

AM-88-374

Cd. lot 1

Crystal chemistry of double-ring silicates: Structures of sugilite and bran-
nockite

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For deposit: Table 4

American Mineralogist, 73, 5-6, 595-600.

PP. (14)

Table 4 (for deposit)

observed and calculated structure factors for
sugilite (Wessels Mine S.A.R.) ,
brannockite (large domain),
brannockite (small domain).

Reflections with $F_{\text{obs}} > 6 \sigma(F_{\text{obs}})$ are marked "L"
and were rejected (marked "R").

UGILITE WESSEL MINE S.A.R.									
H	K	L	F(OBS)	F(CALC)					
2	4	87.27	84.12						
		233.44	235.47						
0	6	84.76	72.38						
0	8	325.43	328.49						
10	12	224.47	225.11						
11	13	23.88	135.75						
11	14	136.52	114.12						
11	16	113.23	113.12						
11	18	180.01	179.85						
11	20	26.73	24.07						
11	22	15.24	13.12						
11	24	71.39	70.03						
11	26	39.16	36.86						
11	28	32.06	31.56						
11	30	50.15	50.07						
11	32	1.965	2.07						
11	34	4.17	4.17						
11	36	4.43	4.43						
11	38	6.83	5.38						
11	40	115.54	114.12						
11	42	221.98	222.16						
11	44	36.86	33.63						
11	46	15.74	14.66						
11	48	89.04	88.96						
11	50	106.03	105.90						
11	52	123.91	124.26						
11	54	15.09	14.69						
11	56	58.68	58.07						
11	58	194.82	200.38						
11	60	2.0	2.0						
11	62	55.84	54.09						
11	64	101.64	101.17						
11	66	111.18	110.72						
11	68	110.72	109.36						
11	70	42.25	42.47						
11	72	35.15	34.91						
11	74	23.94	23.29						
11	76	2.16	2.16						
11	78	28.92	27.94						
11	80	44.19	45.04						
11	82	130.10	129.72						
11	84	58.82	58.76						
11	86	2.34	2.63						
11	88	6.37	9.88						
11	90	1.18	1.18						
11	92	42.82	41.54						
11	94	13.30	13.68						
11	96	54.27	55.00						
11	98	55.75	56.56						
11	100	46.22	47.65						
11	102	11.81	11.34						
11	104	39.97	40.64						
11	106	23.87	24.37						
11	108	27.79	28.18						
11	110	6.83	7.84						
11	112	61.47	61.71						
11	114	45.60	46.21						
11	116	3.32	3.32						
11	118	182.57	180.70						

STRUCTURE FACTORS		F(OBS)	F(CALC)
H	K	5.57	50.57
	L	3.81	5.39
		71.26	4.87
		75.94	72.06
		15.00	77.08
		15.54	15.10
		46.71	32.96
		46.06	4.02
		20.42	20.06
		27.47	27.11
		65.42	64.07
		2.68	1.20
		4.50	4.14
		100.67	115.38
		114.33	102.64
		55.43	44.48
		32.28	44.41
		107.96	107.23
		42.47	42.27
		17.20	17.93
		18.20	17.93
		64.34	64.44
		63.10	63.91
		69.07	68.65
		57.94	59.13
		8.81	9.44
		65.92	66.88
		18.33	18.41
		18.44	17.97
		35.77	35.83
		24.53	24.87
		41.03	41.80
		15.16	12.82
		38.74	37.43
		30.25	29.18
		11.29	10.43
		22.29	22.09
		15.44	15.40
		10.61	11.23
		14.23	14.45
		72.01	70.72
		26.22	24.42
		75.46	74.11
		10.05	9.79

