12.78
5991.66	9.870	159.120	5983.20	-170.23	-170.83	11.40	1735590.91	397501.79	39 35 15.300°N	80 26 17.510°W	171.23	176.182	2.01	-1.13	-9.41
6029.00	12.150	163.790	6028.39	-178.55	-178.86	13.88	1735593.39	397493.78	39 35 15.221°N	80 26 17.477°W	179.40	175.562	5.43	3.18	15.16
6089.00	14.140	166.840	6077.08	-189.90	-189.91	16.57	1735596.07	397482.73	39 35 15.112°N	80 26 17.442°W	190.67	175.015	4.03	3.98	2.10
6135.66	16.380	172.530	6121.46	-201.99	-201.81	18.69	1735598.20	397476.83	39 35 14.995°N	80 26 17.415°W	202.68	174.709	5.87	4.87	15.77
6184.00	17.630	177.620	6168.22	-216.25	-216.08	19.89	1735599.40	397466.56	39 35 14.854°N	80 26 17.396°W	216.99	174.740	3.96	2.55	10.39
6234.00	18.930	183.650	6215.80	-231.64	-231.74	19.69	1735600.20	397460.90	39 35 14.699°N	80 26 17.396°W	232.58	175.145	4.59	2.60	12.16
6278.00	19.950	181.960	6257.29	-245.85	-246.34	18.72	1735600.25	397456.30	39 35 14.554°N	80 26 17.407°W	247.06	175.654	2.28	2.27	0.70
6327.00	19.860	187.710	6303.27	-261.89	-262.92	17.05	1735600.54	397409.72	39 35 14.390°N	80 26 17.426°W	263.48	176.295	2.61	-6.14	7.63
6372.00	16.970	187.220	6346.06	-275.44	-277.02	15.18	1735600.68	397395.62	39 35 14.251°N	80 26 17.448°W	277.43	176.864	6.43	-6.42	-1.09
6415.00	17.090	185.010	6387.17	-287.54	-289.56	13.84	1735601.34	397383.11	39 35 14.127°N	80 26 17.463°W	289.87	177.264	1.53	0.28	-5.14
6467.00	16.460	187.140	6426.96	-301.96	-301.46	12.25	1735601.76	397368.19	39 35 13.980°N	80 26 17.481°W	304.73	177.696	1.68	-1.21	4.10
6515.00	18.050	185.410	6501.90	-321.32	-324.51	10.06	1735600.87	397348.14	39 35 13.781°N	80 26 17.507°W	321.86	178.224	2.16	2.74	-2.54
6579.00	19.920	184.860	6543.52	-335.14	-338.76	8.78	1735600.39	397333.89	39 35 13.640°N	80 26 17.521°W	338.66	178.513	4.27	4.23	-1.25
6629.00	21.410	184.040	6586.20	-352.23	-356.35	7.42	1735600.93	397316.30	39 35 13.466°N	80 26 17.536°W	356.43	178.807	3.04	2.98	-1.64
6725.00	21.950	182.930	6677.64	-396.00	-391.02	3.31	1735600.82	397281.64	39 35 13.123°N	80 26 17.559°W	391.05	179.222	0.72	0.57	-1.18
6818.00	22.020	186.280	6765.73	-420.40	-426.45	2.46	1735601.97	397248.21	39 35 12.993°N	80 26 17.590°W	436.46	179.670	1.12	0.07	3.43
6912.00	21.960	188.760	6852.89	-455.96	-461.34	-2.13	1735600.38	397211.32	39 35 12.828°N	80 26 17.644°W	461.77	180.291	0.97	-0.06	2.57
7006.00	22.080	189.270	6940.04	-487.27	-496.18	-7.63	1735601.88	397176.82	39 35 12.683°N	80 26 17.710°W	496.20	180.881	0.25	0.11	0.61
7101.00	22.060	189.660	7028.09	-520.91	-531.57	-13.58	1735606.01	397141.93	39 35 11.753°N	80 26 17.780°W	531.50	181.453	-1.15	0.00	0.43
7167.00	21.970	185.860	7089.28	-544.46	-555.83	-16.84	1735602.67	397116.83	39 35 11.492°N	80 26 17.819°W	556.09	181.728	2.16	-0.14	-5.76
7195.00	22.000	187.890	7115.24	-554.59	-566.27	-17.73	1735601.78	397106.39	39 35 11.389°N	80 26 17.829°W	566.58	181.793	2.64	0.11	-7.04
7231.00	20.270	182.130	7148.83	-567.23	-579.23	-18.44	1735601.07	397093.43	39 35 11.261°N	80 26 17.837°W	579.53	181.824	5.05	-4.81	-4.03
7261.00	18.680	182.000	7177.27	-576.52	-588.73	-18.80	1735600.71	397083.94	39 35 11.167°N	80 26 17.840°W	589.03	181.826	12.07	-12.07	-1.10
7289.00	15.850	182.090	7204.35	-583.49	-593.85	-19.06	1735600.45	397076.82	39 35 11.097°N	80 26 17.812°W	596.15	181.832	13.77	-13.77	0.32
7326.00	8.900	183.100	7240.67	-590.30	-602.82	-19.36	1735600.15	397069.83	39 35 11.028°N	80 26 17.845°W	603.13	181.840	10.69	-10.68	2.73

