



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

Friday, July 07, 2017
WELL WORK PERMIT
Vertical / Re-Work

COLUMBIA GAS TRANSMISSION, LLC (A)
P. O. BOX 1273

CHARLESTON, WV 253251273

Re: Permit approval for 7240
47-107-00304-00-00

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: 7240
Farm Name: ARCHER, ELLSWORTH & ONCIE
U.S. WELL NUMBER: 47-107-00304-00-00
Vertical / Re-Work
Date Issued: 7/7/2017

Promoting a healthy environment.

07/07/2017

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)

JUN 7 2017

WV Department of
Environmental Protection

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 7240 3) Elevation: 908.5

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: 5160 ft

6) Proposed Total Depth: 5177 (existing) Feet Formation at Proposed Total Depth: Oriskany

7) Approximate fresh water strata depths: 149 ft (as reported by driller in 1950)

8) Approximate salt water depths: 1317 ft and 1888 ft (as reported by driller in 1950)

9) Approximate coal seam depths: 777 - 778 ft (as reported by driller in 1950)

10) Approximate void depths, (coal, Karst, other): none reported by driller in 1950

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)
Obtain cement bond log. Perform coiled tubing clean-out and acid wash. If cement bond supports, fracture stimulate.

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

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			38	38	no record of cement
Fresh Water	13.375		48	883	0	
Intermediate 1	10.75		40	1423	0	
Intermediate 2	8.625		24	2285	0	
Intermediate 3	7.0		23	5062	5062	400 sx
Production	4.5	J-55	12.6	5177	5177	269 sx
Liner / Tubing						

Packers: Kind: Parmaco Wall & Anchor
Sizes: 4.5" x 6.25"
Depths Set 5125 ft (slotted or perforated anchor ran below)

07/07/2017

10700304W

THIS RECORD PROVIDED BY OO & G.

WR-35

09-Sep-98
API # 47-107-00304 F

State of West Virginia
Division of Environmental Protection Reviewed MS
Section of Oil and Gas

Well Operator's Report of Well Work

Farm name: ARCHER, ELLSWORTH & ONCIE Operator Well No.: 7240

LOCATION: Elevation: 908.00 Quadrangle: ROCKPORT

District: STEELE County: WOOD
Latitude: 7600 Feet South of 39 Deg. 5 Min. 0 Sec.
Longitude 3700 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: 09/09/98
Well work Commenced: 09/24/98
Well work Completed: 09/30/98
Verbal Plugging
Permission granted on: _____
Rotary Cable Rig
Total Depth (feet) 5177'
Fresh water depths (ft) N/A

Salt water depths (ft) N/A

Is coal being mined in area (Y/N)? N
Coal Depths (ft): N/A

Casing & Tubing	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
Size			
16"		38'	
10"		1423'	
8-1/4"		2284'	
7"		5129'	
4-1/2"		5138'	669sx

OPEN FLOW DATA

Producing formation Oriskany Storage Pay zone depth (ft) 5160' - 5177'
 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 N/A Hours
 Static rock Pressure N/A psig (surface pressure) after N/A 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.

CEIV
Permitting
MAR 01 1999
WV Division of Environmental Protection

For: COLUMBIA GAS TRANSMISSION CORP.

By: [Signature]
Date: 2/22/99

WOOD 0304 F

07/07/2017

THIS RECORD PROVIDED BY O O E G.

10700304W

Installed API 3000 wellhead. No stimulation performed.

07/07/2017

10700304W

RECORD
7240(8049)

WEST VIRGINIA DEPARTMENT OF MINES
OIL & GAS DIVISION
WELL RECORD

DE
4-107

Permit No. Woo-304
Belleville Quad.

(107-00304)

Gas Well

CASING & TUBING

Company	Columbian Carbon Co.	16"	38"	38"
Address	Box 873, Charleston 23, W. Va.	13-3/8	882'8"	Pulled
Farm	Godfrey L. Cabot, Inc. (J. A. Ruble #1) Acres 65	10-3/4	1423'10"	Pulled
Location	Tygart Creek	8-1/4	2284'8"	Pulled
Well No. 1 - SW1143	Elev. 907.9' G	6-5/8	5128'10"	5128'10"
District	Steele County-Wood			
Surface	Mrs. W. M. Williamson			Oilwell Midgot Bottom Hole
Mineral	Godfrey L. Cabot, Inc.			6-5/8"
Commenced	2/10/50			Set 5069' SLM
Completed	5/22/50			
Shot	Not shot			
Open Flow	70/10ths Merc. in 7" 23#			Coal at 778 feet 1 1/2 inches
Volume	13,179,000 c.f.			1315 feet 2 1/2 inches
Rock Pressure	1225 lbs. 60 hrs.			
Fresh water	149 feet			
Salt water	1317' 1868'			

