



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

Wednesday, October 26, 2016
WELL WORK PERMIT
Vertical / Plugging

COLUMBIA GAS TRANSMISSION, LLC
P. O. BOX 1273

CHARLESTON, WV 253251273

Re: Permit approval for 7248
47-105-00258-00-00

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: 7248
Farm Name: THOMPSON, I. T.
U.S. WELL NUMBER: 47-105-00258-00-00
Vertical / Plugging
Date Issued: 10/26/2016

Promoting a healthy environment.

10/28/2016

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.

WW-4B
Rev. 2/01

1) Date 8/12, 20 16
2) Operator's
Well No. Rockport 7248
3) API Well No. 47-105 - 00258

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 1048.3 ft (319.5 m) Watershed Sandy Creek
District Tucker County Wirt 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 Joe Taylor
Address 1478 Claylick Road
Ripley, WV 25271
- 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 4900 ft to TD. Set mechanical bridge plug @ +/- 4900 ft. Spot 500 ft cement plug on top of BP, 6% gel 2700 - 4400', and cement plug 1800 - 2700 ft. Attempt to pull 8-5/8" and 10-3/4" csgs. Perforate at 1750' and attempt to squeeze cement. Spot cement from depth of last plug to depth of cement behind 3-1/2" tubing (per CBL). Cut/pull all uncemented tubing/casing that is free, except for the 13-3/8" casing (casing needs left in well in the event future well intervention required). Install surface cement plug and grout all uncemented annuli as deep as possible to surface. Install monument with API number.

RECEIVED
Office of Oil and Gas

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

SEP 02 2016
WV Department of
Environmental Protection

10/28/2016

10500258P

FORM CO 1142-P CSD

WORK ORDER

REQUEST NO. 3888 BUDGET NO. 864 WORK ORDER NO. 4685
 DATE July 23, 19 53 6-5135-54 DATE ISSUED 8-7 19 53

COMPANY United Fuel Gas Company DEPT. Production (For Storage) DISTRICT Clendenin
 PROPOSED WORK Recondition Well X-58-7248 (Well 6335) and Install Miscellaneous Material

KNOWN AS Well X-58-Additions 124P NO. _____ ORIGINAL INSTALLATION _____
 PURPOSE AND NECESSITY To Clean Out Well and Install Heavier Equipment. This to well being converted into a Storage Well in Pool X-58.

LOCATION: Well X-58-7248 I.T. Thompson Farm
 IN Tucker Rural Witt West Virginia
DISTRIBUTION PLANT MAGISTERIAL DISTRICT TAXING DISTRICT COUNTY STATE

RELATED PROJECT WORK ORDER NO. _____ FOR Well #6335 Part-Removal
 APPROVED BY John C. Martin APPROVED BY H. C. Mefford, Jr.

DETAIL OF EXPENDITURES							
MATERIAL TO BE INSTALLED - QUANTITY	UNIT PRICE	SIZE	ESTIMATE		ACTUAL		VARIATION
			QUANTITY	AMOUNT	QUANTITY	AMOUNT	
Steel Tubing 9.2#	.74	3 1/2"	5358'	3,965.00	5426'	4,422.94	457.94
Wall Anchor Packer		3"x5"	1	190.00	1	134.31	(55.69)
Steel Welded Tee		3"x3"x3"	1	40.00		-	(40.00)
Nord. #2349 Plug Valve Comp.		3"	1	360.00	1	294.43	(65.57)
Orbit Gate Valve Comp.		3"	1	350.00	1	356.95	6.95
Anchor Clamps		3"	1	30.00	1	16.04	(13.96)
Turnbuckles	15.00	1 1/8"x18"	2	30.00	2	24.93	(5.07)
Fittings				25.00		26.98	1.98
Centralizers	15.00	3"x5"	12	180.00		-	(180.00)
Casing 15.5#		5 1/2"	-	-	26'	30.43	30.43
Casing Shoe		5 1/8"x12"	-	-	1	18.37	18.37
TOTAL MATERIAL				5,170.00		5,488.17	318.17
INSTALLATION COST							
Direct Labor				1,200.00		3,777.50	2,577.50
Use of Auto and Hauling				800.00		3,333.67	2,533.67
Tools, Supplies and Misc. Expense				250.00		133.43	(116.57)
Stores Expense and Freight				522.00		550.14	28.14
Hauling, Erecting & Dismantling Spudder				350.00		- *	(350.00)
Fuel				25.00		146.00	121.00
Cement & Services				1,000.00		1,545.75	545.75
Fuel Gas Lost				-		174.90	174.90
Labor Benefits Overheads				221.00		699.11	478.11
Administrative Overheads				49.00		68.93	19.93
Interest				-		107.28	107.28
TOTAL INSTALLATION				4,417.00		10,536.71	6,119.71
TOTAL ESTIMATE				9,587.00		16,024.88	6,437.88

INDICATE NORTH _____ SKETCH (CORRECT TO ACTUAL) _____ INVENTORY MAP NO. F-P-66/107
 Map Square 66-107

Note: Move in Bucyrus Erie Spudder and String of Cleaning Out Tools,
 Clean Out Well, Run a String of 3" Tubing on Wall & Anchor Packer, Cement
 Between 3" & 5" Casing to Top of Hole, Install Heavier Equipment, Shut in
 Well and report results.

Material Installed:

W/N Flanges 3" - - 8 162.79 162.79
 * Included in Direct Labor and Use of Auto.

