



## CBM 93-004 Litholog

Top (m)	Base (m)	Lithology	%	Description
501.9	502.45	Lost core		
502.45	503.4	Sandstone	100	Light grey, fine to medium, friable.
503.4	506.96	Sandstone	60	Light grey, fine to medium, friable. Interbedded with Claystone.
		Claystone	30	Dark grey, Siltstone laminations and cross laminations.
		Siltstone	10	Light to medium grey.
506.96	507.86	Lost core		
507.86	512.8	Claystone	60	Medium grey claystone. Interbedded Sandstone & Claystone.
		Sandstone	40	Light grey medium grained friable.
512.8	516.36	Lost core		
516.36	518.26	Sandstone	80	Light grey fine to medium grained friable.
		Claystone	15	Dark grey. Interbeds in Sandstone.
		Carbonaceous Shale	5	Dark grey to black, rare carb laminations. Weathered Coal. At Base.
518.26	518.56	Lost core		
518.56	519.5	Sandstone	80	Light grey fine to medium grained friable.
		Claystone	15	Dark grey. Interbeds in Sandstone.
		Carbonaceous Shale	5	Dark grey to black, rare carb laminations. Weathered Coal. At Base.
519.5	522.2	Sandstone	100	Light grey fine grained. Not as friable.
522.2	525	Sandstone	100	Light grey medium to occasional fine grained, friable.
525	527.36	Lost core		
527.36	533.96	Sandstone	100	Light grey fine to medium grained, friable.
533.96	538.41	Lost core		
538.41	539.98	Sandstone	100	Light grey medium grained friable.
539.98	544.92	Lost core		
544.92	545.5	Sandstone	100	light grey fine-medium grained friable
545.5	546	Coal	100	Black dull >10% brightness, fracture
546	551.36	Lost Core		
551.36	552	Coal	100	Black dull >10% brightness, fracture
552	558	Coal	85	Black dull >10% brightness, fracture, Cleating occasional desorptions # 1,2,3,4,5,6
		Shale	15	Black, Fractured

558	560.4	coal	100	Black dull >10% fracture Desorptions #7,8
560.4	561.47	Claystone	70	Light grey claystone interlaminated with fine grained sandstone and occasional dary grey
		Sandstone	25	siltstone
		Siltstone	5	
561.47	561.53	coal	100	Black dull >10% brightness no cleats
561.53	562.22	Sandstone	80	Fine grained sandstone interlaminated and banded with light grey claystone
		Claystone	20	
562.22	562.39	Claystone	100	Light grey claystone with rare occasional coaly wisps towards the bottom
562.39	563.39	coal	90	Black dull >10% brightness fractured occassional cleats Desorption #9
		Shale	10	black fractured
563.39	565.75	Claystone	90	Light grey Claystone with ocassional laminatiions of siltstone
		Siltstone	10	
565.75	566.85	Coal	100	Black 10-40% brightness many cleats
566.85	567	shale	100	Black carbonaceous shale
567	567.85	coal	80	black dull >10% brightness few to no cleats
		shale	20	Black fractured
567.85	568	shale	100	Black carbonaceous shale fractured
568	568.58	Coal	100	Black dull >10% brightness few to no cleats
568.58	568.74	shale	100	Black carbonaceous shale fractured
568.74	568.88	Coal	100	Black dull >10% brightness some cleating present
568.88	1	Sandstone	50	Light grey medium grained, Interlaminated and Interbedded with siltstone
		Siltstone	50	Light grey interlamineated with Sandstone, rare Carb laminations
569.93	571.23	Lost Core		
568.87	570.05	Sandstone	50	Light grey medium grained, Interlaminated and Interbedded with siltstone
		Siltstone	50	Light grey interlamineated with Sandstone, rare Carb laminations
570.05	575	Sandstone	90	Light grey medium grained, Interlaminated with siltstone, Occational pebbles
		Siltstone	10	
575	577.1	Sandstone	75	Light grey medium to coarse grained, rare carb laminations and coal wisps
		Siltstone	25	
577.1	580.43	Sandstone	90	Light grey medium grained, Interlaminated with siltstone
		Siltstone	10	Light grey, rare Carb laminations
580.43	580.86	Lost core		
580	582.88	Sandstone	50	Light grey, medium grained, interbedded Siltstone and Claystone

