



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

Earl Ray Tomblin , Governor
Randy C. Huffman , Cabinet Secretary
www.dep.wv.gov

Friday, September 30, 2016
WELL WORK PERMIT
Vertical / Plugging

COLUMBIA GAS TRANSMISSION, LLC
P. O. BOX 1273

CHARLESTON, WV 253251273

Re: Permit approval for 7253
47-107-00281-00-00

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: 7253
Farm Name: PROVINCE, P. E., ETAL
U.S. WELL NUMBER: 47-107-00281-00-00
Vertical / Plugging
Date Issued: 9/30/2016

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.

CONDITIONS

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

1) Date 8/12, 2016
2) Operator's
Well No. Rockport 7253
3) API Well No. 47-107 - 00281

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

APPLICATION FOR A PERMIT TO PLUG AND ABANDON

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

5) Location: Elevation 1001.5 ft (305.3 m) Watershed Pond Creek
District Steele County Wood Quadrangle Rockport, WV

6) Well Operator Columbia Gas Transmission, LLC 7) Designated Agent Paul Amick
Address 1700 MacCorkle Ave SE Address 1700 MacCorkle Ave SE
Charleston, WV 25325-1273 Charleston, WV 25325-1273

8) Oil and Gas Inspector to be notified Name Jamie Stevens
Address 105 Kentuck Road
Kenna, WV 25248
9) Plugging Contractor Name Contractor Services Inc
Address 929 Charleston Rd
Spencer, WV 25276

10) Work Order: The work order for the manner of plugging this well is as follows:
* refer to "prior to P&A" and "proposed P&A" wellbore schematics
Kill well. Obtain cement bond log. Clean out well to base of Oriskany sandstone. Install bottom cement plug 4600 ft to TD. Set mechanical bridge plug @ +/- 4600 ft. Spot cement plug from top of BP to 3700 ft, 6% gel to 2500 ft, and cement plug to depth of cement top behind 3-1/2" tubing (per CBL). Attempt to pull 8-5/8" csg. Cut/pull all uncemented tubing/casing that is free, except for the outer most casing (leave casing in well in the event future wellbore intervention required). Install cement plug from top of last plug to surface. Grout all uncemented annuli as deep as possible. Install monument with API number.

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

Work order approved by inspector  Date 9-1-2016

Rockport - 07253

6666 Well Work

3. Well Services Scoping

Well Services Engineer Amos
 Date 9/17/2015
 PreBuild Data Verificaiton

Labor	\$0
Materials	\$0
Outside Services	\$0
Misc	\$0
Overheads	\$0
Retirement Costs	\$280,000
Total Costs	\$280,000

Detailed Scope

ROCKPORT 7253 (OB)

---- Objective -----
P&A well.

---- Well Info -----
API 47-107-00281

Drilled in 1949
Reconditioned in 1953

Threaded production style wellhead

* Refer to wellbore schematic in well file

- 16" csg @ 16' (no record of cement)
- 13-3/8" csg 121 - 885' (likely cmt'd to surface - poured down annulus)
- 10-3/4" csg 965 - 1235' (likely cmt'd to surface - poured down annulus)
- 8-5/8" csg @ 2162' (likely cmt'd to surface - 437 bags poured between 8-5/8" x 16" annulus)
- 7" 22# csg 2100 - 4985' (150 ft cmt'd primary - likely cmt'd to surface by pouring down annulus)
- 3-1/2" tubing @ 5131' set on Parmaco Wall & Anchor packer - CCL response indicated packer may be 5065 - 70' - slotted/perf'd anchor likely below packer (likely cmt'd to surface - 703 bags poured between 3-1/2" x 8-5/8" annulus in 6 trips to well)

Elog Formation Topos

Salt Sand	1489 - 1546'	(1 bailer SW @ 1525')
Salt Sand	1653 - 1794'	(1 bailer SW @ 1690')
Salt Sand	1844 - 2038'	(3 bailers per hour SW @ 1875' - heavy SW @ 1935')
Little Lime	2038 - 2043'	
Big Lime	2064 - 2096'	
Loyalhanna Big Lime	2114 - 2144'	(no show reported)
Pocono Big Injun	2144 - 2209'	(no show reported)
Weir	2232 - 2284'	(no show reported)
Berea horizon	2490 - 2498'	(no show reported)
Devonian Shale	2498 - 4966'	(gas show @ 3840')
Marcellus	4966 - 4978'	(no show reported)
Onondaga	4978- 5088'	
Oriskany	5088 - 5114?'	(storage zone)
TD	5131 ft	(driller)

Geo Notes: Although well is located on western edge of field, and significantly structurally up-dip, field reports suggest a history of fluid production. Evaluate CBL for possible path of communication from shallower formations with driller's shows of fluid.

Most current AOF 552 MCFD in 1949
Top historical AOF 552 MCFD in 1949

Shot across Oriskany.

No CBL ran to-date

---- Procedure -----
Obtain State plugging permit and NRP clearances.

Note that WV DEP State Inspector must be contacted prior to commencing, and during all cement jobs. Consult with State Inspector as work progresses to ensure procedures are approved.

Prep road and well site.

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Environmental Protection

Rockport - 07253

6666 Well Work

Kill well. MI wireline unit and run cement bond log from TD to surface.