10/28/2016

2-864-4685

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 <i>BY RETIRED</i>			MATERIAL INSTALLED OR RETIRED		
QUANTITY	SIZE	DESCRIPTION	QUANTITY	SIZE	DESCRIPTION
26'	5-1/2"	Casing Steel 15.5#			
5426'	3-1/2"	Tubing Sm'l. Gr. J. 9.2#			
1	3"	Valve Gate Screw Orbit			
1	3"	Valve Plug Nord Fig. 2349			
1	3"	Tee Welding Gr. B.			
8	3"	Flanges W/N Drl. Ser. 90			
6	3"	Gaskets Ring Oval Steel			
1	1/2"	Valve Needle M&F Screw			
1	3"	Plug Bull XXS			
1	5-1/2"X12"	Shoe Casing			
1	3-1/2"	Clamps Anchor Tubing			
2	1-1/2"X18"	Turnbuckles			
2	1-1/4"X2 1/2"	Bolts Hair Pin			
48	7/8"X5-3/4"	Bolts Stud High Tensil			
520		Sacks Cement			
6		Sacks Aquagel			
1		Sack Cal Seal			
30#		Therad Lube			
20#	20-D	Common Wire Nails			
20#	10-D	Common Wire Nails			
5#	6-D	Common Wire Nails			
1	3"X5-1/2"X2 1/2"	Parmaco Wall & Anchor Packer			

MATERIAL TRANSFER NUMBERS: November, 1953. # 168-Dedember-329-March, 1954. # 185-April-14-N-18-N-31-34-May-N-44-132-182-183-210-211.

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

TYPE OF JOINTS: <u>Screw Tubing & Casing</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 _____
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REASON FOR OVERRUN: ~~1/4" casing~~ was due to 5-1/2" casing being pulled and re-run, which was not estimated, and more Cleaning Out was involved. 10/28/2016

DATE WORK STARTED: March 31, 19 54 DATE WORK COMPLETED: May 6, 19 54
 COMPILED BY: Donald D. Rucker DATE: 5/19/ 19 54 APPROVED BY: [Signature] DATE: 5 20 54



STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
OIL AND GAS DIVISION

Belleville

WELL RECORD

Permit No. WTR - 258

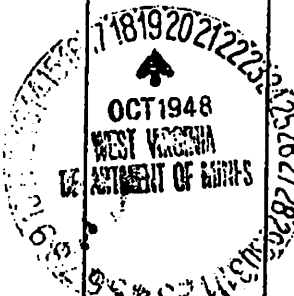
Oil or Gas Well Gas
(KIND)

Company UNITED FUEL GAS CO.
Address P.O. Box 1273, Charleston 25, W. Va.
Farm I T. Thompson Acres 110
Location (waters) Left Ek. of Sandy Cr.
Well No. 6335 Elev. 1001.25 Gr.
District Tucker County Wirt
The surface of tract is owned in fee by _____
Address _____
Mineral rights are owned by Carol & Lena Thompson
Pt. 1 Address Rockport, W. Va.
Drilling commenced 4-25-48
Drilling completed 8-30-48
Date Shot 8-31-48 From 5309 To 5358
With 354-1/6# EL. 409 & 373# Gal.
Open Flow 36/10ths Water in 7 Inch
_____ /10ths Merc. in _____ Inch
Volume 2,588 M - Oriskany Cu. Ft.
Rock Pressure 1750 lbs. 24 hrs.
Oil _____ bbls., 1st 24 hrs.
Fresh water _____ feet _____ feet
Salt water _____ feet _____ feet

Casing and Tubing	Used in Drilling	Left in Well	Packers
Size			Kind of Packer
18 3/8	610	610	
10 3/4	1162	1162	Size of
8 5/8	1801	1801	Depth act.
8 7/8	2432	2432	
8 1/2	5188	5188	Perf. top
8			Perf. bottom
2 Tubing		5200	Perf. top
Liners Used			Perf. bottom

CASING CEMENTED _____ SIZE _____ No. Ft. _____ Date _____
GOAL WAS ENCOUNTERED AT _____ FEET _____ INCHES
_____ FEET _____ INCHES FEET _____ INCHES
_____ FEET _____ INCHES FEET _____ INCHES

Formation	Color	Hard or Soft	Top	Bottom	Oil, Gas or Water	Depth Found	Remarks
Yellow Sand			0	20			
Lime shells			20	50			
Blue Rock			50	65			
Pink Rock			65	70			
Red Rock			70	85			
Blue Mud			85	150			
Red Rock			150	170			
Lime			170	195			
Blue Rock			195	225			
Red Rock			225	250			
Blue Slate			250	265			
Red Rock			265	300			
Blue Lime			300	320			
Red Rock			320	350			
Blue Rock			350	400			
Red Rock			400	500			
Lime shells			500	510			
Red Rock			510	550			
shells			550	613			
Red Rock			613	630			
shells			630	660			
Red Rock			660	700			
White Lime			700	765			
Red Rock			765	775			
White Sand			775	825			
White Slate			825	850			
Lime			850	875			
Soft Sand			875	925			
Black Lime			925	935			
White Sand			935	985			
Red Rock			985	1005			
White Slate			1005	1058			
Red Rock			1058	1108			
Lime shells			1122	1132			
White Slate			1132	1141			
Red Rock			1141	1165			
Lime			1165	1180			
White Sand			1180	1200			
Red Rock			1200	1312			



10/28/2016

Formation	Color	Hard or Soft	Top	Bottom	Oil or Wa.	Depth Found	Remarks
Lime stone			1312	1360			
White Slate			1360	1403			
White Sand			1403	1435			
Break			1435	1440			
Sand			1440	1470			
White Slate			1470	1492			
Black Lime			1492	1520			
Slate & shells			1520	1575			
Black Slate			1575	1600			
Salt Sand			1600	1650			
Black Slate			1650	1685			
Gritty Lime			1685	1710			
White Sand			1710	1825			
Slate & shells			1825	1995			
Gray Lime			1995	2000			
White Sand			2000	2135			
Black Lime			2135	2145			
White Lime			2145	2200			
Gritty Lime			2200	2235			
Lime			2235	2445			
White Slate			2445	2460			
Slate & shells			2460	2705			
White Lime			2705	3005			
Slate & shells			3005	3300			
White Slate			3300	3475			
Gray Lime			3475	3515			
Slate & shells			3515	3700			
Lime			3700	4145			
Brown Shale			4145	4475			
White Slate			4475	4816			
Brown Shale			4816	5160			
Black Shale			5160	5172			
Corniferous Lime			5172	5309			
Oriskany Sand			5309	5350			
Gritty Lime			5350	5358			
Total Depth			5358'				

Oriskany gas 5309 $\frac{1}{2}$ -5312 $\frac{1}{2}$ 38/10 W 2" 260 M

Blew down to 10/10 W 2" 133 M
Oriskany gas 5325-5327 42/10 W 2" 273 M

Blew down to 33/10 W 2" 242 M
Oriskany gas 5339-5340 50/10 W 2" 298 M.

