

State of West Virginia  
Department of Environmental Protection - Office of Oil and Gas  
Well Operator's Report of Well Work

API 47 - 039 - 06401T County Kanawha District Elk  
Quad Blue Creek Pad Name Coco B Field/Pool Name Coco B  
Farm name James A. & Freda Marie Morton Well Number 12643  
Operator (as registered with the OOG) Columbia Gas Transmission LLC  
Address 1700 MacCorkle Ave SE City Charleston State WV Zip 25314

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As Drilled location NAD 83/UTM Attach an as-drilled plat, profile view, and deviation survey  
Top hole Northing 514,763.54 N Easting 1,864,711.46 E  
Landing Point of Curve Northing 516,237.26 N Easting 1,865,392.73 E  
Bottom Hole Northing 516,858.25 N Easting 1,867,469.71 E

Elevation (ft) 845 GL Type of Well  New  Existing Type of Report  Interim  Final  
Permit Type  Deviated  Horizontal  Horizontal 6A  Vertical Depth Type  Deep  Shallow  
Type of Operation  Convert  Deepen  Drill  Plug Back  Redrilling  Rework  Stimulate  
Well Type  Brine Disposal  CBM  Gas  Oil  Secondary Recovery  Solution Mining  Storage  Other \_\_\_\_\_  
Type of Completion  Single  Multiple Fluids Produced  Brine  Gas  NGL  Oil  Other \_\_\_\_\_  
Drilled with  Cable  Rotary

Drilling Media Surface hole  Air  Mud  Fresh Water Intermediate hole  Air  Mud  Fresh Water  Brine  
Production hole  Air  Mud  Fresh Water  Brine

Mud Type(s) and Additive(s)  
KB-GL 19', depths reports from RKB. Surface hole - drilled on air with FW soap sweeps. Intermediate 1 and Intermediate 2 - drilled on air with 4% KCl soap sweeps, defoamer, citric acid, calcium nitrate. Production - drilled on water based fluid, NaCl, sodium bicarb, KCl, Pac R, soda ash, citric acid, zan gum. Lateral - drilled w/water based fluid, NaCl, sodium bicarb, KCl, Pac R, soda ash, citric acid, zan gum, H2S scavenger, boicide, calcium carbonate LCM.  
Date permit issued 12/05/2023 Date drilling commenced 5/5/24 Date drilling ceased 7/10/24  
Date completion activities began 08/05/24 Date completion activities ceased 08/13/24  
Verbal plugging (Y/N) N/A Date permission granted N/A Granted by N/A

Please note: Operator is required to submit a plugging application within 5 days of verbal permission to plug

Freshwater depth(s) ft shows - 680 - 762', 796', drilled on air Open mine(s) (Y/N) depths N  
Salt water depth(s) ft 1099', 1392 - 1558', drilled on air Void(s) encountered (Y/N) depths N  
Coal depth(s) ft show/trace of coal - 24 - 50', 288', 404', 730' Cavern(s) encountered (Y/N) depths N  
Is coal being mined in area (Y/N) N

*Henry W. White 9-4-24*

Reviewed by: \_\_\_\_\_  
**11/15/2024**

API 47-039 - 06401T Farm name James A. & Freda Marie Morton Well number 12643

CASING STRINGS	Hole Size	Casing Size	Depth	New or Used	Grade wt/ft	Basket Depth(s)	Did cement circulate (Y/ N) * Provide details below*
Conductor	30	24	40	new	94.71	-	Yes, grouted from surface
Surface	22	18-5/8	778	new	87.5	-	Yes, 85 bbls to surface
Coal							
Intermediate 1	17-1/2	13-3/8	2231	new	68	-	Yes, 65 bbls to surface
Intermediate 2	12-1/4	9-5/8	5734	new	47	-	2-stage, TOC in 13" csg overlap
Intermediate 3							
Production	8-1/2	7	6076	new	26	-	Yes, trace cmt to surf (5 bbls)
Tubing	N/A						
Packer type and depth set							

Comment Details RKB - 19' above GL, depth reference is all RKB.