STRUCTURE FACTORS	PAGE 1		
	F(OBS)	F(CALC)	F(CALC)
6 8	51.39	50.57	40.43
6 8	4.87	3.81	19.52
7 12	72.06	71.26	91.52
14 16	77.08	75.94	5.89
15 16	15.10	15.00	18.05
34 40	32.96	35.54	4.56
42 46	46.89	46.71	37.66
44 46	20.06	17.07	3.43
44 46	20.06	20.42	16.60
48 48	27.11	27.47	17.55
40 48	64.07	65.42	23.11
412 412	1.20	2.68	3.02
414 414	4.14	4.50	4.57
416 416	15.93	15.86	120.16
418 418	44.38	44.01	61.48
423 414	102.61	100.67	39.22
432 421	155.52	155.43	66.56
432 423	32.21	32.28	22.64
438 415	115.38	114.33	44.32
442 442	4.27	4.47	45.86
447 447	102.23	102.96	56.91
450 450	1.42	1.42	14.74
456 456	1.42	1.42	17.30
464 464	64.34	64.34	7.83
468 468	68.65	69.07	12.85
470 470	59.13	57.94	10.97
479 479	17.93	18.20	20.57
489 489	17.93	18.20	20.57
490 490	64.44	64.34	7.83
493 493	63.91	63.10	1.60
496 496	69.07	69.07	1.60
497 497	107.96	107.96	101.22
500 500	1.42	1.42	1.32
503 503	102.23	102.96	100.73
506 506	1.42	1.42	1.39
509 509	1.42	1.42	1.67
512 512	66.88	65.92	8.02
513 513	18.41	18.33	8.02
514 514	17.91	18.44	52.04
515 515	17.68	17.97	50.67
516 516	33.58	35.77	44.12
517 517	17.68	17.97	44.12
518 518	24.87	24.53	83.14
519 519	39.78	41.03	44.74
520 520	12.82	12.93	38.00
521 521	12.82	12.93	38.00
522 522	4.0	4.0	4.44
523 523	1.2	1.2	1.2
524 524	1.2	1.2	1.2
525 525	1.2	1.2	1.2
526 526	1.2	1.2	1.2
527 527	1.2	1.2	1.2
528 528	1.2	1.2	1.2
529 529	1.2	1.2	1.2
530 530	1.2	1.2	1.2
531 531	1.2	1.2	1.2
532 532	1.2	1.2	1.2
533 533	1.2	1.2	1.2
534 534	1.2	1.2	1.2
535 535	1.2	1.2	1.2
536 536	1.2	1.2	1.2
537 537	1.2	1.2	1.2
538 538	1.2	1.2	1.2
539 539	1.2	1.2	1.2
540 540	1.2	1.2	1.2
541 541	1.2	1.2	1.2
542 542	1.2	1.2	1.2
543 543	1.2	1.2	1.2
544 544	1.2	1.2	1.2
545 545	1.2	1.2	1.2
546 546	1.2	1.2	1.2
547 547	1.2	1.2	1.2
548 548	1.2	1.2	1.2
549 549	1.2	1.2	1.2
550 550	1.2	1.2	1.2
551 551	1.2	1.2	1.2
552 552	1.2	1.2	1.2
553 553	1.2	1.2	1.2
554 554	1.2	1.2	1.2
555 555	1.2	1.2	1.2
556 556	1.2	1.2	1.2
557 557	1.2	1.2	1.2
558 558	1.2	1.2	1.2
559 559	1.2	1.2	1.2
560 560	1.2	1.2	1.2
561 561	1.2	1.2	1.2
562 562	1.2	1.2	1.2
563 563	1.2	1.2	1.2
564 564	1.2	1.2	1.2
565 565	1.2	1.2	1.2
566 566	1.2	1.2	1.2
567 567	1.2	1.2	1.2
568 568	1.2	1.2	1.2
569 569	1.2	1.2	1.2
570 570	1.2	1.2	1.2
571 571	1.2	1.2	1.2
572 572	1.2	1.2	1.2
573 573	1.2	1.2	1.2
574 574	1.2	1.2	1.2
575 575	1.2	1.2	1.2
576 576	1.2	1.2	1.2
577 577	1.2	1.2	1.2
578 578	1.2	1.2	1.2
579 579	1.2	1.2	1.2
580 580	1.2	1.2	1.2
581 581	1.2	1.2	1.2
582 582	1.2	1.2	1.2
583 583	1.2	1.2	1.2
584 584	1.2	1.2	1.2
585 585	1.2	1.2	1.2
586 586	1.2	1.2	1.2
587 587	1.2	1.2	1.2
588 588	1.2	1.2	1.2
589 589	1.2	1.2	1.2
590 590	1.2	1.2	1.2
591 591	1.2	1.2	1.2
592 592	1.2	1.2	1.2
593 593	1.2	1.2	1.2
594 594	1.2	1.2	1.2
595 595	1.2	1.2	1.2
596 596	1.2	1.2	1.2
597 597	1.2	1.2	1.2
598 598	1.2	1.2	1.2
599 599	1.2	1.2	1.2
600 600	1.2	1.2	1.2
601 601	1.2	1.2	1.2
602 602	1.2	1.2	1.2
603 603	1.2	1.2	1.2
604 604	1.2	1.2	1.2
605 605	1.2	1.2	1.2
606 606	1.2	1.2	1.2
607 607	1.2	1.2	1.2
608 608	1.2	1.2	1.2
609 609	1.2	1.2	1.2
610 610	1.2	1.2	1.2
611 611	1.2	1.2	1.2
612 612	1.2	1.2	1.2
613 613	1.2	1.2	1.2
614 614	1.2	1.2	1.2
615 615	1.2	1.2	1.2