Test before shot 38/10 W 2" 260 M
Shot 8-31-48 with 35 $\frac{1}{4}$ -1/6# EI. 409 and 37 $\frac{1}{2}$ # Gel. 5309-5358.
Test 1 hr. after shot 36/10 W 7" 22# 2,588 M.

OPEN FLOW - 2,588 M - Oriskany
24 Hr. R.P. 1750#.

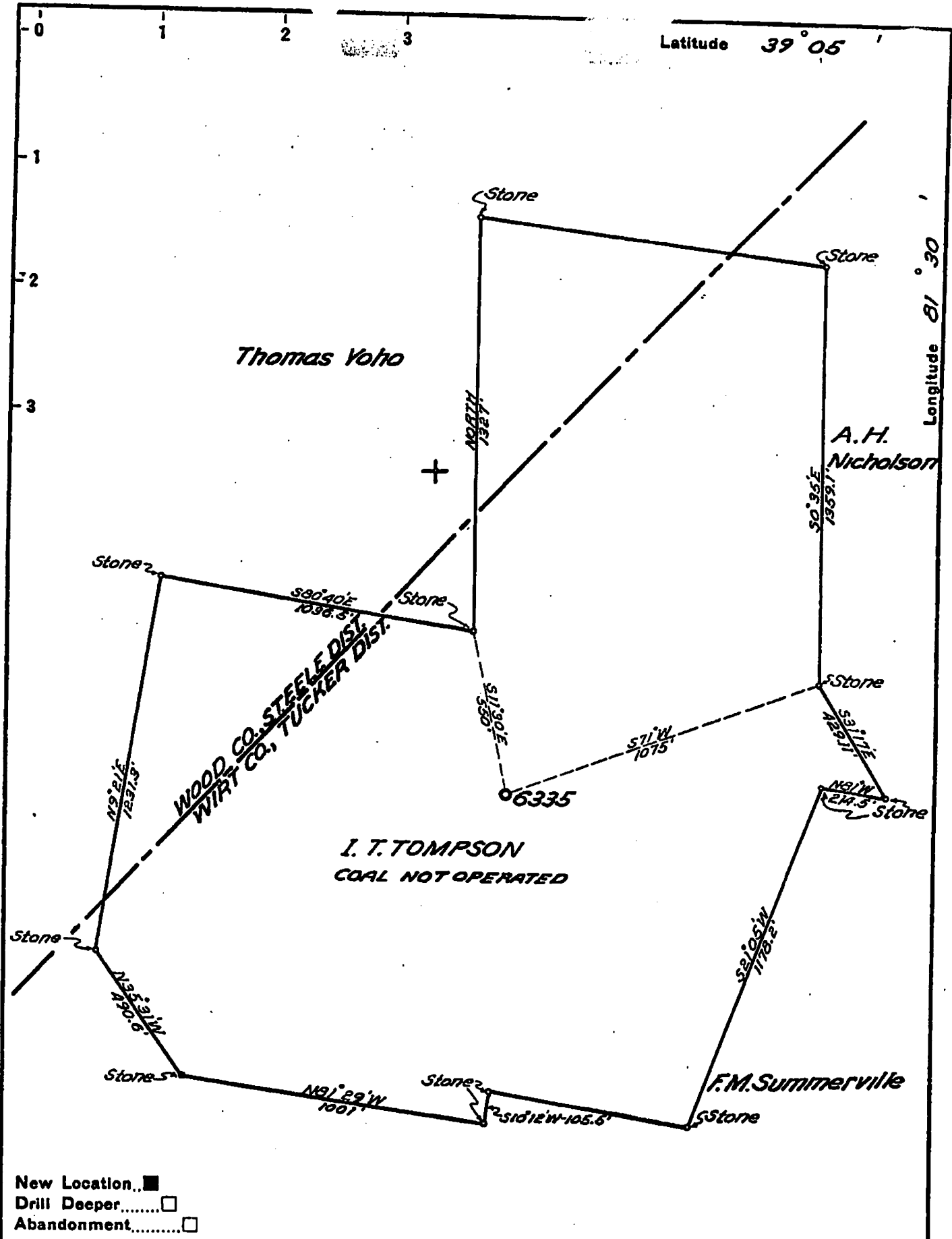
10/28/2016

Date October 15, 1948

APPROVED UNITED FUEL OIL CO Owner

By G. H. Moore
Chief Engineer (Title) R

SENECA



New Location..
 Drill Deeper.....
 Abandonment.....

Company UNITED FUEL GAS CO.
 Address CHARLESTON, W.VA.
 Farm I. T. TOMPSON
 Tract _____ Acres 110 Lease No. 44289
 Well (Farm) No. 1 Serial No. 6335
 Elevation (Spirit Level) 1001.25'
 Quadrangle BELLEVILLE
 County WIRT District TUCKER
 Engineer J. J. Moore
 Engineer's Registration No. 662
 File No. 64-105 Drawing No. _____
 Date MARCH 19, 1948 Scale 1" = 400'

