



west virginia department of environmental protection

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

Jim Justice , Governor
Austin Caperton , Cabinet Secretary
www.dep.wv.gov

Tuesday, December 05, 2017
WELL WORK PERMIT
Vertical / Re-Work

COLUMBIA GAS TRANSMISSION, LLC
1700 MACCORKLE AVENUE SE

CHARLESTON, WV 25314

Re: Permit approval for ROCKPORT 7265
47-107-00453-00-00

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

Please be advised that form WR-35, Well Operators Report of Well Work is to be submitted to this office within 90 days of completion of permitted well work, as should form WR-34 Discharge Monitoring Report within 30 days of discharge of pits, if applicable. Failure to abide by all statutory and regulatory provisions governing all duties and operations hereunder may result in suspension or revocation of this permit and, in addition, may result in civil and/or criminal penalties being imposed upon the operators.

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

James A. Martin
Chief

Operator's Well Number: ROCKPORT 7265
Farm Name: DENT, GLADYS P
U.S. WELL NUMBER: 47-107-00453-00-00
Vertical / Re-Work
Date Issued: 12/5/2017

Promoting a healthy environment.

12/08/2017

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. If the operator encounters an unanticipated void, or an anticipated void at an unanticipated depth, the operator shall notify the inspector within 24 hours. Modifications to the casing program may be necessary to comply with W. Va. Code §22-6-20, which requires drilling to a minimum depth of thirty feet below the bottom of the void, and installing a minimum of twenty (20) feet of casing. Under no circumstance should the operator drill more than fifty (50) feet below the bottom of the void or install less than twenty (20) feet of casing below the bottom of the void.
2. Pursuant to 35 CSR 4-19.1.a, at the request of the surface owner all water wells or springs within 1000 feet of the proposed well that are actually utilized for human consumption, domestic animals or other general use shall be sampled and analyzed.
3. Pursuant to 35 CSR 4-19.1.c, if the operator is unable to sample and analyze any water well or spring with one thousand (1,000) feet of the permitted well location, the Office of Oil and Gas requires the operator to sample, at a minimum, one water well or spring located between one thousand (1,000) feet and two thousand (2,000) feet of the permitted well location.
4. All pits must be lined with a minimum of 20 mil thickness synthetic liner.
5. 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.
6. During the surface casing and cementing process, in the event cement does not return to the surface, or any other casing string that is permitted to circulate cement to the surface and does not return to the surface, the oil and gas inspector shall be notified within twenty-four (24) hours
7. Well work activities shall not constitute a hazard to the safety of persons.
8. Operator shall provide the Office of Oil & Gas notification of the date that drilling commenced, drilling ceased, completion of any other permitted well work and completion of the well. Such notice shall be provided by sending an email to DEPOOGNotify@wv.gov within 30 days of commencement of drilling.

WW - 2B
(Rev. 8/10)

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

1) Well Operator: Columbia Gas Transmission, LLC

| | | | |
|--------|------|--------|--------------|
| 307032 | Wood | Steele | Rockport, WV |
|--------|------|--------|--------------|

Operator ID County District Quadrangle

2) Operator's Well Number: Rockport 7265 3) Elevation: 1065.7 ft

4) Well Type: (a) Oil _____ or Gas X _____
(b) If Gas: Production _____ / Underground Storage X _____
Deep X _____ / Shallow _____

5) Proposed Target Formation(s): Oriskany Proposed Target Depth: 5358 ft

6) Proposed Total Depth: 5411 (existing) Feet Formation at Proposed Total Depth: Oriskany

7) Approximate fresh water strata depths: 65' and 70' (as reported by driller in 1956)

8) Approximate salt water depths: none reported by driller in 1956

9) Approximate coal seam depths: none reported by driller in 1956

10) Approximate void depths,(coal, Karst, other): none reported by driller in 1956

11) Does land contain coal seams tributary to active mine? no

12) Describe proposed well work and fracturing methods in detail (attach additional sheets if needed)

Log, perform coiled tubing clean-out and acid treatment (2000 gals acid), possible fracture stimulation (500 bbls fresh water & 25000 lbs proppant).

* Casing listed below are existing. No plans to remove, alter, or install new casing/tubing.

HA

13) **CASING AND TUBING PROGRAM**

| TYPE | SPECIFICATIONS | | | FOOTAGE INTERVALS | | CEMENT |
|----------------|----------------|-------|---------------|-------------------|--------------|---------------------|
| | Size | Grade | Weight per ft | For Drilling | Left in Well | Fill -up (Cu. Ft.) |
| Conductor | 16 | | 65 | 54 | 54 | no record of cement |
| Fresh Water | 13.375 | | 48 | 945 | 945 | no record of cement |
| Intermediate 1 | 8.625 | | 24 | 2402 | 2402 | 50 sx |
| Intermediate 2 | 7 | | 23 | 5322 | 5322 | 100 sx |
| Production | 4.5 | N-80 | 11.6 | 5409 | 5409 | 90 sx |
| Tubing | | | | | | |
| Liners | | | | | | |

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Packers: Kind: _____

Sizes: _____

Depths Set _____

WV Department of
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12/08/2017

State of West Virginia
Division of Environmental Protection
Section of Oil and Gas
Well Operator's Report of Well Work

Farm name: DENT, GLADYS P Operator Well No.: ROCKPORT 7265

LOCATION: Elevation: 1,066.00 Quadrangle: ROCKPORT

District: STEELE County: WOOD
Latitude: 10425 Feet South of 39 Deg. 5 Min. 0 Sec.
Longitude 3900 Feet West of 81 Deg. 32 Min. 30 Sec.