616 616	1.2	1.2	1.2
617 617	1.2	1.2	1.2
618 618	1.2	1.2	1.2
619 619	1.2	1.2	1.2
620 620	1.2	1.2	1.2
621 621	1.2	1.2	1.2
622 622	1.2	1.2	1.2
623 623	1.2	1.2	1.2
624 624	1.2	1.2	1.2
625 625	1.2	1.2	1.2
626 626	1.2	1.2	1.2
627 627	1.2	1.2	1.2
628 628	1.2	1.2	1.2
629 629	1.2	1.2	1.2
630 630	1.2	1.2	1.2
631 631	1.2	1.2	1.2
632 632	1.2	1.2	1.2
633 633	1.2	1.2	1.2
634 634	1.2	1.2	1.2
635 635	1.2	1.2	1.2
636 636	1.2	1.2	1.2
637 637	1.2	1.2	1.2
638 638	1.2	1.2	1.2
639 639	1.2	1.2	1.2
640 640	1.2	1.2	1.2
641 641	1.2	1.2	1.2
642 642	1.2	1.2	1.2
643 643	1.2	1.2	1.2
644 644	1.2	1.2	1.2
645 645	1.2	1.2	1.2
646 646	1.2	1.2	1.2
647 647	1.2	1.2	1.2
648 648	1.2	1.2	1.2
649 649	1.2	1.2	1.2
650 650	1.2	1.2	1.2
651 651	1.2	1.2	1.2
652 652	1.2	1.2	1.2
653 653	1.2	1.2	1.2
654 654	1.2	1.2	1.2
655 655	1.2	1.2	1.2
656 656	1.2	1.2	1.2
657 657	1.2	1.2	1.2
658 658	1.2	1.2	1.2
659 659	1.2	1.2	1.2
660 660	1.2	1.2	1.2
661 661	1.2	1.2	1.2
662 662	1.2	1.2	1.2
663 663	1.2	1.2	1.2
664 664	1.2	1.2	1.2
665 665	1.2	1.2	1.2
666 666	1.2	1.2	1.2
667 667	1.2	1.2	1.2
668 668	1.2	1.2	1.2
669 669	1.2	1.2	1.2
670 670	1.2	1.2	1.2
671 671	1.2	1.2	1.2
672 672	1.2	1.2	1.2
673 673	1.2	1.2	1.2
674 674	1.2	1.2	1.2
675 675	1.2	1.2	1.2
676 676	1.2	1.2	1.2
677 677	1.2	1.2	1.2
678 678	1.2	1.2	1.2
679 679	1.2	1.2	1.2
680 680	1.2	1.2	1.2
681 681	1.2	1.2	1.2
682 682	1.2	1.2	1.2
683 683	1.2	1.2	1.2
684 684	1.2	1.2	1.2
685 685	1.2	1.2	1.2
686 686	1.2	1.2	1.2
687 687	1.2	1.2	1.2
688 688	1.2	1.2	1.2
689 689	1.2	1.2	1.2
690 690	1.2	1.2	1.2
691 691	1.2	1.2	1.2
692 692	1.2	1.2	1.2
693 693	1.2	1.2	1.2
694 694	1.2	1.2	1.2
695 695	1.2	1.2	1.2
696 696	1.2	1.2	1.2
697 697	1.2	1.2	1.2
698 698	1.2	1.2	1.2
699 699	1.2	1.2	1.2
700 700	1.2	1.2	1.2
701 701	1.2	1.2	1.2
702 702	1.2	1.2	1.2
703 703	1.2	1.2	1.2
704 704	1.2	1.2	1.2
705 705	1.2	1.2	1.2
706 706	1.2	1.2	1.2
707 707	1.2	1.2	1.2
708 708	1.2	1.2	1.2
709 709	1.2	1.2	1.2
710 710	1.2	1.2	1.2
711 711	1.2	1.2	1.2
712 712	1.2	1.2	1.2
713 713	1.2	1.2	1.2
714 714	1.2	1.2	1.2
715 715	1.2	1.2	1.2
716 716	1.2	1.2	1.2
717 717	1.2	1.2	1.2
718 718	1.2	1.2	1.2
719 719	1.2	1.2	1.2
720 720	1.2	1.2	1.2
721 721	1.2	1.2	1.2
722 722	1.2	1.2	1.2
723 723	1.2	1.2	1.2
724 724	1.2	1.2	1.2
725 725	1.2	1.2	1.2
726 726	1.2	1.2	1.2
727 727	1.2	1.2	1.2
728 728	1.2	1.2	1.2
729 729	1.2	1.2	1.2
730 730	1.2	1.2	1.2
731 731	1.2	1.2	1.2
732 732	1.2	1.2	1.2
733 733	1.2	1.2	1.2
734 734	1.2	1.2	1.2
735 735	1.2	1.2	1.2
736 736	1.2	1.2	1.2
737 737	1.2	1.2	1.2
738 738	1.2	1.2	1.2
739 739	1.2	1.2	1.2
740 740	1.2	1.2	1.2
741 741	1.2	1.2	1.2
742 742	1.2	1.2	1.2
743 743	1.2	1.2	1.2
744 744	1.2	1.2	1.2
745 745	1.2	1.2	1.2
746 746	1.2	1.2	1.2
747 747	1.2	1.2	1.2
748 748	1.2	1.2	1.2
749 749	1.2	1.2	1.2
750 750	1.2	1.2	1.2
751 751	1.2	1.2	1.2
752 752	1.2	1.2	1.2
753 753	1.2	1.2	1.2
754 754	1.2	1.2	1.2
755 755	1.2	1.2	1.2
756 756	1.2	1.2	1.2
757 757	1.2	1.2	1.2
758 758	1.2	1.2	1.2
759 759	1.2	1.2	1.2
760 760	1.2	1.2	1.2
761 761	1.2	1.2	1.2
762 762	1.2	1.2	1.2
763 763	1.2	1.2	1.2
764 764	1.2	1.2	1.2
765 765	1.2	1.2	1.2
766 766	1.2	1.2	1.2
767 767	1.2	1.2	1.2
768 768	1.2	1.2	1.2
769 769	1.2	1.2	1.2
770 770	1.2		