*** NOTE THAT CBL RESULTS MAY ALTER FOLLOWING PROCEDURE

NU BOPs. Clean to TD if Oriskany not uncovered. TIH open-ended with 2-1/16" CS hydril tbg and spot bottom cement plug from 4600' to TD. PU above cement top and reverse circulate to clean tubulars. Pull 2 stands, close BOPs, and WOC. Tag cement top to verify depth.

MI wireline unit. Run guage ring and set cast iron DBP above cement plug. Pressure test BP to 500 psig (surface).

TIH and spot cement plug from top of BP to 3700 ft, 6% gel to 2500 ft, and then cement plug to depth of cement top behind 3-1/2" tbg. TOOH.

Remove concrete pad and uncover all casing tops.

Attempt to pull 8-5/8" csg if not cemented (per CBL).

Cut/pull all casing that is free except for outer most csg (leave in well in the event future wellbore intervention is required).

Grout all uncemented annuli as deep as possible, and top off well with cement.

Stab a short piece of 7" csg in well before top cement plug cures, leaving ~30" above grade. Tack weld steel cap (do not seal) and tack weld "API 00281" on side of monument.

Reclaim R&L.

4. Post Work Data Processing

	<u>Date</u>	<u>Updated by</u>
<input type="checkbox"/> As-Built Data Book Received		
<input type="checkbox"/> Maximo Updated		
<input type="checkbox"/> WellView Updated		
<input type="checkbox"/> CAP Updated		
<input type="checkbox"/> Log Database Updated		

Approved by Reservoir Engineer

Engineer _____

Date 9/21/2012

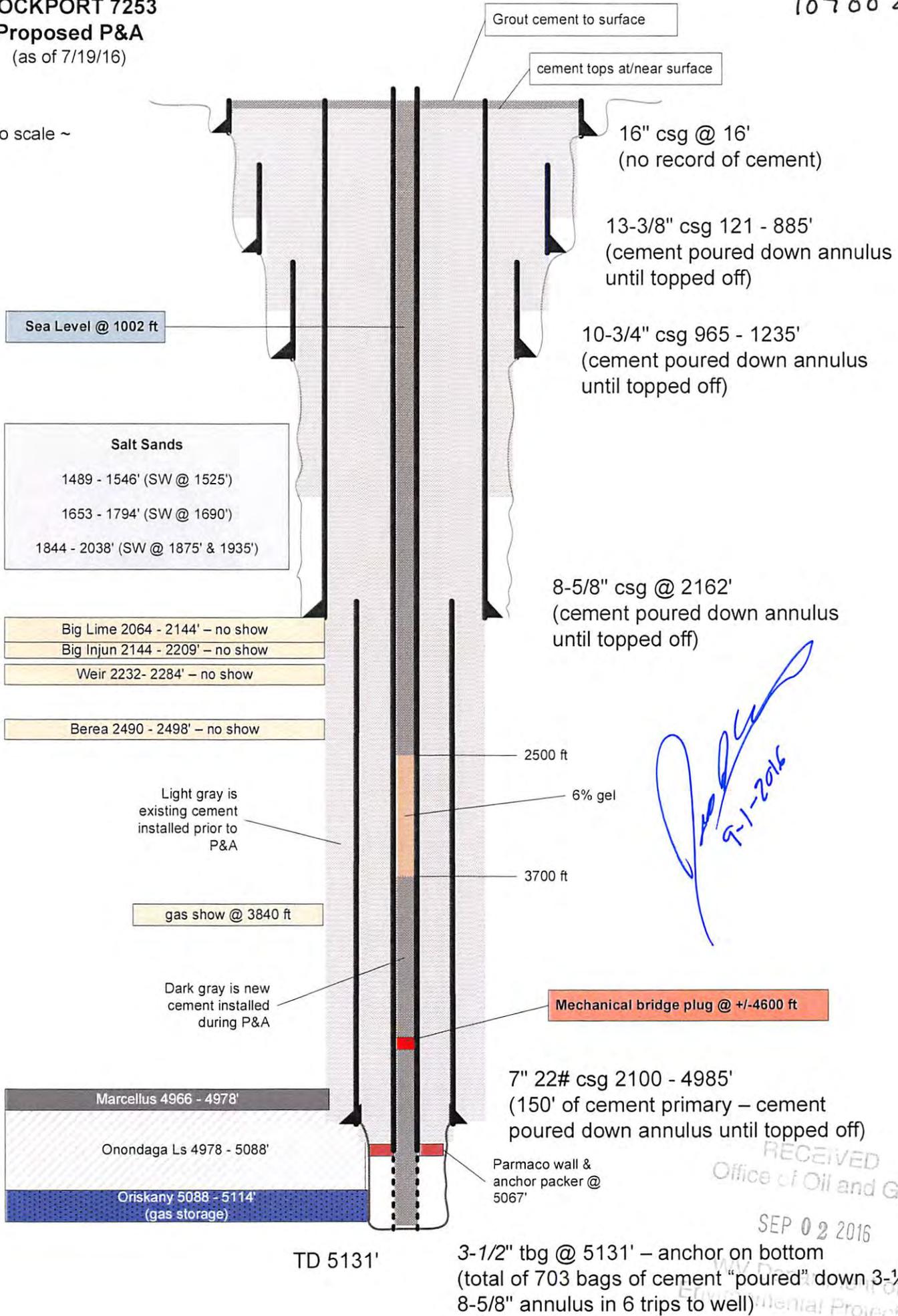
General Comments:

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ROCKPORT 7253
Proposed P&A
 (as of 7/19/16)

10700281P

~ not to scale ~



Handwritten signature
 9-1-2016

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 Environmental Protection

TD 5131'

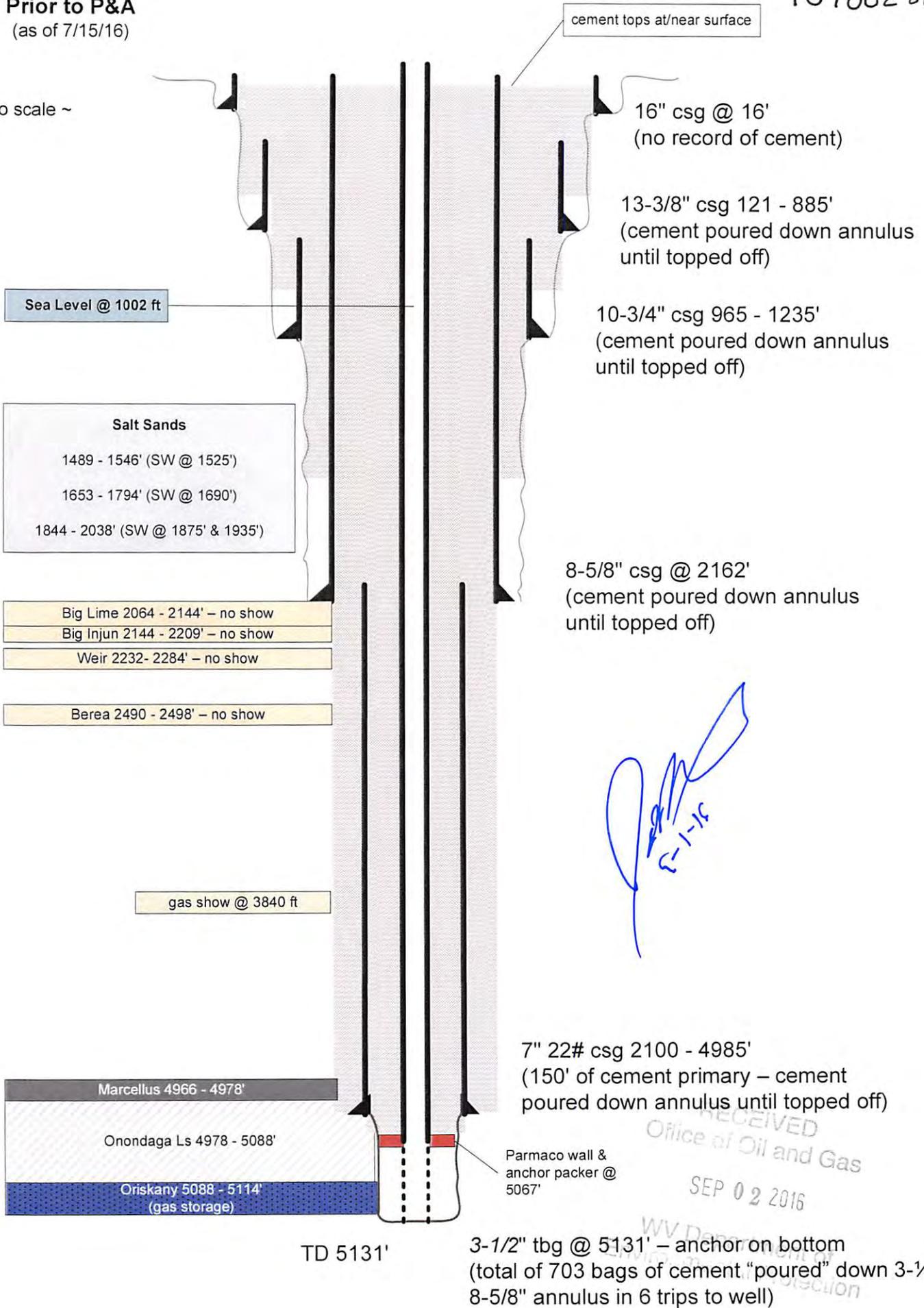
ROCKPORT 7253

Prior to P&A

(as of 7/15/16)

10700281 P

~ not to scale ~



Handwritten blue scribble with "5-1-16" written inside.

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WV Department of Environmental Protection

WEST VIRGINIA DEPARTMENT OF MINES
OIL & GAS DIVISION
WELL RECORD

Permit No. Woo 281
Belleville Quad.
Company
Address
Farm
Location
Well No.
District
Surface
Mineral
Commenced
Completed
Date shot

United Carbon Company
Box 1913, Charleston 27, W. Va.
P. E. Province et al A 85
Pond Creek
1(1639) Elev. 1011.7' Gr.
Steale Wood County

Glen Brown et al, Rockport, W.Va.
April 28, 1949
Aug. 17, 1949
8-19-49 Depth 5097 to 5126 1/2
with 90 qts. nitroglycerine
86/10ths W in 2"
369,000 C.F.
1420 lbs. 36 hrs.
1525' 1 blr.; 1690' 1 blr.; 1875' 3 BPH
1935' H.F.