Company: COLUMBIA GAS TRANSMISSION
P. O. BOX 1273
CHARLESTON, WV 25325-1273

Agent: RICHARD L. COTY

Inspector: GLEN ROBINSON
Permit Issued: 06/04/99
Well work Commenced: 8-6-99
Well work Completed: 9-17-99
Verbal Plugging _____
Permission granted on: _____
Rotary Cable Rig
Total Depth (feet) 5411'
Fresh water depths (ft) 65' - 70'

Salt water depths (ft) _____
Not Reported
Is coal being mined in area (Y/N)? _____
Coal Depths (ft): _____

| Casing & Tubing Size | Used in Drilling | Left in Well | Cement Fill Up Cu. Ft. |
|----------------------|------------------|--------------|------------------------|
| 16", 65 lb. | | 27' | |
| 13-3/8", 48 lb. | | 945' | |
| 8-5/8", 24 lb. | | 2387' | 50 sx |
| 7", 22 lb. | | 5290' | 100 sx |
| 4-1/2", 11.6 lb. | | 5409' | 90 sx |

OPEN FLOW DATA * Storage well - Rates and pressures vary.

Producing formation Oriskany (Storage) Pay zone depth (ft) 5358' - 5367'
Gas: Initial open flow N/A MCF/d Oil: Initial open flow N/A Bbl/d
Final open flow N/A MCF/d Final open flow N/A Bbl/d
Time of open flow between initial and final tests _____ Hours
Static rock Pressure _____ psig (surface pressure) after _____ Hours

Second producing formation _____ Pay zone depth (ft) _____
Gas: Initial open flow _____ MCF/d Oil: Initial open flow _____ Bbl/d
Final open flow _____ MCF/d Final open flow _____ Bbl/d
Time of open flow between initial and final tests _____ Hours
Static rock Pressure _____ psig (surface pressure) after _____ Hours

NOTE: ON BACK OF THIS FORM PUT THE FOLLOWING: 1). DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC. 2). THE WELL LOG WHICH IS A SYSTEMATIC DETAILED GEOLOGICAL RECORD OF ALL FORMATIONS, INCLUDING COAL ENCOUNTERED BY THE WELLBORE.

For: COLUMBIA GAS TRANSMISSION CORP.
By: Paul C. Amick
Date: 12-30-99

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Pulled 5350' of 2-3/8" tubing, drilled new 6-1/8" hole 5364' - 5411', installed new API 5M wellhead, ran 5409' of 4-1/2", 11.6 lb, N-80 casing and cemented with 90 sx of Class "A" cement, perforated Oriskany 5358' - 5367' with 6 SPF and pumped an N-2 Assist Viking 20 Frac Treatment using 500 gallons of 28% HCL, 382 BBLs of water, 110 MSCF N2, and 15,550 lbs of 20/40 sand at 1 - 3 PPG.

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12/08/2017

United Fuel Gas Company
COMPANY

SERIAL WELL NO. **K-58-7265** LEASE NO. **X-52283-51728 D** MAP SQUARE **64-107**

| RECORD OF WELL NO. on the | CASING AND TUBING | | | | TEST BEFORE SHOT |
|---|-------------------|------------|------------------|--------------|---|
| | SIZE | WEIGHT | USED IN DRILLING | LEFT IN WELL | |
| Harry Beard farm of 148 Acres | | | | | /10 of Water in.....inch |
| in Steele District | 16 | 65 | 62 | 54 | 82 /10 of Merc. in 7²³/₁₀₀ inch |
| Wood County | 13 | 48 | 1133 | 945 | Volume 14,265,000 Cu. ft. |
| State of West Virginia | 10 | 405 | 2050 | 0 | TEST AFTER SHOT |
| Field: Northern Division | 8 | 24 | 2508 | 2402 | /10 of Water in.....inch |
| Rig Commenced 19 | 7 | 23 | 5467 | 5322 | /10 of Merc. in.....inch |
| Rig Completed 19 | 2 | 4.6 | 5515 | 5387 | Volume.....Cu. ft. |
| Drilling Commenced May 24, 19 56 | | | | | 48 Hours After Shot |
| Drilling Completed October 1, 19 56 | | | | | Rock Pressure 1675 |
| Drilling to cost per foot | | | | | Date Shot Not Shot |
| Contractor is: Mays Drilling Co | | | | | Size of Torpedo..... |
| Address: Kenna, W. Va. | | | | | Oil Flowed.....bbls. 1st 24 hrs. |
| | | | | | Date..... |
| Driller's Name T.A. Payne | | | | | Oil Pumped.....bbls. 1st 24 hrs. |
| Bill Bonto | | | | | Tubing or Casing.....in. |
| | | | | | Size of Packer..... |
| | | | | | Kind of Packer..... |
| | | | | | Well abandoned and Plugged.....19 |
| | | | | | 1st. Perf. Set.....from..... |
| Elevation: 1065.63 | | | | | 2nd Perf. Set.....from..... |