CEMENT DATA	Class/Type of Cement	Number of Sacks	Slurry wt (ppg)	Yield (ft <sup>3</sup> /sks)	Volume (ft <sup>3</sup> )	Cement Top (MD)	WOC (hrs)
Conductor	Class A	Grouted from surface	15.6	1.18		0	24
Surface	Class A	1052 (221bbls)	15.6	1.18	1241	0	8
Coal							
Intermediate 1	Class A	1681 (353 bbls)	15.6	1.18	1424	0	12
Intermediate 2	Class A	2 stage job by DV tool *	15.6	1st - 1.19, 2nd - 1.18	1461	~ 2250' (CBL)	12
Intermediate 3							
Production	CemFit Heal	485 (115 bbls)	14.7	1.32	616	428' (CBL)	12.5
Tubing							

\* 9-5/8" casing 2 stage cement job - 1st stage pumped 393sx (83 bbls + CemNET LCM), 2nd stage pumped 842 sxs (176 bbls + CemNET LCM)

Drillers TD (ft) 8634 MD / 5211 - 5220 TVD  
 Deepest formation penetrated Oriskany  
 Plug back procedure N/A

Loggers TD (ft) N/A  
 Plug back to (ft) N/A

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Kick off depth (ft) 2350 - 2400'

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Check all wireline logs run  caliper  density  deviated/directional  induction  
 neutron  resistivity  gamma ray  temperature  sonic

Well cored  Yes  No Conventional Sidewall Were cuttings collected  Yes  No

DESCRIBE THE CENTRALIZER PLACEMENT USED FOR EACH CASING STRING \_\_\_\_\_

18-5/8" surface - Innovex 1 welded bow per every 3rd joint (7 total ran)  
 13-3/8" intermediate 1 - Innovex 1 welded bow centralizers per every 3rd joint (19 total ran)  
 9-5/8" intermediate 2 - Innovex CentraMax slip-on bowspring placed from csg shoe to 2100' 1 per 1 joint, 2100' to 1960' 1 per 3 joints (80 total ran)  
 7" production string - Innovex CentraMax slip-on bowspring placed 2 per 1 joint on bottom 6 joints, then 1 per joint until 2100' and 1 per 3 joints to 1975' (100 total ran)

WAS WELL COMPLETED AS SHOT HOLE  Yes  No DETAILS \_\_\_\_\_

WAS WELL COMPLETED OPEN HOLE?  Yes  No DETAILS Lateral was left as an openhole completion through the Oriskany formation and acid stimulated with 15% HCl acid.

WERE TRACERS USED  Yes  No TYPE OF TRACER(S) USED \_\_\_\_\_



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<u>PRODUCING FORMATION(S)</u>	<u>DEPTHS</u>	
Oriskany Landing Point	5220	TVD 6464 MD
Oriskany TD of Lateral - projection to bit	5211	8634

Please insert additional pages as applicable.

GAS TEST  Build up  Drawdown  Open Flow OIL TEST  Flow  Pump

SHUT-IN PRESSURE Surface 1633 psi Bottom Hole 1634 psi DURATION OF TEST 1 hrs

OPEN FLOW Gas \_\_\_\_\_ mcfpd Oil \_\_\_\_\_ bpd NGL \_\_\_\_\_ bpd Water \_\_\_\_\_ bpd GAS MEASURED BY  Estimated  Orifice  Pilot

LITHOLOGY/ FORMATION	TOP DEPTH IN FT NAME TVD	BOTTOM DEPTH IN FT TVD	TOP DEPTH IN FT MD	BOTTOM DEPTH IN FT MD	DESCRIBE ROCK TYPE AND RECORD QUANTITY AND TYPE OF FLUID (FRESHWATER, BRINE, OIL, GAS, H <sub>2</sub> S, ETC)
Shale / Sand / Silt	0	812	0	812	Fresh water shows observed @ 680 - 762', 796', drilled on air
Salt Sand	1020	1426	1020	1426	Salt water shows observed @ 1099', 1392 - 1558', drilled on air
Maxton Sand	1520	1572	1520	1572	
Little Lime	1572	1598	1564	1598	
Big Lime	1625	1660	1625	1660	
Big Injun	1695	1790	1695	1790	
Weir	1874	2039	1874	2039	
Coffee	2187	2197	2187	2197	
Berea	2197	2200	2197	2200	
Lower Huron	3374	4195	3440	4429	
Marcellus	5069	5093	5684	5717	
Onondaga	5093	5212	5717	6271	
Oriskany	5212	5233 projected	6271	-	Did not exit out the bottom of formation, came out of the top at TD

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Please insert additional pages as applicable.

