

Relatório de Amostragem Mina 13

596.00	1.16	121.92	0.06	595.96	-1.43	3.82
597.00	1.16	122.17	0.05	596.96	-1.45	3.83
598.00	1.16	122.43	0.05	597.96	-1.46	3.85
599.00	1.16	122.78	0.04	598.96	-1.47	3.87
600.00	1.16	123.23	0.04	599.95	-1.48	3.88
601.00	1.17	123.53	0.03	600.95	-1.49	3.90
602.00	1.17	123.88	0.02	601.95	-1.50	3.92
603.00	1.17	124.24	0.02	602.95	-1.51	3.93
604.00	1.17	124.35	0.02	603.95	-1.52	3.95
605.00	1.18	124.48	0.02	604.95	-1.54	3.97
606.00	1.18	124.49	0.02	605.95	-1.55	3.98
607.00	1.19	124.42	0.02	606.95	-1.56	4.00
608.00	1.19	124.51	0.02	607.95	-1.57	4.02
609.00	1.19	124.61	0.01	608.95	-1.58	4.04
610.00	1.19	124.52	0.01	609.95	-1.59	4.05
611.00	1.18	124.23	0.01	610.95	-1.61	4.07
612.00	1.18	124.10	0.01	611.95	-1.62	4.09
613.00	1.18	123.94	0.00	612.95	-1.63	4.10
614.00	1.18	123.78	0.01	613.95	-1.64	4.12
615.00	1.18	123.78	0.02	614.95	-1.65	4.14
616.00	1.18	123.59	0.04	615.95	-1.66	4.16
617.00	1.17	123.46	0.07	616.95	-1.67	4.17
618.00	1.17	123.36	0.10	617.95	-1.69	4.19
619.00	1.17	123.00	0.14	618.95	-1.70	4.21
620.00	1.17	122.59	0.18	619.95	-1.71	4.22
621.00	1.17	122.27	0.22	620.95	-1.72	4.24
622.00	1.17	122.11	0.27	621.95	-1.73	4.26
623.00	1.17	121.95	0.30	622.95	-1.74	4.28
624.00	1.17	121.81	0.33	623.95	-1.75	4.29
625.00	1.16	121.68	0.35	624.95	-1.76	4.31
626.00	1.16	121.66	0.37	625.95	-1.77	4.33
627.00	1.16	121.91	0.36	626.95	-1.78	4.34
628.00	1.16	122.35	0.34	627.95	-1.79	4.36
629.00	1.16	123.04	0.32	628.95	-1.80	4.38
630.00	1.17	123.95	0.28	629.95	-1.82	4.40

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631.00	1.17	125.37	0.25	630.95	-1.83	4.41
632.00	1.18	126.99	0.21	631.95	-1.84	4.43
633.00	1.20	128.64	0.18	632.95	-1.85	4.45
634.00	1.22	130.55	0.16	633.95	-1.87	4.46
635.00	1.24	132.45	0.15	634.95	-1.88	4.48
636.00	1.26	134.35	0.15	635.95	-1.90	4.49
637.00	1.28	136.21	0.16	636.95	-1.91	4.51
638.00	1.29	137.70	0.16	637.95	-1.93	4.52
639.00	1.30	138.99	0.17	638.95	-1.94	4.54
640.00	1.31	139.76	0.18	639.95	-1.96	4.55
641.00	1.30	140.28	0.19	640.95	-1.98	4.57
642.00	1.29	140.06	0.20	641.95	-2.00	4.58
643.00	1.28	139.47	0.21	642.95	-2.01	4.60
644.00	1.25	138.58	0.23	643.95	-2.03	4.61
645.00	1.23	137.17	0.24	644.95	-2.05	4.63
646.00	1.20	135.56	0.25	645.94	-2.06	4.64
647.00	1.17	133.96	0.26	646.94	-2.08	4.66
648.00	1.14	132.22	0.28	647.94	-2.09	4.67
649.00	1.12	130.79	0.29	648.94	-2.10	4.69
650.00	1.10	129.42	0.30	649.94	-2.12	4.70
651.00	1.08	128.48	0.31	650.94	-2.13	4.72
652.00	1.06	127.70	0.32	651.94	-2.14	4.73
653.00	1.04	127.17	0.32	652.94	-2.15	4.74
654.00	1.03	127.00	0.31	653.94	-2.16	4.76
655.00	1.02	127.14	0.31	654.94	-2.17	4.77
656.00	1.01	127.73	0.29	655.94	-2.18	4.79
657.00	1.00	128.53	0.28	656.94	-2.19	4.80
658.00	0.99	129.41	0.27	657.94	-2.20	4.81
659.00	0.98	130.68	0.26	658.94	-2.21	4.83
660.00	0.97	131.88	0.26	659.94	-2.23	4.84
661.00	0.97	133.18	0.27	660.94	-2.24	4.85
662.00	0.96	134.37	0.29	661.94	-2.25	4.87
663.00	0.96	135.68	0.33	662.94	-2.26	4.88
664.00	0.96	137.21	0.35	663.94	-2.27	4.89
665.00	0.96	138.59	0.39	664.94	-2.29	4.90