STATE OF WEST VIRGINIA
 DEPARTMENT OF MINES
 OIL AND GAS DIVISION
 CHARLESTON

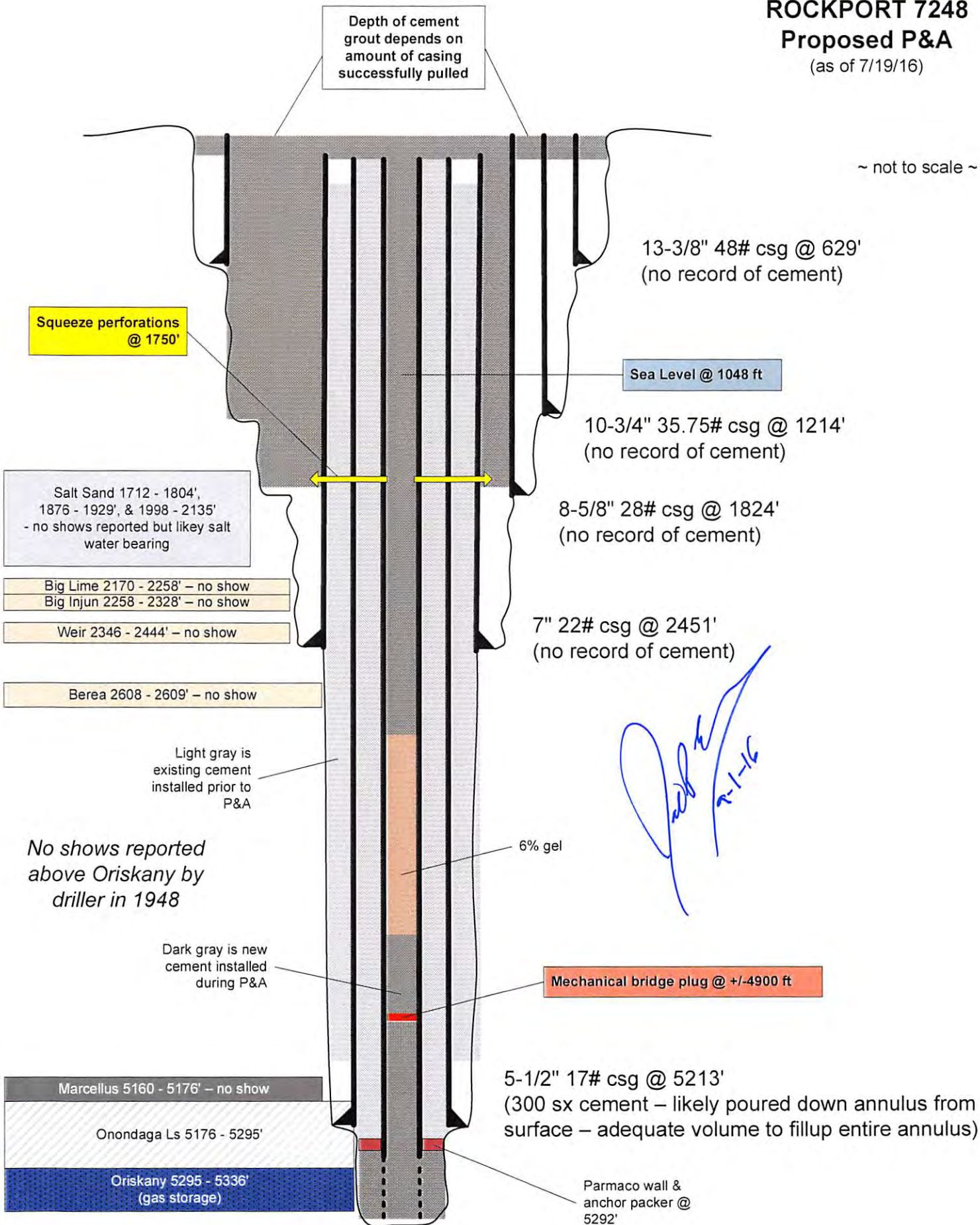
WELL LOCATION MAP
 FILE NO. Wirt-258
 10/28/2016

+ Denotes location of well on United States Topographic Maps, scale 1 to 62,500, latitude and longitude lines being represented by border lines as shown.

- Denotes one inch spaces on border line of original tracing.

Depth of cement grout depends on amount of casing successfully pulled

~ not to scale ~



Squeeze perforations @ 1750'

13-3/8" 48# csg @ 629' (no record of cement)

Sea Level @ 1048 ft

10-3/4" 35.75# csg @ 1214' (no record of cement)

Salt Sand 1712 - 1804', 1876 - 1929', & 1998 - 2135' - no shows reported but likely salt water bearing

8-5/8" 28# csg @ 1824' (no record of cement)

Big Lime 2170 - 2258' - no show
Big Injun 2258 - 2328' - no show

7" 22# csg @ 2451' (no record of cement)

Weir 2346 - 2444' - no show

Berea 2608 - 2609' - no show

Light gray is existing cement installed prior to P&A

Handwritten signature and date: 7-1-16

No shows reported above Oriskany by driller in 1948

6% gel

Dark gray is new cement installed during P&A

Mechanical bridge plug @ +/-4900 ft

Marcellus 5160 - 5176' - no show

5-1/2" 17# csg @ 5213' (300 sx cement - likely poured down annulus from surface - adequate volume to fill up entire annulus)

Onondaga Ls 5176 - 5295'

Oriskany 5295 - 5336' (gas storage)

Parmaco wall & anchor packer @ 5292'

TD 5358'

3-1/2" 9.2# tbg @ 5350' - anchor on bottom ("refilled with cement" in 7 trips to well) 10/28/2016

Rockport - 07248

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	\$340,000
Total Costs	\$340,000

Detailed Scope

ROCKPORT 7248 (OB)

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

---- Well Info -----
 API 47-105-00258

Drilled in 1948
 Reconditioned in 1954

Threaded production wellhead

* Refer to wellbore schematic in well file

13-3/8" 48# csg @ 629' (no record of cement)
 10-3/4" 35.75# csg @ 1214' (no record of cement)
 8-5/8" 28# csg @ 1824' (no record of cement)
 7" 22# csg set @ 2451' (no record of cement)
 5-1/2" 17# csg @ 5213' (300 sx cement - likely poured down annulus from surface - adequate volume to fillup entire annulus)
 3-1/2" 9.2# tubing @ 5350' set on Parmaco Wall & Anchor packer - CCL indicates packer may be at 5292' - slotted/perf'd anchor likely below packer (old invoice states "refilled with cement" in 7 trips to well - no record of volume)

