



T C Energy
Coco B 12643, Kanawha, AS Drilled

Job No. 11424
Survey Date: Monday, July 8, 2024

True North Directional Services
Survey Report

Tuesday, July 9, 2024

Surface Coordinates: 514,763.54 N, 1,864,711.46 E (38° 24' 45.8519" N, 81° 28' 19.7940" W)
Grid Coordinate System: NAD27 West Virginia State Planes, Southern Zone, US Foot

Surface Coordinates relative to Coco B 12643: 0.00 N, 0.00 E (Grid)

Kelly Bushing Elevation: 866.00ft above Mean Sea Level
Kelly Bushing Elevation: 866.00ft above Mean Sea Level
Kelly Bushing Elevation: 19.00ft above Ground Level
Ground Level: 847.00ft above Mean Sea Level

Survey Ref: svy1268

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WV Department of
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KellyDown - Version: 4.01.04.02



11/15/2024



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Coco B 12643



Survey Report for Kanawha, 12643, AS Drilled

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	Northings (ft)	Eastings (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)
5,696.00	62.72	63.68	5,075.88	1,191.53 N	10.09 W	561.52	
5,700.00	63.06	63.62	5,077.70	1,193.11 N	6.90 W	565.07	8.659
5,750.00	67.33	62.84	5,098.67	1,213.56 N	33.61 E	610.43	8.659
5,800.00	71.10	63.10	5,116.32	1,234.98 N	75.19 E	657.19	7.548
5,850.00	72.59	64.08	5,131.62	1,256.13 N	117.83 E	704.75	3.514
5,900.00	73.29	64.64	5,146.31	1,276.78 N	160.93 E	752.48	1.758
5,950.00	74.83	65.56	5,160.09	1,297.04 N	204.52 E	800.44	3.558
6,000.00	76.96	66.51	5,172.27	1,316.74 N	248.82 E	848.77	4.633
6,041.00	78.60	67.60	5,180.95	1,332.37 N	285.72 E	888.65	4.774
6,050.00	78.94	67.52	5,182.70	1,335.73 N	293.88 E	897.43	3.892
6,100.00	80.83	67.06	5,191.48	1,354.74 N	339.28 E	946.39	3.892
6,150.00	81.96	66.81	5,198.91	1,374.12 N	384.77 E	995.60	2.306
6,200.00	83.53	68.59	5,205.24	1,392.99 N	430.64 E	1,044.90	4.727
6,250.00	85.02	70.79	5,210.16	1,410.21 N	477.31 E	1,094.13	5.294
6,300.00	85.73	72.00	5,214.20	1,426.00 N	524.58 E	1,143.19	2.806
6,350.00	86.64	72.42	5,217.56	1,441.27 N	572.07 E	1,192.19	2.008
6,400.00	87.87	73.31	5,219.98	1,456.05 N	619.77 E	1,241.15	3.021
6,450.00	90.10	74.28	5,221.02	1,469.95 N	667.79 E	1,289.96	4.875
6,500.00	90.74	74.18	5,220.38	1,483.44 N	715.93 E	1,338.68	1.286
6,550.00	90.23	73.63	5,219.93	1,497.29 N	763.97 E	1,387.49	1.489
6,553.00	90.20	73.60	5,219.92	1,498.14 N	766.85 E	1,390.42	1.607
6,600.00	90.23	77.42	5,219.76	1,509.84 N	812.36 E	1,435.98	8.134
6,650.00	91.02	77.90	5,219.21	1,520.49 N	861.21 E	1,483.97	1.850
6,700.00	91.69	77.72	5,217.99	1,530.99 N	910.08 E	1,531.90	1.375
6,750.00	91.48	76.96	5,216.46	1,541.92 N	958.84 E	1,579.95	1.578
6,800.00	90.15	76.18	5,215.70	1,553.55 N	1,007.46 E	1,628.21	3.076
6,850.00	89.50	75.32	5,216.01	1,565.82 N	1,055.93 E	1,676.64	2.160
6,900.00	89.65	73.76	5,216.40	1,579.07 N	1,104.14 E	1,725.31	3.128
6,950.00	90.14	73.22	5,216.52	1,593.39 N	1,152.05 E	1,774.22	1.460
7,000.00	91.20	71.90	5,215.95	1,608.32 N	1,199.76 E	1,823.26	3.384
7,050.00	90.57	71.13	5,215.20	1,624.18 N	1,247.17 E	1,872.48	1.980
7,100.00	90.63	70.70	5,214.77	1,640.57 N	1,294.41 E	1,921.79	0.873
7,150.00	90.58	70.74	5,213.93	1,657.09 N	1,341.59 E	1,971.13	0.114
7,200.00	89.15	70.95	5,214.22	1,673.52 N	1,388.81 E	2,020.45	2.896
7,250.00	88.71	71.60	5,215.18	1,689.62 N	1,436.14 E	2,069.71	1.562
7,300.00	88.82	72.58	5,216.32	1,705.01 N	1,483.70 E	2,118.83	1.967
7,350.00	88.90	73.06	5,217.28	1,719.73 N	1,531.47 E	2,167.83	0.981
7,400.00	86.94	72.90	5,218.99	1,734.33 N	1,579.26 E	2,216.77	3.923
7,445.00	87.60	72.70	5,221.16	1,747.62 N	1,622.20 E	2,260.83	1.526
7,450.00	87.69	72.82	5,221.36	1,749.10 N	1,626.97 E	2,265.73	3.021
7,500.00	88.56	73.78	5,222.99	1,763.37 N	1,674.86 E	2,314.61	2.583
7,550.00	89.95	73.84	5,223.82	1,777.36 N	1,722.85 E	2,363.44	2.792
7,600.00	91.59	73.77	5,222.89	1,791.17 N	1,770.90 E	2,412.24	3.283
7,650.00	91.08	74.24	5,221.66	1,805.17 N	1,818.88 E	2,461.07	1.388
7,668.00	92.10	74.40	5,221.16	1,810.03 N	1,836.20 E	2,478.60	5.719
7,700.00	92.53	73.69	5,219.86	1,818.82 N	1,866.95 E	2,509.80	2.590
7,750.00	90.85	73.65	5,218.12	1,832.99 N	1,914.86 E	2,558.65	3.354
7,800.00	88.21	73.89	5,218.53	1,846.95 N	1,962.87 E	2,607.48	5.308
7,850.00	88.37	74.07	5,220.05	1,860.73 N	2,010.91 E	2,656.26	0.494
7,900.00	88.18	73.84	5,221.60	1,874.57 N	2,058.93 E	2,705.05	0.606