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666.00	0.97	139.93	0.41	665.94	-2.30	4.91
667.00	0.98	141.15	0.43	666.94	-2.31	4.92
668.00	0.99	142.39	0.44	667.94	-2.32	4.93
669.00	1.00	143.59	0.45	668.94	-2.34	4.94
670.00	1.01	144.49	0.46	669.94	-2.35	4.95
671.00	1.03	145.39	0.45	670.94	-2.37	4.96
672.00	1.04	146.15	0.44	671.94	-2.38	4.97
673.00	1.05	146.83	0.43	672.94	-2.40	4.98
674.00	1.06	147.19	0.42	673.94	-2.41	4.99
675.00	1.07	147.58	0.40	674.94	-2.43	5.00
676.00	1.09	148.06	0.38	675.94	-2.44	5.01
677.00	1.10	148.49	0.37	676.94	-2.46	5.02
678.00	1.11	148.74	0.35	677.94	-2.48	5.03
679.00	1.12	149.05	0.33	678.94	-2.49	5.04
680.00	1.13	149.43	0.32	679.94	-2.51	5.05
681.00	1.14	149.69	0.31	680.94	-2.53	5.06
682.00	1.14	149.78	0.29	681.94	-2.54	5.07
683.00	1.15	149.94	0.28	682.94	-2.56	5.08
684.00	1.15	150.12	0.26	683.94	-2.58	5.09
685.00	1.16	150.24	0.25	684.94	-2.60	5.10
686.00	1.16	150.40	0.23	685.94	-2.61	5.11
687.00	1.16	150.50	0.22	686.94	-2.63	5.12
688.00	1.16	150.64	0.21	687.94	-2.65	5.13
689.00	1.16	150.77	0.21	688.94	-2.67	5.14
690.00	1.16	150.84	0.20	689.94	-2.69	5.15
691.00	1.16	150.90	0.20	690.94	-2.70	5.16
692.00	1.16	151.04	0.19	691.94	-2.72	5.17
693.00	1.16	151.18	0.19	692.94	-2.74	5.18
694.00	1.17	151.29	0.18	693.94	-2.76	5.19
695.00	1.18	151.48	0.17	694.94	-2.77	5.20
696.00	1.18	151.69	0.17	695.94	-2.79	5.21
697.00	1.19	151.84	0.16	696.94	-2.81	5.22
698.00	1.20	151.90	0.16	697.94	-2.83	5.23
699.00	1.21	151.92	0.16	698.94	-2.85	5.24
700.00	1.21	151.93	0.16	699.94	-2.87	5.25

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701.00	1.22	151.94	0.16	700.93	-2.88	5.26
702.00	1.23	151.94	0.16	701.93	-2.90	5.27
703.00	1.24	151.94	0.17	702.93	-2.92	5.28
704.00	1.25	151.93	0.17	703.93	-2.94	5.29
705.00	1.26	151.90	0.18	704.93	-2.96	5.30
706.00	1.27	151.82	0.20	705.93	-2.98	5.31
707.00	1.28	151.80	0.21	706.93	-3.00	5.32
708.00	1.28	151.85	0.21	707.93	-3.02	5.33
709.00	1.29	151.85	0.22	708.93	-3.04	5.34
710.00	1.29	151.84	0.21	709.93	-3.06	5.36
711.00	1.30	151.91	0.21	710.93	-3.08	5.37
712.00	1.30	152.10	0.21	711.93	-3.10	5.38
713.00	1.30	152.34	0.20	712.93	-3.12	5.39
714.00	1.30	152.60	0.20	713.93	-3.14	5.40
715.00	1.30	152.88	0.19	714.93	-3.16	5.41
716.00	1.31	153.16	0.19	715.93	-3.18	5.42
717.00	1.31	153.46	0.17	716.93	-3.20	5.43
718.00	1.31	153.76	0.16	717.93	-3.22	5.44
719.00	1.32	154.03	0.15	718.93	-3.24	5.45
720.00	1.33	154.30	0.14	719.93	-3.26	5.46
721.00	1.34	154.59	0.14	720.93	-3.28	5.47
722.00	1.35	154.87	0.13	721.93	-3.30	5.48
723.00	1.36	155.08	0.13	722.93	-3.33	5.49
724.00	1.37	155.20	0.13	723.93	-3.35	5.50
725.00	1.37	155.29	0.13	724.93	-3.37	5.51
726.00	1.38	155.38	0.13	725.93	-3.39	5.52
727.00	1.38	155.49	0.14	726.93	-3.41	5.53
728.00	1.39	155.56	0.14	727.93	-3.44	5.54
729.00	1.39	155.52	0.15	728.93	-3.46	5.55
730.00	1.39	155.43	0.16	729.93	-3.48	5.56
731.00	1.39	155.34	0.16	730.93	-3.50	5.57
732.00	1.39	155.20	0.16	731.93	-3.52	5.58
733.00	1.38	154.95	0.15	732.93	-3.55	5.59
734.00	1.38	154.70	0.14	733.93	-3.57	5.60
735.00	1.38	154.45	0.13	734.93	-3.59	5.61