		Siltstone	30	
		Claystone	20	
582.88	585.8	Coal	90	Black dull >10% brightness few to no cleats
		Shale	10	
585.8	587.4	Siltstone	50	Light grey, interbedded with Sandstone and Carb Shale
		Carbonaceous Shale	30	
		Sandstone	20	
587.4	588.23	Sandstone	100	Light Grey medium grained
588.23	588.7	Lost core		
588.7	589.6	Sandstone	100	Light Grey
589.6	591	Lost core		
591	593.17	Lost core		
593.17	593.5	Sandstone	100	Light Grey medium grained
593.5	595.45	Lost core		
595.45	597	Sandstone	100	Light Grey medium grained, rare carb laminations and Coal whisps
597	597.56	Lost core		
597.56	599.2	Sandstone	100	Light Grey medium grained, rare carb laminations and Coal whisps
599.2	599.3	Coal	100	Black Dull >10%, fractured
599.3	612.9	Sandstone	100	Light Grey medium grained, rare carb laminations and Coal whisps
612.9	622.64	Coal	100	Black-Brown dull >10% brightness, Cleating within bright bands
622.64	625.5	Siltstone	50	Light grey interlaminated with claystone some carbonaceous laminations
		Claystone	40	Darrk grey interlaminated
		Sandstone	10	
625.5	626.54	Sandstone	100	Light grey medium grained
626.54	626.74	Lost Core		
626.74	636.79	Sandstone	100	Light grey medium grained
636.79	654.5	Coal	100	Black - Brown bands at places, Dull >10% brightness
654.5	665.33	Sandstone	85	Light Grey medium grained, Interlaminated with carb Shale
		Carbonaceous Shale	15	
665.33	672.05	Coal	100	Black - Brown bands at places, Dull >10% brightness
672.05	674.9	Sandstone	100	Light Grey Fine grained, rare carb laminations
674.9	675.05	Coal	100	Black Dull >10% brightness Fractured
675.05	675.25	Carbonaceous Shale	100	Black, Fractured

675.25	677.81	Siltstone	60	Light Grey , Interlaminated with sandstone and Claystone
		Claystone	40	Dark Grey, Siltstone laminations
677.81	687.07	Coal	100	Black Dull >10% brightness Fractured
687.07	690.76	Siltstone	50	Light Grey, Interbedded with sandstone , interlaminated claystone
		Sandstone	50	
690.76	693.1	Sandstone	100	Light Grey, medium grained, Friable, rare carb interlaminations
693.1	694.25	Sandstone	100	Black Dull >10% brightness Fractured
694.25	698.6	Coal		Black Dull >10% brightness Fractured
698.6	699	Lost core		
699	706.66	Coal	100	Black Dull >10% brightness Fractured
706.66	712.2	Sandstone	100	Light grey medium grained,
712.2	715	Coal	100	Black Dull >10% brightness Fractured
715	715.35	Carbonaceous Shale	100	Black dull
715.35	718.25	Siltstone	100	Light Grey, hard
718.25	720.5	Siltstone	50	Light Grey , Interlaminated with Claystone
		Claystone	50	dark grey, interlaminated with Siltstone
720.5	721	Carbonaceous Shale	100	Dark black, fractures
721	721.95	Coal	100	Black Dull >10% brightness Fractured
721.95	723.55	Coal	90	Black coal with claystone fragments
		Claystone	10	
723.55	724.9	Coal	100	Black Dull >10% brightness Fractured
724.9	725.76	Coal	90	Black coal with claystone fragments
		Claystone	10	
725.76	726	Coal	100	Black Dull >10% brightness Fractured
726	727.4	Siltstone	60	Light grey, Interlaminated with claystone
		Claystone	40	Dark grey to black
727.4	731.5	Siltstone	90	Light Grey fine sandy laminations at places
		Sandstone	10	Light Grey fine grained
731.5	733.2	Sandstone	50	Light Grey Medium grained
733.2	735.1	Sandstone	50	Light Grey Medium grained, interlaminated with claystone
		Claystone	50	Dark grey
735.1	739.3	Sandstone	100	Light Grey, medium grained
739.3	752.75	Coal	100	Black Dull >10% brightness Fractured