DRILLER'S RECORD

| FORMATION | TOP | BOTTOM | THICKNESS | REMARKS |
|-------------|------|--------|-----------|----------------------------|
| Soil | 0 | 5 | | |
| Clay | 5 | 30 | | |
| Sand | 30 | 35 | | |
| Red Rock | 35 | 65 | | |
| Sand | 65 | 70 | | Some water from 65' to 70' |
| Red Rock | 70 | 535 | | |
| Line Shells | 535 | 542 | | |
| Red Rock | 542 | 720 | | |
| Shell | 720 | 730 | | |
| Red Rock | 730 | 925 | | |
| Blue Slate | 925 | 940 | | |
| White Sand | 940 | 960 | | |
| Blue Slate | 960 | 1030 | | |
| Red Rock | 1030 | 1060 | | |
| White Slate | 1060 | 1075 | | |
| Blue Line | 1075 | 1085 | | |
| White Sand | 1085 | 1125 | | |

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SERIAL WELL NO. X-58-7265LEASE NO. X-52283-51728-DMAP SQUARE 64-107

DRILLER'S RECORD

| FORMATION | TOP | BOTTOM | THICKNESS | REMARKS |
|----------------|------|--------|-----------|----------------------------|
| Red Rock | 1125 | 1218 | | Cement Cane 1120' to 1146' |
| Line | 1218 | 1247 | | |
| Red Rock | 1247 | 1270 | | |
| Slate | 1270 | 1291 | | |
| Red Rock | 1291 | 1326 | | |
| Slate | 1326 | 1341 | | |
| Red Rock | 1341 | 1363 | | |
| Line | 1363 | 1375 | | |
| Slate | 1375 | 1415 | | |
| Black Slate | 1415 | 1440 | | |
| White Line | 1440 | 1441 | | |
| Broken Sand | 1441 | 1527 | | |
| Slate | 1527 | 1590 | | |
| Line & Shells | 1590 | 1615 | | |
| Broken Sand | 1615 | 1708 | | |
| Coal | 1708 | 1711 | | |
| Slate & Shells | 1711 | 1790 | | |
| Line & Shells | 1790 | 1820 | | |
| Sand | 1820 | 1875 | | |
| Black Slate | 1875 | 1915 | | |
| Line | 1915 | 1940 | | |
| Slate | 1940 | 1960 | | |
| Line | 1960 | 1973 | | |
| Black Slate | 1973 | 1980 | | |
| Sand | 1980 | 2015 | | |
| Slate & Shells | 2015 | 2050 | | |
| Salt Sand | 2050 | 2308 | | |
| Slate Brake | 2308 | 2312 | | |
| Line | 2312 | 2505 | | |
| Slate | 2505 | 2654 | | |
| Slate & Shells | 2654 | 4195 | | |
| Shale | 4195 | 4302 | | |
| Slate | 4302 | 4390 | | |
| Shale | 4390 | 4490 | | |
| White Slate | 4490 | 4876 | | |
| Shale | 4876 | 5200 | | |
| Black Shale | 5200 | 5225 | | |

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Form CG-2

STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
OIL AND GAS DIVISION

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WELL DRILLING PERMIT

Permit No. WOO-453

MAY 7, 1956

TO UNITED FUEL GAS COMPANY
Well Operator

LOCATION OF WELL:

P. O. BOX 1273
Street

STESLE DISTRICT

CHARLESTON, WEST VIRGINIA
City

WOOD COUNTY

WELL No. X-58-7265

HARRY BEARD FARM

The Department of Mines received your Notice and Plat of the Well described above on the 26TH day of APRIL, 1956, showing proposed location for drilling an oil or gas well.

Ten days having expired since the receipt of Notice and Plat and no objections having been made by the coal owners, coal operators, or the Department of Mines, the location is approved and permission is granted you to drill strictly in accordance with the several provisions of Chapter 22, Code of 1931, the Well to be numbered and located as above shown and more particularly as indicated on the Plat on file with this Department.

This Permit is assignable either by separate instrument, or incident to the transfer of title to the oil and gas, or of the right to drill therefore at said location, but no such assignment shall entitle the assignee to drill thereat until he shall have filed with the Department of Mines a certified, or sworn copy of the instrument assigning same, or as an incident to which such assignment was made.

In case the well is not commenced within four months from the above date, this Permit shall expire and be of no further force or effect.

JULIUS C. OLZER
Chief of Department of Mines

C. Z. Hall
Administrative Assistant

12/08/2017

WW-2B1
(5-12)

Well No. Rockport 7265

West Virginia Department of Environmental Protection
Office of Oil and Gas

NOTICE TO SURFACE OWNERS

The well operator named below is preparing to file for a permit from the state to drill a new well. Before a well work permit can be filed with the Chief of the Office of Oil and Gas, the well operator is required to have given notice of the right to request water well or spring analytical testing. This notice shall be given to the owners or occupants of land which have a water well or spring being utilized for human consumption, domestic animals, or other general use and which is located within 1000 feet of the proposed well site.

With this form, the operator is giving you notice of your right to request analytical testing. The operator is required to sample and analyze the water wells or springs of all owners or occupants who request it. Therefore, if you wish to have your water well or spring tested, contact the operator named below.