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736.00	1.39	154.24	0.12	735.93	-3.61	5.62
737.00	1.40	154.07	0.11	736.93	-3.63	5.63
738.00	1.40	153.86	0.10	737.92	-3.65	5.64
739.00	1.41	153.70	0.09	738.92	-3.68	5.65
740.00	1.42	153.65	0.09	739.92	-3.70	5.66
741.00	1.42	153.65	0.09	740.92	-3.72	5.67
742.00	1.43	153.67	0.08	741.92	-3.74	5.69
743.00	1.44	153.76	0.08	742.92	-3.77	5.70
744.00	1.45	153.92	0.09	743.92	-3.79	5.71
745.00	1.46	154.05	0.09	744.92	-3.81	5.72
746.00	1.46	154.32	0.10	745.92	-3.83	5.73
747.00	1.46	154.54	0.11	746.92	-3.86	5.74
748.00	1.46	154.74	0.11	747.92	-3.88	5.75
749.00	1.46	154.95	0.12	748.92	-3.90	5.76
750.00	1.46	155.10	0.13	749.92	-3.93	5.77
751.00	1.46	155.23	0.13	750.92	-3.95	5.78
752.00	1.46	155.38	0.13	751.92	-3.97	5.79
753.00	1.46	155.49	0.12	752.92	-4.00	5.81
754.00	1.46	155.57	0.12	753.92	-4.02	5.82
755.00	1.46	155.75	0.11	754.92	-4.04	5.83
756.00	1.46	155.83	0.11	755.92	-4.07	5.84
757.00	1.46	155.77	0.10	756.92	-4.09	5.85
758.00	1.47	155.92	0.10	757.92	-4.11	5.86
759.00	1.47	156.01	0.09	758.92	-4.14	5.87
760.00	1.48	155.95	0.08	759.92	-4.16	5.88
761.00	1.49	155.82	0.08	760.92	-4.18	5.89
762.00	1.49	155.66	0.07	761.92	-4.21	5.90
763.00	1.50	155.46	0.07	762.92	-4.23	5.91
764.00	1.51	155.30	0.07	763.92	-4.25	5.92
765.00	1.51	155.15	0.06	764.92	-4.28	5.93
766.00	1.52	154.95	0.05	765.92	-4.30	5.94
767.00	1.52	154.84	0.05	766.92	-4.33	5.96
768.00	1.53	154.73	0.05	767.92	-4.35	5.97
769.00	1.53	154.27	0.07	768.91	-4.37	5.98
770.00	1.53	153.70	0.07	769.91	-4.40	5.99

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771.00	1.53	153.17	0.08	770.91	-4.42	6.00
772.00	1.53	152.75	0.10	771.91	-4.45	6.01
773.00	1.53	152.48	0.10	772.91	-4.47	6.03
774.00	1.53	152.38	0.10	773.91	-4.49	6.04
775.00	1.53	152.43	0.11	774.91	-4.52	6.05
776.00	1.52	152.52	0.11	775.91	-4.54	6.06
777.00	1.52	152.67	0.11	776.91	-4.56	6.08
778.00	1.51	152.84	0.12	777.91	-4.59	6.09
779.00	1.51	153.23	0.12	778.91	-4.61	6.10
780.00	1.51	153.87	0.13	779.91	-4.63	6.11
781.00	1.51	154.66	0.13	780.91	-4.66	6.12
782.00	1.51	155.52	0.13	781.91	-4.68	6.13
783.00	1.51	156.30	0.14	782.91	-4.71	6.14
784.00	1.52	157.00	0.15	783.91	-4.73	6.15
785.00	1.52	157.55	0.17	784.91	-4.75	6.17
786.00	1.53	158.02	0.19	785.91	-4.78	6.18
787.00	1.53	158.39	0.21	786.91	-4.80	6.19
788.00	1.54	158.58	0.23	787.91	-4.83	6.19
789.00	1.55	158.70	0.24	788.91	-4.85	6.20
790.00	1.56	158.55	0.24	789.91	-4.88	6.21
791.00	1.57	158.40	0.25	790.91	-4.90	6.22
792.00	1.58	158.29	0.27	791.91	-4.93	6.23
793.00	1.59	158.32	0.28	792.91	-4.96	6.24
794.00	1.60	158.40	0.29	793.91	-4.98	6.26
795.00	1.61	158.32	0.30	794.91	-5.01	6.27
796.00	1.62	158.20	0.30	795.90	-5.03	6.28
797.00	1.63	157.99	0.31	796.90	-5.06	6.29
798.00	1.63	157.88	0.32	797.90	-5.09	6.30
799.00	1.64	157.89	0.33	798.90	-5.11	6.31
800.00	1.65	158.03	0.34	799.90	-5.14	6.32
801.00	1.66	158.23	0.36	800.90	-5.17	6.33
802.00	1.67	158.33	0.38	801.90	-5.19	6.34
803.00	1.68	158.44	0.39	802.90	-5.22	6.35
804.00	1.69	158.44	0.41	803.90	-5.25	6.36
805.00	1.70	158.47	0.42	804.90	-5.28	6.37

