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**west virginia** department of environmental protection

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

Earl Ray Tomblin, Governor  
Randy C. Huffman, Cabinet Secretary  
[www.dep.wv.gov](http://www.dep.wv.gov)

March 29, 2016

**WELL WORK PERMIT**

**Re-Work**

This permit, API Well Number: 47-10700452, issued to COLUMBIA GAS TRANSMISSION, LLC, is evidence of permission granted to perform the specified well work at the location described on the attached pages and located on the attached plat, subject to the provisions of Chapter 22 of the West Virginia Code of 1931, as amended, and all rules and regulations promulgated thereunder, and to all conditions and provisions outlined in the pages attached hereto. Notification shall be given by the operator to the Oil and Gas Inspector at least 24 hours prior to the construction of roads, locations, and/or pits for any permitted work. In addition, the well operator shall notify the same inspector 24 hours before any actual well work is commenced and prior to running and cementing casing. Spills or emergency discharges must be promptly reported by the operator to 1-800-642-3074 and to the Oil and Gas inspector.

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

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

Per 35CSR-4-5.2.g this permit will expire in two (2) years from the issue date unless permitted well work is commenced. If there are any questions, please feel free to contact me at (304) 926-0499 ext. 1654.

James Martin

Chief

Operator's Well No: ROCKPORT 7264  
Farm Name: DENT, GLADYS P

**API Well Number: 47-10700452**

**Permit Type: Re-Work**

Date Issued: 03/29/2016

**Promoting a healthy environment.**

## 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.

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### CONDITIONS

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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](mailto: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 7264 3) Elevation: 825.4 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: 5100

6) Proposed Total Depth: 5157 (existing) Feet Formation at Proposed Total Depth: Helderberg

7) Approximate fresh water strata depths: 627' (as reported by driller in 1956)

8) Approximate salt water depths: 1231' and 1808' (as reported by driller in 1956)

9) Approximate coal seam depths: none reported by driller

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

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. Fracture stimulate.

13) **CASING AND TUBING PROGRAM** \* existing tubulars

| TYPE           | SPECIFICATIONS |       |               | FOOTAGE      | INTERVALS    | CEMENT              |
|----------------|----------------|-------|---------------|--------------|--------------|---------------------|
|                | Size           | Grade | Weight per ft | For Drilling | Left in Well | Fill -up (Cu. Ft.)  |
| Conductor      | 16             |       | 65            | 40           | 40           | no record of cement |
| Fresh Water    | 13.375         |       | 48            | 893          | 893          | no record of cement |
| Intermediate 1 | 10.75          |       | 40.5          | 1334         | 0            |                     |
| Intermediate 2 | 8.625          |       | 24            | 2136         | 2136         | 50 sx               |
| Intermediate 3 | 7              |       | 23            | 5030         | 5030         | 100 sx              |
| Production     | 4.5            | N-80  | 11.60         | 5142         | 5142         | 90 sx               |
| Tubing / liner |                |       |               |              |              |                     |

*3-7-16*  
*Existing OK-JS*

RECEIVED  
Office of Oil and Gas  
MAR 10 2016

WV Department of  
Environmental Protection

Packers: Kind: \_\_\_\_\_  
Sizes: \_\_\_\_\_  
Depths Set \_\_\_\_\_

10700452W

WR-35

02-Jun-99

API # 47-107-00452 D

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 7264

LOCATION: Elevation: 828.00 Quadrangle: ROCKPORT

District: STEELE County: WOOD  
Latitude: 8650 Feet South of 39 Deg. 5 Min. 0 Sec.  
Longitude 3600 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: 8-23-99  
Well work Completed: 9-24-99  
Verbal Plugging  
Permission granted on: \_\_\_\_\_  
Rotary Cable X Rig  
Total Depth (feet) 5157'  
Fresh water depths (ft) \_\_\_\_\_  
Not Reported  
Salt water depths (ft) 627' - 680',  
1231', 1808'  
Is coal being mined in area (Y/N)? No  
Coal Depths (ft): Not Reported

| Casing & Tubing Size | Used in Drilling | Left in Well | Cement Fill Up Cu. Ft. |
|----------------------|------------------|--------------|------------------------|
| 16", 65 lb.          |                  | 40'          |                        |
| 13-3/8", 48 lb.      |                  | 893'         |                        |
| 8-5/8", 24 lb.       |                  | 2136'        | 50 sx                  |
| 7", 22 lb.           |                  | 5030'        | 100 sx                 |
| 4-1/2", 11.6 lb.     |                  | 5142'        | 90 sx                  |

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

Producing formation Oriskany (Storage) Pay zone depth (ft) 5091' - 5108'  
Gas: Initial open flow \_\_\_\_\_ MCF/d Oil: Initial open flow \_\_\_\_\_ 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 CORE.  
By: Paul G. Amick  
Date: 12-30-99

Pulled 5114' of 2-3/8" tubing, drilled new 6-1/8" hole 5102' - 5157', installed new API 5M wellhead, ran 5142' of 4-1/2", 11.6 lb, N-80 casing and cemented with 90 sx of Class "A" cement, perforated Oriskany 5091' - 5108' with 6 SPF and pumped an N-2 Assist Viking 20 Frac Treatment using 50 gallons of 28% HCL, 437 BBLS of water, 125 MSCF N2, and 22,000 lbs of 20/40 sand at 1 - 4 PPG.