	H	K	L	F(OBS)	F(CALC)	
PAGE 2	6.76	31.50	13.89	14.46	11.05	11.64
	5.14	14.23	13.24	10.53	10.53	12.26
	5.15	14.27	17.58	2.01	2.01	14.41
	5.16	98.62	101.65	39.00	38.39	62.85
	5.17	39.00	63.06	27.04	26.84	9.18
	5.18	27.04	5.11	14.51	14.51	17.91
	5.19	14.58	4.25	42.47	41.85	42.47
	5.20	5.20	5.12	5.13	5.14	5.15
	5.21	5.21	5.13	5.15	5.16	5.17
	5.22	5.22	5.14	5.15	5.16	5.17
	5.23	5.23	5.15	5.16	5.17	5.18
	5.24	5.24	5.17	5.18	5.19	5.20
	5.25	5.25	5.19	5.20	5.21	5.22
	5.26	5.26	5.21	5.22	5.23	5.24
	5.27	5.27	5.22	5.23	5.24	5.25
	5.28	5.28	5.23	5.24	5.25	5.26
	5.29	5.29	5.24	5.25	5.26	5.27
	5.30	5.30	5.25	5.26	5.27	5.28
	5.31	5.31	5.26	5.27	5.28	5.29
	5.32	5.32	5.27	5.28	5.29	5.30
	5.33	5.33	5.28	5.29	5.30	5.31
	5.34	5.34	5.29	5.30	5.31	5.32
	5.35	5.35	5.30	5.31	5.32	5.33
	5.36	5.36	5.31	5.32	5.33	5.34
	5.37	5.37	5.32	5.33	5.34	5.35
	5.38	5.38	5.33	5.34	5.35	5.36
	5.39	5.39	5.34	5.35	5.36	5.37
	5.40	5.40	5.35	5.36	5.37	5.38
	5.41	5.41	5.36	5.37	5.38	5.39
	5.42	5.42	5.37	5.38	5.39	5.40
	5.43	5.43	5.38	5.39	5.40	5.41
	5.44	5.44	5.39	5.40	5.41	5.42
	5.45	5.45	5.40	5.41	5.42	5.43
	5.46	5.46	5.41	5.42	5.43	5.44
	5.47	5.47	5.42	5.43	5.44	5.45
	5.48	5.48	5.43	5.44	5.45	5.46
	5.49	5.49	5.44	5.45	5.46	5.47
	5.50	5.50	5.45	5.46	5.47	5.48
	5.51	5.51	5.46	5.47	5.48	5.49
	5.52	5.52	5.47	5.48	5.49	5.50
	5.53	5.53	5.48	5.49	5.50	5.51
	5.54	5.54	5.49	5.50	5.51	5.52
	5.55	5.55	5.50	5.51	5.52	5.53
	5.56	5.56	5.51	5.52	5.53	5.54
	5.57	5.57	5.52	5.53	5.54	5.55
	5.58	5.58	5.53	5.54	5.55	5.56
	5.59	5.59	5.54	5.55	5.56	5.57
	5.60	5.60	5.55	5.56	5.57	5.58
	5.61	5.61	5.56	5.57	5.58	5.59
	5.62	5.62	5.57	5.58	5.59	5.60
	5.63	5.63	5.58	5.59	5.60	5.61
	5.64	5.64	5.59	5.60	5.61	5.62
	5.65	5.65	5.60	5.61	5.62	5.63
	5.66	5.66	5.61	5.62	5.63	5.64
	5.67	5.67	5.62	5.63	5.64	5.65
	5.68	5.68	5.63	5.64	5.65	5.66
	5.69	5.69	5.64	5.65	5.66	5.67
	5.70	5.70	5.65	5.66	5.67	5.68
	5.71	5.71	5.66	5.67	5.68	5.69
	5.72	5.72	5.67	5.68	5.69	5.70
	5.73	5.73	5.68	5.69	5.70	5.71
	5.74	5.74	5.69	5.70	5.71	5.72
	5.75	5.75	5.70	5.71	5.72	5.73
	5.76	5.76	5.71	5.72	5.73	5.74
	5.77	5.77	5.72	5.73	5.74	5.75
	5.78	5.78	5.73	5.74	5.75	5.76
	5.79	5.79	5.74	5.75	5.76	5.77
	5.80	5.80	5.75	5.76	5.77	5.78
	5.81	5.81	5.76	5.77	5.78	5.79
	5.82	5.82	5.77	5.78	5.79	5.80
	5.83	5.83	5.78	5.79	5.80	5.81
	5.84	5.84	5.79	5.80	5.81	5.82
	5.85	5.85	5.80	5.81	5.82	5.83
	5.86	5.86	5.81	5.82	5.83	5.84
	5.87	5.87	5.82	5.83	5.84	5.85
	5.88	5.88	5.83	5.84	5.85	5.86
	5.89	5.89	5.84	5.85	5.86	5.87
	5.90	5.90	5.85	5.86	5.87	5.88
	5.91	5.91	5.86	5.87	5.88	5.89
	5.92	5.92	5.87	5.88	5.89	5.90
	5.93	5.93	5.88	5.89	5.90	5.91
	5.94	5.94	5.89	5.90	5.91	5.92
	5.95	5.95	5.90	5.91	5.92	5.93
	5.96	5.96	5.91	5.92	5.93	5.94
	5.97	5.97	5.92	5.93	5.94	5.95
	5.98	5.98	5.93	5.94	5.95	5.96
	5.99	5.99	5.94	5.95	5.96	5.97
	6.00	6.00	5.95	5.96	5.97	5.98
	6.01	6.01	5.96	5.97	5.98	5.99
	6.02	6.02	5.97	5.98	5.99	6.00