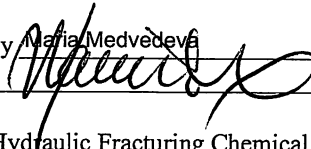
Drilling Contractor Precision Drilling Company, LP  
Address 10350 Richmond Ave, Suite 700 City Houston State TX Zip 77042

Logging Company Nine Energy - 2001 Kirby Dr Ste 200, Houston TX 77079  
Address Baker Atlas - PO Box 301057, Dallas TX 75303 City \_\_\_\_\_ State \_\_\_\_\_ Zip \_\_\_\_\_

Cementing Company Schlumberger Technology Corporation  
Address PO Box 732149 City Dallas State TX Zip 75373-2149

Stimulating Company CUDD Energy Services  
Address 2828 Technology Forest Blvd City The Woodlands State TX Zip 77381

Please insert additional pages as applicable.

Completed by Maria Medvedeva Telephone 304-410-4313  
Signature  Title Senior Wells Engineer STS Date 09/03/24

Submittal of Hydraulic Fracturing Chemical Disclosure Information Attach copy of FRACFOCUS Registry

11/15/2024



# Coco B well 12643

As-built as of 08/29/24

~ not to scale ~

Max surface operating pressure 1800 psig  
Max reservoir pressure 2075 psig

**Minimum Casing Design Safety Factors**

Internal Yield: 1.2  
Collapse: 1.2  
Tensile: 1.6

**Well Pad Elevations**

Pre Construction GL: 856 ft  
Post Construction GL: 845 ft  
KB to GL: 19 ft

24" 94.71# Conductor @ 40 ft GL  
Grouted from surface

**18-5/8" Surface csg @ 778 ft KB**

87.5 ppf J-55 ERW R4 w/ BTC  
Internal Yield: 2250 psi  
Collapse: 630 psi  
Body Yield Strength: 1367 Klbs  
Joint Strength: 1329 Klbs  
Cemented w/ 1052 sx (221 bbls) 15.6 ppg Class A to surface, 85 bbls returned

Good TOC 428' TVD / MD KB

**13-3/8" Intermed1 csg @ 2231 ft TVD / MD KB**

68 ppf J-55 ERW R3 w/ BTC  
Internal Yield: 3450 psi (SF = 1.9 relative to max reservoir press)  
Collapse: 1950 psi (SF = 1.9 relative to 0.46 psi/ft overburden gradient)  
Body Yield Strength: 1069 Klbs (SF = 7.0 relative to dry pipe weight)  
Joint Strength: 1140 Klbs (SF = 7.5 relative to dry pipe weight)  
Cemented w/ 1681 sx (353 bbls) 15.6 ppg Class A to surface, 65 bbls returned

Dark Grey fill indicates cement placed during well drilling

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**9-5/8" Intermed2 csg @ 5091 ft TVD KB (5734' ft MD KB)**

47 ppf L-80 HC ERW R3 w/ GB CD Butt connection  
Internal Yield: 6870 psi (SF = 3.8 relative to max reservoir press)  
Collapse: 4750 psi (SF = 1.8 relative to 0.50 psi/ft overburden gradient)  
Body Yield Strength: 1086 Klbs (SF = 4.0 relative to dry pipe weight)  
Joint Strength: 1084 Klbs (SF = 4.0 relative to dry pipe weight)  
Uniaxial Bend Ratio: up to 8.13 deg/100 ft  
2 stage 15.6 ppg Class A cement via stage tool / ICP at 4522' MD - 1<sup>st</sup> stage 393 sx (83bbls + CemNET), 2<sup>nd</sup> stage 842sx (176 bbls + CemNET)  
Per CBL TOC is ~2250', partial to full bond