Gas Well
CASING & TUBING

16	16	16
13-3/8	885	885
10-3/4	1235	1235
8-5/8	2162	2162
7 OD	4985	4985
2	5131	5131

Casing cemented:
7" 150' ✓

Open flow
Volume
Rock Pressure
Salt Water

Surface	0	5
Red Rock	5	30
Slate	30	75
Red Rock	75	100
Lime	100	150
Red Rock	150	172
Slate	172	205
Sand	205	265
Slate	265	325
Red Rock	325	355
Slate	355	400
Shell Sandy	400	412
Slate	412	430
Red Rock	430	440
Lime	440	445
Red Rock	445	500
Slate White	500	555
Sand	555	565
Red Rock	565	580
Slate Blue	580	620
Lime	620	640
Red Rock	640	655
Slate Blue	655	680
Red Rock	680	710
Slate	710	745
Red Rock	745	765
Slate Blue	765	780
Sand	780	873
Slate Blue	873	900
Red Rock	900	915
Sand	915	975
Slate Wh	975	985
Red Rock	985	1015
Slate & Shells	1015	1030
Red Rock	1030	1080
Slate Blue	1080	1150
Red Rock	1150	1205
Sand	1205	1225
Slate & Shells	1225	1310
Sand	1310	1345
Slate & Shells	1345	1360
Lime Broken	1360	1435
Slate & Shells	1435	1475
Sand	1475	1840
Slate & Shells	1540	1625
Lime	1625	1650
Sand	1650	1723
Slate & Shells	1723	1793
Sand	1793	1807

Slate & Shells	1807	1840
Sand	1840	2005
Big Lime	2005	2055
Lime Gritty	2055	2222
Slate & Shells	2222	2465
Shale Brown	2465	2475
Slate & Shells	2475	3985
Shale Brown	3985	4085
Slate	4085	4125
Shale Brown	4125	4250
Slate White	4250	4690
Shale Brown	4690	4974
Corniferous Lime	4974	5097
Oriskany Sand	5097	5126
Lime	5126	
Total Depth		5226
Plugged back to	5131	

Gas 3640' show
Gas 5099 2/10 W 2" 60 HEP

24-372-25

10700281A

FORM CG 1-14-53 P. C. 80

WORK ORDER

REQUEST NO. 3982 BUDGET NO. 763 WORK ORDER NO. 4174
 DATE May 13 19 53 10-5135-53 DATE ISSUED 5-22 19 53

COMPANY United Fuel Gas Company DEPT. Production (For Storage) DISTRICT Clendenin
 PROPOSED WORK Clean Out Well X-58-7253, and Install Heavier Equipment.

KNOWN AS Well X-58-7253 - Additions. NO. ORIGINAL INSTALLATION
 PURPOSE AND NECESSITY To Recondition Well which was Purchased for Storage in POOL X-58.

LOCATION: Well X-58-7253 - P.E. Province et al
 IN Steel Rural Wood West Virginia
DISTRIBUTION PLANT MAGISTERIAL DISTRICT TOWNING DISTRICT COUNTY STATE

RELATED PROJECT WORK ORDER NO. 4173 FOR Well X-58-7253-Part Removal.
 APPROVED BY John C. Martin APPROVED BY H. C. Mefford, Jr.

DETAIL OF EXPENDITURES							
MATERIAL TO BE INSTALLED	UNITED PRICE	SIZE	ESTIMATE		ACTUAL		VARIATION
			QUANTITY	AMOUNT	QUANTITY	AMOUNT	
Steel Tubing 9.20#	.76	3-1/2"	5131'	3,900.00	5193'	4,096.20	196.20
Wall & Anchor Packer		3"x7"	1	190.00	1	175.11	(14.89)
Orbit Gate Valve - Comp.		3"	1	410.00	1	356.95	(53.05)
Nord. Fig. 2349 P. Valve - Comp.		3"	1	335.00	1	288.78	(46.22)
Casing Centralizers	13.50	3"x7"	11	149.00	12	336.00	187.00
Tubing Anchor Clamps		3"	1	30.00	1	16.66	(13.34)
Turnbuckles	13.00	1-1/2"x18"	2	26.00	2	24.36	(1.64)
Welding Neck Flanges 900#	20.00	3"	8	160.00	8	139.60	(20.40)
Welded Tee		3"	1	10.00	1	10.25	.25
Bull Plug		3"	1	12.00	1	11.30	(.70)
Fittings				40.00		32.83	(7.17)
TOTAL MATERIAL				5,262.00		5,488.04	226.04
INSTALLATION EXPENSE COST							
Direct Labor				1,200.00		2,208.96*	1,008.96
Use of Auto and Hauling				1,200.00		2,290.23*	1,090.23
Tools, Supplies & Misc. Expense				365.00		282.77	(82.23)
Hauling, Erecting & Dismantling Spudder				350.00		- *	(350.00)
Cement & Services				1,200.00		2,760.75	1,560.75
Fuel Gas				-		82.00	82.00
Interest				-		55.35	55.35
Stores Expense & Freight				531.00		696.48	165.48
Labor Benefits Overheads				221.00		409.18	188.18
Administrative Overheads				54.00		72.88	18.88
TOTAL INSTALLATION EXPENSE COST				5,121.00		8,858.60	3,737.60
TOTAL ESTIMATE				10,383.00		14,346.64	3,963.64

INDICATE NORTH SKETCH (CORRECT TO ACTUAL) INVENTORY MAP NO. None
 Map Square - 64-107

Note: Move in Bucyrus Erie Spudder, and String of Cleaning Out Tools. Pull 5131' of 2" Tubing, Cut and pull 2100' of 7" Casing, pull 1235' of 10-3/4" and 885' of 13-3/8" Casing. Clean Well out, and run 5131' of 3-1/2" Tubing on Wall & Anchor Packer. Cement between 3-1/2" & 7" & 8" Casing to surface. Install Heavy Equipment, and report results.