Top Soil	0	12	Sand	1317	1360
Red Rock & Sand	12	141	Slate	1360	1417
Slate	141	161	Sand	1417	1431
Slate & R. Rock	161	203	Lime	1431	1446
Red Rock & Sand	203	450	Sand	1446	1518
Slate	450	471	Slate & Shells	1518	1556
Lime	471	490	Sand	1556	1570
Red Rock	490	507	Slate & Shells	1570	1610
Lime	507	527	Sand	1610	1666
Red Rock	527	532	Slate & Shells	1666	1810
Slate & Shells	532	560	Sand	1810	2125
Sand	560	604	Lime 2270'DLM	2125	2352
Slate	604	641	2273'SLM		
Red Rock	641	660	Slate & Shells	2352	2446
Lime	660	705	Shale	2446	2470
Red Rock	705	716	Lime Shells	2470	2610
Slate	716	738	Lime	2610	2910
Red Rock	738	752	Slate & Shells	2910	3258
Slate	752	765	Lime	3258	3336
Sand	765	777	Slate & Shells	3336	3470
Coal	777	778	Lime	3470	3542
Slate	778	798	Slate & Shells	3542	3746
Sand	798	829	Lime	3746	3930
Slate & Shells			Slate & Shells	3930	3930
868'DLM-873'SLM	829	866	Lime	3930	4008
Lime	866	874	Shale	4008	4203
Blue Slate	874	890	Slate	4203	4305
Sand	890	920	Lime	4305	4363
Slate & Shells	920	946	Slate & Shells	4363	4724
Red Rock	946	956	Shale	4724	5042'DLM
Sand	956	971			5043'SLM
Red Rock	971	1015	Corniferous Lime	5043'DLM	
Lime	1015	1052	5069'SLM-5067'DLM-5046'SLM-5160		
Red Rock	1052	1070	Criskany Sand	5160	5177'
Slate & Shells	1070	1110	Total Depth		5177'
Red Rock	1110	1176			
Slate & Shells	1176	1190			
Lime	1190	1231			
Slate	1231	1260			
Sand	1260	1315			
Coal	1315	1317			

RECEIVED
Office of Oil and Gas

JUN 7 2017

WV Department of
Environmental Protection

Feet: 5162-77' - 73/10 W.7" 23# - 13,458M
Gas 3625' small show

CASING RECORD:

3/13/50 13-3/8" casing. Ran 23 bags of Aquazol. No circulation or returns.
Col. Carbon crew

3/21/50 10-3/4" casing. Ran 25 bags of Aquazol. Returns C.R. Col. Carb. Crew

4/9/50 8-5/8" casing. Ran 27 bags of Aquazol. Circulation and returns.
Col. Carbon Co. crew

5/14/50 6-5/8" casing. Ran 60 bags of Aquazol. Casing floated in.
Columbian Carbon Co. crew.

001294

F-23414 07/07/2017

10760304U

7240

RECEIVED
Office of Oil and Gas

JUN 7 2017

WV Department of
Environmental Protection

U-8049 **ROCKPORT 7240 (107-00304)**

Godfrey L. Cabot, Inc.
(J. A. Ruble #1)
Steele District, Wood County, W. Va.
Map Square 64-107
Commenced 2-10-50
Completed 5-22-50
Elevation 907.9'

Size	CASING Weight	Point
16"	3#	38'
13-3/8"	4#	382' 8" pulled
10-3/4"	4#	1423' 10" "
8-1/2"	2 1/2#	2284' 6" "
6-5/8"	2 1/2#	5128' 10" "

CONTRACTOR:
DRILLERS:

Top Soil	0	12
Red Rock	12	57
Sand	57	73
Red Rock	73	79
Sand	79	86
Red Rock	86	116
Sand	116	122
Red Rock	122	141
Slate	141	161
Red Rock	161	174
Slate	174	203
Red Rock	203	254
Sand	258	279
Red Rock	279	302
Sand	302	312
Red Rock	312	450
Slate	450	471
Lime	471	490
Red Rock	490	507
Lime	507	527
Red Rock	527	532
Slate and Shells	532	580
Sand	580	604
Slate	604	641
Red Rock	641	660
Lime	660	705
Red Rock	705	716
Slate	716	738
Red Rock	738	752
Slate	752	765
Sand	765	777
Coal	777	778
Slate	778	798
Sand	798	829
Slate and Shells	829	866
Lime	866	874
Blue Slate	874	890
Sand	890	920
Slate and Shells	920	946
Red Rock	946	956
Sand	956	971
Red Rock	971	1015
Lime	1015	1052
Red Rock	1052	1070
Slate and Shells	1070	1110

Fresh Water 149' 1-16" blr/hr
 Salt Water 1317' 1-13" blr/hr
 Salt Water 1888' 500' - 10 hrs.
 Gas 3835' Small Show
 Gas 5162-177' - 73/10 M. 7" 23# - 13,458M
 Test before shot
 Not shot
FINAL OPEN FLOW - 13,458 - Oriskany
 60 hrs., R. P. 1225'

Red Rock	1110	1176
Slate and Shells	1176	1190
Lime	1190	1231
Slate	1231	1260
Sand	1260	1315
Coal	1315	1317
Sand	1317	1360
Slate	1360	1417
Sand	1417	1431
Lime	1431	1446
Sand	1446	1518
Slate and Shells	1518	1556
Sand	1556	1570
Slate and Shells	1570	1610
Sand	1610	1666
Slate and Shells	1666	1810
Sand	1810	2125
Lime	2125	2352
Slate and Shells	2352	2446
Shale	2446	2470
Lime Shells	2470	2810
Lime	2810	2910
Slate and Shells	2910	3258
Lime	3258	3336
Slate and Shells	3336	3470
Lime	3470	3542
Slate and Shells	3542	3746
Lime	3746	3830
Slate and Shells	3830	3930
Lime	3930	4008
Shale	4008	4283
Slate	4283	4305
Lime	4305	4363
Slate and Shells	4363	4724
Shale	4724	5046
Corniferous Lm.	5046	5160
Oriskany Sand	5160	5177