All sampling shall be completed prior to drilling. Within thirty (30) days of the receipt of such sample analyses the operator shall submit the results to the Chief of the Office of Oil and Gas and to the owners or occupants who may have requested them.

Be advised, you have the right to sample and analyze any water supply at your own expense.

Listed below is the laboratory chosen by operator to perform analysis, and contactor chosen to collect sample.

Certified Laboratory Name _____
Sampling Contractor _____

Well Operator Not applicable - existing underground natural gas storage well.

Address _____

Telephone _____

FOR OPERATOR'S USE ONLY: Below, or on an attached page, list those persons which were given this notice. Place an asterisk beside the one(s) that contacted you and requested sampling and analyses. If there were no requests made, indicate by underling which one you have selected to sample and analyze. If there are no water wells or springs within 1000 feet of the proposed site, the Chief may require the operator to test wells up to 2000 feet from the proposed site.

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WV Department of
Environmental Protection

WW-2A
(Rev. 6-14)

1.) Date: 11/1/2017
2.) Operator's Well Number Rockport 7265
State County Permit
3.) API Well No.: 47- 107 - 00453

Renewal

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

4) Surface Owner(s) to be served:
(a) Name Robert & Barbara Davis
Address 9316 Southern Highway
Rockport, WV 26169-0014
(b) Name _____
Address _____
(c) Name _____
Address _____
6) Inspector Jamie Stevens
Address 105 Kentuck Rd
Kenna, WV 25248
Telephone 304-206-7775
5) (a) Coal Operator
Name _____
Address _____
(b) Coal Owner(s) with Declaration
Name _____
Address _____
(c) Coal Lessee with Declaration
Name _____
Address _____

TO THE PERSONS NAMED ABOVE TAKE NOTICE THAT:

OR Included is the lease or leases or other continuing contract or contracts by which I hold the right to extract oil and gas

X Included is the information required by Chapter 22, Article 6, Section 8(d) of the Code of West Virginia (see page 2)

I certify that as required under Chapter 22-6 of the West Virginia Code I have served copies of this notice and application, a location plat, and accompanying documents pages 1 through ___ on the above named parties by:

- Personal Service (Affidavit attached)
- Certified Mail (Postmarked postal receipt attached)
- Publication (Notice of Publication attached)

I have read and understand Chapter 22-6 and 35 CSR 4, and I agree to the terms and conditions of any permit issued under this application.

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, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate and complete.

I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

RECEIVED
Office of Oil and Gas

Well Operator: Columbia Gas Transmission, LLC
By: James E. Amos
Its: Senior Engineer
Address: 48 Columbia Gas Rd
Sandville, WV 25275
Telephone: 304-373-2412
Email: james.amos@transcanada.com

NOV 08 2017

WV Department of Environmental Protection



Subscribed and sworn before me this 3RD day of NOVEMBER, 2017
Michael D. McClung
My Commission Expires 6/19/22
Notary Public Michael D. McClung

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 depprivacyofficer@wv.gov

12/08/2017

**INFORMATION SUPPLIED UNDER WEST VIRGINIA CODE
Chapter 22, Article 6, Section 8(d)
IN LIEU OF FILING LEASE(S) AND OTHER CONTINUING CONTRACT(S)**

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

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

| Grantor, Lessor, etc. | Grantee, Lessee, etc. | Royalty | Book/Page |
|-----------------------|--------------------------------|---------------------|---------------|
| Margaret A. Davis | Columbia Gas Transmission, LLC | Storage lease 52263 | 377 / 222-224 |
| Marilyn K. Schroeder | Columbia Gas Transmission, LLC | Storage lease 52263 | 377 / 222-224 |
| Robert E. Dent, Jr | Columbia Gas Transmission, LLC | Storage lease 52263 | 377 / 222-224 |

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

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

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

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

Well Operator:
By:Its:

Columbia Gas Transmission, LLC
James E. Amos
Senior Engineer 

WW-9
(5/16)

API Number 47 - 107 - 00453
Operator's Well No. Rockport 7265

STATE OF WEST VIRGINIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
OFFICE OF OIL AND GAS
FLUIDS/ CUTTINGS DISPOSAL & RECLAMATION PLAN

Operator Name Columbia Gas Transmission, LLC OP Code 307032
Watershed (HUC 10) Tygart Creek Quadrangle Rockport, WV

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

If so, please describe anticipated pit waste: _____
Will a synthetic liner be used in the pit? Yes No If so, what ml.? _____

Proposed Disposal Method For Treated Pit Wastes:

- Land Application (if selected provide a completed form WW-9-GPP)
- Underground Injection (UIC Permit Number 34-009-23821, 34-009-23823, 34-009-23824, 34-105-23619)
- 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: yes - steel piping connecting wellhead and tank(s)

Drilling medium anticipated for this well (vertical and horizontal)? Air, freshwater, oil based, etc. freshwater
-If oil based, what type? Synthetic, petroleum, etc.