10700452W

State of West Virginia  
Division of Environmental Protection  
Section of Oil and Gas  
Discharge Monitoring Report  
Oil and Gas General Permit

Company Name: COLUMBIA GAS TRANSMISSION CORP.  
API 47-107-00452 D County: WOOD District: STEELE  
Farm Name: DENT, GLADYS P Well No: ROCKPORT 7264

Discharge Dates/s From: (MMDDYY) 9-24-99 TO: (MMDDYY) 9-24-99  
Discharge Times : From \_\_\_\_\_ TO \_\_\_\_\_

Disposal Option Utilized: UIC (2): \_\_\_ Permit No. \_\_\_\_\_  
Centralized Facility (5): \_\_\_ Permit No. \_\_\_\_\_  
Reuse (4): \_\_\_ Alternate Permit Number: \_\_\_\_\_  
Offsite Disposal (3): \_\_\_ Site Location: \_\_\_\_\_  
Land Application (1): \_\_\_ (Include a topographical map of the Area.)  
Other method (6): X (Include an explanation)

Follow Instructions below to determine your treatment category.

Optional Pretreatment test: \_\_\_\_\_ Cl- mg/l \_\_\_\_\_ DO Mg/l

1. Do you have permission to use expedited treatment from the Director or his representative? (Y/N) \_\_\_\_\_ If yes who? \_\_\_\_\_, and place a (4) on line 7. If not go to line 2

2. Was Frac Fluid or flowback go to line 5 if not go to \_\_\_\_\_ (Y/N) \_\_\_ If yes

3. Do you have (Y/N) \_\_\_ If \_\_\_\_\_ (see above)?

4. Is that then enter a \_\_\_\_\_ 5000 mg/l? (Y/N) \_\_\_ If yes

5 Do you have treatment value for DO? (See above) (Y/N) \_\_\_ If yes then go line 6 if not enter a three (3) in line 7.

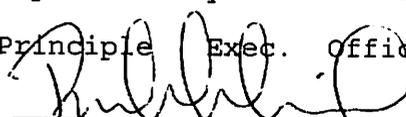
6 Is that DO greater then 2.5 mg/l? (Y/N) \_\_\_ If yes then enter a two (2) on line 7 If not enter a three (3) on line 7.

7. \_\_\_\_\_ is the category of your pit. Use the Appropriate section.

Name of Principle Exec. Officer Paul C. Amick  
Title of Officer Sr. Storage Engineer  
Date Completed: 12-30-99

I certify under penalty of law that I have personally examined and am familiar with the information submitted on this document and all the 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.

Signature of a Principle Exec. Officer or Authorized agent

  
\_\_\_\_\_  
Signature

10700452W

FORM WW-72  
02-Jun-99

OIL AND GAS RECLAMATION NOTICE

TO:

Name Gladys P. Dent  
Address Rt 1 Box 23  
Rockport, WV 26169

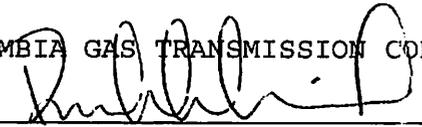
Name \_\_\_\_\_  
Address \_\_\_\_\_  
\_\_\_\_\_

Name \_\_\_\_\_  
Address \_\_\_\_\_  
\_\_\_\_\_

Pursuant to West Virginia Code 22-7-5, notice is hereby given that the undersigned Well Operator is commencing the reclamation required by West Virginia Code 22-6-30 of the surface disturbance caused by well work described as follows:

API Number: 47-107-00452 D  
Operator's Well Number: ROCKPORT 7264  
District: STEELE County: WOOD  
Generallyly used farm name: DENT, GLADYS P.

Any claim for oil and gas production damage compensation pursuant to Article 7, Chapter 22 of the Code must be made within two years of the receipt of this notice.

WELL OPERATOR: COLUMBIA GAS TRANSMISSION CORP.  
By: Paul C. Amick   
Title of Signatory Sr. Storage Engineer  
Address P. O. Box 1808  
St. Albans, WV 25177  
Telephone (304) 722-8612

**United Fuel Gas Company**  
COMPANY

SERIAL WELL NO. I-58-7264 LEASE NO. 52459-D 51729 MAP SQUARE 66-107

| RECORD OF WELL NO. on the                                       | CASING AND TUBING |        |                  |              | TEST BEFORE SHOT   |
|---|-------------------|--------|------------------|--------------|--|
|   | SIZE              | WEIGHT | USED IN DRILLING | LEFT IN WELL |  |
| Maria Post on a farm of 50 Acres in Steele District Wood County | 16                | 65     | 78               | 62           | /10 of Water in _____ inch<br>165/10 of Merc. in <u>7" 23/4</u> inch<br>Volume <u>20,400.000</u> Cu. ft. |
| State of: <u>West Virginia</u>                                  | 10                | 40.5   | 1379             | 0            | TEST AFTER SHOT  |
| Field: <u>Northern Division</u>                                 | 8                 | 24     | 2255             | 2143         | /10 of Water in _____ inch   |
| Rig Commenced 19  | 7                 | 23     | 5212             | 5062         | /10 of Merc. in _____ inch   |
| Rig Completed 19  | 2                 | 4.6    | 5228             | 5109         | Volume _____ Cu. ft.   |
| Drilling Commenced <u>June 7,</u> 19 <u>56</u>                  |                   |        |                  |              | <u>48</u> Hours <u>Actual</u>  |
| Drilling Completed <u>October 2,</u> 19 <u>56</u>               |                   |        |                  |              | Rock Pressure <u>1775</u>  |
| Drilling to cost per foot                                       |                   |        |                  |              | Date Shot <u>Not Shot</u>  |
| Contractor is: <u>Mays Drilling Co</u>                          |                   |        |                  |              | Size of Torpedo _____  |
| Address: <u>Kenna, W. Va.</u>                                   |                   |        |                  |              | Oil Flowed _____ bbls. 1st 24 hrs.   |
|   |                   |        |                  |              | Oil Pumped _____ bbls. 1st 24 hrs.   |
| Driller's Name <u>O. E. Caste</u><br><u>D. R. Seyoc</u>         |                   |        |                  |              | Tubing or Casing _____ in.   |
|   |                   |        |                  |              | Size of Packer <u>None</u>   |
|   |                   |        |                  |              | Kind of Packer _____   |
|   |                   |        |                  |              | Plugged _____ 19 _____   |
|   |                   |        |                  |              | 1st. Perf. Set _____ from _____  |
| Elevation: <u>828.47</u>  |                   |        |                  |              | 2nd Perf. Set _____ from _____   |