752.5	756	Siltstone	70	Light Grey, silt grading into fine sand
		Sandstone	30	
756	760.7	Sandstone	100	Light grey, Medium grained
760.7	766.61	Coal	100	Black Dull >10% brightness, Few Bright Bands, Fractured
766.61	766.88	Siltstone	100	Light Grey, compact
766.88	771	Coal	100	Black Dull >10% brightness, Few Bright Bands, Fractured
771	773.8	Carbonaceous Shale	100	Dark Black, fractured
773.8	777.8	Coal	80	Black Dull >10% brightness, Shaley, occassional pyrite Few Bright Bands, Fractured
		Carbonaceous Shale	20	
777.8	783.3	Sandstone	60	Light grey, Interbedded with Siltstone, occassional thin laminations of mudstone
		Siltstone	30	Light grey, Hard
		Mudstone	10	Dark Grey, fine interlaminations with Sandstone and siltstone
783.3	784.14	Coal	80	Black Dull >10% brightness, Shaley, occassional pyrite Few Bright Bands, Fractured
		Carbonaceous Shale	20	
784.14	784.48	Siltstone	70	Light grey, Interbedded
		Sandstone	30	light grey, medium grained,
784.48	792.08	Coal	90	Black, 40 - 10% Brightness, Shaley, occassional Pyrite, Few bright bands, fractured
		Carbonaceous Shale	10	
792.08	792.11	Siltstone	100	Light grey, hard
792.11	792.34	Coal	100	Black Dull >10% brightness Fractured
792.34	792.4	Shale	100	Black dull
792.4	793.15	Siltstone	100	Light Grey, Hard
793.15	793.35	Coal	100	Black Dull >10% brightness Fractured
793.35	794	Sandstone	90	Light grey, medium grained, fine carbonaceous interlaminations
		Carbonaceous Shale	10	
794	794.25	Siltstone	20	Light Grey, silt grading into fine sand
		Sandstone	80	Light grey fine to medium grained
794.25	798	Sandstone	100	Light Grey, medium Grained, Occassional Coal whisps
798	815.1	Sandstone	100	Light grey, medium grained rare coal whisps and fragments
	818.13	Siltstone	70	Light grey, Interlaminated with Sandstone and mudstone
		Sandstone	20	Light Grey, medium grained
		Mudstone	10	dark grey, interlaminated with Siltstone
818.13	824.5	Coal	100	Black Dull >10% brightness Fractured