Additives to be used in drilling medium? NaCl, biocide, polymer, starch, calcium carbonate, surfactant (CTCO), HCl acid (stimulation)

Drill cuttings disposal method? Leave in pit, landfill, removed offsite, etc. N/A
-If left in pit and plan to solidify what medium will be used? (cement, lime, sawdust) _____

-Landfill or offsite name/permit number? if needed: Rumpke Beech Hollow Landfill - Wellston, OH

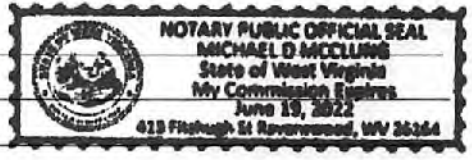
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Permittee shall provide written notice to the Office of Oil and Gas of any load of drill cuttings or associated waste rejected at any West Virginia solid waste facility. The notice shall be provided within 24 hours of rejection and the permittee shall 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) James E. Amos
Company Official Title Senior Well Services Engineer



Subscribed and sworn before me this 3RD day of NOVEMBER, 2017

[Signature] Notary Public Michael D. McClung

My commission expires 6/19/22

Proposed Revegetation Treatment: Acres Disturbed < 0.2 Prevegetation pH 6 - 7

Lime 2 Tons/acre or to correct to pH 7 - 8

Fertilizer type 10-10-10

Fertilizer amount 600 lbs/acre

Mulch straw @ 2 Tons/acre

Seed Mixtures

| Temporary | | Permanent | |
|------------|----------|----------------------------------|----------|
| Seed Type | lbs/acre | Seed Type | lbs/acre |
| Annual Rye | 40 | Orchard Grass and/or Tall Fescue | 29 |
| | | Birdsfoot Trefoil (Empire) | 9 |
| | | Annual Rye | 12 |

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: James Stevens

Comments: _____

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Office of Oil and Gas
NOV 08 2017
WW Department of
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Title: Inspector Date: 11-06-17

Field Reviewed? Yes No

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

Operator Name: Columbia Gas Transmission, LLC

Watershed (HUC 10): Tygart Creek Quad: Rockport, WV

Farm Name: Dent, Gladys P (per WV DEP records)

- 1. List the procedures used for the treatment and discharge of fluids. Include a list of all operations that could contaminate the groundwater.

No fluids planned to be discharged.

No fertilizer will be stored on site. Fuel, oil, and lubricants will be stored on site, but located within secondary containment. Spills from construction equipment, well treatment fluids, and produced well fluids are the only possible source of contamination to groundwater. Drilling and flowback fluids to be stored in tanks.

- 2. Describe procedures and equipment used to protect groundwater quality from the list of potential contaminant sources above.

All construction and well servicing equipment will be monitored and inspected daily for leaks. Fluid pumping well service equipment will have secondary containment under all leak paths. Spill kits will be on site.

- 3. List the closest water body, distance to closest water body, and distance from closest Well Head Protection Area to the discharge area.

Tygart Creek is approximately 680 ft to the E.

The closest Well Head Protection Area is 10.4 miles from PWSID WV3305402 (Claywood Park PSD). Refer to enclosed assessment letter dated 9/5/17 from Department of Health and Human Resources, Source Water Assessment and Protection department.

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- 4. Summarize all activities at your facility that are already regulated for groundwater protection.

WV Department of
Environmental Protection

N/A

- 5. Discuss any existing groundwater quality data for your facility or an adjacent property.

N/A

6. Provide a statement that no waste material will be used for deicing or fill material on the property.

No waste material will be used for deicing or fill material on the property.

7. Describe the groundwater protection instruction and training to be provided to the employees. Job procedures shall provide direction on how to prevent groundwater contamination.

During routine tailgate meetings groundwater protection will be a topic of discussion.

8. Provide provisions and frequency for inspections of all GPP elements and equipment.

No fertilizer will be stored on site. Small quantities of fuel, oil, and lubrications will be stored on site, but located within secondary containment. Construction and well servicing equipment will be monitored and inspected daily for leaks or spill.

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Signature: 

Date: 11/3/17



12/08/2017



Rockport - 07265

existing lease road

Browns Ridge Rd
(Co Rd 25/11)

Rt 21

Google Earth

12/08/2017

WV DEP Reclamation Plan - Overview

Rockport Well 7265 (API 107-00453)

- BMPs to be utilized per WV DEP guidelines
- Existing drainage, culverts, and road ditches to be maintained
- Minor grading and road surfacing material to be applied as needed

Driving Directions

From North

I-77 to Rockport Exit (~10 miles south of Parkersburg)
 Left on Rt 21 south
 3.3 miles turn right on to Browns Ridge Rd (Co 25/11)
 0.3 miles turn right on to lease road
 Follow 0.2 miles to well site

From South

I-77 to Rockport Exit (~15 miles south of Parkersburg)
 Right on Rt 21 south
 1.9 miles turn right on to Browns Ridge Rd (Co 25/11)
 0.3 miles turn right on to lease road
 Follow 0.2 miles to well site

*Jamie
11/6/2017*

Rt 21



1000 ft

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230 ft

210 ft

existing access road

silt fence

Rockport - 07265

Proposed Limit of Disturbance on existing well site
12/08/2017

Google Earth

© 2017 Google

WV DEP Reclamation Plan - Site Detail

Rockport Well 7265 (API 107-00453)

*Janice
11/10/2017*

- BMPs and erosion control devices to be utilized per WV DEP guidelines and Columbia's WV Environmental Construction Standards
- Existing drainage, culverts, and road ditches to be maintained
- Minor grading and surfacing material to be applied as needed



silt fence

Disturbance

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12/08/2017

47-107-00453W

47-107-00453W

(LUBECK)