TD 5212 - 5225 ft TVD KB  
(8634 ft MD KB)

VSEC 917 ft

Lateral 2506 ft

8-1/2" hole

6-1/4" hole

Oriskany SS 5212 - 5233 projected ft TVD KB

**7" Flowstring @ 5187 ft TVD KB (6076 ft MD KB)**

26 ppf L-80 HC ERW R3 w/ VAM21  
Internal Yield: 7240 psi (SF = 4.0 relative to max reservoir press)  
Collapse: 5410 psi (SF = 2.0 relative to 0.50 psi/ft overburden gradient)  
Body Yield Strength: 604 Klbs (SF = 3.8 relative to dry pipe weight)  
Joint Strength: 604 Klbs (SF = 3.8 relative to dry pipe weight)  
Uniaxial Bend Ratio: up to 8.66 deg/100 ft  
Cemented w/ 485 sx (115 bbls) of 14.7 ppg CemFit Heal SLB blend, observed 5 bbls of trace cmt to surface. CBL TOC shows @ 428'.

VSEC 3423 ft

11/15/2024

Fresh Water shows  
680 - 762', 796'

Salt Sand 1020 - 1426' KB  
Salt water shows 1099', 1392 - 1558'

Maxton Sand 1520 - 1572' KB  
Little Lime 1572 - 1598' KB

Big Lime 1625 - 1660' KB

Big Injun 1695 - 1790' KB

Weir SS 1874 - 2039 ft KB

Berea SS 2197 - 2200 ft KB

KOP @ 2350 - 2400 ft  
MD KB

Lower Huron Shale  
3374 - 4195 ft TVD KB  
(3440 - 4429 MD KB)

Marcellus Shale  
5069 - 5093 ft TVD KB (5684 - 5717 MD KB)

Onondaga LS  
5093 - 5212 ft TVD KB  
(5717 - 6271 ft MD KB)

17-1/2" hole

12-1/4" hole

30" hole

22" hole

## TC Energy CoCo B 12643 Surveys 0ft to update Survey Report

(Non-Def Survey)

Report Date: May 19, 2024 - 01:14 AM  
 Client: TC Energy  
 Field: WV Kanawha County (NAD 27)  
 Structure / Slot: TC Energy CoCo B Pad / CoCo B 12643  
 Well: CoCo B 12643  
 Borehole: Coco B 12643  
 UWI / API#: Unknown / Unknown  
 Survey Name: TC Energy CoCo B 12643 Surveys 0ft to update  
 Survey Date: May 02, 2024  
 Tort / AHD / DDI / ERD Ratio: 149.313 ° / 1870.931 ft / 5.500 / 0.366  
 Coordinate Reference System: NAD27 West Virginia State Plane, Southern Zone, US Feet  
 Location Lat / Long: N 38° 24' 45.85343", W 81° 28' 19.80268"  
 Location Grid N/E Y/X: N 514763.698 ftUS, E 1864710.771 ftUS  
 CRS Grid Convergence Angle: -0.2919 °  
 Grid Scale Factor: 0.99993359  
 Version / Patch: 2.10.835.0

Survey / DLS Computation: Minimum Curvature / Lubinski  
 Vertical Section Azimuth: 61.402 ° (Grid North)  
 Vertical Section Origin: 0.000 ft, 0.000 ft  
 TVD Reference Datum: RKB  
 TVD Reference Elevation: 864.000 ft above Mean Sea Level  
 Seabed / Ground Elevation: 845.000 ft above Mean Sea Level  
 Magnetic Declination: -8.414 °  
 Total Gravity Field Strength: 999.2457mg (9.80665 Based)  
 Gravity Model: GARM  
 Total Magnetic Field Strength: 50522.274 nT  
 Magnetic Dip Angle: 65.267 °  
 Declination Date: April 24, 2024  
 Magnetic Declination Model: HDGM 2024  
 North Reference: Grid North  
 Grid Convergence Used: -0.2919 °  
 Total Corr Mag North->Grid North: -8.1224 °  
 Local Coord Referenced To: Well Head