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Survey Report for Kanawha, 12643, AS Drilled

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	Northings (ft)	Eastings (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)
7,950.00	89.01	74.13	5,222.95	1,888.38 N	2,106.96 E	2,753.83	1.755
8,000.00	89.92	74.09	5,223.18	1,901.95 N	2,155.09 E	2,802.58	1.828
8,050.00	89.25	73.53	5,223.49	1,915.93 N	2,203.09 E	2,851.42	1.756
8,100.00	89.04	72.71	5,224.36	1,930.37 N	2,250.95 E	2,900.35	1.689
8,150.00	89.84	71.42	5,224.92	1,945.75 N	2,298.52 E	2,949.48	3.039
8,200.00	89.72	71.20	5,225.03	1,961.85 N	2,345.86 E	2,998.75	0.495
8,250.00	89.31	70.12	5,225.46	1,978.40 N	2,393.04 E	3,048.09	2.314
8,300.00	89.78	70.78	5,225.95	1,995.21 N	2,440.12 E	3,097.48	1.637
8,350.00	91.16	72.16	5,225.41	2,010.97 N	2,487.57 E	3,146.68	3.888
8,381.00	91.30	72.30	5,224.74	2,020.43 N	2,517.08 E	3,177.12	0.643
8,400.00	91.00	72.09	5,224.36	2,026.24 N	2,535.17 E	3,195.78	1.912
8,450.00	90.87	71.59	5,223.69	2,041.83 N	2,582.67 E	3,244.95	1.041
8,500.00	92.39	71.72	5,222.45	2,057.67 N	2,630.08 E	3,294.15	3.056
8,550.00	94.49	72.67	5,219.43	2,072.98 N	2,677.58 E	3,343.18	4.612
8,584.00	95.60	74.30	5,216.41	2,082.62 N	2,710.04 E	3,376.30	5.777

Bit Projection

8,608.00	96.37	76.43	5,213.91	2,088.65 N	2,733.13 E	3,399.46	9.406
8,634.00	96.37	76.43	5,211.02	2,094.71 N	2,758.25 E	3,424.42	0.000

All data is in Feet (US Survey) unless otherwise stated. Directions and coordinates are relative to Grid North. Vertical depths are relative to 12643. Northings and Eastings are relative to Coco B 12643.