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Actual Wellpath Report

Wright 2H AWP Proj: 12992'

Page 5 of 8



REPORTING AND SUBMITTER IDENTIFICATION

Operator: **TRANS ENERGY Inc.**
Area: **Marion County, WV**
Field: **Marion**
Facility: **Wright Pad**

Star: **Star**
Well: **Wright 2H**
Wellbore: **Wright 2H AWB**

WELLPATH DATA (174 stations)

MD (ft)	Inclination (°)	Azimuth (°)	TVD (ft)	Vert/Sec (ft)	North (ft)	East (ft)	Grid East (ft)	Grid North (ft)	Latitude	Longitude	Closest Dist (ft)	Closest Dr (ft)	DLS (ft/100ft)	Build Rate (ft/100ft)	Turn Rate (ft/100ft)
7355.00	5.440	183.800	7269.44	-595.82	-606.43	-19.57	1735339.94	397066.27	39.3510.992°N	80.2617.848°W	608.75	181.849	11.92	-11.92	2.43
7383.00	2.076	197.910	7297.38	-575.56	-608.24	-19.82	1735359.69	397064.43	39.3510.974°N	80.2617.850°W	608.76	181.806	12.19	-12.04	5.50
7416.00	1.660	209.280	7332.37	-595.70	-608.92	-20.40	1735359.11	397064.18	39.3510.971°N	80.2617.858°W	608.80	181.921	8.82	-3.17	7.18.11
7451.00	7.180	236.130	7365.26	-595.57	-606.33	-21.61	1735357.96	397066.34	39.3510.993°N	80.2617.874°W	600.71	182.041	17.42	16.75	81.76
7478.00	9.320	334.910	7391.98	-589.61	-602.80	-23.22	1735356.29	397069.86	39°35'11.017°N	80°26'17.895°W	603.25	182.206	7.99	7.96	-6.52
7512.00	15.126	350.710	7425.44	-583.86	-597.45	-23.99	1735353.42	397075.22	39.3511.080°N	80.2617.911°W	598.01	182.491	5.75	5.26	-12.35
7545.00	17.820	371.480	7455.70	-577.52	-591.59	-29.25	1735350.26	397081.08	39.3511.138°N	80.2617.923°W	592.31	182.828	8.73	8.71	2.48
7572.00	16.870	322.330	7483.69	-570.30	-584.88	-32.80	1735346.71	397087.79	39.3511.204°N	80.2618.019°W	585.80	183.210	9.71	9.48	2.93
7606.00	18.570	334.560	7516.10	-566.46	-573.70	-37.38	1735342.13	397096.97	39.3511.294°N	80.2618.079°W	576.91	183.715	8.21	5.88	8.56
7638.00	20.200	336.740	7546.29	-556.17	-566.02	-41.75	1735337.76	397106.65	39°35'11.389°N	80°26'18.136°W	567.56	184.218	5.27	3.09	8.81
7666.00	21.460	338.940	7572.46	-549.44	-556.90	-45.50	1735334.01	397115.87	39.3511.480°N	80.2618.185°W	558.65	184.672	5.40	4.50	7.86
7701.00	23.040	341.790	7604.88	-527.57	-544.51	-49.94	1735329.57	397126.55	39.3511.603°N	80.2618.244°W	546.69	185.242	5.47	4.51	8.14
7735.00	24.680	345.290	7634.11	-514.54	-531.97	-53.82	1735325.71	397140.70	39.3511.724°N	80.2618.295°W	534.68	185.777	5.46	5.13	4.69
7764.00	26.950	345.970	7659.32	-502.49	-520.28	-57.29	1735322.22	397152.38	39.3511.819°N	80.2618.341°W	523.45	186.284	8.05	8.04	1.00
7795.00	31.200	343.270	7689.07	-486.03	-504.46	-62.01	1735317.51	397168.20	39°35'11.995°N	80°26'18.403°W	508.25	187.008	12.57	12.56	-0.89
7827.00	35.400	345.530	7715.77	-468.58	-487.63	-67.03	1735312.46	397185.05	39.3512.161°N	80.2618.470°W	492.22	187.830	13.19	13.12	0.19
7855.00	38.410	345.930	7738.18	-451.87	-471.30	-71.79	1735307.75	397201.16	39.3512.320°N	80.2618.522°W	476.94	188.657	16.83	16.75	2.21
7890.00	41.130	344.540	7765.05	-429.50	-449.95	-77.86	1735301.69	397222.71	39.3512.532°N	80.2618.613°W	456.64	189.818	7.90	7.83	1.69
7921.00	43.790	345.690	7787.92	-408.74	-429.72	-87.23	1735296.28	397242.95	39.3512.732°N	80.2618.683°W	437.71	190.962	8.88	8.52	3.71
7949.00	46.440	346.770	7807.68	-388.95	-410.46	-87.95	1735291.56	397262.20	39°35'12.922°N	80°26'18.747°W	419.77	192.094	9.85	9.46	3.86
7985.00	49.170	346.660	7831.85	-362.32	-384.50	-94.08	1735285.45	397288.15	39.3513.178°N	80.2618.829°W	395.84	192.749	7.69	7.58	-0.31
8015.00	52.440	346.590	7850.81	-329.17	-361.89	-99.48	1735280.04	397310.76	39.3513.469°N	80.2618.901°W	375.31	193.370	10.91	10.90	-0.43
8044.00	55.490	346.420	7867.87	-315.77	-339.09	-104.07	1735274.55	397333.56	39.3513.625°N	80.2618.974°W	354.47	193.700	10.52	10.52	-0.28
8080.00	59.430	346.190	7887.53	-285.47	-309.67	-112.14	1735267.16	397363.04	39.3513.916°N	80.2619.070°W	329.30	194.912	10.96	10.94	-0.64
8112.00	61.190	346.490	7902.59	-257.42	-282.34	-118.78	1735260.74	397390.31	39°35'14.185°N	80°26'19.158°W	306.31	202.816	11.78	11.75	0.94
8138.00	66.760	347.190	7913.58	-213.91	-259.41	-124.16	1735255.56	397413.24	39.3514.411°N	80.2619.259°W	287.59	205.677	13.85	13.75	2.35
8175.00	70.560	345.110	7927.05	-199.48	-225.75	-131.54	1735247.07	397446.89	39.3514.742°N	80.2619.320°W	261.29	210.150	10.58	10.27	2.75
8206.00	73.250	348.270	7936.67	-170.05	-196.91	-137.88	1735241.99	397475.73	39.3515.027°N	80.2619.403°W	240.21	214.941	8.69	8.68	0.42
8235.00	76.470	349.190	7945.75	-143.98	-171.26	-142.67	1735236.85	397501.28	39.3515.279°N	80.2619.478°W	223.98	219.781	12.77	11.62	2.41
8269.00	80.320	350.080	7950.97	-108.72	-136.67	-149.01	1735230.51	397535.96	39.3515.621°N	80°26'19.580°W	202.20	227.473	10.97	10.69	2.47