	6.03	6.03	5.98	5.99	6.00	6.01
	6.04	6.04	5.99	6.00	6.01	6.02
	6.05	6.05	6.00	6.01	6.02	6.03
	6.06	6.06	6.01	6.02	6.03	6.04
	6.07	6.07	6.02	6.03	6.04	6.05
	6.08	6.08	6.03	6.04	6.05	6.06
	6.09	6.09	6.04	6.05	6.06	6.07
	6.10	6.10	6.05	6.06	6.07	6.08
	6.11	6.11	6.06	6.07	6.08	6.09
	6.12	6.12	6.07	6.08	6.09	6.10
	6.13	6.13	6.08	6.09	6.10	6.11
	6.14	6.14	6.09	6.10	6.11	6.12
	6.15	6.15	6.10	6.11	6.12	6.13
	6.16	6.16	6.11	6.12	6.13	6.14
	6.17	6.17	6.12	6.13	6.14	6.15
	6.18	6.18	6.13	6.14	6.15	6.16
	6.19	6.19	6.14	6.15	6.16	6.17
	6.20	6.20	6.15	6.16	6.17	6.18
	6.21	6.21	6.16	6.17	6.18	6.19
	6.22	6.22	6.17	6.18	6.19	6.20
	6.23	6.23	6.18	6.19	6.20	6.21
	6.24	6.24	6.19	6.20	6.21	6.22
	6.25	6.25	6.20	6.21	6.22	6.23
	6.26	6.26	6.21	6.22	6.23	6.24
	6.27	6.27	6.22	6.23	6.24	6.25
	6.28	6.28	6.23	6.24	6.25	6.26
	6.29	6.29	6.24	6.25	6.26	6.27
	6.30	6.30	6.25	6.26	6.27	6.28
	6.31	6.31	6.26	6.27	6.28	6.29
	6.32	6.32	6.27	6.28	6.29	6.30
	6.33	6.33	6.28	6.29	6.30	6.31
	6.34	6.34	6.29	6.30	6.31	6.32
	6.35	6.35	6.30	6.31	6.32	6.33
	6.36	6.36	6.31	6.32	6.33	6.34
	6.37	6.37	6.32	6.33	6.34	6.35
	6.38	6.38	6.33	6.34	6.35	6.36
	6.39	6.39	6.34	6.35	6.36	6.37
	6.40	6.40	6.35	6.36	6.37	6.38
	6.41	6.41	6.36	6.37	6.38	6.39
	6.42	6.42	6.37	6.38	6.39	6.40
	6.43	6.43	6.38	6.39	6.40	6.41
	6.44	6.44	6.39	6.40	6.41	6.42
	6.45	6.45	6.40	6.41	6.42	6.43
	6.46	6.46	6.41	6.42	6.43	6.44
	6.47	6.47	6.42	6.43	6.44	6.45
	6.48	6.48	6.43	6.44	6.45	6.46
	6.49	6.49	6.44	6.45	6.46	6.47
	6.50	6.50	6.45	6.46	6.47	6.48
	6.51	6.51	6.46	6.47	6.48	6.49
	6.52	6.52	6.47	6.48	6.49	6.50
	6.53	6.53	6.48	6.49	6.50	6.51
	6.54	6.54	6.49	6.50	6.51	6.52
	6.55	6.55	6.50	6.51	6.52	6.53
	6.56	6.56	6.51	6.52	6.53	6.54
	6.57	6.57	6.52	6.53	6.54	6.55
	6.58	6.58	6.53	6.54	6.55	6.56
	6.59	6.59	6.54	6.55	6.56	6.57
	6.60	6.60	6.55	6.56	6.57	6.58
	6.61	6.61	6.56	6.57	6.58	6.59
	6.62	6.62	6.57	6.58	6.59	6.60
	6.63	6.63	6.58	6.59	6.60	6.61
	6.64	6.64	6.59	6.60	6.61	6.62
	6.65	6.65	6.60	6.61	6.62	6.63
	6.66	6.66	6.61	6.62	6.63	6.64
	6.67	6.67	6.62	6.63	6.64	6.65
	6.68	6.68	6.63	6.64	6.65	6.66
	6.69	6.69	6.64	6.65	6.66	6.67
	6.70	6.70	6.65	6.66	6.67	6.68
	6.71	6.71	6.66	6.67	6.68	6.69
	6.72	6.72	6.67	6.68	6.69	6.70
	6.73	6.73	6.68	6.69	6.70	6.71
	6.74	6.74	6.69	6.70	6.71	6.72
	6.75	6.75	6.70	6.71	6.72	6.73
	6.76	6.76	6.71	6.72	6.73	6.74
	6.77	6.77	6.72	6.73	6.74	6.75
	6.78	6.78	6.73	6.74	6.75	6.76
	6.79	6.79	6.74	6.75	6.76	6.77
	6.80	6.80	6.75	6.76	6.77	6.78
	6.81	6.81	6.76	6.77	6.78	6.79
	6.82	6.82	6.77	6.78	6.79	6.80
	6.83	6.83	6.78	6.79	6.80	6.81
	6.84	6.84	6.79	6.80	6.81	6.82
	6.85	6.85	6.80	6.81	6.82	6.83
	6.86	6.86	6.81	6.82	6.83	6.84
	6.87	6.87	6.82	6.83	6.84	6.85
	6.88	6.88	6.83	6.84	6.85	6.86
	6.89	6.89	6.84	6.85	6.86	6.87
	6.90	6.90	6.85	6.86	6.87	6.88
	6.91	6.91	6.86	6.87	6.88	6.89
	6.92	6.92	6.87	6.88	6.89	6.90
	6.93	6.93	6.88	6.89	6.90	6.91
	6.94	6				