Purchased from Columbian & Carbon
May 1, 1952

Formerly F-23414

TOTAL DEPTH 5177'

07/07/2017

WELL WORK ORDER

10700304W

DATE ISSUED 5-23-52 1952 BUDGET NO. 763 9-5129-52 WORK ORDER NO. 1402
 COMPANY United Fuel Gas Company FIELD Clendenin
 FARM G. L. Cabot, Min LEASE NO. _____ ACRES 66
 WELL NO. 8049(F-23414) DISTRICT Steele COUNTY Wood STATE W. Va.
 ON WATERS Tygart Creek MAP SQUARE 66-107
 LOCATION MADE BY Columbian Carbon Co. DATE February 10, 1950 NOTE BOOK _____ PAGE _____
 COAL Not Operated NO BUILDINGS WITHIN _____ FEET _____
 LEASE EXPIRES Operated 1952 CLASS OF LOCATION _____
 PURPOSE AND NECESSITY To Purchase Well from Columbian Carbon Co.
 RELATED WORK ORDER NOS. _____ FOR _____

DATA AND APPROVALS

CHECK TYPE OF WORK	CHECK PERMITS OR SERVICES REQUIRED
DRILL NEW WELL <input type="checkbox"/>	RIGHT OF WAY FOR ROAD <input type="checkbox"/> DRILLING PERMIT <input type="checkbox"/>
DRILL WELL DEEPER <input type="checkbox"/>	WELL LINE <input type="checkbox"/> ABANDONMENT PERMIT <input type="checkbox"/>
Purchase EXISTING WELL <input checked="" type="checkbox"/>	INSTALL MEASURING EQUIPMENT <input type="checkbox"/>
	SURVEY FOR: W. G. LINE <input type="checkbox"/>

ESTIMATED DEPTH 5177 FEET, SAND Oriskany DRILLING CONTRACTOR Columbian Carbon Co.
 COMPANY WILL FURNISH: RIG: YES NO WATER: YES NO FUEL: YES NO

APPROVALS

SUPT. John C. Martin DATE 5-14 1952 DATE _____ 19____
 DIVISION SUPT. J. A. Seese DATE 5-15 1952 PROD. MGR. H. C. Mefford, Jr. DATE 5-15 1952
 ENGINEER S. R. Ferrell DATE May 19 1952 GENERAL SUPT. Ira Good DATE 5-23 1952
 ASST. GEN. MGR. _____ DATE _____ 19____ VICE PRESIDENT J. J. Martin DATE 5-23 1952

DETAIL OF ESTIMATED COST

DETAIL OF ACTUAL COST

MATERIAL TO BE INSTALLED	SIZE	QUANTITY	PRICE	AMOUNT	SIZE	QUANTITY	PRICE	AMOUNT	VARIATION
Purchased Casing Conductor	16"	38'	2.60	99.00	16"	38'	2.56	97.30	(1.70)
"	6-5/8"	5128'	1.31	6,718.00	7"	5129'	1.098	5,631.64	(1,086.36)
TUBING	2"	5180'	.25	1,295.00	2"	5181'	.246	1,274.53	(20.47)
FITTINGS									
Midget B.H. Packer	6-5/8"	1		60.00	7"x8-5/8"	1		64.15	4.15
TOTAL MATERIAL				8,172.00				7,067.62	(1,104.38)
Original INSTALLATION OR RETIREMENT COST				XXXXX				XXXXX	XXXXX
LABOR				1,000.00				2,268.74	1,268.74
USE OF AUTO AND HAULING				2,000.00				7,143.17	5,143.17
RIGHT OF WAY									
DRILLING <u>5177</u> FEET @ <u>3.60</u> PER FOOT				18,637.00					
HAULING, ERECTING AND DISMANTLING RIG								5177' @ 3.5579	18,419.47 (417.53)
USE OF RIG									
FUEL				200.00					
TORPEDO									
SUPPLIES AND EXPENSE				100.00				800.86	100.86
Cement, Aquagel & Services				600.00					
ENGINEERING DEPARTMENT SURVEY									
STORES EXPENSE AND FREIGHT									
LABOR BENEFITS OVERHEADS									
ADMINISTRATIVE OVERHEADS									
TOTAL INSTALLATION ESTIMATED COST - Original				22,537.00				28,632.21	6,095.21
TOTAL ESTIMATE				30,709.00				35,699.86	4,990.86

07/07/2017

2-763-1402

1070034W

WORK ORDER

REQUEST NO. 4006 BUDGET NO. X-6 WORK ORDER NO. 4288
 DATE May 27 19 53 9-5178-53 DATE ISSUED 6-10 19 53

COMPANY United Fuel Gas Company DEPT. Production DISTRICT Clendenin
 PROPOSED WORK Remove 5181' of 2-3/8" Tubing.

KNOWN AS Well # 8049-Part Removal (X-58-7240) NO. _____ ORIGINAL INSTALLATION DATE _____
 PURPOSE AND NECESSITY To remove tubing in order to Recondition Well for Storage in Pool X-58.
 Reason for Retirement-Code No. 4

LOCATION: Well # 8049 - J. A. Ruble Farm.
 IN Steel Rural Wood West Virginia
DISTRIBUTION PLANT MAGISTERIAL DISTRICT TAXING DISTRICT COUNTY STATE

RELATED PROJECT WORK ORDER NO. 4289 FOR Well X-58-7240-Additions
 APPROVED BY John C. Martin APPROVED BY H. C. Mefford, Jr.