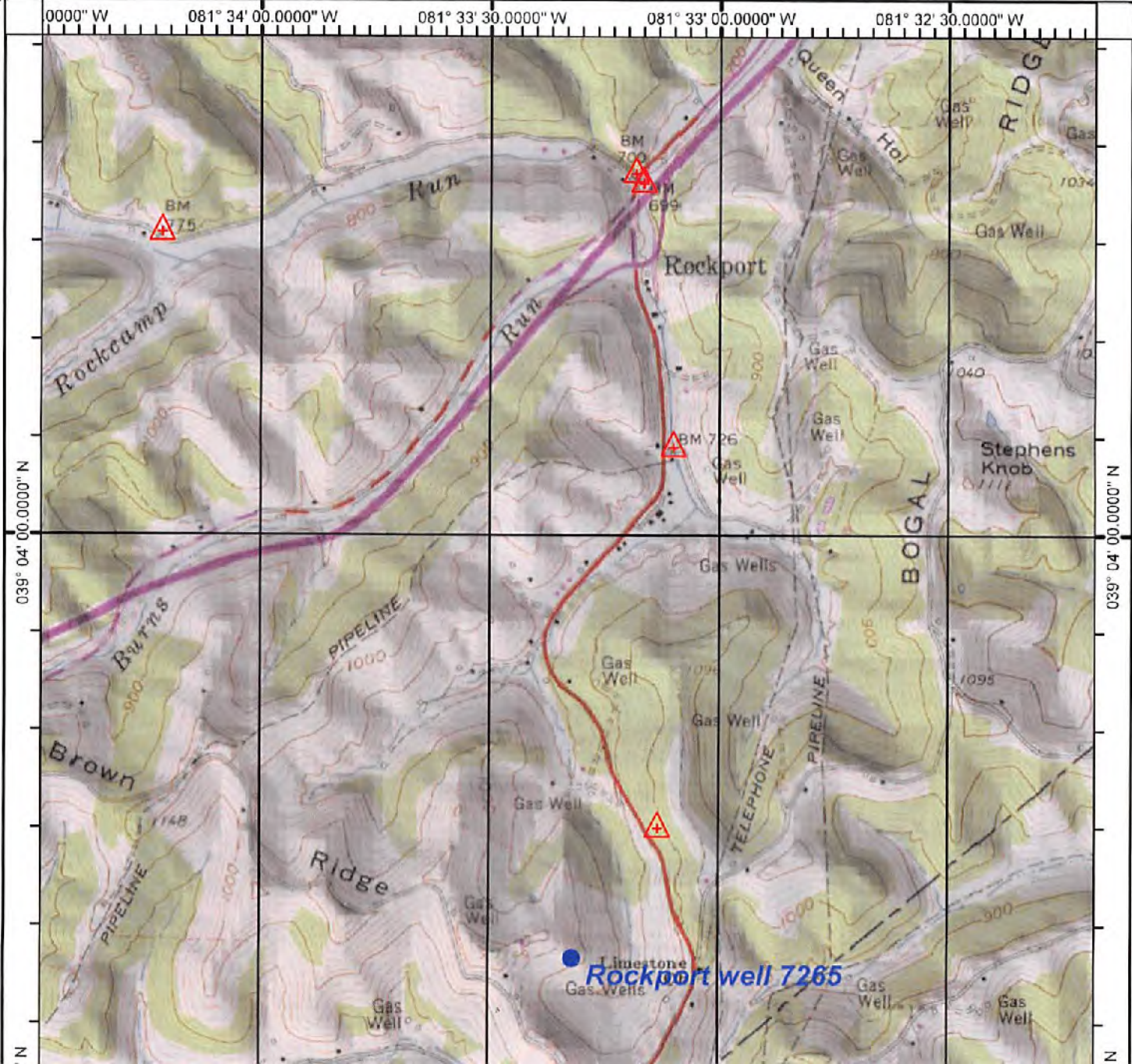


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Environmental Protection

ROCKPORT QUADRANGLE
WEST VIRGINIA
TOPOGRAPHIC SERIES

(KANAWHA)