* Included in use of auto and Direct Labor

2-763-4174

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

MATERIAL INSTALLED OR RETIRED			MATERIAL INSTALLED OR RETIRED		
QUANTITY	SIZE	DESCRIPTION	QUANTITY	SIZE	DESCRIPTION
5193'	3-1/2"	Tubing New Sm'l. Gr. J. 9.20#			
1	3"	Valve Gate Orbit Flg. 3000# WOG			
1	3"	Valve Plug Nord Fig. 2349 Flg. 2000# WOG			
1	3"	X 7" X 2 1/2" Packer Parmaco Wall & Anchor			
1	3"	Tee Welding Sm'l. Gr. B.			
1	3"	Plug Bull XX S			
6	3"	Gaskets Ring Oval Steel			
8	3"	Flanges W/N Drl. FS Ser. 90			
1	1/2"	Valve Needle Steel Screw			
12	3-1/2" X 7"	Centralizers Casing			
48	7/8" X 5-3/4"	Bolts Stud Regular			
1	3-1/2"	Clamps Anchor			
2	1-1/2" X 18"	Turn Buckles			
2	1-1/4" X 2 1/2"	Bolts Hair Pin			
200-		Sacks Cement			
866		Sacks Cement Well Quick Drying			
6		Sacks Aquagel			
50#		Thread Lube			

MATERIAL TRANSFER NUMBERS: June, 1953. # N-68-N-70-N-71-72-N-73-July-167-168-200-242-255-August-N-30-51-52-128-218-238-October-N-14-N-25-N-27.

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

TYPE OF JOINTS <u>Steel Tubing</u> 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: <u>Storage Well</u> 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 the 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.

DATE WORK STARTED June 16, 19 53 DATE WORK COMPLETED August 15, 19 53
 COMPILED BY Donald D Rucker DATE 10/14/ 19 53 APPROVED BY [Signature] DATE 10-16 19 53

WW-4A
Revised 6-07

1) Date: 8/12/16
2) Operator's Well Number
Rockport 7253
3) API Well No.: 47 - 107 - 00281

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

4) Surface Owner(s) to be served:	5) (a) Coal Operator
(a) Name <u>Adam R. & Jennifer A. Cooper</u>	Name <u>not operated</u>
Address <u>144 Barton Ln</u>	Address _____
<u>Rockport, WV 26169</u>	_____
(b) Name _____	(b) Coal Owner(s) with Declaration
Address _____	Name _____
_____	Address _____
(c) Name _____	Name _____
Address _____	Address _____
_____	_____
6) Inspector <u>Jamie Stevens</u>	(c) Coal Lessee with Declaration
Address <u>105 Kentuck Road</u>	Name _____
<u>Kenna, WV 25248</u>	Address _____
Telephone <u>304-206-7775</u>	_____

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

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

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

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

Well Operator	<u>Columbia Gas Transmission, LLC</u>
By:	<u>Jim Amos</u> <i>Jamie E. Amos</i>
Its:	<u>Senior Well Services Engineer</u>
Address	<u>48 Columbia Gas Rd</u>
	<u>Sandyville, WV 25275</u>
Telephone	<u>304-483-0073</u>

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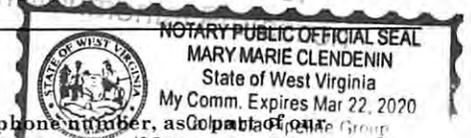
SEP 02 2016
2016

Subscribed and sworn before me this 12th day of August
Mary Marie Clendenin
My Commission Expires 3/22/2020

Notary Public
WV Department of

Oil and Gas Privacy Notice

The Office of Oil and Gas processes your personal information, such as name, address and phone number, as Columbia Gas Transmission Group 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.





1700 MacCorkle Ave SE
P.O. Box 1273
Charleston, WV 25325

August 12, 2016

Adam R. & Jennifer A. Cooper
144 Barton Ln
Rockport, WV 26169

Columbia Gas Transmission, LLC is applying for a permit to the WV Department of Environmental Protection – Office of Oil and Gas, to permanently plug and abandon an underground natural gas storage well located on property owned by you. As reference, the storage field and well ID is Rockport 7253 (API 47-107-00281).

As part of the well permitting process required by the Office of Oil and Gas, Columbia, the well operator, is required to provide a copy of all applicable permit forms for your review and record retention. Columbia encourages you to review each form in detail and follow the instructions as outlined.

If you have questions, feel free to call.

Regards,

A handwritten signature in black ink that reads "Jim Amos". The signature is fluid and cursive, with the first and last letters of each name being capitalized and prominent.

Jim Amos
Senior Well Services Engineer
Columbia Gas Transmission, LLC
jamos@cpg.com
off: 304-373-2412
cell: 304-483-0073

RECEIVED
Office of Oil and Gas
SEP 02 2016
WV Department of
Environmental Protection

WW-9
(5/16)

API Number 47 - 107 - 00281
Operator's Well No. Rockport 7253

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) Pond 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: fresh water, gel, cement returns

Will a synthetic liner be used in the pit? Yes No If so, what ml.? 30

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: no

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? _____

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) subsoils

-Landfill or offsite name/permit number? _____

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

I certify that I understand and agree to the terms and conditions of the GENERAL WATER POLLUTION PERMIT issued on April 1, 2016, by the Office of Oil and Gas of the West Virginia Department of Environmental Protection. I understand that the provisions of the permit are enforceable by law. Violations of any term or condition of the general permit and/or other applicable law or regulation can lead to enforcement action.