DETAIL OF EXPENDITURES

MATERIAL TO BE REMOVED RETIRED PRICE	SIZE	ESTIMATE		ACTUAL		VARIATION	
		QUANTITY	AMOUNT	QUANTITY	AMOUNT		
4# Steel Tubing - Sal.	.246	2-3/8	5181'	1,275.00	5097'	1,253.87	(21.13)
4# Steel Tubing - Junk		2-3/8	-	-	84'	-	-
TOTAL MATERIAL <u>Salvage</u>				1,275.00		1,253.87	(21.13)
REMOVED RETIREMENT COST							
Direct Labor				100.00		146.45	46.45
Use of Auto and Hauling Expense				65.00		32.21	(32.79)
				-		5.00	5.00
TOTAL REMOVED RETIREMENT COST				165.00		183.66	18.66
TOTAL ESTIMATED Net Salvage				(1,110.00)		(1,070.21)	39.79

INDICATE NORTH

SKETCH (CORRECT TO ACTUAL)

INVENTORY MAP NO. F-P-64/107
 Map Square - 64-107

RECEIVED
 Office of Oil and Gas
 JUN 7 2017
 WV Department of
 Environmental Protection

[Signature]
 07/07/2017

97-6-4288

10700304W

FORM CO 1140-P 0-53

WORK ORDER

REQUEST NO. 4007 BUDGET NO. 763 WORK ORDER NO. 4289
 DATE May 27, 19 53 11-5135-53 DATE ISSUED 6-9 19 53

COMPANY United Fuel Gas Company DEPT. (For Storage) Production
 PROPOSED WORK Recondition Well X-58-7240, and Install Heavier Equipment. DISTRICT Glendenin

KNOWN AS Well X-58-7240-Additions NO. _____ ORIGINAL INSTALLATION DATE _____
 PURPOSE AND NECESSITY To Recondition Purchased Well for Storage in Pool X-58.

LOCATION: Well X-58-7240 - J. A. Ruble Farm.
 IN Steel Rural Wood West Virginia
DISTRIBUTION PLANT MAGISTERIAL DISTRICT TAKING DISTRICT COUNTY STATE

RELATED PROJECT WORK ORDER NO. 4288 FOR Well #8049 Part Removal.
 APPROVED BY John C. Martin APPROVED BY H. C. Mafford, Jr.

DETAIL OF EXPENDITURES

MATERIAL TO BE INSTALLED	UNIT PRICE	SIZE	ESTIMATE		ACTUAL		VARIATION
			QUANTITY	AMOUNT	QUANTITY	AMOUNT	
9.20# Steel Tubing	.93	4-1/2"	5200'	4,836.00	5132'	6,818.34	1,982.34
Wall & Anchor Packer		4"x6-5/8"	1	200.00	1	209.45	9.45
Orbit Gate Valve-Comp.		4"	1	475.00	1	508.20	33.20
Nord. Fig. 2349 P.Valve-Comp.		4"	1	400.00	1	366.04	(33.96)
Casing Centralizers	14.00	4"x7"	11	154.00	-	-	(154.00)
Bull Plug		4"	1	12.00	1	3.98	(8.02)
Welded Tee		4"	1	11.00	-	-	(11.00)
Anchor Clamps		4"	1	30.00	1	7.35	(22.65)
Turnbuckles	13.00	1-1/2"x18"	2	26.00	2	24.36	(1.64)
Welding Neck Flanges 900#	25.00	4"	8	200.00	8	223.89	23.89
Fittings				65.00	-	46.19	(18.81)
TOTAL MATERIAL	<u>See Below</u>			<u>6,109.00</u>		<u>8,271.64</u>	<u>1,862.64</u>
INSTALLATION							
Direct Labor				1,000.00		1,775.34*	775.34
Use of Auto and Hauling				900.00		1,871.25*	971.25
Tools, Supplies and Misc. Expense				250.00		234.47	(15.53)
Damages- Water Well - Ica P. Williamson				-		600.00	600.00
Hauling, Erecting and Dismantling Spudder				350.00		-	(350.00)
Cement & Services				1,200.00		2,088.12	888.12
Fuel Gas				-		26.00	26.00
Stores Expense and Freight				647.00		915.50	268.50
Labor Benefits Overheads				184.00		318.94	134.94
Administrative Overheads				57.00		83.40	26.40
Interest				-		76.70	76.70
TOTAL INSTALLATION	<u>See Below</u>			<u>4,588.00</u>		<u>7,989.72</u>	<u>3,401.72</u>
TOTAL ESTIMATE				<u>10,997.00</u>		<u>16,261.36</u>	<u>5,264.36</u>

INDICATE NORTH _____ SKETCH (CORRECT TO ACTUAL) _____ INVENTORY MAP NO. None

Note: Move in Bucyrus Erie Spudder, and String of Cleaning Out Tools. Pull 5181' of 2-3/8" Tubing, and Clean Well Out. Run 5200' of 4-1/2" Tubing on Wall and Anchor Packer. Cement between 6-5/8" Casing & 4-1/4" Tubing to Surface. Install heavier Equipment, shut Well in, and report results.