SUGILITE WESSEL MINE S.A.R.

STRUCTURE FACTORS

PAGE 3

H K L F(OBS) F(CALC)

H	K	L	F(OBS)	F(CALC)
20.81	20.89			
27.07	27.23			
3.97 LR	3.86			
17.19	16.51			
9.64	10.42			
3.66 LR	2.88			
37.46	36.72			
10.37	11.27			
107.68	107.73			
14.26	14.84			
34.18	33.88			
0.00 LR	2.18			
22.22	22.08			
4.93 LR	4.49			
59.97	59.46			
2.36 LR	4.12			
46.60	46.81			
16.56	17.02			
22.83	22.75			
3.69 LR	21.18			
12.87	13.16			
11.16	11.23			
51.32	51.39			
6.43 LR	6.40			
14.80	14.64			
46.03	45.19			
10.29	9.77			
15.61	16.56			
42.78	41.38			
26.75	26.93			
4.92 LR	4.81			
20.76	20.62			
24.01	23.34			
13.95	14.06			
3.30 LR	2.35			
13.29	13.11			
31.37	31.51			
14.64	14.80			
30.33	31.79			
22.35	21.86			
6.93 LR	29.14			
54.05	54.74			
26.43	25.68			
16.95	17.36			
6.29	6.23			
20.19	19.43			
97.20	97.29			
15.47	14.96			
93.68	93.16			
0.1024	19.53			
6.93 LR	19.70			
90.14	9.56			
89.19	89.19			
15.47	14.96			
29.90	30.27			
21.31 LR	0.72			
0.90	0.77			

STRUCTURE FACTORS

PAGE 3

H K L F(OBS) F(CALC)

H	K	L	F(OBS)	F(CALC)
17.07	17.40			
4.5	13.88			
6.7	33.16			
8.8	33.58			
7.0	40.91			
9.0	40.91			
10.0	16.77			
11.0	16.90			
12.0	18.52			
13.0	18.52			
14.0	18.91			
15.0	21.43			
16.0	21.43			
17.0	21.43			
18.0	21.43			
19.0	21.43			
20.0	21.43			
21.0	21.43			
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26.0	21.43			
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30.0	21.43			
31.0	21.43			
32.0	21.43			
33.0	21.43			
34.0	21.43			
35.0	21.43			
36.0	21.43			
37.0	21.43			
38.0	21.43			
39.0	21.43			
40.0	21.43			
41.0	21.43			
42.0	21.43			
43.0	21.43			
44.0	21.43			
45.0	21.43			
46.0	21.43			
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67.0	21.43			
68.0	21.43			
69.0	21.43			
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73.0	21.43			
74.0	21.43			
75.0	21.43			
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77.0	21.43			
78.0	21.43			
79.0	21.43			
80.0	21.43			
81.0	21.43			
82.0	21.43			
83.0	21.43			
84.0	21.43			
85.0	21.43			
86.0	21.43			
87.0	21.43			
88.0	21.43			
89.0	21.43			
90.0	21.43			
91.0	21.43			
92.0	21.43			
93.0	21.43			
94.0	21.43			
95.0	21.43			
96.0	21.43			
97.0	21.43			
98.0	21.43			
99.0	21.43			
0.0	21.43			
1.0	21.43			
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74.0	21.43			
75.0	21.43			
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77.0	21.43			
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79.0	21.43			
80.0	21.43			
81.0	21.43			
82.0	21.43			
83.0	21.43			
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85.0	21.43			
86.0	21.43			
87.0	21.43			
88.0	21.43			
89.0	21.43			
90.0	21.43			
91.0	21.43			
92.0	21.43			
93.0	21.43			
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96.0	21.43			
97.0	21.43			
98.0	21.43			
99.0	21.43			
0.0	21.43			
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39.0	21.43			
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41.0	21.43			
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44.0	21.43			
45.0	21.43			
46.0	21.43			
47.0	21.43			
48.0	21.43			