**DRILLER'S RECORD**

| FORMATION  | TOP | BOTTOM | THICKNESS | REMARKS |
|------------|-----|--------|-----------|---------|
| Top Soil   | 0   | 10     |           |         |
| Red Rock   | 10  | 40     |           |         |
| Blue Slago | 40  | 63     |           |         |
| Red Rock   | 63  | 110    |           |         |
| Slate      | 110 | 124    |           |         |
| Red Rock   | 124 | 285    |           |         |
| Grey Shale | 285 | 296    |           |         |
| Red Rock   | 296 | 376    |           |         |
| Grey Shale | 376 | 418    |           |         |
| Red Rock   | 418 | 472    |           |         |
| Grey Slate | 472 | 505    |           |         |
| Lias       | 505 | 532    |           |         |
| Sand       | 532 | 554    |           |         |
| Grey Shale | 554 | 566    |           |         |
| Red Rock   | 566 | 586    |           |         |
| Grey Shale | 586 | 627    |           |         |
| Red Rock   | 627 | 680    |           |         |

SERIAL WELL NO. X-53-7264

LEASE NO. 52459-D 5728

MAP SQUARE 66-107

DRILLER'S RECORD

| FORMATION        | TOP  | BOTTOM | THICKNESS | REMARKS                            |
|------------------|------|--------|-----------|------------------------------------|
| Sand             | 630  | 706    |           | Small amount of water 627' to 630' |
| Slate & Shells   | 706  | 792    |           |                                    |
| Red Rock         | 792  | 837    |           |                                    |
| Sand             | 837  | 847    |           |                                    |
| Grey Shale       | 847  | 861    |           |                                    |
| Red Rock k       | 861  | 879    |           |                                    |
| Blue Shale       | 879  | 930    |           |                                    |
| Red Rock         | 930  | 992    |           |                                    |
| Slate            | 992  | 1025   |           |                                    |
| Red Rock         | 1025 | 1060   |           |                                    |
| Blue Shale       | 1060 | 1075   |           |                                    |
| Red Rock         | 1075 | 1120   |           |                                    |
| Lime             | 1120 | 1145   |           |                                    |
| Blue Shale       | 1145 | 1165   |           |                                    |
| Sand             | 1165 | 1262   |           | Water at 1231'                     |
| Blue Shale       | 1262 | 1273   |           |                                    |
| Sand             | 1273 | 1310   |           |                                    |
| Slate            | 1310 | 1334   |           |                                    |
| Lime             | 1334 | 1348   |           |                                    |
| Sand             | 1348 | 1356   |           |                                    |
| Slate            | 1356 | 1372   |           |                                    |
| Sand             | 1372 | 1417   |           |                                    |
| Slate & Shells   | 1417 | 1550   |           |                                    |
| Sand             | 1550 | 1580   |           |                                    |
| Slate & Shells   | 1580 | 1718   |           |                                    |
| Salt Sand        | 1718 | 2030   |           | Hole Full Water 1808'              |
| Little Lime      | 2030 | 2082   |           |                                    |
| Slate Break      | 2082 | 2088   |           |                                    |
| Big Lime         | 2088 | 2166   |           |                                    |
| Slate & Shells   | 2166 | 4234   |           |                                    |
| White Slate      | 4234 | 4770   |           |                                    |
| Brown Shale      | 4770 | 4915   |           |                                    |
| Black Shale      | 4915 | 4973   |           |                                    |
| Black Lime       | 4973 | 4993   |           |                                    |
| Corniferous Lime | 4993 | 5100   |           |                                    |
| Oriskany Sand    | 5100 | 5116   |           | Gas from 5103' to 5116'            |
| Total Depth      | 5116 | 0      |           | 20,400.000                         |



NOTARY PUBLIC OFFICIAL SEAL  
MIRIAM MARRIS CLIFDEN  
State of West Virginia  
My Comm. Expires 12/31/2021

WW-2A1  
(Rev. 1/11)

Operator's Well Number Rockport 7264

**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 |
|-----------------------|--------------------------------|---------------------------|-----------|
| Robert Dent, et ux    | Columbia Gas Transmission, LLC | Storage lease 1052459-000 | 379 / 402 |

**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:

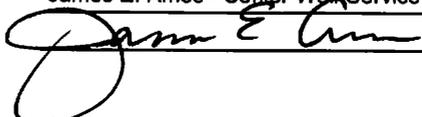
- WV Division of Water and Waste Management
- WV Division of Natural Resources
- WV Division of Highways
- U.S. Army Corps of Engineers
- U.S. Fish and Wildlife Service
- County Floodplain Coordinator

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 Well Service Engineer



WW-2B1  
(5-12)

Well No. Rockport 7264

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 \* not applicable - existing underground natural gas storage well  
Sampling Contractor \_\_\_\_\_

Well Operator \_\_\_\_\_  
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.