824.5	828	Siltstone	70	Light grey, Interlaminated with Sandstone and mudstone
		Sandstone	25	Light Grey, medium grained
		Mudstone	5	dark grey, interlaminated with Siltstone
828	834.1	Sandstone	50	Light grey, fine grained, interlaminated and interbedded with Siltstone
		Siltstone	50	Light grey, Interlaminated and interbedded with Sandstone
834.1	836.2	Siltstone	100	Light grey, hard
836.2	841.63	Coal	100	Black Dull >10% brightness Fractured
841.63	845.32	Siltstone	60	Light grey, Interlaminated with Sandstone and mudstone
		Sandstone	30	Light Grey, medium grained
		Claystone	10	dark grey, interlaminated with Siltstone
845.32	846.43	Coal	100	Black Dull >10% brightness Fractured
846.43	846.57	Lost core		
846.57	856.8	Sandstone	100	Light grey, medium grained
856.8	859.4	Claystone	70	Light grey, interlaminated with carb. Shale and fine Siltstone
		Carbonaceous Shale	20	Black- dark grey laminations with claystone
		Siltstone	10	Light grey, interlaminated
859.4	862	Sandstone	100	Light grey, fine grained
862	865.59	Sandstone	75	Light Grey, fine grained, interbedded with Claystone
		Claystone	25	Light grey, interbedded
865.59	866.65	Coal	100	Black, Dull >10% brightness, Fractured with few bright bands
866.65	874.8	Siltstone	40	Light grey, Interlaminated and interbedded with Sandstone and Claystone
		Sandstone	40	
		Claystone	30	
874.8	879.05	Coal	100	Black, Dull >10% brightness, Fractured with few bright bands
879.05	879.45	Claystone	65	Light grey, soft, Interbedded with Carb. Shale, fine laminations of Sandstone
		Carbonaceous Shale	30	Dark grey, Black, interbedded with Claystone
		Sandstone	5	Light grey, Hard, Interlaminated with Claystones
879.45	882	Sandstone	70	Light Grey, fine grained, interbedded with Claystone
		Claystone	30	Light grey, soft, Interbedded with sandstone
882	883.9	Sandstone	80	Light grey, medium grained, Interlaminated Claystone and occasional coal wisps
		Claystone	20	Light grey, soft
883.9	890	Claystone	70	Grey, Silty Claystone, Interlaminates with Siltstone
		Siltstone	20	Light grey

		Sandstone	10	Light grey, fine grained, fine laminations within claystones
890	892.15	Coal	100	Black, Dull >10% brightness, Fractured with few bright bands, D# 98
892.15	892.25	Siltstone	50	Light grey, hard , interlaminated with Claystone
		Claystone	50	
892.25	892.34	Coal	100	Black, Dull >10% brightness, Fractured with few bright bands, D# 98
892.34	892.4	Siltstone	50	Light grey, hard , interlaminated with Claystone
		Claystone	50	
892.4	892.46	Coal	100	Black, Dull >10% brightness, Fractured with few bright bands, D# 98
892.46	912	Claystone	70	Light grey, interbedded
		Sandstone	30	Light grey, fine grained
912	922.07	Sandstone	90	Light grey, medium grained, interlaminated with Siltstone and occassional Coal whisps
		Siltstone	10	
922.07	922.65	Coal	100	Black, Brown bands, dull >10% Brightness, fractured
922.65	930.8	Sandstone	90	Light Grey, Fine grained, Interlaminations of silt and carbonaceous Shale
		Siltstone	10	
930.8	931.58	Sandstone	85	Light grey, medium grained, Carb. Laminations
		Carbonaceous Shale	15	Dark Black, lamination within sandstone
931.58	933.71	Coal	100	Black, Brown bands, dull >10% Brightness, fractured, D# 99, D# 100
933.71	941.15	Sandstone	70	Light Grey, Fine grained, Interlaminations of Siltstone and Mudstone
		Mudstone	20	
		Siltstone	10	
941.15	941.4	Sandstone	85	Light grey, medium grained, Carb. Laminations
		Carbonaceous Shale	15	Dark Black, lamination within sandstone
941.4	942	Coal	100	Black, Brown bands, dull >10% Brightness, fractured
942	943.1	Coal	100	Continues from above
943.1	947.7	Sandstone	80	Light grey, fine, and mid grey, silty, thick to thin bedded & laminated with claystone
		Claystone	15	Dark grey, sometimes carbonaceous
		Siltstone	5	Mid grey
947.7	948.05	Coal	80	Black, dull, 10% bright, slightly pyritic, slightly fractured, grading to carb claystone
		Carbonaceous claystone	20	Black
948.05	950.35	Sandstone	90	Light grey, fine and mid grey silty, thin bedded, claystone laminae
			10	Dark grey, laminae
950.35	956.2	Sandstone	100	Very light grey, mottled white, coarse- medium, soft white clay matrix, quartzo feldspathic

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