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

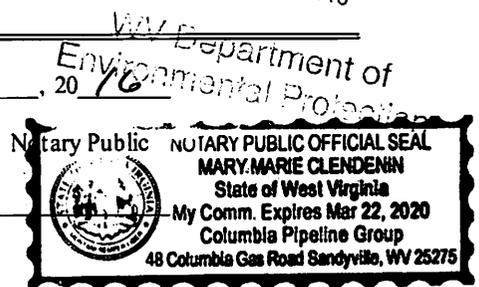
Company Official Signature [Signature]
Company Official (Typed Name) James E. Amos
Company Official Title Senior Well Services Engineer

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Subscribed and sworn before me this 12th day of August

Mary Marie Clendenen

My commission expires 3/22/2020



Proposed Revegetation Treatment: Acres Disturbed 1.1 (site) + 0.2 (road) 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

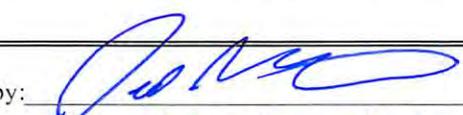
Temporary		Permanent Upland	
Seed Type	lbs/acre	Seed Type	lbs/acre
<u>Annual Rye</u>	<u>40</u>	<u>Orchard Grass and/or Tall Fescue</u>	<u>29</u>
		<u>Birdsfoot Trefoil (empire)</u>	<u>9</u>
		<u>Annual Rye</u>	<u>12</u>

For wetland areas: Annual Rye (40 lbs/acre) until indigenous plants re-establish cover.

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: 

Comments: Sediment control in place at all times !!

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Title: 006 Inspector

Date: 9-1-2016
WV Department of Environmental Protection

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): Pond Creek Quad: Rockport, WV

Farm Name: Province, P. E. etal

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

No fertilizer will be stored on site. Small quantities of fuel, oil, and lubrications will be stored on site, but located within secondary containment.

Spills from construction equipment is the only source of contaminate to groundwater.

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

All construction equipment will be inspected daily for leaks. 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.

There is an unnamed stream 500 ft from wellhead. The closest Well Head Protection Area is 9.5 miles (Belleville Hydro Electric Recreation). Refer to enclosed assessment letter dated 7/21/16 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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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 equipment will be inspected daily for leaks or spill.

Signature: *Jim C. Am*

Date: 8/12/16

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10700281P



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

July 21, 2016

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

Re: SWAP Information Request
Rockport 7248 39.03030426, -81.57450145
Wirt County, West Virginia
Rockport 7258 39.05693325, -81.57716342
Wood County, West Virginia

Note that well ID is incorrect, should be 7253.
However, location coordinates are accurate.

Dear Mr. Timmermeyer:

In response to the informational request dated July 15, 2016 concerning the closest Protection Areas to the indicated storage well, we have found the following:

Rockport 7248 Wirt County

Wellhead Protection Area	WV9954030	BELLEVILLE HYDRO ELECTRIC	10.5 miles
Wellhead Protection Area	WV3301810	RAVENSWOOD MUNICIPAL	11 miles
Zone of Critical Concern	WV3305402	CLAYWOOD PARK PSD	9.5 miles
Zone of Peripheral Concern	WV3305402	CLAYWOOD PARK PSD	3 miles

Your location is 119.45 river miles upstream from the HUNTINGTON DISTRICT water supply.

Rockport7253 Wood County

Wellhead Protection Area	WV9954030	BELLEVILLE HYDRO ELECTRIC	9.5 miles
Wellhead Protection Area	WV3301810	RAVENSWOOD MUNICIPAL	11 miles
Zone of Critical Concern	WV3305402	CLAYWOOD PARK PSD	8 miles
Zone of Peripheral Concern	WV3305402	CLAYWOOD PARK PSD	2 miles

Your location is 123.92 river miles upstream from the HUNTINGTON DISTRICT water supply.

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 King
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Office of Oil and Gas

Lisa A. King, GIS Administrator
Source Water Assessment and Protection
SEP 09 2016

CC: William J. Toomey

WV Department of
Environmental Protection

WV DEP Reclamation Plan 1 of 2 - Overview

Plug and abandon Rockport storage well 7253

Co Rd 25

Barton Lane
(combination private drive and lease road)

Co Rd 25
Pond Creek Rd

existing lease road

Rockport - 07253

Notes

- BMPs to be utilized per DEP requirements and Columbia's WV Environmental Construction Standards
- road surface and drainage along private drive and existing lease road to be upgraded and maintained as necessary