RECEIVED  
Office of Oil and Gas  
MAR 10 2016  
WV Department of  
Environmental Protection

WW-9  
(2/15)

API Number 47 - 107 - 00452  
Operator's Well No. Rockport 7264

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
- Undergound Injection ( UIC Permit Number 34-105-23619, 34-121-22459, 34-059-20965 )
- Reuse (at API Number \_\_\_\_\_)
- Off Site Disposal (Supply form WW-9 for disposal location)
- Other (Explain Rumpke Beech Hollow Landfill, Wellston, OH)

Will closed loop system be used? If so, describe: yes - steel lines to steel portable tank

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

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

Additives to be used in drilling medium? N/A

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? \_\_\_\_\_

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

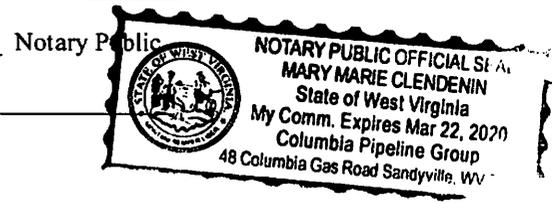
I certify that I understand and agree to the terms and conditions of the GENERAL WATER POLLUTION PERMIT issued on August 1, 2005, by the Office of Oil and Gas of the West Virginia Department of Environmental Protection. I understand that the provisions of the permit are enforceable by law. Violations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

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

Company Official Signature *James E. Amos*  
Company Official (Typed Name) James E. Amos  
Company Official Title Senior Well Services Engineer

Subscribed and sworn before me this 9th day of March, 2016

*Mary Marie Clendenin*  
My commission expires 3/22/2020



107004524

**Columbia Gas Transmission, LLC**

Proposed Revegetation Treatment: Acres Disturbed 0.5 Prevegetation pH 6

Lime 2 Tons/acre or to correct to pH 6.5

Fertilizer type 10-10-10

Fertilizer amount 600 lbs/acre

Mulch 2 Tons/acre

Seed Mixtures

**Temporary**

**Permanent**

| Seed Type                        | lbs/acre | Seed Type   | lbs/acre |
|----------------------------------|----------|---|----------|
| Orchard Grass and/or Tall Fescue | 29       | (if Tall Fescue is used, plant endophyte-free certified seed) |          |
| Birdsfoot Trefoil (Empire)       | 9        | (legumes to be inoculated by manufacturer's recommendation)   |          |
| Annual Rye                       | 12       |   |          |

\* seed rate must be doubled for broadcast seeding

Attach:

Drawing(s) of road, location, pit and proposed area for land application (unless engineered plans including this info have been provided)

Photocopied section of involved 7.5' topographic sheet.

Plan Approved by: Jamie Stevens of

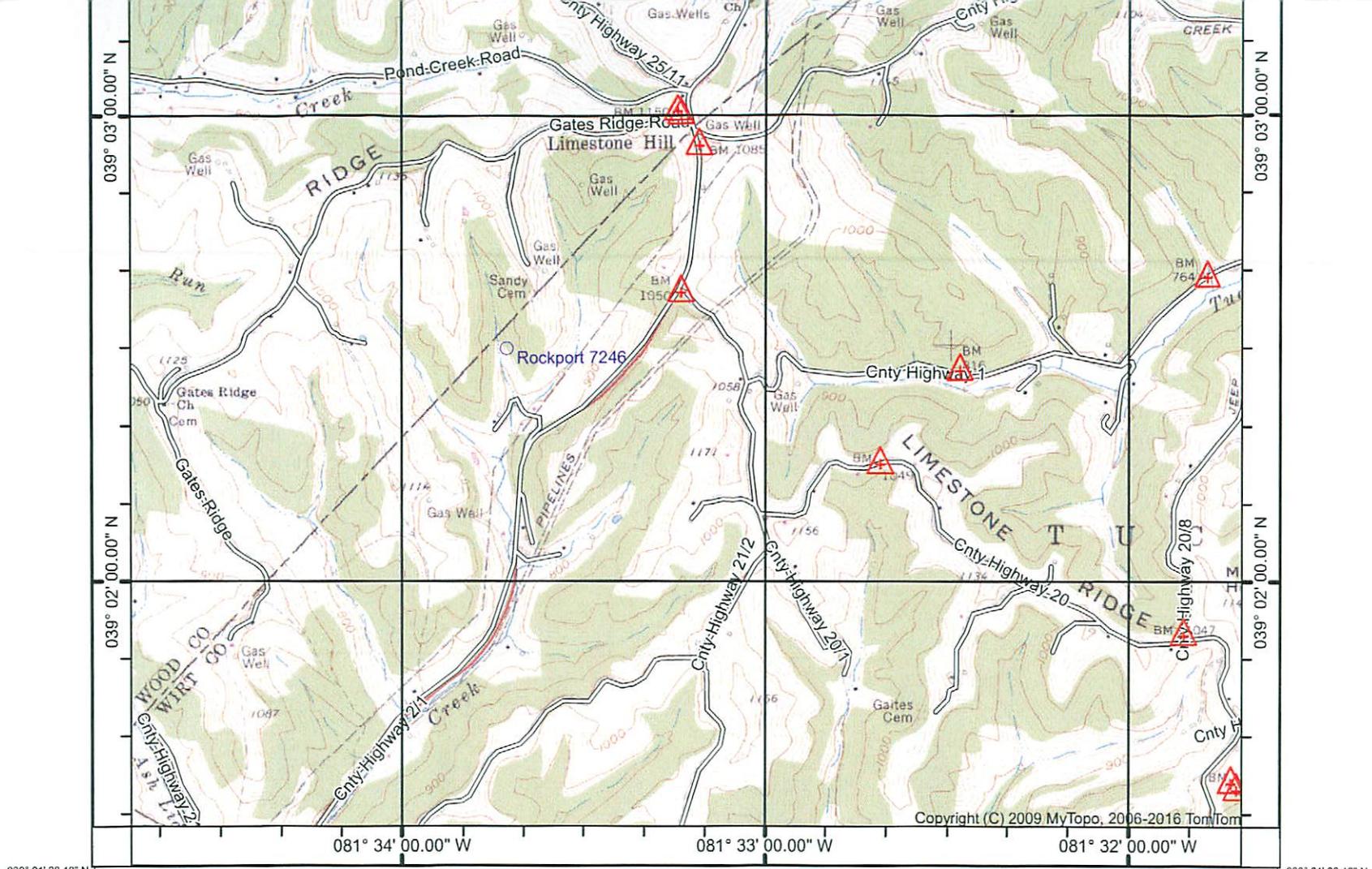
Comments: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