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806.00	1.71	158.64	0.43	805.90	-5.30	6.38
807.00	1.72	158.87	0.44	806.90	-5.33	6.39
808.00	1.73	159.19	0.44	807.90	-5.36	6.41
809.00	1.74	159.48	0.44	808.90	-5.39	6.42
810.00	1.76	159.73	0.44	809.90	-5.42	6.43
811.00	1.77	159.90	0.44	810.90	-5.44	6.44
812.00	1.79	160.08	0.43	811.90	-5.47	6.45
813.00	1.81	160.29	0.42	812.90	-5.50	6.46
814.00	1.83	160.54	0.41	813.90	-5.53	6.47
815.00	1.85	160.86	0.40	814.90	-5.56	6.48
816.00	1.87	161.27	0.39	815.90	-5.59	6.49
817.00	1.90	161.71	0.39	816.90	-5.63	6.50
818.00	1.92	162.20	0.38	817.89	-5.66	6.51
819.00	1.94	162.69	0.39	818.89	-5.69	6.52
820.00	1.96	163.10	0.40	819.89	-5.72	6.53
821.00	1.98	163.38	0.40	820.89	-5.75	6.54
822.00	1.99	163.56	0.41	821.89	-5.79	6.55
823.00	2.00	163.65	0.42	822.89	-5.82	6.56
824.00	2.01	163.67	0.43	823.89	-5.85	6.57
825.00	2.02	163.68	0.43	824.89	-5.89	6.58
826.00	2.02	163.64	0.44	825.89	-5.92	6.59
827.00	2.02	163.58	0.44	826.89	-5.96	6.60
828.00	2.02	163.45	0.45	827.89	-5.99	6.61
829.00	2.02	163.21	0.45	828.89	-6.02	6.62
830.00	2.02	162.90	0.44	829.89	-6.06	6.63
831.00	2.03	162.62	0.44	830.89	-6.09	6.64
832.00	2.04	162.49	0.44	831.89	-6.12	6.65
833.00	2.04	162.50	0.43	832.89	-6.16	6.66
834.00	2.05	162.65	0.43	833.89	-6.19	6.67
835.00	2.07	162.86	0.44	834.88	-6.23	6.68
836.00	2.09	163.08	0.45	835.88	-6.26	6.69
837.00	2.11	163.24	0.47	836.88	-6.30	6.70
838.00	2.13	163.31	0.49	837.88	-6.33	6.72
839.00	2.15	163.35	0.51	838.88	-6.37	6.73
840.00	2.17	163.42	0.53	839.88	-6.40	6.74

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841.00	2.19	163.53	0.56	840.88	-6.44	6.75
842.00	2.21	163.68	0.59	841.88	-6.48	6.76
843.00	2.24	163.80	0.61	842.88	-6.51	6.77
844.00	2.26	163.89	0.63	843.88	-6.55	6.78
845.00	2.28	163.96	0.65	844.88	-6.59	6.79
846.00	2.30	164.00	0.66	845.88	-6.63	6.80
847.00	2.32	164.04	0.67	846.88	-6.67	6.81
848.00	2.35	164.10	0.67	847.87	-6.71	6.82
849.00	2.37	164.20	0.67	848.87	-6.75	6.84
850.00	2.40	164.29	0.66	849.87	-6.79	6.85
851.00	2.43	164.36	0.64	850.87	-6.83	6.86
852.00	2.46	164.41	0.62	851.87	-6.87	6.87
853.00	2.49	164.41	0.60	852.87	-6.91	6.88
854.00	2.52	164.39	0.58	853.87	-6.95	6.89
855.00	2.55	164.38	0.56	854.87	-6.99	6.91
856.00	2.58	164.34	0.55	855.87	-7.04	6.92
857.00	2.61	164.29	0.53	856.87	-7.08	6.93
858.00	2.63	164.25	0.52	857.87	-7.12	6.94
859.00	2.65	164.19	0.51	858.86	-7.17	6.95
860.00	2.67	164.15	0.51	859.86	-7.21	6.97
861.00	2.69	164.12	0.50	860.86	-7.26	6.98
862.00	2.70	164.08	0.50	861.86	-7.30	6.99
863.00	2.71	164.01	0.49	862.86	-7.35	7.01
864.00	2.72	163.91	0.49	863.86	-7.39	7.02
865.00	2.72	163.82	0.49	864.86	-7.44	7.03
866.00	2.73	163.74	0.48	865.86	-7.49	7.05
867.00	2.73	163.70	0.47	866.86	-7.53	7.06
868.00	2.73	163.64	0.46	867.85	-7.58	7.07
869.00	2.73	163.54	0.45	868.85	-7.62	7.09
870.00	2.74	163.41	0.44	869.85	-7.67	7.10
871.00	2.74	163.28	0.43	870.85	-7.71	7.11
872.00	2.75	163.12	0.41	871.85	-7.76	7.13
873.00	2.76	162.92	0.40	872.85	-7.81	7.14
874.00	2.77	162.72	0.39	873.85	-7.85	7.15
875.00	2.78	162.58	0.38	874.85	-7.90	7.17