WV DEP Reclamation Plan 2 of 2 - Site Detail

Plug and abandon Rockport storage well 7253



Rockport Well 7253

existing
lease road

poly lined
earthen pit

ECD

Limits of Disturbance

10700281P

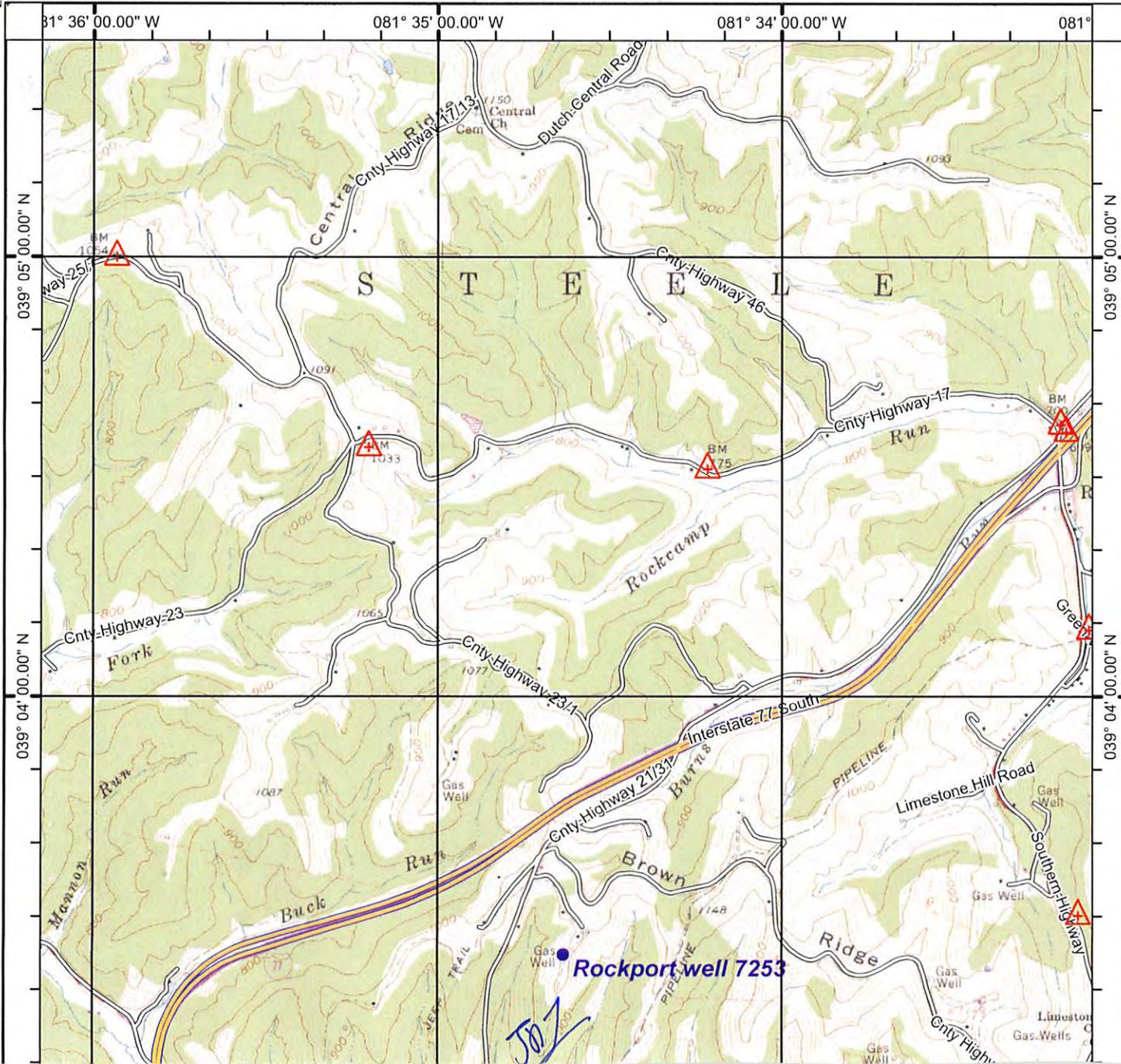
(LUBECK)



ROCKPORT QUADRANGLE
WEST VIRGINIA
TOPOGRAPHIC SERIES

(KANAWHA)