BRANNOCKITE LARGE DOMAIN		STRUCTURE FACTORS		PAGE 3	
H	K	L	F(OBS)	F(CALC)	F(CALC)
1	11.36	11.99	112.27	50.81	50.81
2	11.76	11.23	44.29	41.65	41.65
3	6.00	0.00	44.03	43.90	43.90
4	6.04	0.04	44.23	43.52	43.52
5	4.39	1.32	5.86	5.86	5.86
6	25.74	20.00	25.99	25.99	25.99
7	2.00	0.00	25.73	25.73	25.73
8	24.90	22.82	8.37	8.37	8.37
9	4.14	4.14	6.10	6.10	6.10
10	16.23	17.66	0.97	0.97	0.97
11	17.92	17.02	0.02	0.02	0.02
12	5.73	5.73	4.56	4.56	4.56
13	8.37	8.37	4.56	4.56	4.56
14	0.00	0.00	4.56	4.56	4.56
15	10.00	10.00	4.56	4.56	4.56
16	6.70	6.70	4.56	4.56	4.56
17	8.0	8.0	12.35	12.35	12.35
18	12.35	12.35	5.67	5.67	5.67
19	6.7	6.7	0.12	0.12	0.12
20	8.0	8.0	12.35	12.35	12.35
21	12.35	12.35	4.56	4.56	4.56
22	5.67	5.67	0.12	0.12	0.12
23	8.0	8.0	12.35	12.35	12.35
24	12.35	12.35	4.56	4.56	4.56
25	5.67	5.67	0.12	0.12	0.12
26	8.0	8.0	12.35	12.35	12.35
27	12.35	12.35	4.56	4.56	4.56
28	5.67	5.67	0.12	0.12	0.12
29	8.0	8.0	12.35	12.35	12.35
30	12.35	12.35	4.56	4.56	4.56
31	5.67	5.67	0.12	0.12	0.12
32	8.0	8.0	12.35	12.35	12.35
33	12.35	12.35	4.56	4.56	4.56
34	5.67	5.67	0.12	0.12	0.12
35	8.0	8.0	12.35	12.35	12.35
36	12.35	12.35	4.56	4.56	4.56
37	5.67	5.67	0.12	0.12	0.12
38	8.0	8.0	12.35	12.35	12.35
39	12.35	12.35	4.56	4.56	4.56
40	5.67	5.67	0.12	0.12	0.12
41	8.0	8.0	12.35	12.35	12.35
42	12.35	12.35	4.56	4.56	4.56
43	5.67	5.67	0.12	0.12	0.12
44	8.0	8.0	12.35	12.35	12.35
45	12.35	12.35	4.56	4.56	4.56
46	5.67	5.67	0.12	0.12	0.12
47	8.0	8.0	12.35	12.35	12.35
48	12.35	12.35	4.56	4.56	4.56
49	5.67	5.67	0.12	0.12	0.12
50	8.0	8.0	12.35	12.35	12.35
51	12.35	12.35	4.56	4.56	4.56
52	5.67	5.67	0.12	0.12	0.12
53	8.0	8.0	12.35	12.35	12.35
54	12.35	12.35	4.56	4.56	4.56
55	5.67	5.67	0.12	0.12	0.12
56	8.0	8.0	12.35	12.35	12.35
57	12.35	12.35	4.56	4.56	4.56
58	5.67	5.67	0.12	0.12	0.12
59	8.0	8.0	12.35	12.35	12.35
60	12.35	12.35	4.56	4.56	4.56
61	5.67	5.67	0.12	0.12	0.12
62	8.0	8.0	12.35	12.35	12.35
63	12.35	12.35	4.56	4.56	4.56
64	5.67	5.67	0.12	0.12	0.12
65	8.0	8.0	12.35	12.35	12.35
66	12.35	12.35	4.56	4.56	4.56
67	5.67	5.67	0.12	0.12	0.12
68	8.0	8.0	12.35	12.35	12.35
69	12.35	12.35	4.56	4.56	4.56
70	5.67	5.67	0.12	0.12	0.12
71	8.0	8.0	12.35	12.35	12.35
72	12.35	12.35	4.56	4.56	4.56
73	5.67	5.67	0.12	0.12	0.12
74	8.0	8.0	12.35	12.35	12.35
75	12.35	12.35	4.56	4.56	4.56
76	5.67	5.67	0.12	0.12	0.12
77	8.0	8.0	12.35	12.35	12.35
78	12.35	12.35	4.56	4.56	4.56
79	5.67	5.67	0.12	0.12	0.12
80	8.0	8.0	12.35	12.35	12.35
81	12.35	12.35	4.56	4.56	4.56
82	5.67	5.67	0.12	0.12	0.12
83	8.0	8.0	12.35	12.35	12.35
84	12.35	12.35	4.56	4.56	4.56
85	5.67	5.67	0.12	0.12	0.12
86	8.0	8.0	12.35	12.35	12.35
87	12.35	12.35	4.56	4.56	4.56
88	5.67	5.67	0.12	0.12	0.12
89	8.0	8.0	12.35	12.35	12.35
90	12.35	12.35	4.56	4.56	4.56
91	5.67	5.67	0.12	0.12	0.12
92	8.0	8.0	12.35	12.35	12.35
93	12.35	12.35	4.56	4.56	4.56
94	5.67	5.67	0.12	0.12	0.12
95	8.0	8.0	12.35	12.35	12.35
96	12.35	12.35	4.56	4.56	4.56
97	5.67	5.67	0.12	0.12	0.12
98	8.0	8.0	12.35	12.35	12.35
99	12.35	12.35	4.56	4.56	4.56
100	5.67	5.67	0.12	0.12	0.12
101	8.0	8.0	12.35	12.35	12.35
102	12.35	12.35	4.56	4.56	4.56
103	5.67	5.67	0.12	0.12	0.12
104	8.0	8.0	12.35	12.35	12.35
105	12.35	12.35	4.56	4.56	4.56
106	5.67	5.67	0.12	0.12	0.12
107	8.0	8.0	12.35	12.35	12.35
108	12.35	12.35	4.56	4.56	4.56
109	5.67	5.67	0.12	0.12	0.12
110	8.0	8.0	12.35	12.35	12.35
111	12.35	12.35	4.56	4.56	4.56
112	5.67	5.67	0.12	0.12	0.12
113	8.0	8.0	12.35	12.35	12.35
114	12.35	12.35	4.56	4.56	4.56
115	5.67	5.67	0.12	0.12	0.12
116	8.0	8.0	12.35	12.35	12.35
117	12.35	12.35	4.56	4.56	4.56
118	5.67	5.67	0.12	0.12	0.12
119	8.0	8.0	12.35	12.35	12.35
120	12.35	12.35	4.56	4.56	4.56
121	5.67	5.67	0.12	0.12	0.12
122	8.0	8.0	12.35	12.35	12.35
123	12.35	12.35	4.56	4.56	4.56
124	5.67	5.67	0.12	0.12	0.12
125	8.0	8.0	12.35	12.35	12.35
126	12.35	12.35	4.56	4.56	4.56
127	5.67	5.67	0.12	0.12	0.12
128	8.0	8.0	12.35	12.35	12.35
129	12.35	12.35	4.56	4.56	4.56
130	5.67	5.67	0.12	0.12	0.12
131	8.0	8.0	12.35	12.35	12.35
132	12.35	12.35	4.56	4.56	4.56
133	5.67	5.67	0.12	0.12	0.12
134	8.0	8.0	12.35	12.35	12.35
135	12.35	12.35	4.56	4.56	4.56
136	5.67	5.67	0.12	0.12	0.12
137	8.0	8.0	12.35	12.35	12.35
138	12.35	12.35	4.56	4.56	4.56
139	5.67	5.67	0.12	0.12	0.12
140	8.0	8.0	12.35	12.35	12.35
141	12.35	12.35	4.56	4.56	4.56
142	5.67	5.67	0.12	0.12	0.12
143	8.0	8.0	12.35	12.35	12.35
144	12.35	12.35	4.56	4.56	4.56
145	5.67	5.67	0.12	0.12	0.12
146	8.0	8.0	12.35	12.35	12.35
147	12.35	12.35	4.56	4.56	4.56
148	5.67	5.67	0.12	0.12	0.12
149	8.0	8.0	12.35	12.35	12.35
150	12.35	12.35	4.56	4.56	4.56
151	5.67	5.67	0.12	0.12	0.12
152	8.0	8.0	12.35	12.35	12.35
153	12.35	12.35	4.56	4.56	4.56
154	5.67	5.67	0.12	0.12	0.12
155	8.0	8.0	12.35	12.35	12.35
156	12.35	12.35	4.56	4.56	4.56
157	5.67	5.67	0.12	0.12	0.12
158	8.0	8.0	12.35	12.35	12.35
159	12.35	12.35	4.56	4.56	4.56
160	5.67	5.67	0.12	0.12	0.12
161	8.0	8.0	12.35	12.35	12.35
162	12.35	12.35	4.56	4.56	4.56
163	5.67	5.67	0.12	0.12	0.12
164	8.0	8.0	12.35	12.35	12.35
165	12.35	12.35	4.56	4.56	4.56
166	5.67	5.67	0.12	0.12	0.12
167	8.0	8.0	12.35	12.35	12.35
168	12.35	12.35	4.56	4.56	4.56
169	5.67	5.67	0.12	0.12	0.12
170	8.0	8.0	12.35	12.35	12.35
171	12.35	12.35	4.56	4.56	4.56
172	5.67	5.67	0.12	0.12	0.12
173	8.0	8.0	12.35	12.35	12.35
174	12.35	12.35	4.56	4.56	4.56
175	5.67	5.67	0.12	0.12	0.12
176	8.0	8.0	12.35	12.35	12.35
177	12.35	12.35	4.56	4.56	4.56
178	5.67	5.67	0.12	0.12	0.12
179	8.0	8.0	12.35	12.35	12.35
180	12.35	12.35	4.56	4.56	4.56
181	5.67	5.67	0.12	0.12	0.12
182	8.0	8.0	12.35	12.35	12.35
183	12.35	12.35	4.56	4.56	4.56
184	5.67	5.67	0.12	0.12	0.12
185	8.0	8.0	12.35	12.35	12.35
186	12.35	12.35	4.56	4.56	4.56
187	5.67	5.67	0.12	0.12	0.12
188	8.0	8.0	12.35	12.35	12.35
189	12.35	12.35	4.56	4.56	4.56
190	5.67	5.67	0.12	0.12	0.12
191	8.0	8.0	12.35</td		