RECEIVED  
Office of Oil and Gas  
MAR 10 2016  
WV Department of  
Environmental Protection

Title: Inspector Date: 3/7/2016

Field Reviewed? (  ) Yes (  ) No





039° 01' 28.12" N  
 081° 34' 45.20" W  
 081° 34' 00.00" W  
 081° 33' 00.00" W  
 081° 32' 00.00" W  
 081° 31' 40.75" W  
 039° 02' 00.00" N  
 039° 03' 00.00" N

(SANDYVILLE)

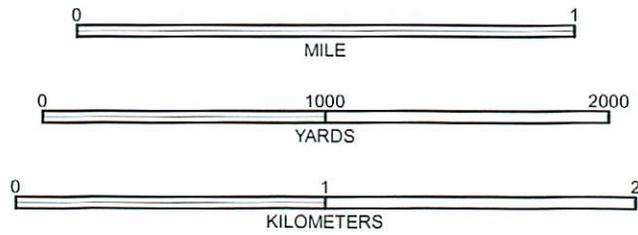
(REEDY)

Produced by MyTopo Terrain Navigator  
 Topography based on USGS 1:24,000 Maps  
 North American 1983 Datum (NAD83)  
 Polyconic Projection

To place on the predicted North American 1927 move the  
 projection lines 9M N and 13M E