Elog Formation Tops

Salt Sand 1712 - 1804' (no show reported)
 Salt Sand 1876 - 1929' (no show reported)
 Salt Sand 1998 - 2135' (no show reported)
 Little Lime 2135 - 2150'
 Big Lime 2170 - 2200'
 Loyalhanna Big Lime 2214 - 2258' (no show reported)
 Pocono Big Injun 2258 - 2328' (no show reported)
 Weir 2346 - 2444' (no show reported)
 Berea 2608 - 2622' (no show reported)
 Devonian Shale 2622 - 5160' (no show reported)
 Marcellus 5160 - 5176' (no show reported)
 Onondaga 5176 - 5295'
 Oriskany 5295 - 5336' (storage zone)
 TD 5350 ft (driller)

Most current AOF 2700 MCFD in 1948
 Top historical AOF 2700 MCFD in 1948

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.

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 hydrl tbg and spot bottom cement plug from 4900' to TD. PU

Rockport - 07248 6666 Well Work

above cement top and reverse circulate to clean tubulars. Pull 2 stands, close BOPs, and WOC. Tag cement top to verify depth and TOOH.

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

TIH and spot 500' cement plug from 4400 - 4900' (on top of BP). Spot 6% gel from 2700 - top of last cement plug @ +/-4400'. Spot cement plug from 2700 ft 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" and 10-3/4". Cut/pull all casing that is free except for 13-3/8" (leave in well in the event future wellbore intervention required). Cement wellbore from top of last cement plug to surface. Grout behind all casings at surface, including 13-3/8", as deep as possible.

Stab a short piece of 7" csg in well before top cement plug cures, leaving ~30" above grade. Tack weld steel cap on top (do not seal), and tack weld "API 00258" 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		

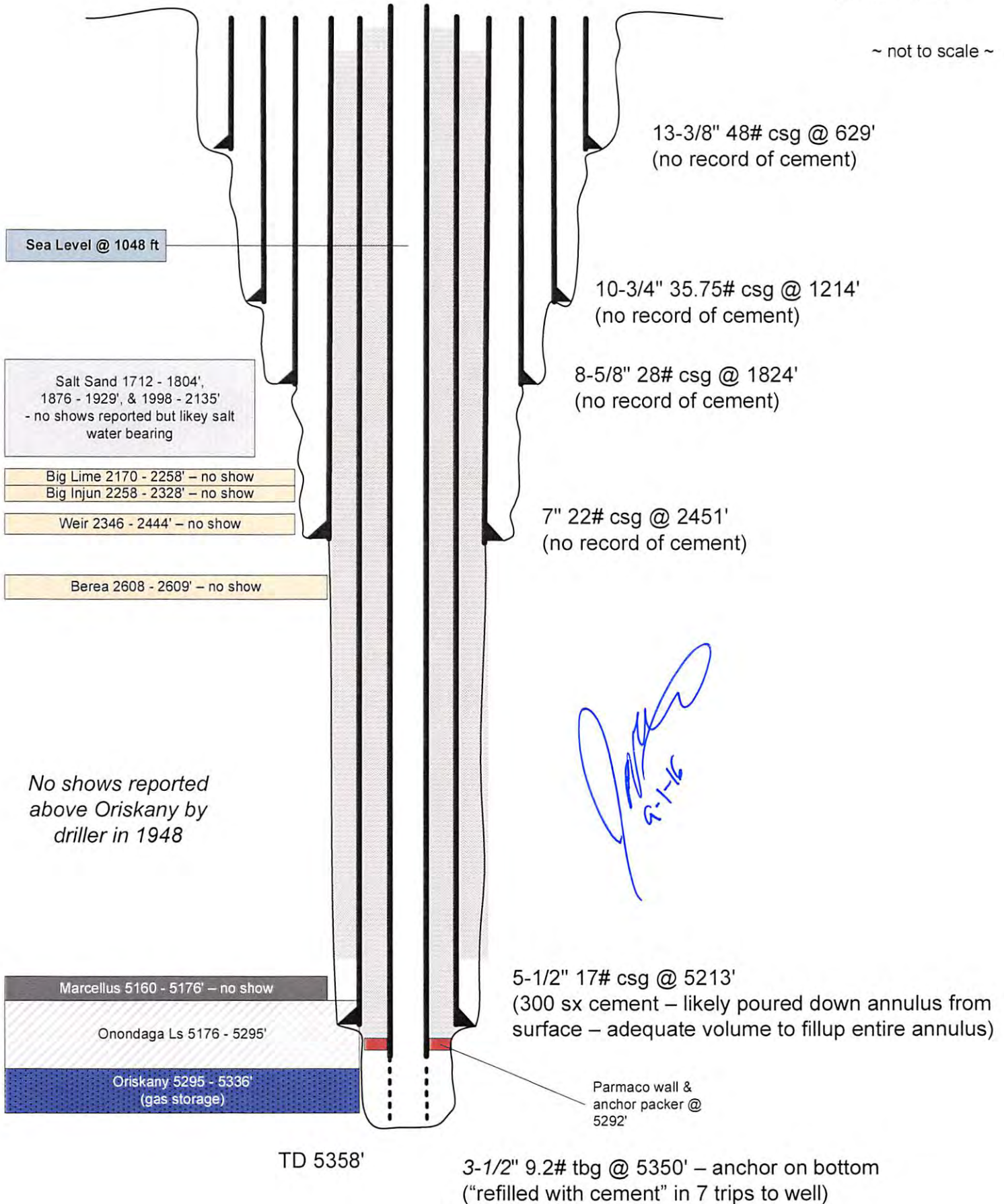
Approved by Reservoir Engineer

Engineer _____

Date 9/21/2012

General Comments:

~ not to scale ~



WW-4A
Revised 6-07

1) Date: 9/14/16
2) Operator's Well Number
Rockport 7248

3) API Well No.: 47 - 105 - 00258

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

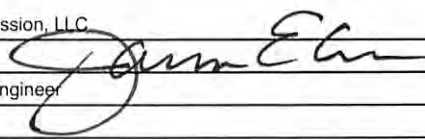
4) Surface Owner(s) to be served:	5) (a) Coal Operator
(a) Name <u>Christopher L. Thompson</u>	Name <u>not operated</u>
Address <u>667 Gates Drive</u>	Address _____
<u>Rockport, WV 26169</u>	_____
(b) Name _____	(b) Coal Owner(s) with Declaration
Address _____	Name _____
_____	Address _____
(c) Name _____	Name _____
Address _____	Address _____
_____	_____
6) Inspector <u>Joe Taylor</u>	(c) Coal Lessee with Declaration
Address <u>1478 Claylick Road</u>	Name _____
<u>Ripley, WV 25271</u>	Address _____
Telephone <u>304-380-7469</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 Columbia Gas Transmission, LLC
 By: Jim Amos 
 Its: Senior Well Services Engineer
 Address 48 Columbia Gas Rd
Sandyville, WV 25275
 Telephone 304-483-0073

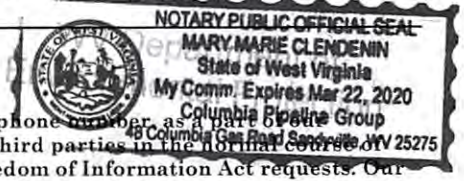
RECEIVED
 Office of Oil and Gas
 SEP 19 2016

Subscribed and sworn before me this 14th day of September 2016
Mary Marie Clendenin
 My Commission Expires March 22, 2020

Notary Public

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.



10/28/2016

WW-9
(5/16)

API Number 47 - 105 - 00258
Operator's Well No. Rockport 7248

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) Sandy 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.

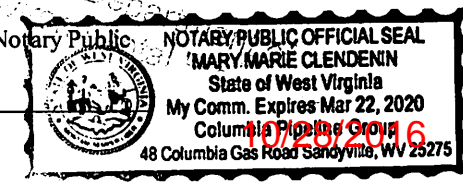
I certify that I understand and agree to the terms and conditions of the GENERAL WATER POLLUTION PERMIT issued on April 1, 2016, by the Office of Oil and Gas of the West Virginia Department of Environmental Protection. I understand that the provisions of the permit are enforceable by law. Violations 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 *James E. Amos*
Company Official (Typed Name) James E. Amos
Company Official Title Senior Well Services Engineer

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Office of Oil and Gas
SEP 02 2016

Subscribed and sworn before me this 12th day of August 2016
Mary Marie Clendenin
My commission expires 3/22/2020



Proposed Revegetation Treatment: Acres Disturbed 1.2 (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!!

Title:

OOG - Inspector

Date:

9-1-16

Field Reviewed?

Yes

No

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Office of Oil and Gas

SEP 02 2016

WV Department of
Environmental Protection

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): Sandy Creek Quad: Rockport, WV
Farm Name: Thompson, I. T.

- 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 550 ft from wellhead. The closest Well Head Protection Area is 10.5 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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Office of Oil and Gas
SEP 02 2016

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

10/28/2016

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.

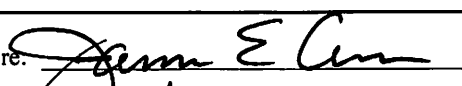
7. Describe the groundwater protection instruction and training to be provided to the employees. Job procedures shall provide direction on how to prevent groundwater contamination.

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: _____



Date: _____

8/12/16

WV-9 GPP ADDENAM

10500258P



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,

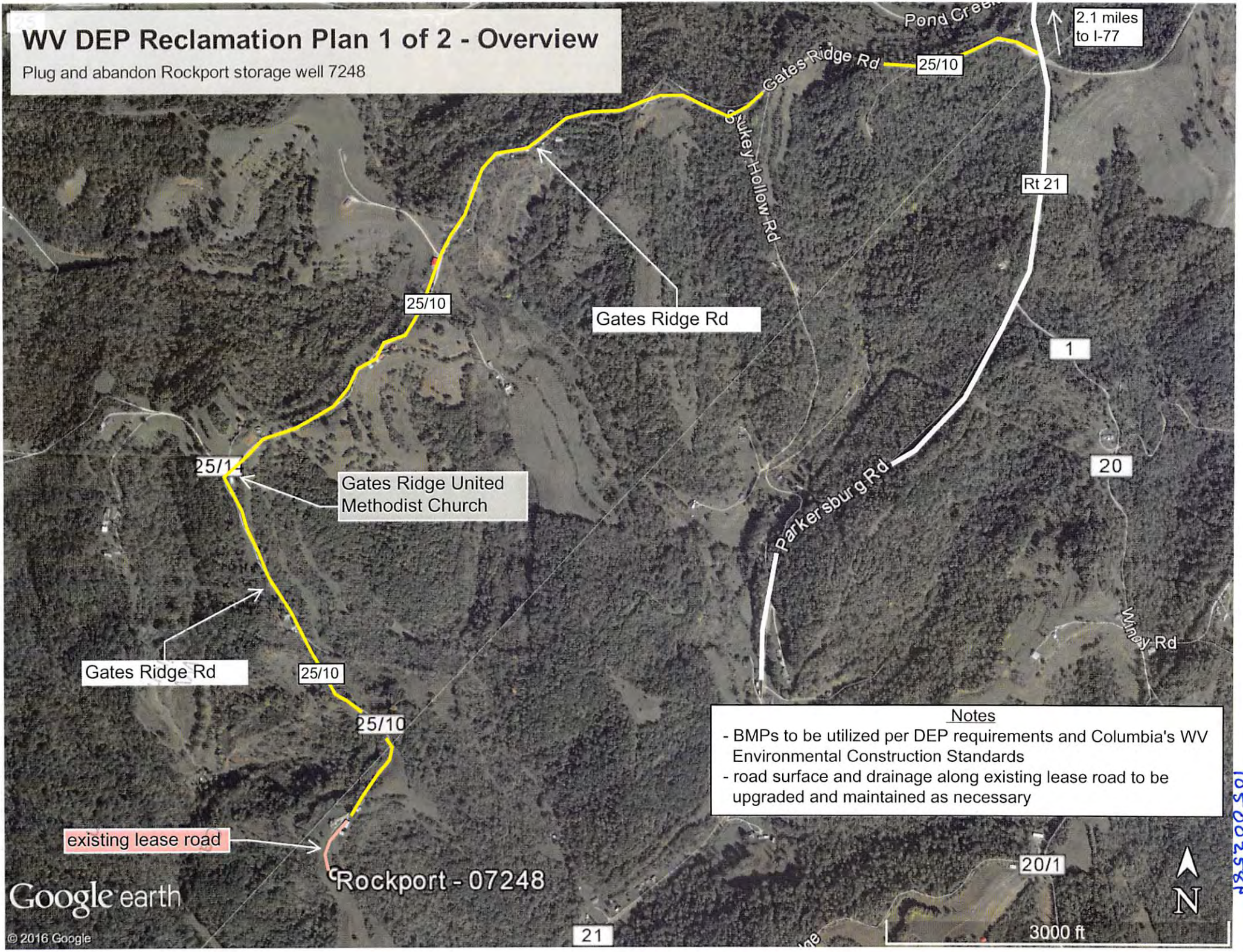
Lisa A. King, GIS Administrator
Source Water Assessment and Protection