Relatório de Amostragem Mina 13

876.00	2.80	162.52	0.39	875.85	-7.94	7.18
877.00	2.82	162.54	0.39	876.84	-7.99	7.20
878.00	2.84	162.63	0.40	877.84	-8.04	7.21
879.00	2.86	162.77	0.42	878.84	-8.09	7.23
880.00	2.88	163.00	0.43	879.84	-8.13	7.24
881.00	2.90	163.26	0.45	880.84	-8.18	7.26
882.00	2.92	163.45	0.47	881.84	-8.23	7.27
883.00	2.95	163.55	0.50	882.84	-8.28	7.29
884.00	2.97	163.65	0.52	883.83	-8.33	7.30
885.00	2.99	163.76	0.54	884.83	-8.38	7.32
886.00	3.01	163.87	0.56	885.83	-8.43	7.33
887.00	3.02	163.91	0.58	886.83	-8.48	7.35
888.00	3.03	163.96	0.60	887.83	-8.53	7.36
889.00	3.04	164.00	0.62	888.83	-8.58	7.37
890.00	3.05	164.06	0.64	889.83	-8.63	7.39
891.00	3.08	164.12	0.65	890.83	-8.68	7.40
892.00	3.10	164.16	0.66	891.82	-8.74	7.42
893.00	3.12	164.18	0.67	892.82	-8.79	7.43
894.00	3.14	164.19	0.68	893.82	-8.84	7.45
895.00	3.16	164.27	0.69	894.82	-8.89	7.46
896.00	3.18	164.45	0.70	895.82	-8.95	7.48
897.00	3.20	164.67	0.71	896.82	-9.00	7.49
898.00	3.22	164.89	0.72	897.81	-9.05	7.51
899.00	3.24	165.09	0.74	898.81	-9.11	7.52
900.00	3.27	165.25	0.75	899.81	-9.16	7.54
901.00	3.29	165.35	0.78	900.81	-9.22	7.55
902.00	3.32	165.38	0.81	901.81	-9.27	7.57
903.00	3.35	165.36	0.84	902.81	-9.33	7.58
904.00	3.38	165.29	0.87	903.80	-9.39	7.59
905.00	3.41	165.21	0.90	904.80	-9.44	7.61
906.00	3.44	165.13	0.93	905.80	-9.50	7.63
907.00	3.47	165.06	0.96	906.80	-9.56	7.64
908.00	3.50	165.01	0.99	907.80	-9.62	7.66
909.00	3.53	164.96	1.02	908.80	-9.68	7.67
910.00	3.56	164.94	1.04	909.79	-9.74	7.69

Relatório de Amostragem Mina 13

911.00	3.60	164.96	1.07	910.79	-9.80	7.70
912.00	3.63	165.03	1.09	911.79	-9.86	7.72
913.00	3.66	165.15	1.10	912.79	-9.92	7.74
914.00	3.70	165.28	1.11	913.79	-9.98	7.75
915.00	3.74	165.36	1.11	914.78	-10.05	7.77
916.00	3.78	165.38	1.11	915.78	-10.11	7.79
917.00	3.82	165.33	1.09	916.78	-10.17	7.80
918.00	3.86	165.25	1.07	917.78	-10.24	7.82
919.00	3.91	165.11	1.04	918.77	-10.30	7.84
920.00	3.95	164.97	1.00	919.77	-10.37	7.86
921.00	4.00	164.81	0.95	920.77	-10.44	7.87
922.00	4.05	164.61	0.90	921.77	-10.50	7.89
923.00	4.10	164.38	0.84	922.76	-10.57	7.91
924.00	4.15	164.12	0.78	923.76	-10.64	7.93
925.00	4.20	163.87	0.72	924.76	-10.71	7.95
926.00	4.24	163.68	0.65	925.76	-10.78	7.97
927.00	4.28	163.60	0.59	926.75	-10.85	7.99
928.00	4.32	163.63	0.53	927.75	-10.93	8.01
929.00	4.35	163.71	0.46	928.75	-11.00	8.03
930.00	4.38	163.84	0.40	929.75	-11.07	8.06
931.00	4.40	163.98	0.35	930.74	-11.14	8.08
932.00	4.41	164.08	0.29	931.74	-11.22	8.10
933.00	4.41	164.17	0.24	932.74	-11.29	8.12
934.00	4.41	164.26	0.20	933.73	-11.37	8.14
935.00	4.40	164.40	0.17	934.73	-11.44	8.16
936.00	4.38	164.65	0.16	935.73	-11.51	8.18
937.00	4.36	164.94	0.16	936.73	-11.59	8.20
938.00	4.34	165.22	0.18	937.72	-11.66	8.22
939.00	4.31	165.44	0.21	938.72	-11.73	8.24
940.00	4.28	165.64	0.24	939.72	-11.81	8.26
941.00	4.25	165.84	0.27	940.71	-11.88	8.28
942.00	4.21	166.03	0.29	941.71	-11.95	8.29
943.00	4.18	166.28	0.31	942.71	-12.02	8.31
944.00	4.16	166.51	0.31	943.71	-12.09	8.33
945.00	4.13	166.73	0.31	944.70	-12.16	8.35