081° 36' 00.00" W (SOUTH PARKERSBURG) 081° 33' 05.13" W
039° 05' 29.75" N 039° 05' 00.00" N 039° 04' 00.00" N

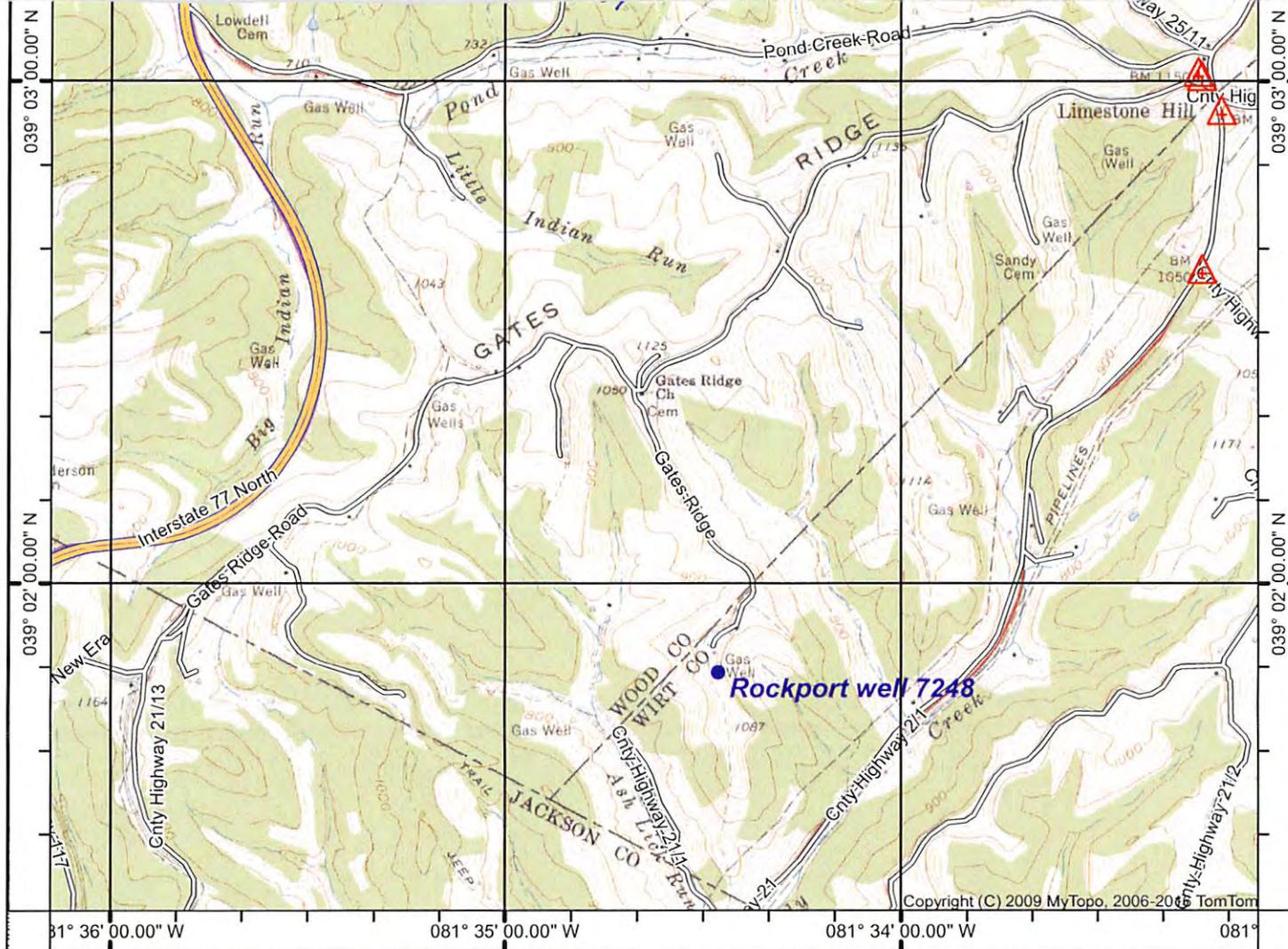


(POND CREEK)

(ELIZABETH)

JOZ

Rockport well 7253



039° 01' 20.63" N 081° 36' 09.57" W 039° 02' 00.00" N 081° 35' 00.00" W 039° 03' 00.00" N 081° 34' 00.00" W 081° 33' 05.13" W 039° 01' 20.63" N

(SANDYVILLE)

(REEDY)

Produced by MyTopo Terrain Navigator
Topography based on USGS 1:24,000 Maps

North American 1983 Datum (NAD83)
Polyconic Projection

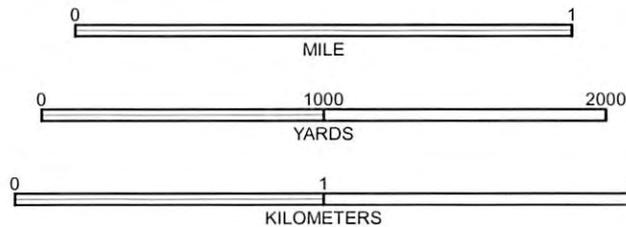
To place on the predicted North American 1927 move the
projection lines 9M N and 13M E

Declination



GN 0.36° W
MN 7.90° W

(LIVERPOOL)
SCALE 1:24000



CONTOUR INTERVAL 20 FEET
NATIONAL GEODETIC VERTICAL DATUM 1929

ROCKPORT, WV
1960

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 Survey
 WV Department of
 Environmental Protection
 2/16

WW-7
8-30-06

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West Virginia Department of Environmental Protection
Office of Oil and Gas
WELL LOCATION FORM: GPS

API: 107-00281 WELL NO.: 7253

FARM NAME: Province, P. E., etal

RESPONSIBLE PARTY NAME: Columbia Gas Transmission, LLC

COUNTY: Wood DISTRICT: Steele

QUADRANGLE: Rockport, WV

SURFACE OWNER: Adam R. & Jennifer A. Cooper

ROYALTY OWNER: N/A - storage lease 1051309-000

UTM GPS NORTHING: 4323252.9 m

UTM GPS EASTING: 450062.5 m GPS ELEVATION: 305.3 m

The Responsible Party named above has chosen to submit GPS coordinates in lieu of preparing a new well location plat for a plugging permit or assigned API number on the above well. The Office of Oil and Gas will not accept GPS coordinates that do not meet the following requirements:

1. Datum: NAD 1983, Zone: 17 North, Coordinate Units: meters, Altitude: height above mean sea level (MSL) – meters.
2. Accuracy to Datum – 3.05 meters
3. Data Collection Method:

Survey grade GPS : Post Processed Differential

Real-Time Differential

Mapping Grade GPS : Post Processed Differential

Real-Time Differential

4. Letter size copy of the topography map showing the well location.

I the undersigned, hereby certify this data 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 Office of Oil and Gas.

Signature

Senior Well Services Engineer

Title

9/6/2016

Date