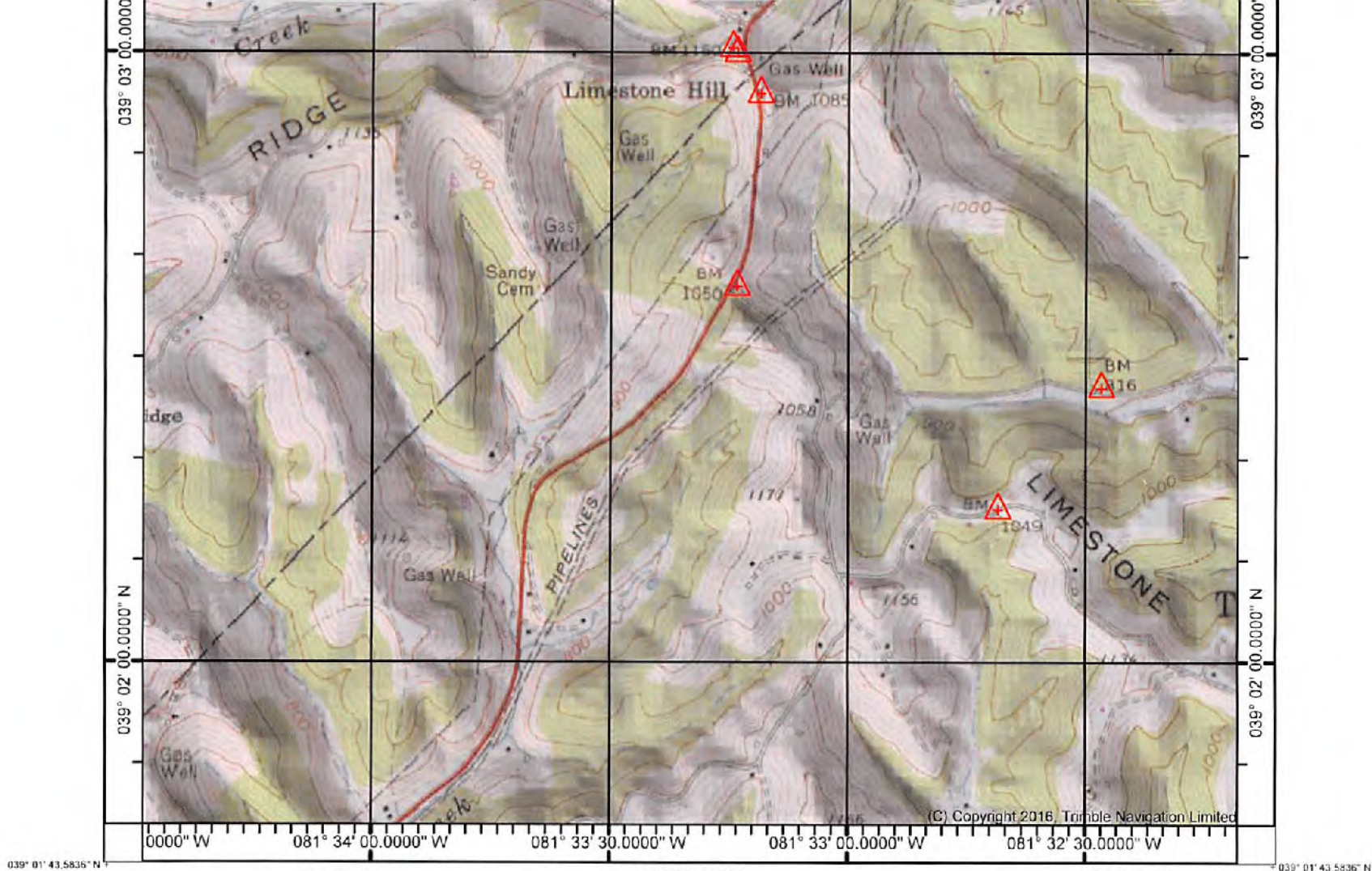
081° 34' 28.7919" W (SOUTH PARKERSBURG) 081° 32' 10.0344" W
039° 04' 51.0051" N 039° 04' 00.0000" N



(POND CREEK)

(ELIZABETH)

Rockport well 7265



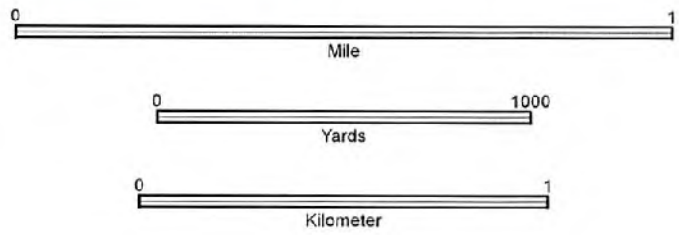
039° 01' 43.5836" N
 081° 34' 28.7919" W
 039° 02' 00.0000" N
 081° 34' 00.0000" W
 081° 33' 30.0000" W
 081° 33' 00.0000" W
 081° 32' 30.0000" W
 039° 01' 43.5836" N
 081° 32' 10.0344" W

(SANDYVILLE)

Produced by Trimble Terrain Navigator Pro
 Topography based on USGS 1:24,000 Maps
 North American 1983 Datum (NAD83)
 To place on the predicted North American 1927 move the
 projection lines 9M N and 13M E