Material Installed

Anchor Clamps	6-5/8"x36"	-	-	1-set	55.06	55.06
Casing Coupling	6-5/8"	-	-	1	8.78	8.78

* Included in use of auto and Direct Labor

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WV Department of Environmental Protection
07/07/2017

2-763-4289

COMPLETION REPORT

MAKE NECESSARY REVISIONS ON SKETCH TO SHOW WORK ACTUALLY PERFORMED. INDICATING LOCATION AND DIMENSIONS OF SPECIAL CONSTRUCTION.

FOR LINE WORK ON ESTABLISHED STREET OR HIGHWAY. INDICATE ON SKETCH THE DISTANCE OF LINE FROM ADJOINING PROPERTY. ALSO PORTION UNDER PAVING.

WHEN LINE EXTENDS INTO TWO OR MORE TAX DISTRICTS. LIST BELOW PORTION INSTALLED OR RETIRED. IN EACH

_____ FT. OF _____	_____ SIZE _____	_____ KIND _____	_____ TOWN _____	_____ DIST. _____	_____ COUNTY _____
_____ FT. OF _____	_____ SIZE _____	_____ KIND _____	_____ TOWN _____	_____ DIST. _____	_____ COUNTY _____
_____ FT. OF _____	_____ SIZE _____	_____ KIND _____	_____ TOWN _____	_____ DIST. _____	_____ COUNTY _____
_____ FT. OF _____	_____ SIZE _____	_____ KIND _____	_____ TOWN _____	_____ DIST. _____	_____ COUNTY _____

MATERIAL INSTALLED OR RETIRED			MATERIAL INSTALLED OR RETIRED		
QUANTITY	SIZE	DESCRIPTION	QUANTITY	SIZE	DESCRIPTION
532'	4-1/2"	Tubing Hydril Sm'l. Gr. J. 12.24#			
1	4"	Valve Orbit Steel Flg. 3000# WOG			
1	4"	Valve Plug Nord Flg. 2349 2000# WOG			
1	4"	Clamps Anchor			
1	4"	X 6-5/8" X 2 1/2" Packer Ferrisoo Wall & Anchor			
8	4"	Flanges Drl. W/N Ser. 90 F S			
1	4"	Plug Bull Steel X S			
48	1-1/8" X 6-3/4"	Bolts All Thread			
2	1-1/4" X 2 1/2"	Bolts Hair Pin			
6	4"	Gaskets Ring Oval Steel			
1	6-5/8"	Clamps Anchor			
2	1-1/2" X 18"	Turnbuckles			
1	6-5/8"	Coupling Casing			
1	1/2"	Valve Steel Needle Screw			
669		Sacks Cement Well Quick Drying			

MATERIAL TRANSFER NUMBERS ~~June, 1953. # 217-August-N-11-214-249-267-September-87-89-October-N-30-N-31-N-32-110-111.~~

PIPE COATING			ORIGINAL INSTALLATION DATES OF PROPERTY RETIRED		
QUANTITY	KIND	FT. OF PIPE	QUANTITY	KIND	DATE

TYPE OF JOINTS Steel Tubing EXCAVATION: BY HAND _____ FT. MACHINE _____ FT. WIDTH OF TRENCH _____ FT. AVG. DEPTH _____ FT. TYPE OF PAVING _____ PAVING CUT: WIDTH _____ FT. LENGTH _____ FT. DESCRIBE NATURE OF SOIL: Storage Well REPORT UNUSUAL CONDITIONS ENCOUNTERED IN CONSTRUCTION:	INFORMATION TO BE FURNISHED FOR SMALL STRUCTURES: OUTSIDE DIM: LENGTH _____ WIDTH _____ HEIGHT TO EAVES _____ HEIGHT TO RIDGE _____ FOUNDATION: KIND _____ FOUNDATION: THICKNESS _____ HEIGHT ABOVE GROUND _____ DEPTH BELOW GROUND _____ FLOOR: KIND _____ THICKNESS _____ WALL: KIND _____ THICKNESS _____ ROOF: TYPE _____ KIND _____ DOORS: NO. _____ SIZE _____ KIND _____ WINDOWS: NO. _____ SIZE _____ KIND _____ PAINTING _____ MISCELLANEOUS _____
---	--

REASON FOR OVERRUN, UNDERRUN: **Labor, Use of Auto, Cement and Services overran the estimate due to cementing between all strings of casing including the space between the conductor pipe and the hole which was not anticipated. More water had to be hauled than estimated due to the dry weather. Used Hy-drill Tubing instead of regular Tubing as estimated.**

DATE WORK STARTED **June 8,** 19 **53** DATE WORK COMPLETED **August 30,** 19 **53**
 COMPILED BY **Donald D Rucker** DATE **10/13/** 19 **53** APPROVED BY **Chas C. [Signature]** DATE **10-16** 19 **53**

10700304W

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WW-2A
(Rev. 6-14)

JUN 7 2017

WV Department of
Environmental Protection

1.) Date: 4/10/2017
2.) Operator's Well Number Rockport 7240
State County Permit
3.) API Well No.: 47- 107 - 00304