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Wright 2H AWP Proj: 12992'

Page 6 of 8



REFERENCE WELLPATH IDENTIFICATION

Operator	TRANS ENERGY Inc.	Slot	Slot 02
Area	Marion County, WV	Well	Wright 2H
Field	Marion	Wellbore	Wright 2H AWB
Facility	Wright Pad		

WELLPATH DATA (174 stations)

MD (ft)	Inclination (°)	Azimuth (°)	TVD (ft)	Vert Sect (ft)	North (ft)	East (ft)	Grid East (US ft)	Grid North (US ft)	Latitude	Longitude	Closure Dist (ft)	Closure Dir (°)	DLS (100ft)	Build Rate (100ft)	Turn Rate (100ft)
8298.00	82.900	350.300	7955.20	-80.03	-108.41	-153.90	1735425.62	397564.25	39°35'14.900"N	80°26'19.650"W	188.25	274.840	8.95	8.90	0.76
8327.00	86.000	350.900	7958.60	-51.18	-79.93	-158.61	1735420.91	397592.70	39°35'16.181"N	80°26'19.694"W	177.62	243.254	10.89	10.69	2.07
8361.00	89.970	351.520	7959.20	-17.21	-46.36	-163.80	1735415.72	397626.27	39°35'16.512"N	80°26'19.764"W	170.24	264.197	11.82	11.68	1.82
8422.00	90.210	353.420	7959.10	43.73	14.11	-171.80	1735407.72	397686.74	39°35'17.109"N	80°26'19.875"W	172.38	274.696	3.14	0.41	3.11
8517.00	90.000	352.500	7958.91	138.60	108.39	-183.44	1735396.08	397781.02	39°35'18.039"N	80°26'20.036"W	213.07	300.578	1.00	-0.23	-0.97
8611.00	89.910	349.790	7958.99	232.57	201.26	-197.91	1735381.61	397873.88	39°35'18.956"N	80°26'20.233"W	282.27	315.481	2.88	-0.10	-2.88
8706.00	90.030	350.780	7959.04	327.57	294.90	-213.94	1735365.58	397967.51	39°35'19.879"N	80°26'20.450"W	364.33	324.040	1.05	0.13	1.04
8801.00	89.880	352.820	7959.11	422.42	388.92	-227.49	1735352.03	398061.55	39°35'20.807"N	80°26'20.636"W	450.57	329.676	2.15	-0.16	2.15
8895.00	89.910	353.360	7959.28	516.37	482.26	-238.64	1735340.89	398154.86	39°35'21.738"N	80°26'20.791"W	558.07	333.673	0.79	0.03	0.79
8990.00	90.090	352.990	7959.28	611.22	576.61	-249.76	1735329.76	398249.20	39°35'22.660"N	80°26'20.945"W	628.38	336.580	0.63	0.19	-0.60
9085.00	90.340	355.860	7958.93	706.05	670.98	-260.64	1735318.89	398345.57	39°35'23.591"N	80°26'21.097"W	719.82	338.772	0.95	0.26	0.92
9179.00	90.480	348.500	7958.24	799.99	763.83	-275.05	1735304.48	398436.42	39°35'24.507"N	80°26'21.293"W	811.84	340.197	5.70	0.16	-3.70
9273.00	90.620	347.530	7957.33	895.93	835.78	-294.56	1735284.96	398528.36	39°35'25.414"N	80°26'21.555"W	905.05	341.006	1.04	0.14	-1.03
9368.00	90.250	347.020	7956.61	988.82	918.44	-315.49	1735264.04	398621.01	39°35'26.328"N	80°26'21.875"W	999.54	341.601	0.66	-0.29	-0.54