Relatório de Amostragem Mina 13

946.00	4.11	166.91	0.30	945.70	-12.23	8.36
947.00	4.09	166.96	0.29	946.70	-12.30	8.38
948.00	4.08	166.94	0.27	947.70	-12.37	8.39
949.00	4.06	166.93	0.25	948.69	-12.44	8.41
950.00	4.06	166.95	0.23	949.69	-12.51	8.43
951.00	4.06	166.95	0.20	950.69	-12.58	8.44
952.00	4.06	166.93	0.16	951.69	-12.65	8.46
953.00	4.07	166.89	0.12	952.68	-12.72	8.47
954.00	4.08	166.81	0.08	953.68	-12.78	8.49
955.00	4.09	166.83	0.07	954.68	-12.85	8.51
956.00	4.11	166.90	0.09	955.68	-12.92	8.52
957.00	4.13	167.00	0.13	956.67	-12.99	8.54
958.00	4.16	167.13	0.17	957.67	-13.06	8.56
959.00	4.18	167.24	0.21	958.67	-13.14	8.57
960.00	4.21	167.32	0.26	959.66	-13.21	8.59
961.00	4.23	167.35	0.31	960.66	-13.28	8.60
962.00	4.25	167.34	0.34	961.66	-13.35	8.62
963.00	4.27	167.28	0.36	962.66	-13.42	8.64
964.00	4.29	167.21	0.39	963.65	-13.50	8.65
965.00	4.30	167.16	0.40	964.65	-13.57	8.67
966.00	4.31	167.08	0.00	965.65	-13.64	8.69
967.00	4.32	166.93	0.00	966.65	-13.72	8.70
968.00	4.32	166.74	0.00	967.64	-13.79	8.72
969.00	4.32	166.49	0.00	968.64	-13.86	8.74
970.00	4.33	166.23	0.00	969.64	-13.94	8.76
971.00	4.33	165.98	0.00	970.63	-14.01	8.77
972.00	4.34	165.79	0.00	971.63	-14.08	8.79
973.00	4.35	165.69	0.00	972.63	-14.16	8.81
974.00	4.36	165.67	0.00	973.63	-14.23	8.83
975.00	4.36	165.01	0.00	974.62	-14.30	8.85
976.00	4.38	164.87	0.00	975.62	-14.38	8.87
977.00	4.40	165.26	0.00	976.62	-14.45	8.89
978.00	4.42	165.78	0.00	977.61	-14.52	8.91
979.00	4.45	165.98	0.00	978.61	-14.60	8.93
980.00	4.45	166.28	0.00	979.61	-14.67	8.95

Relatório de Amostragem Mina 13

Final Station Closure:

Distance: 17.19 m

UNPM/AL

Is. 7.605

En

Parte 5
Controle de Qualidade

UNPM/AL
Is. 7.606



Survey QC – Vertical Continuous Analysis Sheet	gyrodata
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SURVEY QUALITY CONTROL – SPECIFICATION DATA

PRE-JOB CALIBRATION VERIFICATION (ROLL TEST)

System Parameter	dGx	dGy	dmbo	Mean Gravity Error	Stdev Gravity Error
Standard Deviation	0.010	0.010	0.010	0.00021	0.00001
Tolerance	0.033	0.033	0.087	0.00591	0.00720

CALIBRATION

Tool Number	FA088	Calibration Date	06 Jan 2016
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OPERATING TEMPERATURE

Calibration range	From	30.03	To	120.04	
Gyro operating range for Job	From	61.70	To	69.13	In-Spec If +/- 2.5 °C of Calibration

INCLINATION DIFFERENCE TEST

Chi-square test value	0.8
Tolerance	34.4
Number of overlapping survey stations used	15.0

CO-ORDINATE DIFFERENCE TEST

	North	East	Vertical
Chi-square test value	0.6	0.3	6.7
Tolerance	34.4	34.4	34.4
Number of overlapping survey stations used	15.0	15.0	15.0

Parte 6
Relatório Cronológico
da Operação

Relatório de Amostragem Mina 13

6.0 RELATÓRIO CRONOLÓGICO DA OPERAÇÃO

02 de maio de 2019

08:00 Stand By aguardando chamada para o trabalho na mina 13

03 de maio de 2019

08:00 Stand By aguardando chamada para o trabalho na mina 13

04 de maio de 2019

08:00 Stand By aguardando chamada para o trabalho na mina 13

05 de maio de 2019

07:50 Chegada na mina 13;