Comments	MD (ft)	Incl (°)	Azim Grid (°)	TVD (ft)	VSEC (ft)	NS (N/S ft)	EW (E/W ft)	Closure (ft)	Closure Azimuth (°)	DLS (°/100ft)	TF (°)
Surface	0.00	0.00	0.00	0.00	0.00	N 0.00	E 0.00	0.00	0.00	N/A	147.48M
	837.00	0.62	147.48	836.98	0.31	S 3.82	E 2.43	4.53	147.48	0.07	116.92M
	882.00	0.31	116.92	881.98	0.40	S 4.08	E 2.67	4.88	146.75	0.86	99.09M
	971.00	0.39	99.09	970.98	0.77	S 4.24	E 3.19	5.30	143.04	0.15	72.06M
	1150.00	0.47	72.06	1149.98	1.97	S 4.11	E 4.49	6.08	132.46	0.12	58.7M
	1240.00	0.47	58.70	1239.97	2.71	S 3.80	E 5.15	6.40	126.40	0.12	68.21M
	1329.00	0.63	68.21	1328.97	3.56	S 3.43	E 5.92	6.84	120.08	0.21	64.6M
	1418.00	0.59	64.60	1417.96	4.50	S 3.05	E 6.79	7.44	114.20	0.06	95.25M
	1598.00	0.55	95.25	1597.96	6.14	S 2.73	E 8.49	8.92	107.85	0.17	108.36M
	1777.00	0.42	108.36	1776.95	7.30	S 3.02	E 9.96	10.41	106.85	0.10	109.16M
	1866.00	0.35	109.16	1865.95	7.71	S 3.21	E 10.53	11.01	106.95	0.08	119.44M
	1955.00	0.39	119.44	1954.94	8.05	S 3.45	E 11.05	11.58	107.33	0.09	105.15M
	2045.00	0.56	105.15	2044.94	8.53	S 3.71	E 11.74	12.32	107.55	0.23	108.87M
	2134.00	0.61	108.87	2133.94	9.17	S 3.98	E 12.61	13.22	107.52	0.07	117.9M
	2192.00	0.89	117.90	2191.93	9.62	S 4.29	E 13.30	13.98	107.88	0.52	150.33M
	2296.00	1.38	150.33	2295.91	10.09	S 5.76	E 14.63	15.73	111.47	0.76	240.91M
	2386.00	0.76	240.91	2385.90	9.52	S 6.99	E 14.65	16.23	115.50	1.76	299.86M
	2475.00	7.03	299.86	2474.66	6.07	S 4.56	E 9.40	10.45	115.87	7.49	304.96M
	2565.00	11.73	304.96	2563.44	-0.88	N 3.43	W 2.88	4.47	319.99	5.30	22.91R
	2656.00	14.72	309.85	2652.02	-9.25	N 16.14	W 19.34	25.19	309.85	3.51	52.21L
	2745.00	16.15	303.63	2737.81	-19.18	N 30.24	W 38.33	48.82	308.28	2.46	9.28L
	2835.00	18.55	302.40	2823.71	-31.95	N 44.85	W 60.84	75.58	306.40	2.70	6.39L
	2924.00	21.92	301.39	2907.20	-47.13	N 61.09	W 86.98	106.29	305.08	3.81	53.98L
	3013.00	23.33	296.73	2989.36	-65.47	N 77.67	W 116.91	140.36	303.60	2.56	108.37L
	3102.00	23.05	294.45	3071.17	-85.97	N 92.81	W 148.51	175.12	302.00	1.06	93.04R
	3192.00	23.03	299.88	3154.00	-105.76	N 108.87	W 179.81	210.21	301.19	2.36	14.46R
	3281.00	25.79	301.51	3235.04	-124.52	N 127.67	W 211.42	246.98	301.13	3.19	8.34L
	3370.00	29.72	300.35	3313.78	-145.56	N 148.94	W 246.98	288.42	301.09	4.46	1.51L