The dogleg severity is in Degrees per 100 feet (US Survey). Vertical Section is from Coco B 12643 calculated along an azimuth of 61.40° (Grid).

Based upon minimum curvature calculations, at a measured depth of 8,634.00ft, the bottom hole displacement is 3,463.49ft, in the direction of 52.79° (Grid).

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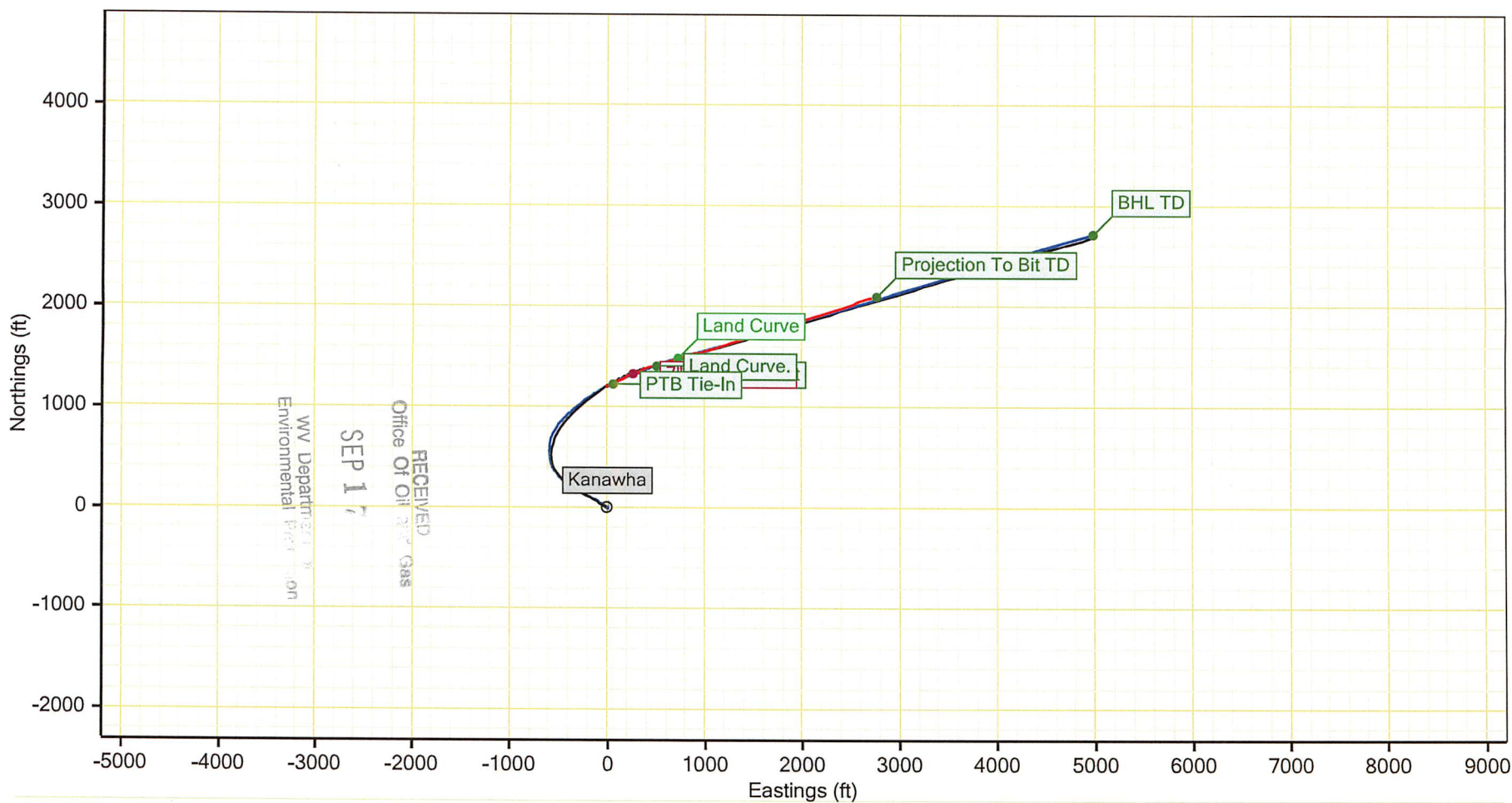
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