9462.00	90.280	348.640	7956.18	1082.75	1040.52	-335.51	1735244.23	398712.89	39°35'27.234"N	80°26'22.100"W	1093.03	342.135	1.72	0.03	1.72
9556.00	90.280	344.540	7955.72	1176.36	1131.74	-357.10	1735222.43	398804.30	39°35'28.135"N	80°26'22.391"W	1186.74	342.488	4.36	0.00	-4.36
9651.00	90.250	345.260	7955.28	1271.18	1225.46	-381.85	1735197.69	398896.01	39°35'29.039"N	80°26'22.710"W	1281.66	342.667	0.76	-0.07	0.76
9745.00	90.310	350.380	7954.82	1365.08	1315.31	-401.67	1735177.86	398987.86	39°35'29.944"N	80°26'23.084"W	1375.28	343.018	5.45	0.06	5.45
9839.00	90.280	355.430	7954.34	1458.93	1408.56	-417.28	1735166.26	399081.10	39°35'30.865"N	80°26'23.445"W	1467.94	343.648	5.37	-0.03	5.37
9934.00	90.000	350.340	7954.10	1553.77	1502.80	-425.04	1735154.49	399175.34	39°35'31.795"N	80°26'23.308"W	1561.75	344.207	5.37	-0.29	-3.36
10028.00	89.970	343.940	7954.13	1647.61	1594.39	-445.95	1735133.58	399266.93	39°35'32.698"N	80°26'23.587"W	1655.59	344.374	6.81	-0.03	-6.81
10122.00	90.060	343.350	7954.13	1741.05	1684.59	-472.42	1735110.12	399355.12	39°35'33.587"N	80°26'23.938"W	1749.58	344.334	0.63	0.03	-0.63
10217.00	89.940	344.950	7954.20	1835.45	1775.97	-498.37	1735081.17	399448.50	39°35'34.487"N	80°26'24.281"W	1844.57	344.325	1.69	-0.06	1.68
10311.00	89.970	345.860	7954.28	1929.23	1866.94	-522.05	1735057.49	399539.46	39°35'35.384"N	80°26'24.596"W	1938.56	344.377	0.97	0.03	0.97
10405.00	90.000	353.300	7954.30	2023.16	1959.32	-539.04	1735040.30	399631.83	39°35'36.295"N	80°26'24.825"W	2032.12	344.615	7.91	0.03	7.91
10509.00	90.090	353.710	7954.30	2117.98	2053.71	-549.79	1735029.75	399726.22	39°35'37.226"N	80°26'24.975"W	2126.07	345.013	0.43	0.00	0.43
10594.00	90.030	352.440	7954.28	2211.82	2147.08	-560.72	1735018.83	399819.58	39°35'38.148"N	80°26'25.127"W	2219.09	345.364	0.82	0.03	-0.82
10688.00	89.970	355.640	7954.28	2305.53	2240.60	-570.07	1735009.48	399913.09	39°35'39.071"N	80°26'25.259"W	2311.98	345.725	2.87	-0.06	2.87
10783.00	90.030	355.560	7954.28	2400.10	2335.52	-577.36	1735002.19	400007.81	39°35'40.007"N	80°26'25.365"W	2405.63	346.113	0.11	0.06	-0.08
10877.00	90.150	353.470	7954.13	2493.66	2429.03	-584.71	1734994.84	400101.51	39°35'40.932"N	80°26'25.471"W	2498.42	346.465	0.16	0.13	-0.10

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Wright 2H AWP Proj: 12992'
Page 7 of 8



REFERENCE WELLPATH IDENTIFICATION

Operator	TRANS ENERGY Inc.	Slot	Slot 02
Area	Marion County, WV	Well	Wright 2H
Field	Marion	Wellbore	Wright 2H AWP
Facility	Wright Pad		

WELLPATH DATA (174 stations)