	3460.00	33.50	300.17	3390.42	-169.95	N 172.71	W 287.72	335.58	300.97	4.20	29.88L
	3550.00	34.51	299.15	3465.02	-196.43	N 197.61	W 331.46	385.90	300.80	1.29	7.72R
	3639.00	36.95	299.70	3537.27	-223.95	N 223.15	W 376.72	437.85	300.64	2.77	79.58R
	3728.00	37.80	305.83	3608.02	-249.79	N 252.38	W 422.09	491.78	300.88	4.29	140.4R
	3818.00	34.70	310.46	3680.60	-270.86	N 285.16	W 463.96	544.58	301.58	4.59	115.39R
	3907.00	33.04	317.68	3754.53	-285.68	N 319.56	W 499.58	593.04	302.60	4.89	87.83R
	3996.00	33.46	325.63	3828.99	-293.90	N 357.77	W 529.78	639.27	304.03	4.92	100.34R
	4086.00	32.87	335.59	3904.39	-294.62	N 400.52	W 553.90	683.54	305.87	6.08	113.08R
	4177.00	31.31	343.83	3981.52	-287.72	N 445.74	W 570.70	724.14	307.99	5.10	94.9R
	4267.00	31.20	351.68	4058.49	-274.60	N 491.28	W 580.59	760.56	310.24	4.52	69.86R
	4356.00	32.45	357.38	4134.13	-256.15	N 537.96	W 585.02	794.76	312.60	3.66	65.08R
	4445.00	33.82	2.30	4208.67	-232.97	N 586.57	W 585.12	828.51	315.04	3.39	97.2R
	4535.00	33.54	8.59	4283.58	-205.07	N 636.20	W 580.40	861.17	317.63	3.89	116.12R
	4624.00	31.85	15.94	4358.51	-173.72	N 683.11	W 570.27	889.86	320.14	4.85	87.41R
	4713.00	32.28	23.76	4433.96	-138.42	N 727.46	W 554.24	914.54	322.70	4.69	85.94R
	4803.00	32.81	31.44	4509.86	-98.25	N 770.28	W 531.83	936.04	325.38	4.63	38.36R
	4892.00	36.38	36.08	4583.13	-53.48	N 812.20	W 503.69	955.71	328.19	4.98	42.92R
	4982.00	40.07	41.24	4653.84	-2.13	N 855.58	W 468.86	975.63	331.28	5.42	47.31R
	5071.00	43.92	47.02	4719.99	54.71	N 898.20	W 427.36	994.69	334.56	6.13	20.32R
	5161.00	50.83	50.29	4780.91	119.26	N 941.83	W 377.62	1014.71	338.15	8.13	16.91R
	5249.00	56.30	52.28	4833.16	188.94	N 986.05	W 322.37	1037.41	341.90	6.48	148.75L
	5339.00	54.81	51.17	4884.07	262.10	N 1032.02	W 264.11	1065.28	345.65	1.94	61.67R
	5428.00	55.83	53.41	4934.71	334.36	N 1076.78	W 206.21	1096.34	349.16	2.37	78.86R
	5518.00	56.60	57.65	4984.77	408.74	N 1119.09	W 144.56	1128.38	352.64	4.01	64.24R
	5607.00	58.75	62.62	5032.38	483.89	N 1156.48	W 79.35	1159.20	356.07	5.30	13.37R
	5696.00	62.72	63.68	5075.88	561.47	N 1191.53	W 10.09	1191.57	359.51	4.58	19.92L
PTB	5785.00	67.00	62.00	5113.69	642.00	N 1228.31	E 61.56	1229.86	2.87	5.10	