09:45 Início do RigUp;

09:55 Fim do RigUp;

10:00 Fazendo o zero e início de corrida;

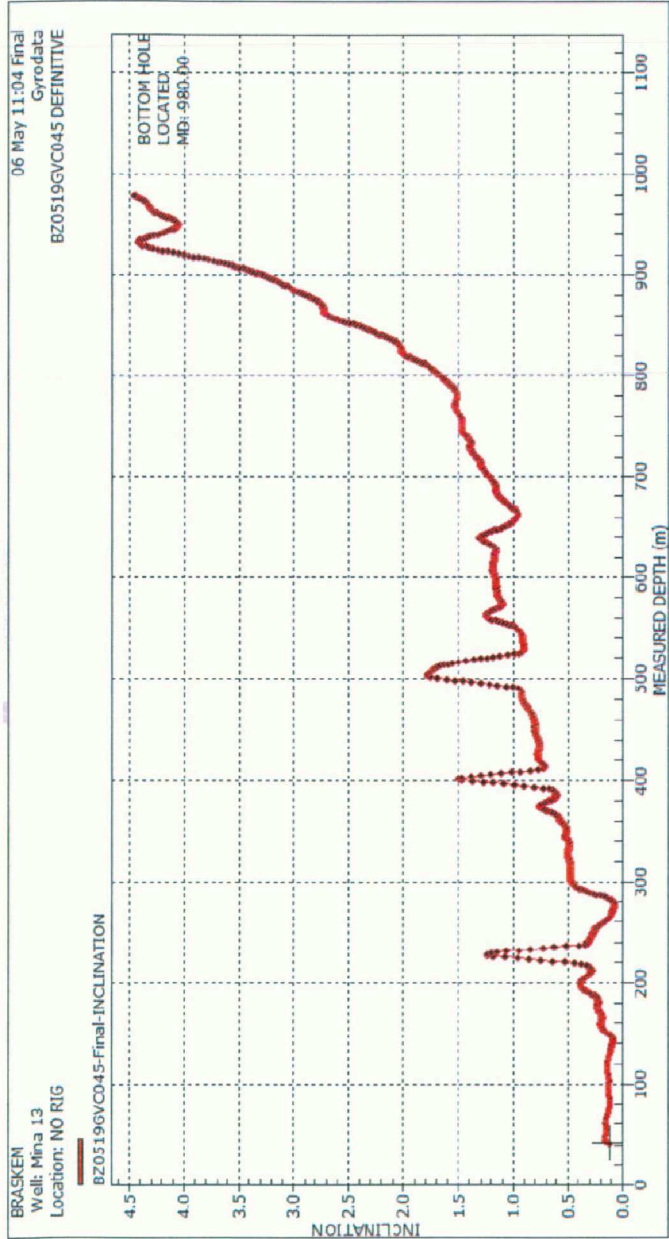
11:25 Ferramenta no fundo;

12:45 Fim de Corrida e Início de RigDown;

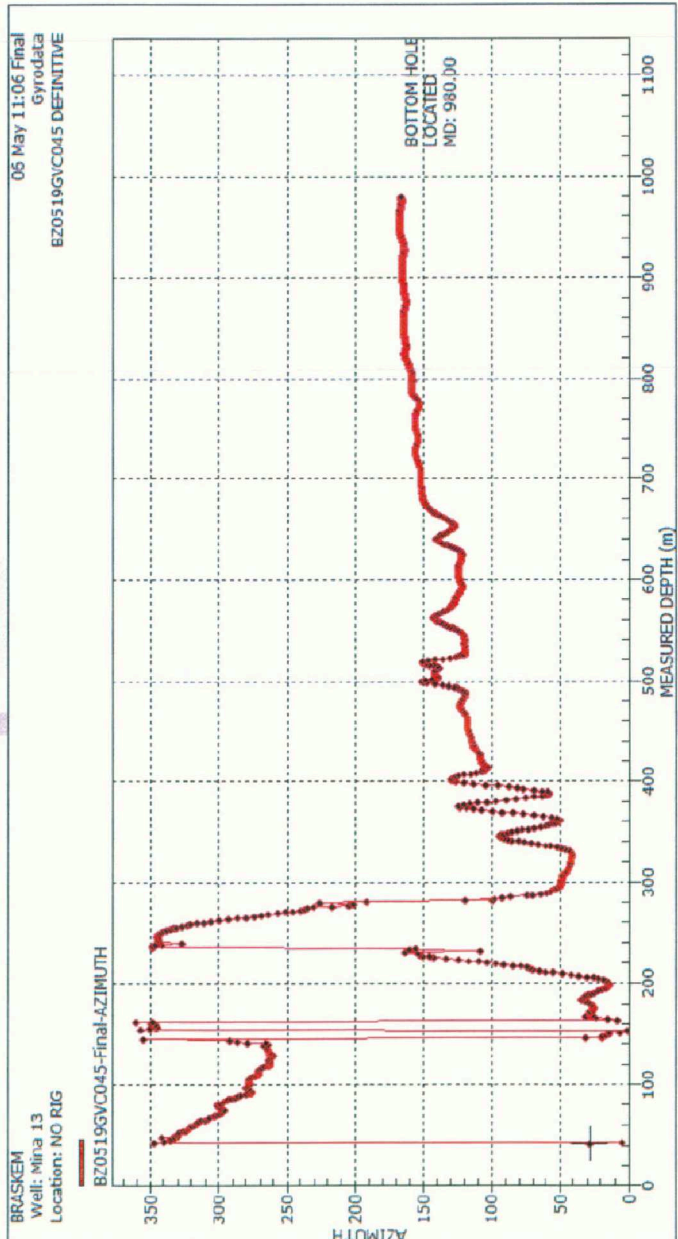
13:15 Saindo da mina 13 rumo ao Aeroporto.