MD (ft)	Inclination (°)	Azimuth (°)	TVD (ft)	Vert Sec (ft)	North (ft)	East (ft)	Grid East (US ft)	Grid North (US ft)	Latitude	Longitude	Linear Dis (ft)	Closure Dis (ft)	DLS (°/100ft)	Built Rate (°/100ft)	Turn Rate (°/100ft)
10971.00	90.250	350.620	7953.88	2587.30	2532.51	-596.09	1754987.46	400194.79	39°35'41.853"N	80°26'25.626"W	2591.79	346.704	5.16	0.11	-4.18
11065.00	90.220	347.910	7953.41	2681.49	2614.66	-613.59	1754965.95	400281.13	39°35'42.763"N	80°26'25.865"W	2681.69	346.795	3.88	-0.03	-2.88
11160.00	90.650	349.490	7952.69	2776.45	2707.81	-632.21	1754947.54	400380.28	39°35'43.682"N	80°26'26.173"W	2780.67	346.838	1.72	0.45	1.66
11254.00	90.490	348.500	7951.76	2879.71	2799.78	-651.92	1754927.63	400472.16	39°35'44.588"N	80°26'26.779"W	2874.60	346.892	1.40	-0.17	-3.50
11349.00	90.550	347.370	7950.90	2965.22	2892.20	-675.55	1754906.00	400564.66	39°35'45.500"N	80°26'26.688"W	2969.60	346.890	1.13	0.06	1.13
11443.00	90.620	349.670	7949.91	3059.18	2981.31	-692.26	1754887.30	400656.76	39°35'46.408"N	80°26'26.419"W	3063.55	346.940	2.45	0.67	2.45
11537.00	90.090	350.820	7949.55	3153.18	3076.93	-708.18	1754871.57	400749.39	39°35'47.322"N	80°26'27.155"W	3157.59	347.039	1.55	-0.56	1.22
11632.00	90.370	351.890	7948.97	3238.12	3170.98	-721.64	1754857.91	400843.42	39°35'48.250"N	80°26'27.320"W	3252.06	347.179	2.50	0.29	2.88
11726.00	89.910	350.060	7948.74	3342.08	3263.94	-735.58	1754843.98	400936.57	39°35'49.167"N	80°26'27.510"W	3346.80	347.300	3.05	-0.49	-1.01
11820.00	89.880	348.960	7948.91	3436.08	3356.36	-752.69	1754826.87	401028.79	39°35'50.079"N	80°26'27.741"W	3439.73	347.360	1.17	-0.03	-1.17
11915.00	89.910	347.330	7949.09	3551.02	3449.33	-772.20	1754807.35	401121.75	39°35'50.996"N	80°26'28.003"W	3534.71	347.581	1.72	0.07	-1.72
12009.00	89.940	342.420	7949.21	3624.62	3540.05	-796.72	1754782.83	401212.46	39°35'51.890"N	80°26'28.728"W	3628.60	347.816	5.22	0.07	-5.22
12103.00	90.000	344.490	7949.26	3718.00	3630.15	-823.49	1754756.07	401302.56	39°35'52.778"N	80°26'28.682"W	3722.58	347.219	2.50	6.06	2.20
12198.00	90.510	347.310	7949.00	3812.75	3723.28	-846.63	1754732.93	401394.68	39°35'53.680"N	80°26'28.990"W	3817.55	347.186	2.99	0.53	3.97
12292.00	90.060	345.550	7948.70	3906.43	3815.24	-870.27	1754709.29	401485.64	39°35'54.382"N	80°26'29.304"W	3911.29	347.144	4.01	-0.27	-4.00
12386.00	90.680	351.530	7948.09	4000.27	3904.93	-890.54	1754689.03	401577.34	39°35'55.486"N	80°26'29.575"W	4005.21	347.153	8.51	0.66	8.49
12480.00	91.850	356.090	7946.02	4094.01	3998.35	-900.67	1754678.89	401670.74	39°35'56.408"N	80°26'29.717"W	4098.54	347.305	5.01	1.24	-4.85
12575.00	90.320	352.410	7944.05	4188.71	4092.84	-910.18	1754669.38	401765.22	39°35'57.341"N	80°26'29.851"W	4192.82	347.462	4.12	-1.48	-3.87
12669.00	90.520	351.080	7943.28	4283.66	4185.86	-923.68	1754653.89	401858.25	39°35'58.259"N	80°26'30.036"W	4286.56	347.556	1.41	0.00	-1.41
12763.00	90.770	345.420	7942.16	4376.57	4277.84	-942.81	1754636.75	401950.21	39°35'59.166"N	80°26'30.292"W	4380.51	347.571	6.03	0.27	-6.02
12858.00	89.780	342.860	7941.68	4471.15	4369.44	-967.98	1754611.59	402041.81	39°35'59.969"N	80°26'30.627"W	4475.38	347.509	1.82	-3.04	-1.64
12952.00	89.420	346.870	7942.34	4564.83	4460.38	-991.72	1754587.85	402132.74	39°36'00.965"N	80°26'30.942"W	4569.30	347.465	5.22	-0.38	1.70
12988.00	89.420	348.180	7942.58	4580.81	4476.00	-995.18	1754584.39	402148.26	39°36'01.119"N	80°26'30.589"W	4583.20	347.463	8.19	0.00	8.19
12992.00	89.420	348.180	7942.74	4604.80	4499.49	-1009.09	1754579.48	402171.89	39°36'01.351"N	80°26'31.054"W	4609.39	347.467	0.00	0.00	0.00