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Survey Type: Non-Def Survey

Survey Error Model: ISCWSA Rev 3 \*\*\* 3-D 95.000% Confidence 2.7955 sigma  
 Survey Program:

Description	Part	MD From (ft)	MD To (ft)	EOU Freq (ft)	Hole Size (in)	Casing Diameter (in)	Survey Tool Type	Borehole / Survey
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11/15/2024

Comments	MD (ft)	Incl (°)	Azim Grid (°)	TVD (ft)	VSEC (ft)	NS (N/S ft)	EW (E/W ft)	Closure (ft)	Closure Azimuth (°)	DLS (°/100ft)	TF (°)
		1	0.000	19.000	Act Stns	22.000	18.625	B006Ma_MWD+IGRF-Depth Only		Coco B 12643 / TC Energy CoCo B 12643 Surveys 0ft to update	
		1	19.000	837.000	1/98.425	22.000	18.625	B006Ma_MWD+IGRF		Coco B 12643 / TC Energy CoCo B 12643 Surveys 0ft to update	
		1	837.000	5785.000	Act Stns	22.000	18.625	B006Ma_MWD+IGRF		Coco B 12643 / TC Energy CoCo B 12643 Surveys 0ft to update	

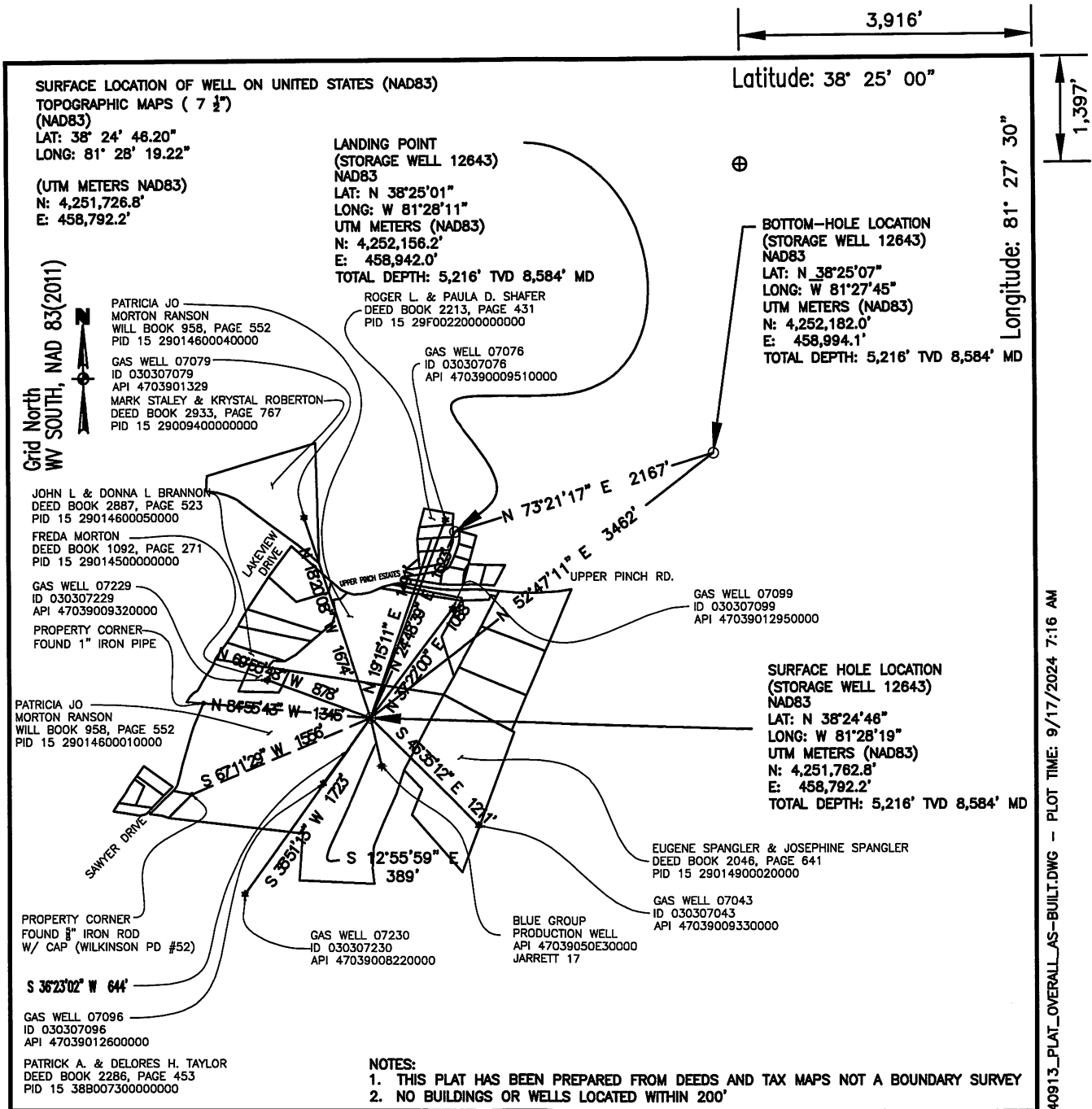
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FILE # \_\_\_\_\_  
 DRAWING # 12643  
 SCALE: 1" = 1200'  
 MINIMUM DEGREE OF ACCURACY: 1:2,500'  
 PROVEN SOURCE OF ELEVATION: STATIC GPS SURVEY WITH TIES TO NGS DATA