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SEP 02 2016
WV Department of
Environmental Protection

CC: William J. Toomey

WV DEP Reclamation Plan 1 of 2 - Overview

Plug and abandon Rockport storage well 7248



Notes

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

Google earth

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10500258P

WV DEP Reclamation Plan 2 of 2 - Site Detail

Plug and abandon Rockport storage well 7248



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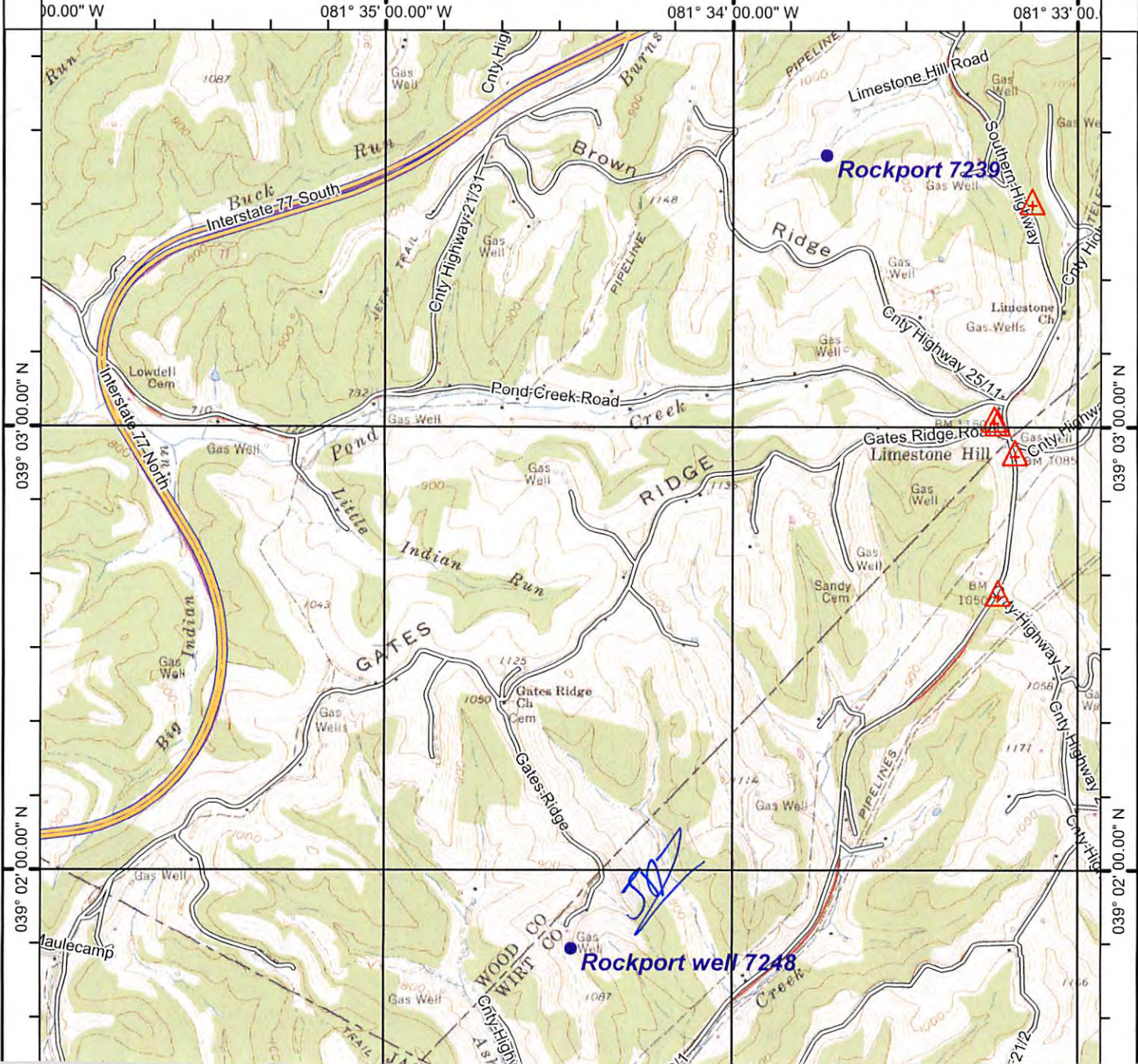
(LUBECK)