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Actual Wellpath Report

Wright 2H AWP Proj: 12992'

Page 8 of 8



REFERENCE WELL PATH IDENTIFICATION

Operator	TRANS ENERGY Inc.	Slot	Slot 02
Area	Marion County, WV	Well	Wright 2H
Field	Marion	Wellbore	Wright 2H AW B
Facility	Wright Pad		

TARGETS

Name	UID [ft]	TVD [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Shape
Wright HL A		1522.00	2493.94	155.89	1735735.39	400100.42	39°35'41.650"N	80°26'16.020"W	point
Wright HL A1		1522.00	2449.34	94.72	1735674.23	400251.82	39°35'42.290"N	80°26'16.810"W	point
Wright HL A2		1522.00	2644.38	90.91	1735670.42	400316.85	39°35'43.130"N	80°26'16.870"W	point
Wright HL A3		1522.00	2798.23	86.20	1735665.76	400470.69	39°35'44.650"N	80°26'16.950"W	point
Wright HL C		1522.00	4467.72	-1004.27	1734515.31	402140.08	39°36'01.030"N	80°26'31.570"W	point
Wright HL D		1522.00	5497.55	-53.86	1735525.60	403109.65	39°36'11.310"N	80°26'19.100"W	point
Wright 2H LP_EOC Rev-2		7967.00	-1.65	-167.78	1735411.74	397670.98	39°35'16.953"N	80°26'19.821"W	point
Wright 2H PBHL Rev-1		7967.00	4508.77	-963.09	1734616.48	402181.12	39°36'01.446"N	80°26'30.583"W	point

WELLPATH COMPOSITION - Ref Wellbore: Wright 2H AWB Ref Wellpath: Wright 2H AWP Proj: 12992'

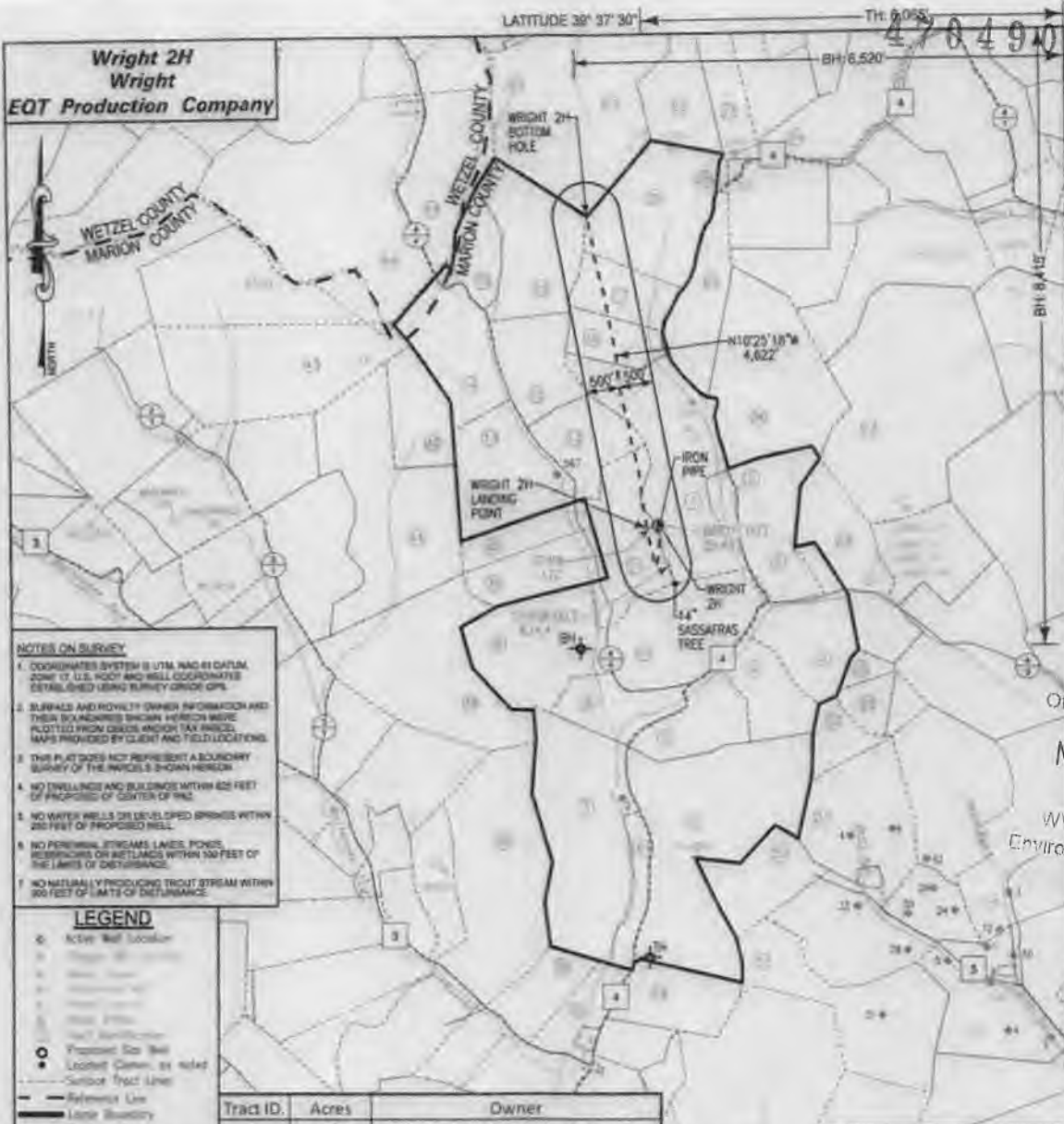
Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
29.00	2934.00	ISCWS4 MWD Rev. 2 (Standard)	01_APS EM - 12-14' (1261-2934') Proj 3000	Wright 2H AWB
2934.00	6467.00	Navitrac (MagCorr)	02_BHI MWD 8.75in Section 3070'-6467'	Wright 2H AWB
6467.00	12968.00	Navitrac (MagCorr)	03_BHI AT Curve - 8.75" - 6555'-12968'	Wright 2H AWB
12968.00	12992.00	Blind Drilling (std)	Projection to bit	Wright 2H AWB