**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 Dale R. & Martha L. Archer Address 11 Oakwood Dr Mineral Wells, WV 26150
(b) Name _____ Address _____
(c) Name _____ Address _____
5) (a) Coal Operator Name _____ Address _____
(b) Coal Owner(s) with Declaration Name _____ Address _____
(c) Coal Lessee with Declaration Name _____ Address _____
6) Inspector Jamie Stevens Address 105 Kentuck Rd Kenna, WV 25248 Telephone 304-206-7775

TO THE PERSONS NAMED ABOVE TAKE NOTICE THAT:

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

OR
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:

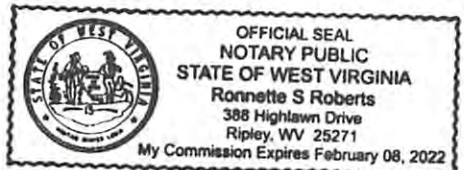
- Personal Service (Affidavit attached)
- X Certified Mail (Postmarked postal receipt attached)
- Publication (Notice of Publication attached)

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.

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



Subscribed and sworn before me this 1st day of June, 2017, 00304

Ronnette S Roberts Notary Public
My Commission Expires Feb 8, 2022

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

07/07/2017

**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
Ica Pearl Williamson and Wm. Williamson	Columbia Gas Transmission, LLC	Storage lease 52280	377 / 228

**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

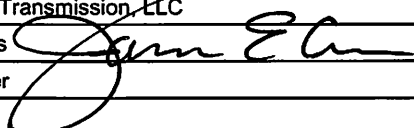
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Environmental Protection

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

10700304W

WW-2B1
(5-12)

Well No. Rockport 7240

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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07/07/2017

WW-9
(5/16)

JUN 7 2017

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API Number 47 - 107 - 00304
Operator's Well No. Rockport 7240

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

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.

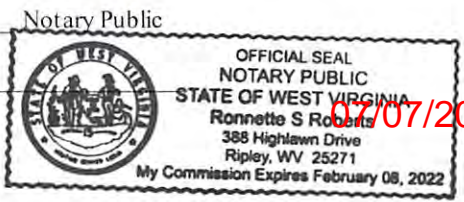
I certify under penalty of law that I have personally examined and am familiar with the information submitted on this application form and all attachments thereto and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is 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 *James E. Amos*
Company Official (Typed Name) James E. Amos
Company Official Title Senior Well Services Engineer

Subscribed and sworn before me this 15th day of June, 2017

Ronnette S Roberts

My commission expires Feb 8, 2022



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
<u>Annual Rye</u>	<u>40</u>	<u>Orchard Grass and/or Tall Fescue</u>	<u>29</u>
		<u>Birdsfoot Trefoil (Empire)</u>	<u>9</u>
		<u>Annual Rye</u>	<u>12</u>

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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Plan Approved by: JUN 7 2017

Comments: WV Department of Environmental Protection

Rework OK.

5/31/2017
Janie Stevens

Title: _____ Date: _____

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: Archer, Ellsworth & Oncie

- 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 890 ft to the NW.

The closest Well Head Protection Area is 0.7 miles from ZPC (WVSID WV3305402 - Claywood Park PSD). Refer to enclosed assessment letter dated 1/5/17 from Department of Health and Human Resources, Source Water Assessment and Protection department.

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

N/A

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JUN 7 2017
WV Department of
Environmental Protection

- 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.

Signature: *James E. Carr*
Date: 4/12/17

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WV Department of Environmental Protection 07/07/2017

10700304w



STATE OF WEST VIRGINIA
DEPARTMENT OF HEALTH AND HUMAN RESOURCES
BUREAU FOR PUBLIC HEALTH
OFFICE OF ENVIRONMENTAL HEALTH SERVICES

Earl Ray Tomblin
Governor

Karen L. Bowling
Cabinet Secretary

January 05, 2017

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William Timmermeyer
CESSWI
Natural Resource Permitting Principal
TransCanada | Columbia Pipeline Group
1700 MacCorkle Ave., SE
Charleston, WV 25314

WV Department of
Environmental Protection

Re: SWAP Information Request –

Dear Mr. Timmermeyer:

In response to the informational request dated January 4, 2017 concerning the closest Protection Areas to the indicated **seven (7) wells**, we have found the following:

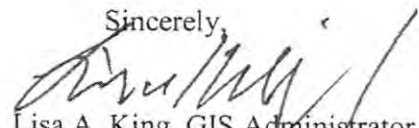

ID	Well Name	Distance	PWSID	System Name
1	Coco A well 7106	within the ZPC	WV3302016	WVAWC KANAWHA VALLEY DIST
2	Glady well 7464/Glady well 7465/Glady well 7467/Glady well 12371	1 mile from WHPA	WV9942049	USFS MIDDLE MOUNTAIN CABINS - HP
		6.2 from ZCC	WV3304202	TOWN OF BEVERLY
		7.0 miles from ZPC	WV3304202	TOWN OF BEVERLY
3	Ripley well 7294	3.8 miles from ZPC	WV3301811	CITY OF RIPLEY
		5 miles from ZCC	WV3301811	CITY OF RIPLEY
		5 miles from WHPA	WV3301810	RAVENSWOOD MUNICIPAL WATER
4	Rockport well 7240	0.7 miles from ZPC	WV3305402	CLAYWOOD PARK PSD

We are now putting up all of our active protection areas for download at this location, https://www.wvdhhr.org/oehs/eed/swap/GISTA_Downloads.asp.

We do not have information regarding private drinking wells in the area. I suggest you contact the county health department for this information.