(LIVERPOOL)
 SCALE 1:18056

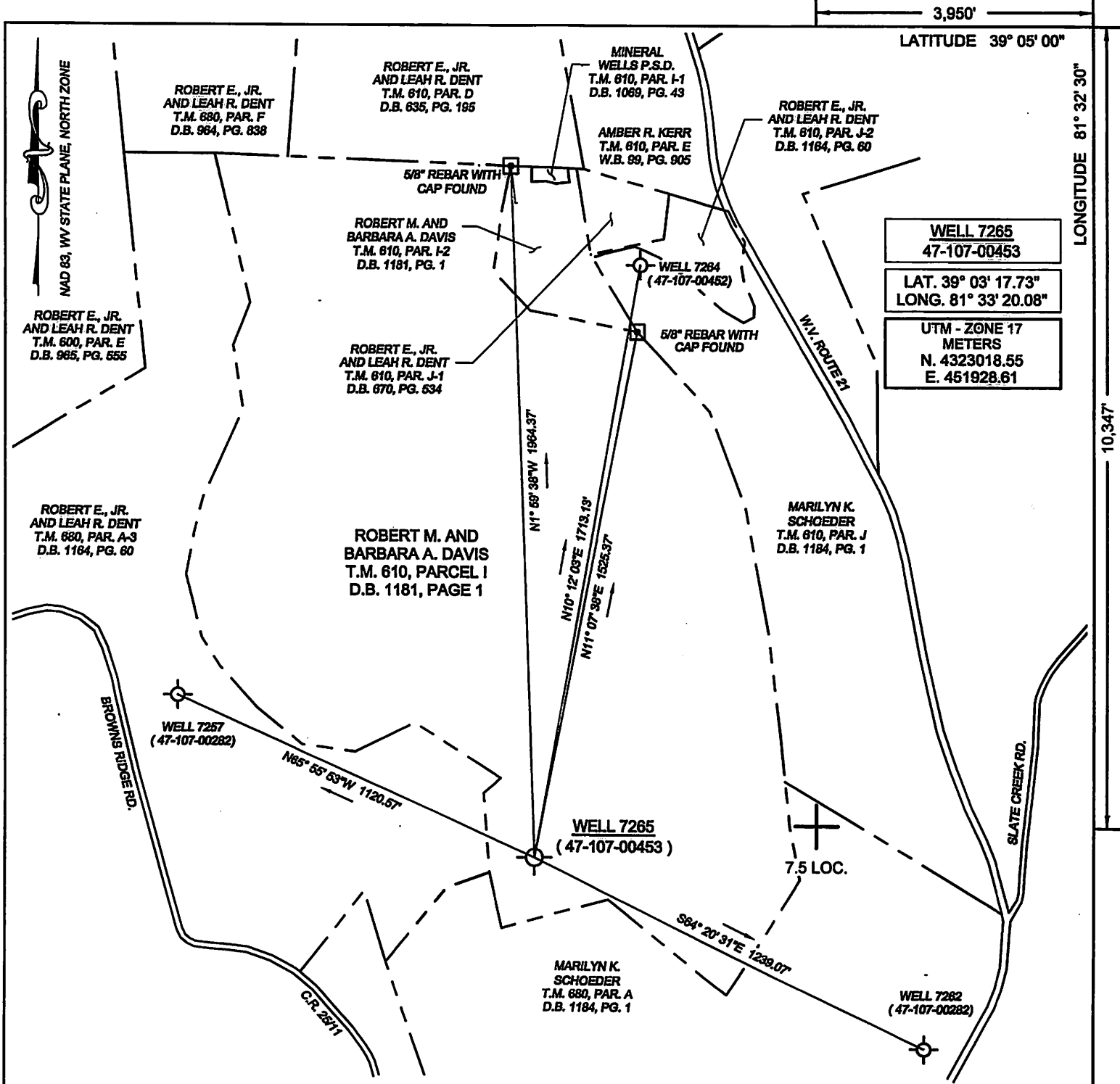


CONTOUR INTERVAL 20 FT

Janie
 1/16/2017

39081-A4-TM-024
 ROCKPORT, WV
 JAN 1, 1975

(REEDY)



WELL 7265
47-107-00453

LAT. 39° 03' 17.73"
LONG. 81° 33' 20.08"

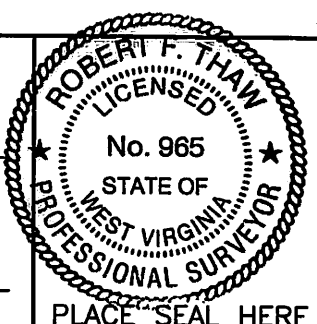
UTM - ZONE 17
METERS
N. 4323018.55
E. 451928.61

(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS

FILE No 1701-2345-012
DRAWING No. 1601-2345-012
SCALE 1"=400'
MINIMUM DEGREE OF ACCURACY 1:200
PROVEN SOURCE OF ELEVATION TRIMBLE R8-3 GPS UNIT

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 DIVISION OF ENVIRONMENTAL PROTECTION.

(SIGNED) R. Thaw
ROBERT F. THAW PS #965



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

NITRO, WV

DATE OCTOBER 20 20 17
OPERATOR'S WELL No. 7265
API WELL No. _____

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

LOCATION: ELEVATION 1065.7 WATER SHED TYGART CREEK
DISTRICT STEELE COUNTY WOOD
QUADRANGLE ROCKPORT, WV

SURFACE OWNER ROBERT M. DAVIS AND BARBARA A. DAVIS ACREAGE 59.5
OIL & GAS ROYALTY OWNER MARGARET A. DAVIS, MARILYN K. SCHROEDER, ROBERT E. DENT, JR. LEASE ACREAGE 148
LEASE No. 52283

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

PLUG AND ABANDON ___ CLEAN OUT AND REPLUG ___
TARGET FORMATION ORISKANY ESTIMATED DEPTH 5358 FT
WELL OPERATOR COLUMBIA GAS TRANSMISSION, LLC DESIGNATED AGENT PAUL AMICK
ADDRESS PO BOX 1273, CHARLESTON, WV 25325-1273 ADDRESS P.O. BOX 1273, CHARLESTON W.V. 25325-1273

FORM IV-6 (8-78)