ROCKPORT QUADRANGLE
WEST VIRGINIA
TOPOGRAPHIC SERIES

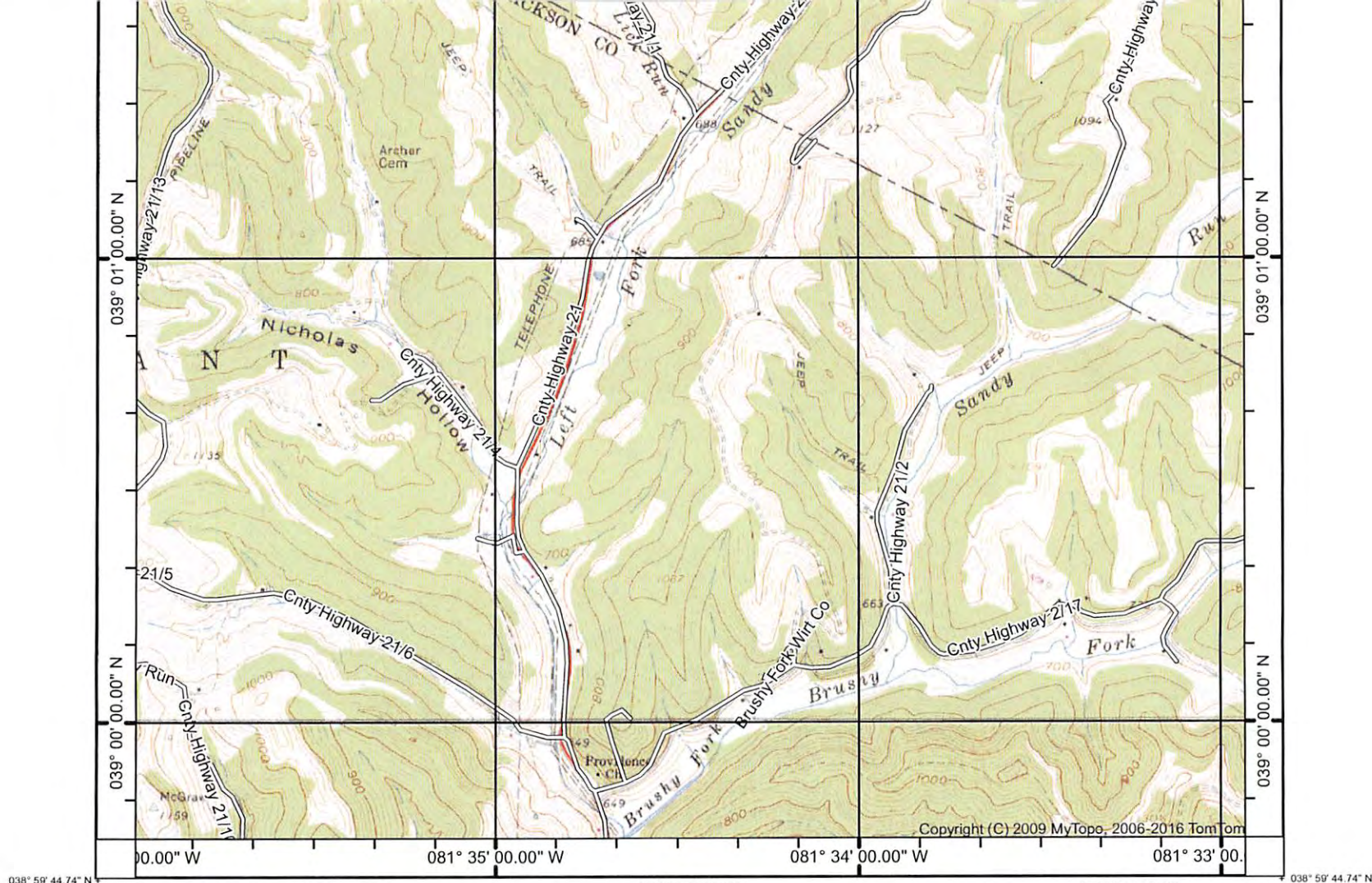
(KANAWHA)

081° 35' 59.89" W (SOUTH PARKERSBURG) 081° 32' 55.65" W
039° 03' 53.92" N 039° 03' 53.92" N



(POND CREEK)

(ELIZABETH)



038° 59' 44.74" N 081° 35' 59.89" W 081° 35' 00.00" W 081° 34' 00.00" W 081° 33' 00.00" W 038° 59' 44.74" N
 039° 01' 00.00" N 039° 00' 00.00" N 039° 01' 00.00" N
 Copyright (C) 2009 MyTopo, 2006-2016 TomTom
 Printed: Mon Jul 18, 2010

(SANDYVILLE)

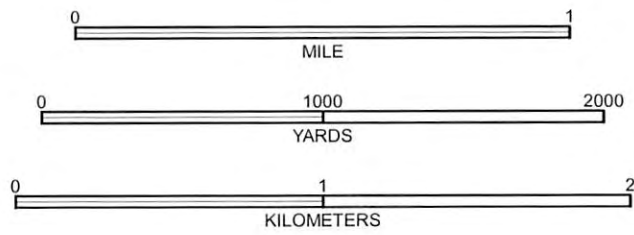
(REEDY)

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

WW-7
8-30-06

105 00258 P
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WV Department of
Environmental Protection

West Virginia Department of Environmental Protection
Office of Oil and Gas

WELL LOCATION FORM: GPS

API: 105-00258 WELL NO.: 7248

FARM NAME: Thompson, I. T.

RESPONSIBLE PARTY NAME: Columbia Gas Transmission, LLC

COUNTY: Wirt DISTRICT: Tucker

QUADRANGLE: Rockport, WV

SURFACE OWNER: Christopher L. Thompson

ROYALTY OWNER: N/A - storage lease 1044289-000

UTM GPS NORTHING: 4320296.6 m

UTM GPS EASTING: 450273.7 m GPS ELEVATION: 319.5 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

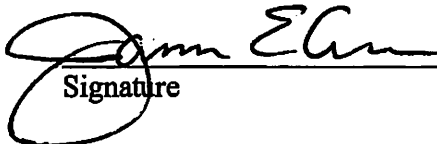
Real-Time Differential

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

10/28/2016