I hope the information provided helps you with the completion of your project. If you have any questions, please do not hesitate to contact me at (304) 356-4309.

Sincerely,


Lisa A. King, GIS Administrator
Source Water Assessment and Protection 

CC: William J. Toomey

10700304w

WV DEP Reclamation Plan - Overview

Rockport Well 7240 (API 107-00304)

- 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

Rockport - 07240

existing access road

Driving Directions

I-77N to Rockport exit (~10 miles south of Mineral Wells)
Right off exit ramp on to Rt 21 S
1.1 miles turn left on to lease road
0.1 mile to well site

21

Google earth

© 2016 Google



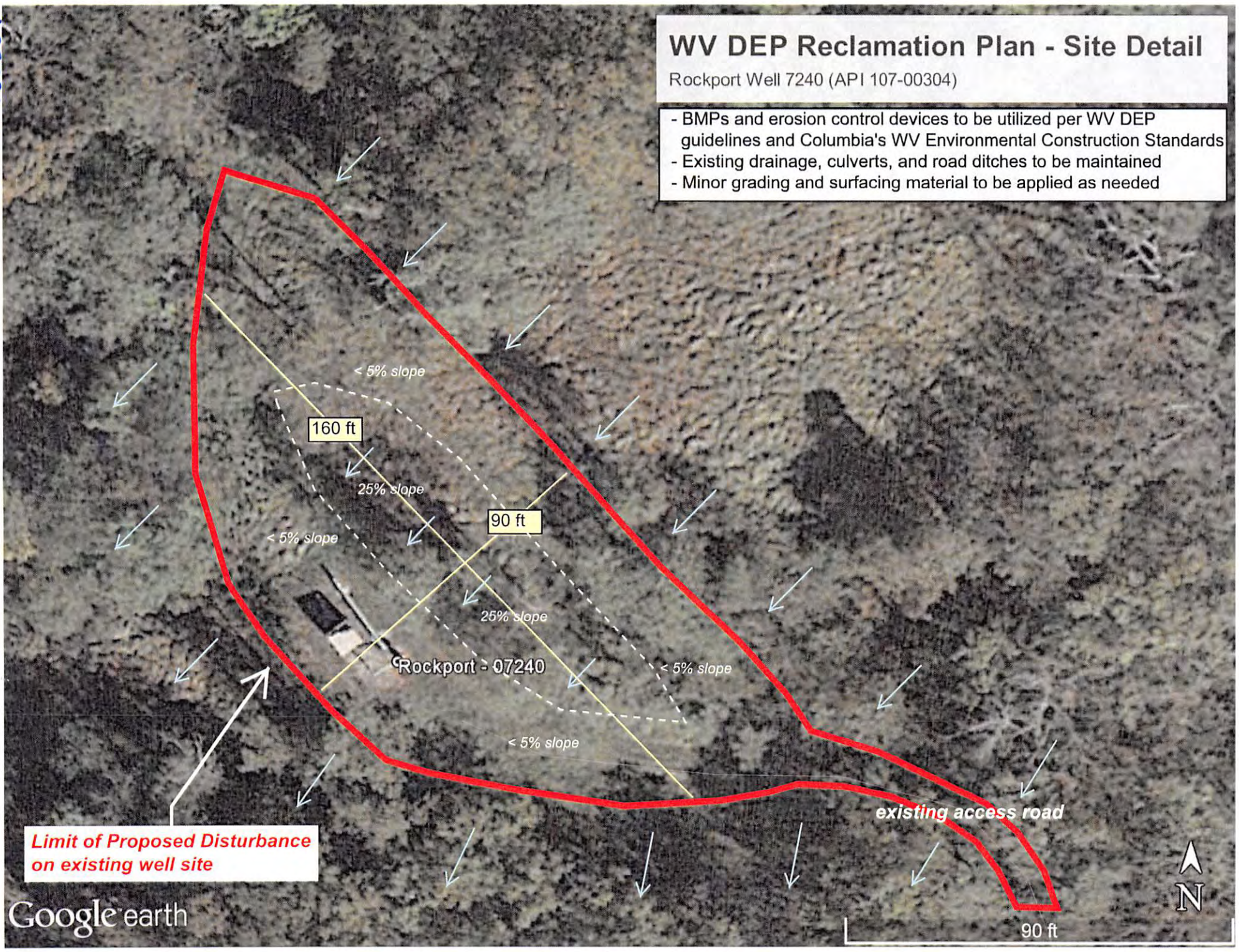
300 ft

10700304W

WV DEP Reclamation Plan - Site Detail

Rockport Well 7240 (API 107-00304)