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NOTES ON SURVEY

- COORDINATES SYSTEM IS UTM, NAD 83 DATUM, ZONE 17, U.S. FOOT AND WILL COORDINATE ESTABLISHED USING SURVEY GRID GPS
- SUBPARLS AND ROYALTY OWNER INFORMATION AND THEIR BOUNDARIES SHOWN HEREON WERE PLOTTED FROM COPIES AND/OR TAX PARCEL MAPS PROVIDED BY CLIENT AND FIELD LOCATIONS
- THIS PLAT DOES NOT REPRESENT A BOUNDARY SURVEY OF THE INDIVIDUALS SHOWN HEREON
- NO DWELLINGS AND BUILDINGS WITHIN 40 FEET OF PROPOSED WELL
- NO WATER WELLS OR DEVELOPED SPRINGS WITHIN 200 FEET OF PROPOSED WELL
- NO PERMANENT STREAMS, LAKES, PONDS, RESERVOIRS OR ARTIFICIALS 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
- Locked Gates, as noted
- Sublot Tract Lines
- Reference Line
- Lottery Boundary
- Creek or Drain
- WV County Road
- WV State Road

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

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

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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 2H
API WELL NO: 47 049 02282
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 ±

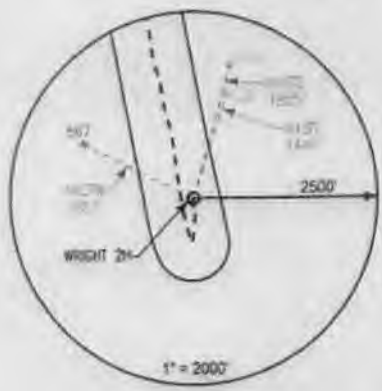
PROPOSED WORK: DRILL CONVERT DRILL DEEPER FRACTURE OR STIMULATE PLUG OFF OLD FORMATION
 PERFORATE NEW FORMATION OTHER PHYSICAL CHANGE IN WELL (SPECIFY)