(LIVERPOOL)  
 SCALE 1:24000



ROCKPORT, WV  
 1960

CONTOUR INTERVAL 20 FEET  
 NATIONAL GEODETIC VERTICAL DATUM 1929

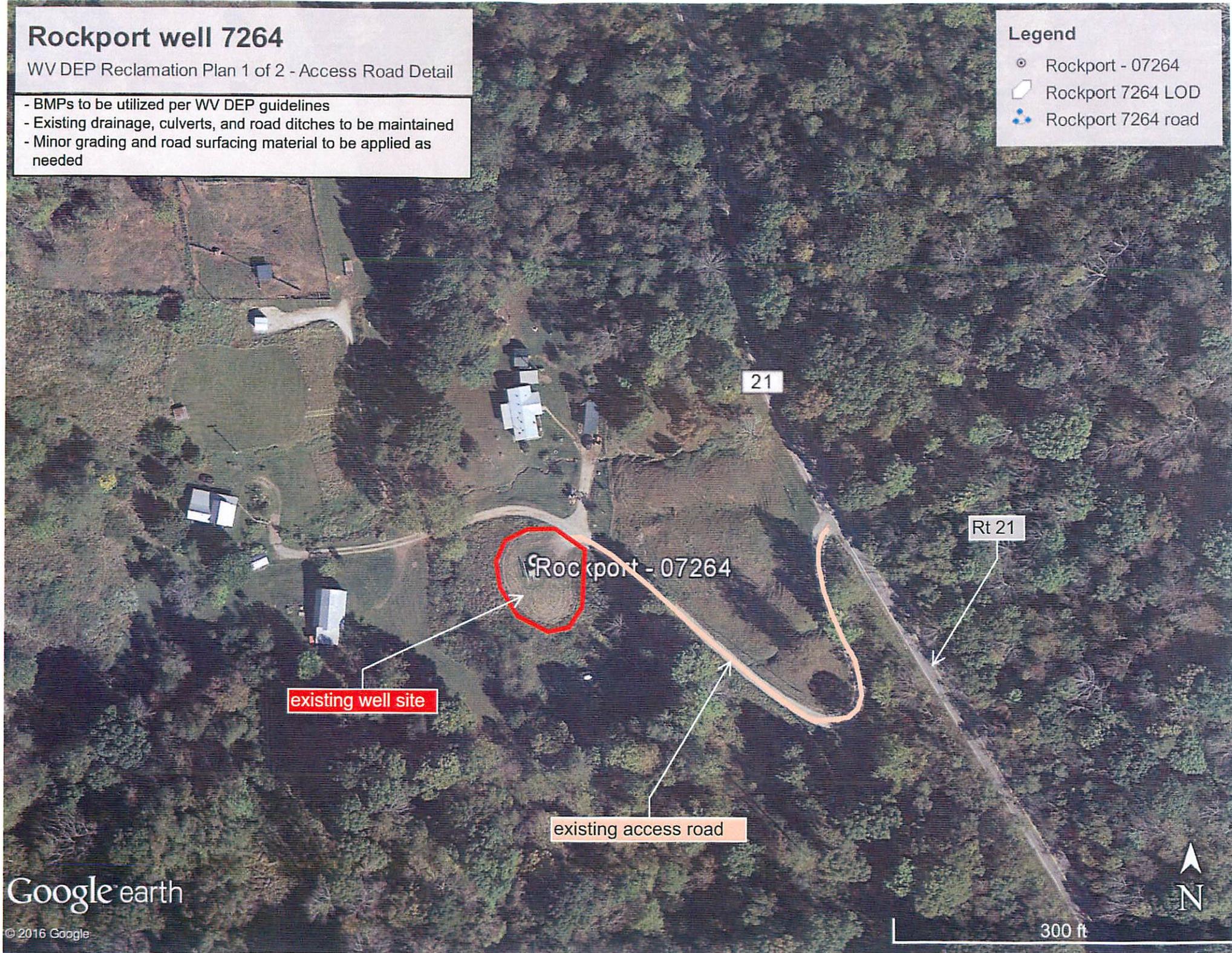
# Rockport well 7264

WV DEP Reclamation Plan 1 of 2 - Access Road Detail

- 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

## Legend

- ⊙ Rockport - 07264
- ▭ Rockport 7264 LOD
- ⋯ Rockport 7264 road



21

Rockport - 07264

Rt 21

existing well site

existing access road

Google earth

© 2016 Google

300 ft



10/2004/5/2w

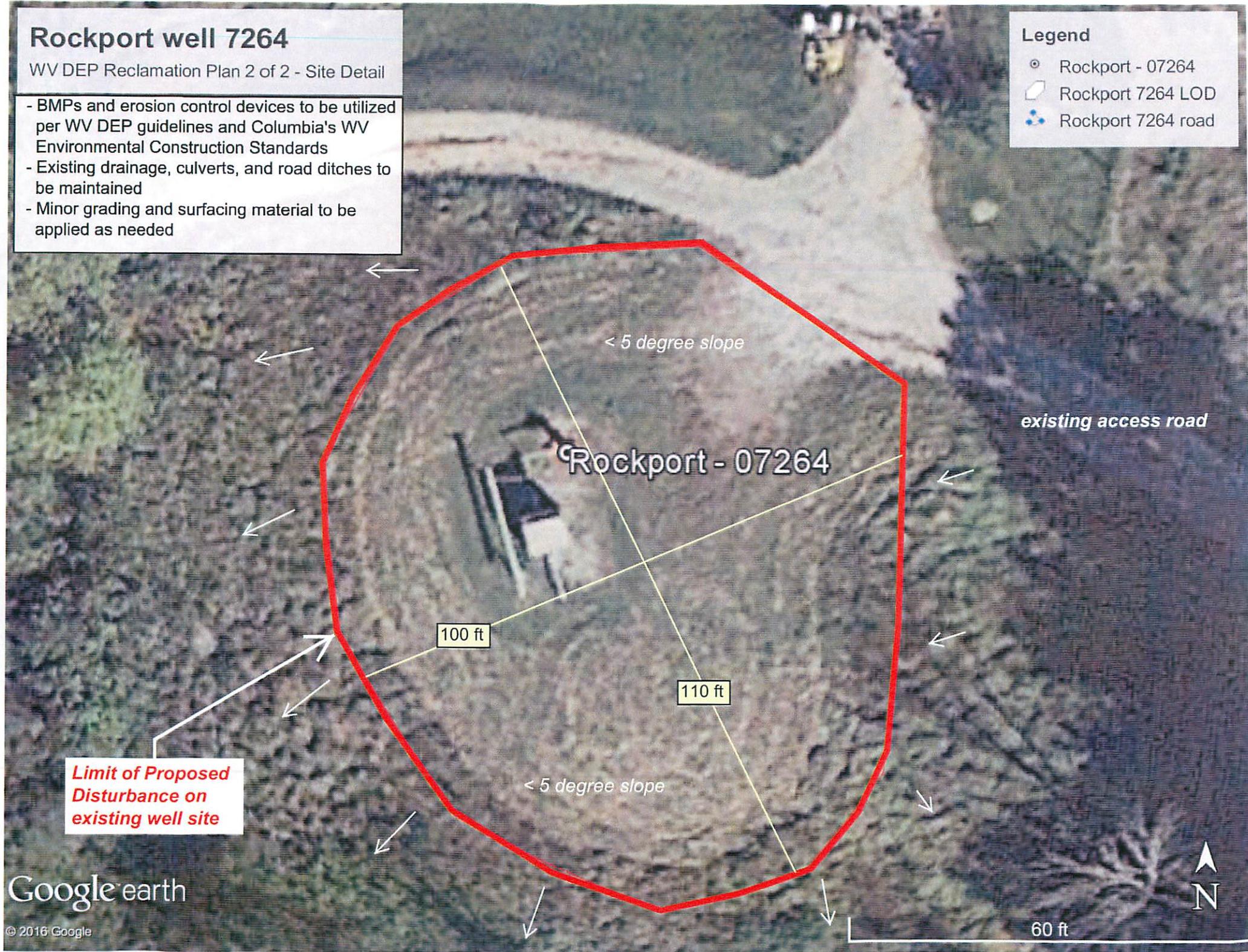