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 DEPARTMENT OF ENVIRONMENTAL PROTECTION.  
 Signed: \_\_\_\_\_  
 R.P.E.: \_\_\_\_\_

L.L.S.: Office of Oil and Gas  
 PLACE SEAL HERE

(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS WVDEP  
 OFFICE OF OIL & GAS  
 601 57TH STREET  
 CHARLESTON, WV 25304



DATE: SEP 16 2024  
 OPERATOR'S Well # of 12643  
 Environmental Protection  
 API WELL #: 47 039 06401  
 STATE COUNTY PERMIT

Well Type:  Oil  Waste Disposal  Production  Deep  
 Gas  Liquid Injection  Storage  Shallow

WATERSHED: COOPERS CREEK-ELK RIVER (050500070908) ELEVATION: 856'  
 COUNTY/DISTRICT: 039-KANAWHA / 4-ELK QUADRANGLE: 258-BLUE CREEK

SURFACE OWNER: PATRICIA JO MORTON RANSON ACREAGE: 57 1/2  
 OIL & GAS ROYALTY OWNER: LEASE NO. 1049098-0000 (SURFACE) (BOTTOM HOLE) REFER TO FORM WW-2A1 ACREAGE: 851.5

DRILL  CONVERT  DRILL DEEPER  REDRILL  FRACTURE OR STIMULATE   
 PLUG OFF OLD FORMATION  PERFORATE NEW FORMATION  PLUG & ABANDON   
 CLEAN OUT & REPLUG  OTHER CHANGE  SPECIFY): \_\_\_\_\_

TARGET FORMATION: ORISKANY SANDSTONE (STORAGE RESERVOIR) ESTIMATED DEPTH: 5,216 FT. TVD 8,584 FT. MD

WELL OPERATOR COLUMBIA GAS TRANSMISSION, LLC DESIGNATED AGENT MARIA MEDVEDEVA  
 Address 1700 MACCORKLE AVE. SE PO BOX 1273 Address 1700 MACCORKLE AVE. SE PO BOX 1273  
 City CHARLESTON State WV Zip Code 25325-1273 City CHARLESTON State WV Zip Code 25325-1273

G:\TRANSCANADA\507004926\_COCO\_B\_NEW\_WELLS\PIPELINE\DRAWING\LANDPLATS\NEW PLATS\_20230605\20240913\_PLAT\_OVERALL\_AS-BUILT.DWG - PLOT TIME: 9/17/2024 7:16 AM



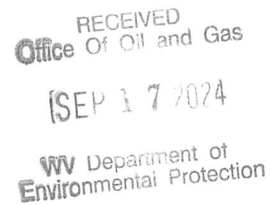
**Columbia Gas Transmission, LLC**

1700 MacCorkle Ave., SE, Charleston, WV, USA 25314



September 17, 2024

WV DEP – Office of Oil & Gas  
601 57<sup>th</sup> Street, SE  
Charleston, WV 25304-2345



Enclosed are post well work permit applications for the following Columbia Gas Transmission new drill storage wells:

Coco B 12643 (API 47-039-06401T)  
Coco B 12644 (API 47-039-06402T)

Please note that the as-drilled Mylar survey plats will be mailed directly to the WVDEP Office of Oil and Gas by the civil engineering contractor, Mott Mac. Included with this submission are the final electronic documents provided by Mott Mac.

If you have questions, feel free to call.

Regards,

A handwritten signature in black ink, appearing to read "Maria Medvedeva".

Maria Medvedeva  
Senior Wells Engineer  
Well Engineering & Technology  
Columbia Gas Transmission, LLC  
Mob: 304-410-4313  
maria\_medvedeva@tcenergy.com