- 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

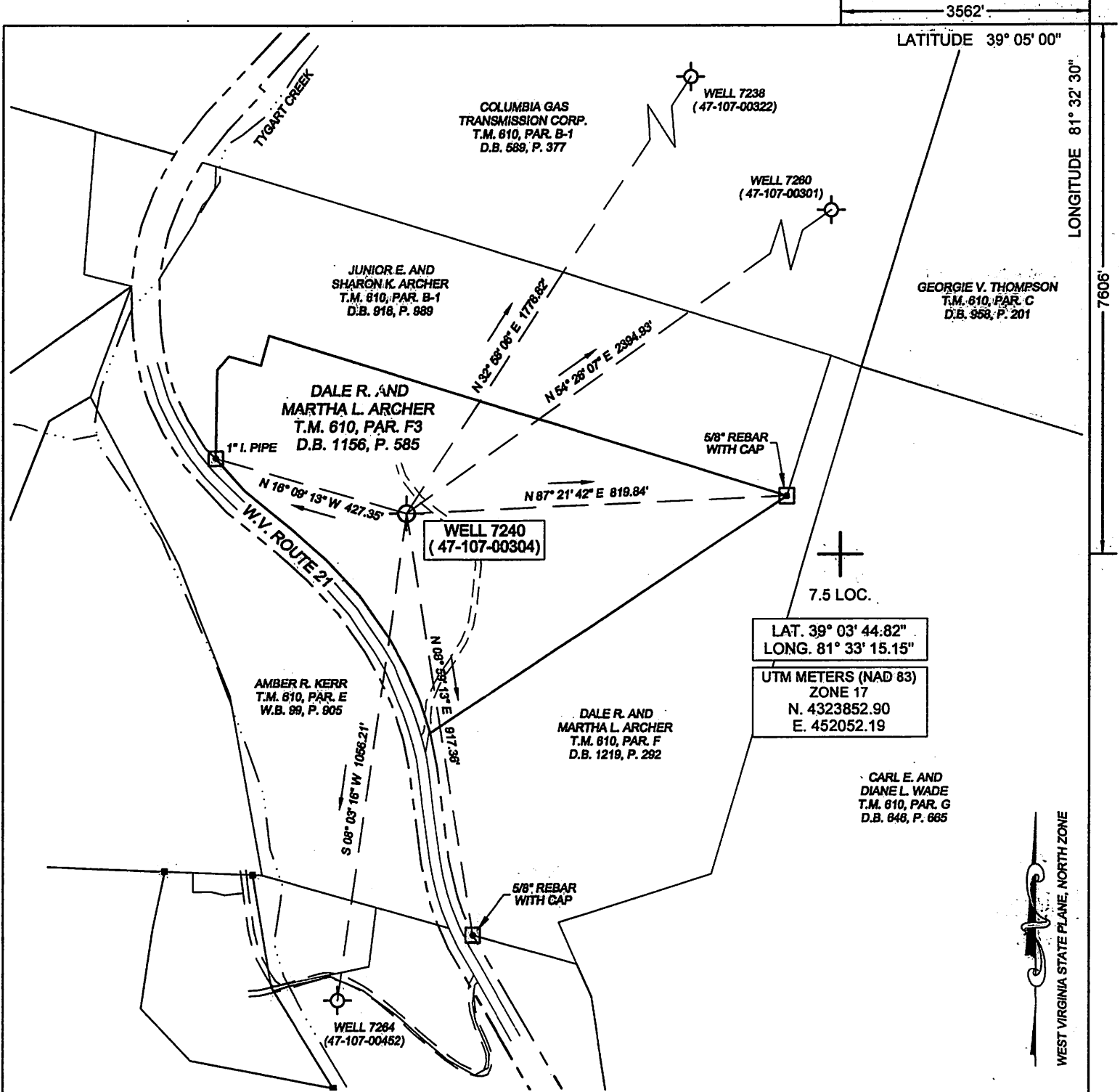


Limit of Proposed Disturbance on existing well site

Google earth



90 ft

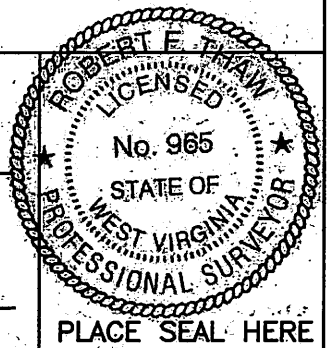


(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS

FILE No. 1701-2345-001-008
 DRAWING No. Rockport-7240
 SCALE 1"=300'
 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) [Signature]
 ROBERT F. THAW PS #965



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



DATE FEBRUARY 28 2017
 OPERATOR'S WELL No. 7240
 API WELL No.

WELL TYPE: OIL GAS LIQUID INJECTION WASTE DISPOSAL STATE 47 COUNTY 107 PERMIT 00304W
 (IF "GAS") PRODUCTION STORAGE DEEP SHALLOW
 LOCATION: ELEVATION 908.5' WATER SHED TYGART CREEK
 DISTRICT STEELE COUNTY WOOD
 QUADRANGLE ROCKPORT, WV

SURFACE OWNER DALE R. ARCHER AND MARTHA L. ARCHER ACREAGE 11.37
 OIL & GAS ROYALTY OWNER ICA PEARL WILLIAMSON LEASE ACREAGE 33
 LEASE No. 52280

PROPOSED WORK: DRILL CONVERT DRILL DEEPER REDRILL FRACTURE OR STIMULATE PLUG OFF OLD FORMATION PERFORATE NEW FORMATION OTHER PHYSICAL CHANGE IN WELL (SPECIFY) 07/07/2017

PLUG AND ABANDON CLEAN OUT AND REPLUG
 TARGET FORMATION ORISKANY ESTIMATED DEPTH 5160
 WELL OPERATOR COLUMBIA GAS TRANSMISSION, LLC DESIGNATED AGENT PAUL AMICK
 ADDRESS PO BOX 1273, CHARLESTON, WV ADDRESS P.O. BOX 1273, CHARLESTON W.V.
25325-1273 25325-1273

FORM IV-6 (8-748)