# Rockport well 7264

WV DEP Reclamation Plan 2 of 2 - Site Detail

- 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

## Legend

- Rockport - 07264
- Rockport 7264 LOD
- Rockport 7264 road



**Limit of Proposed Disturbance on existing well site**

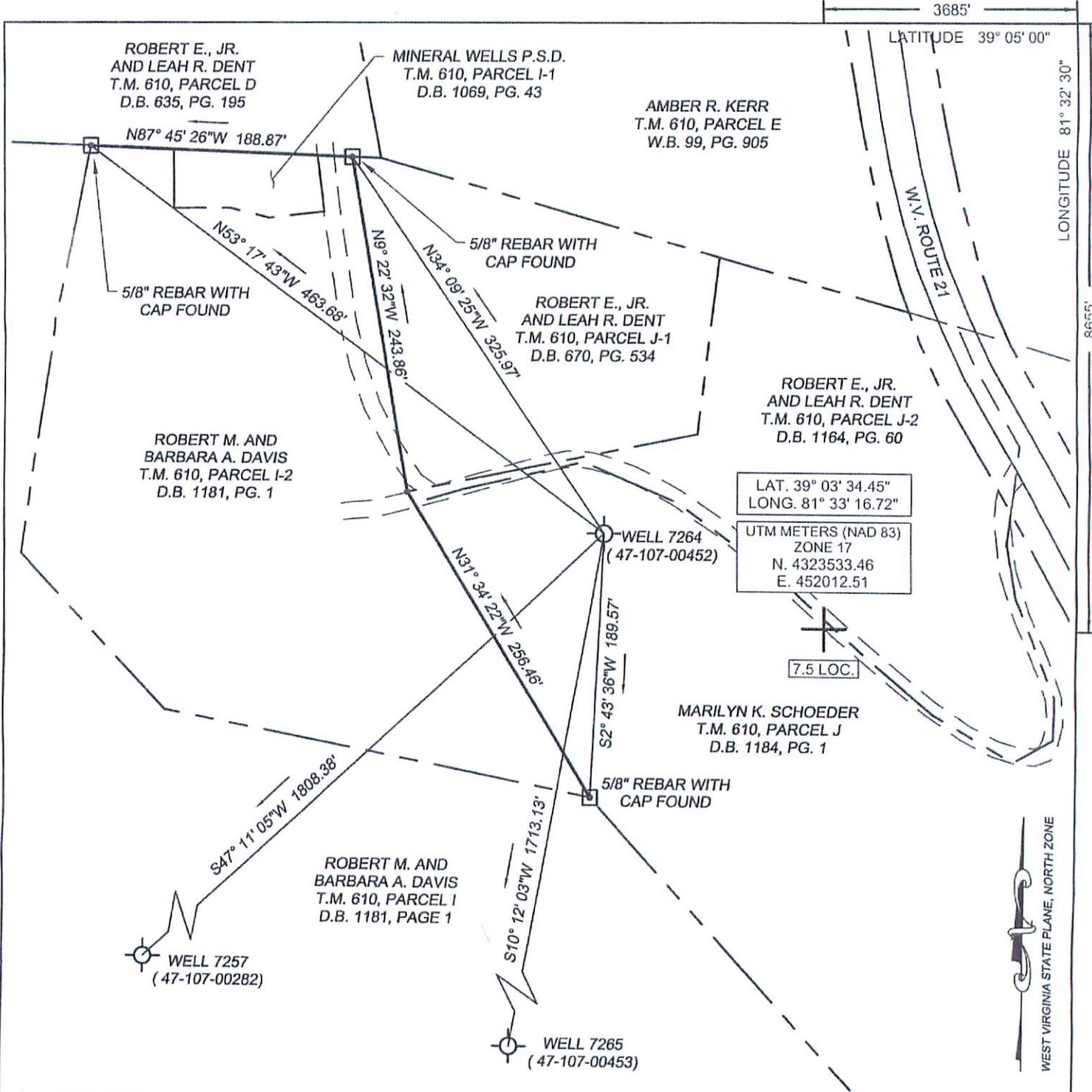
Google earth

© 2016 Google



60 ft

107001572w

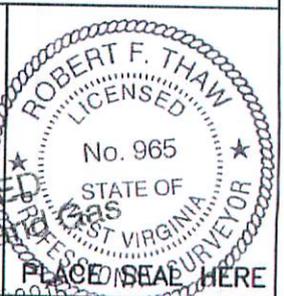


(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS

FILE No 1601-2345-005  
 DRAWING No. 1601-2345-005  
 SCALE 1"=100'  
 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