Parte 7
Gráficos

INCLINATION

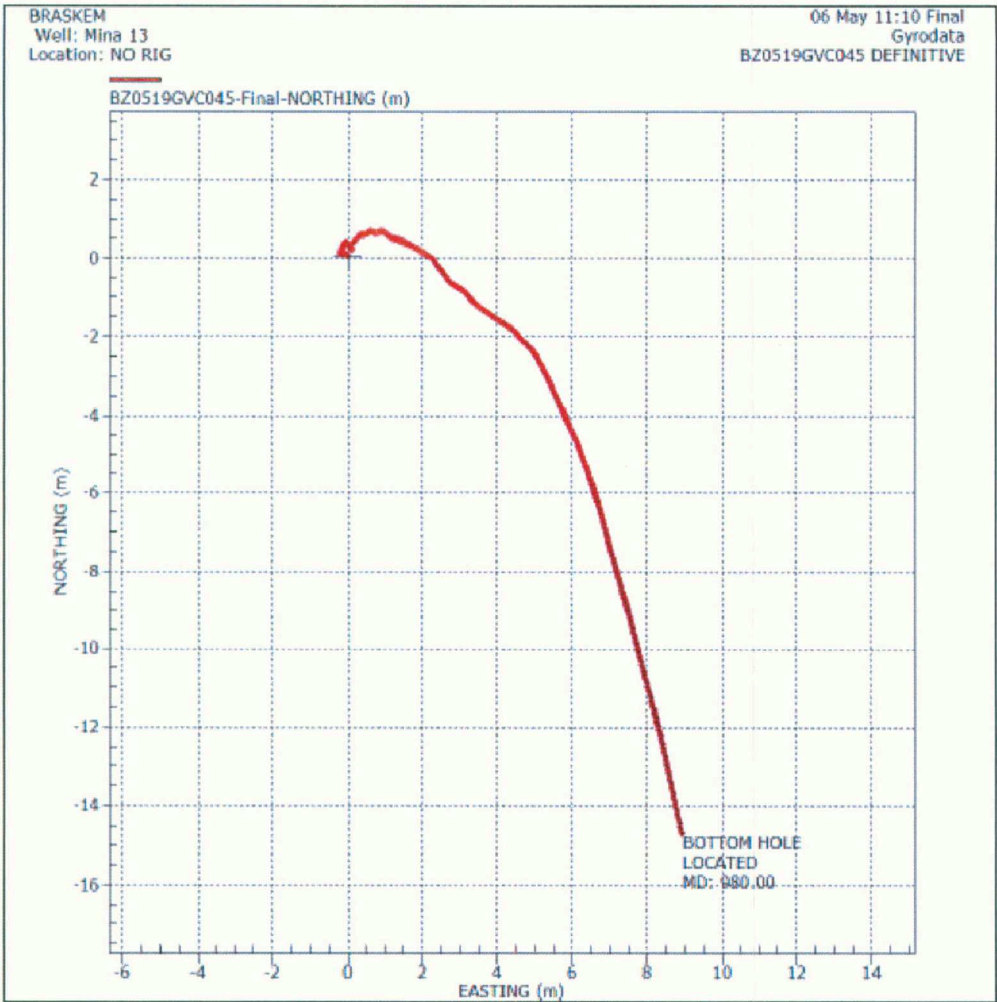


AZIMUTH



UNPM/AL
s. 7.611
[Signature]

NORTE / LESTE





Braskem

Campo: Sal Gema

Poço: Mina 28

Gyro Multishot Contínuo

Data da Amostragem: 18 de Abril de 2019

Número de Trabalho: BZ0419GVC041

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Parte 1
Discussão

1.0 DISCUSSÃO

O Giroscópio FA088 foi utilizado para fazer uma amostragem na Mina 28.

A amostragem foi coletada da superfície até 695.00m.

Todas as Profundidades estão referenciadas à cabeça do poço.

A referência ao norte é Norte Verdadeiro.

Todas as Profundidades foram tomadas do cabo de perfilagem da unidade Flodim.



1000000
2000000
3000000

MENTO DE VOLUME

de acordo com o aumento de 34% volume de
a partir de 1.116, obtido em relação

de 1.116

2000000