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

12/23/2022

Well No.	Depth (ft)	Spud Date	Company	Operator	Surface Coordinates	Bottom Coordinates
1	30	3	Marion	Wright	Dale G. Or Theresa D. Stout	48.00
2	30	3	Marion	Wright	Dale G. Or Theresa D. Stout	48.00
3	30	3	Marion	Wright	Dale G. Or Theresa D. Stout	48.00
4	30	3	Marion	Wright	Dale G. Or Theresa D. Stout	48.00
5	30	3	Marion	Wright	Dale G. Or Theresa D. Stout	48.00
6	30	3	Marion	Wright	Dale G. Or Theresa D. Stout	48.00
7	30	3	Marion	Wright	Dale G. Or Theresa D. Stout	48.00
8	30	3	Marion	Wright	Dale G. Or Theresa D. Stout	48.00
9	30	3	Marion	Wright	Dale G. Or Theresa D. Stout	48.00
10	30	3	Marion	Wright	Dale G. Or Theresa D. Stout	48.00
11	30	3	Marion	Wright	Dale G. Or Theresa D. Stout	48.00
12	30	3	Marion	Wright	Dale G. Or Theresa D. Stout	48.00
13	30	3	Marion	Wright	Dale G. Or Theresa D. Stout	48.00
14	30	3	Marion	Wright	Dale G. Or Theresa D. Stout	48.00
15	30	3	Marion	Wright	Dale G. Or Theresa D. Stout	48.00
16	30	3	Marion	Wright	Dale G. Or Theresa D. Stout	48.00
17	30	3	Marion	Wright	Dale G. Or Theresa D. Stout	48.00
18	30	3	Marion	Wright	Dale G. Or Theresa D. Stout	48.00
19	30	3	Marion	Wright	Dale G. Or Theresa D. Stout	48.00
20	30	3	Marion	Wright	Dale G. Or Theresa D. Stout	48.00
21	30	3	Marion	Wright	Dale G. Or Theresa D. Stout	48.00
22	30	3	Marion	Wright	Dale G. Or Theresa D. Stout	48.00
23	30	3	Marion	Wright	Dale G. Or Theresa D. Stout	48.00
24	30	3	Marion	Wright	Dale G. Or Theresa D. Stout	48.00
25	30	3	Marion	Wright	Dale G. Or Theresa D. Stout	48.00
26	30	3	Marion	Wright	Dale G. Or Theresa D. Stout	48.00
27	30	3	Marion	Wright	Dale G. Or Theresa D. Stout	48.00
28	30	3	Marion	Wright	Dale G. Or Theresa D. Stout	48.00
29	30	3	Marion	Wright	Dale G. Or Theresa D. Stout	48.00
30	30	3	Marion	Wright	Dale G. Or Theresa D. Stout	48.00
31	30	3	Marion	Wright	Dale G. Or Theresa D. Stout	48.00
32	30	3	Marion	Wright	Dale G. Or Theresa D. Stout	48.00
33	30	3	Marion	Wright	Dale G. Or Theresa D. Stout	48.00
34	30	3	Marion	Wright	Dale G. Or Theresa D. Stout	48.00
35	30	3	Marion	Wright	Dale G. Or Theresa D. Stout	48.00
36	30	3	Marion	Wright	Dale G. Or Theresa D. Stout	48.00
37	30	3	Marion	Wright	Dale G. Or Theresa D. Stout	48.00
38	30	3	Marion	Wright	Dale G. Or Theresa D. Stout	48.00
39	30	3	Marion	Wright	Dale G. Or Theresa D. Stout	48.00
40	30	3	Marion	Wright	Dale G. Or Theresa D. Stout	48.00
41	30	3	Marion	Wright	Dale G. Or Theresa D. Stout	48.00
42	30	3	Marion	Wright	Dale G. Or Theresa D. Stout	48.00
43	30	3	Marion	Wright	Dale G. Or Theresa D. Stout	48.00
44	30	3	Marion	Wright	Dale G. Or Theresa D. Stout	48.00
45	30	3	Marion	Wright	Dale G. Or Theresa D. Stout	48.00



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Notes:
WRIGHT 2H As-Built coordinates are
NAD 27 N: 397,672,630 E: 1,735,576,510
NAD 27 Lat: 39.589052 Long: -80.438244
NAD 83 UTM N: 4,302,196,715 E: 548,254,911

WRIGHT 2H As-Built Landing Point coordinates are
NAD 27 N: 397,629,270 E: 1,735,415,720
NAD 27 Lat: 39.567900 Long: -80.438823
NAD 83 UTM N: 4,302,191,758 E: 548,205,245

WRIGHT 2H As-Built Bottom Hole coordinates are
NAD 27 N: 402,171,690 E: 1,734,576,480
NAD 27 Lat: 39.600375 Long: -80.441960
NAD 83 UTM N: 4,303,502,307 E: 547,927,410

West Virginia Coordinates system of 1927 (North Zone)
based upon Differential GPS Measurements
Post orientation, Corner and well feet are based upon
the grid north meridian
Well location references are based upon the grid north
meridian
UTM coordinates are NAD83, Zone 17, Master.

LEGEND

- Active Well Location
- Proposed Gas Well
- Location Corner, as noted
- Surface Grid Lines
- Reference Line
- Lotter Boundary
- Lines as Shown
- 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.

Rex C. Ray
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 2H
API WELL NO
47 049 02282
STATE COUNTY PERMIT

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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

12/23/2022



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 2H (Radcliff 2H) Well
 API 47-049-02282
 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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Stansberry, Wade A <wade.a.stansberry@wv.gov>

Plugging Vertical Well Work Permit API: 47-049-02282)

1 message

Stansberry, Wade A <wade.a.stansberry@wv.gov>

Tue, Dec 20, 2022 at 2:29 PM

To: John <JZavatchan@eqt.com>, Todd <tklaner@eqt.com>, Olivia Pishioneri <opishioneri@eqt.com>, "Shrum, Becky" <bshrum@eqt.com>, Erin Spine <espine@eqt.com>, Mark Trach <mtrach@wvassessor.com>, "Ward, Samuel D" <samuel.d.ward@wv.gov>


I have attached a copy of the newly issued well [permit](#) number. This will serve as your copy.

47-049-02282 - WRIGHT 2H

If you have any questions, then [please](#) contact us here at the Office of Oil and Gas.

Thank you,

Wade A. Stansberry**Environmental Resource Specialist 3****West Virginia Department of Environmental Protection****Office of Oil & Gas****601 57th St. SE****Charleston, WV 25304****(304) 926-0499 ext. 41115****(304) 926-0452 fax****Wade.A.Stansberry@wv.gov**

2 attachments **47-049-02282 - Copy.pdf**
2678K **IR-8 Blank.pdf**
237K**12/23/2022**