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

DATE FEBRUARY 18 2016  
 OPERATOR'S WELL No. 7264  
 API WELL No. 47-107-00452

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

LOCATION: ELEVATION 825.4' WATER SHED TYGART CREEK  
 DISTRICT STEELE COUNTY WOOD  
 QUADRANGLE ROCKPORT, WV

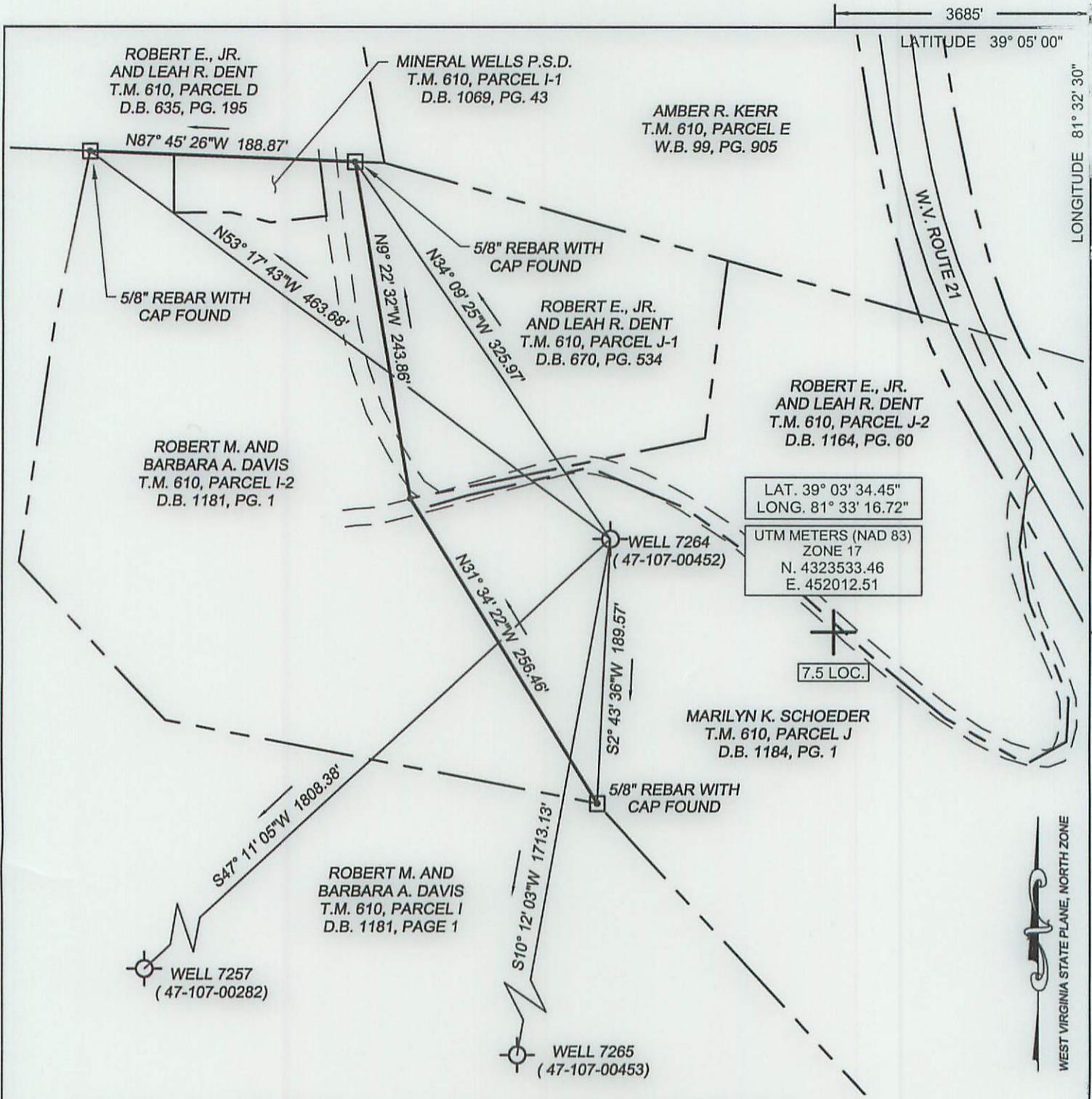
SURFACE OWNER MARILYN K. SCHOEDER ACREAGE 15 +/-  
 OIL & GAS ROYALTY OWNER ROBERT DENT, ET UX LEASE ACREAGE 50  
 LEASE No. 1052459-000

PROPOSED WORK: DRILL  CONVERT  DRILL DEEPER  REDRILL  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 ORISKANY ESTIMATED DEPTH 5157  
 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)



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

FILE No 1601-2345-005  
 DRAWING No. 1601-2345-005  
 SCALE 1"=100'  
 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)

ROBERT F. THAW

PS #965



STATE OF WEST VIRGINIA  
 DIVISION OF ENVIRONMENTAL PROTECTION  
 OFFICE OF OIL AND GAS  
 NITRO, WV



DATE FEBRUARY 18 20 16  
 OPERATOR'S WELL No. 7264  
 API WELL No.

WELL TYPE: OIL  GAS  LIQUID INJECTION  WASTE DISPOSAL   
 (IF "GAS") PRODUCTION  STORAGE  DEEP  SHALLOW   
 LOCATION: ELEVATION 825.4' WATER SHED TYGART CREEK  
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 ADDRESS PO BOX 1273, CHARLESTON, WV ADDRESS P.O. BOX 1273, CHARLESTON W.V.  
25325-1273 25325-1273

FORM IV-6 (3-78)