STRUCTURE FACTORS									
PAGE 1			F(CALC)						
H	K	L	F(OBS)	H	K	L	F(OBS)	H	K
BRANNOCKITE	SMALL DOMAIN								
H	K	L	F(OBS)	F(CALC)	H	K	L	F(OBS)	F(CALC)
54.64	57.39	77.50	75.58	55.58	13.80	25.35	32.94	38.82	37.28
41.35	48.40	55.58	32.67	34.77	0.00	0.00	23.36	23.36	20.66
226.83	222.14	56.49	41.04	40.03	0.00	0.00	17.76	17.76	20.87
238.62	241.51	56.48	60.40	60.43	0.00	0.00	12.64	12.64	29.06
163.15	168.18	56.47	86.43	86.43	0.00	0.00	28.24	28.24	95.55
144.57	156.96	56.46	60.41	60.41	0.00	0.00	94.29	94.29	35.55
114.91	116.63	56.45	16.09	16.09	0.00	0.00	27.97	27.97	23.06
10.99	LR	7.404	49.15	52.34	118.18	124.93	60.37	60.37	63.75
70.28	180.74	7.404	178.68	178.68	157.43	150.75	29.00	29.00	24.15
31.66	33.28	7.404	17.29	17.29	13.34	10.75	18.64	18.64	23.89
43.40	38.96	7.404	56.47	59.35	23.05	12.24	5.00	5.00	25.89
106.79	105.66	7.404	34.55	39.40	8.05	1.75	57.82	57.82	65.40
121.61	122.61	7.404	36.72	39.40	151.47	152.73	30.29	30.29	58.49
258.20	256.94	7.404	9.10	10.00	103.02	106.56	55.06	55.06	34.68
4.63	13.94	7.404	110.79	110.79	164.50	164.76	12.24	12.24	19.01
53.77	55.46	7.404	169.34	169.34	126.71	132.95	1.47	1.47	86.68
63.36	64.95	7.404	101.63	101.63	128.52	129.94	56.50	56.50	39.26
131.65	135.22	7.404	94.01	93.12	61.51	62.45	8.03	8.03	10.00
110.48	110.92	7.404	71.02	71.55	84.29	84.06	12.00	12.00	12.00
128.48	129.14	7.404	54.37	54.85	119.93	120.42	27.23	27.23	75.44
0.00	0.00	7.404	0.00	0.00	42.54	43.79	28.48	28.48	25.41
68.91	105.66	7.404	21.50	15.70	26.11	30.81	0.00	0.00	25.68
148.79	122.66	7.404	39.87	39.03	205.87	204.55	1.00	1.00	1.00
198.69	153.84	7.404	8.05	8.05	119.05	120.42	52.56	52.56	51.86
120.60	123.46	7.404	9.75	9.75	20.00	20.00	1.47	1.47	12.64
8.57	12.01	7.404	36.94	35.92	49.52	50.93	15.93	15.93	13.32
107.06	107.23	7.404	46.11	46.41	37.30	32.73	97.69	97.69	97.32
107.12	115.57	7.404	12.01	12.01	108.31	109.74	29.35	29.35	29.72
30.03	32.00	7.404	41.84	42.44	119.54	121.29	1.47	1.47	1.47
34.82	34.37	7.404	8.37	8.37	40.74	40.98	1.47	1.47	1.47
56.72	56.42	7.404	4.34	4.34	40.00	40.15	1.47	1.47	1.47
0.00	0.00	7.404	28.01	27.00	119.54	121.29	1.47	1.47	1.47
55.69	26.42	7.404	32.18	22.35	40.36	40.74	1.47	1.47	1.47
89.39	61.66	7.404	0.00	0.00	92.29	93.75	1.47	1.47	1.47
141.16	123.46	7.404	12.66	12.66	39.06	34.92	1.47	1.47	1.47
87.53	136.65	7.404	48.21	46.22	41.12	41.16	1.47	1.47	1.47
46.85	51.33	7.404	11.34	11.34	62.16	62.67	1.47	1.47	1.47
11.88	40.21	7.404	31.14	31.14	35.57	36.66	1.47	1.47	1.47
73.14	58.19	7.404	116.28	116.28	30.15	30.88	1.47	1.47	1.47
9.99	96.07	7.404	46.18	46.18	80.01	82.87	1.47	1.47	1.47
40.47	97.80	7.404	14.10	14.10	101.35	101.35	1.47	1.47	1.47
14.88	0.00	7.404	0.00	0.00	134.75	134.75	1.47	1.47	1.47
73.14	96.66	7.404	2.79	2.79	80.01	80.01	1.47	1.47	1.47
0.00	0.00	7.404	1.47	1.47	16.06	16.06	1.47	1.47	1.47
57.50	59.30	7.404	45.92	45.92	47.90	52.36	1.47	1.47	1.47
0.00	0.00	7.404	44.82	44.82	82.14	82.14	1.47	1.47	1.47
46.65	46.97	7.404	0.43	0.43	79.43	80.82	1.47	1.47	1.47
38.95	59.30	7.404	12.14	12.14	13.08	26.89	1.47	1.47	1.47
57.50	61.44	7.404	10.00	10.00	10.00	19.13	1.47	1.47	1.47
0.00	0.00	7.404	15.59	15.59	34.34	35.21	1.47	1.47	1.47
73.45	87.97	7.404	3.04	3.04	30.70	30.70	1.47	1.47	1.47
5.11	5.11	7.404	11.99	11.99	11.99	11.99	1.47	1.47	1.47
6.11	6.11	7.404	12.12	12.12	12.12	12.12	1.47	1.47	1.47
7.11	7.11	7.404	12.31	12.31	12.31	12.31	1.47	1.47	1.47
6.11	6.11	7.404	13.45	13.45	13.45	13.45	1.47	1.47	1.47
5.11	5.11	7.404	13.46	13.46	13.46	13.46	1.47	1.47	1.47
6.11	6.11	7.404	14.83	14.83	14.83	14.83	1.47	1.47	1.47
4.11	4.11	7.404	28.08	28.08	28.08	28.08	1.47	1.47	1.47
3.11	3.11	7.404	43.16	43.16	43.16	43.16	1.47	1.47	1.47
2.11	2.11	7.404	46.97	46.97	46.97	46.97	1.47	1.47	1.47
1.11	1.11	7.404	59.30	59.30	59.30	59.30	1.47	1.47	1.47
0.11	0.11	7.404	75.76	75.76	75.76	75.76	1.47	1.47	1.47
0.00	0.00	7.404	90.08	90.08	90.08	90.08	1.47	1.47	1.47
4.11	4.11	7.404	87.97	87.97	87.97	87.97	1.47	1.47	1.47
5.11	5.11	7.404	42.94	42.94	42.94	42.94	1.47	1.47	1.47
6.11	6.11	7.404	14.83	14.83	14.83	14.83	1.47	1.47	1.47
7.11	7.11	7.404	28.08	28.08	28.08	28.08	1.47	1.47	1.47
8.11	8.11	7.404	43.16	43.16	43.16	43.16	1.47	1.47	1.47
9.11	9.11	7.404	46.97	46.97	46.97	46.97	1.47	1.47	1.47
10.11	10.11	7.404	59.30	59.30	59.30	59.30	1.47	1.47	1.47
11.11	11.11	7.404	75.76	75.76	75.76	75.76	1.47	1.47	1.47
12.11	12.11	7.404	90.08	90.08	90.08	90.08	1.47	1.47	1.47
13.11	13.11	7.404	87.97	87.97	87.97	87.97	1.47	1.47	1.47
14.11	14.11	7.404	42.94	42.94	42.94	42.94	1.47	1.47	1.47
15.11	15.11	7.404	14.83	14.83	14.83	14.83	1.47	1.47	1.47
16.11	16.11	7.404	28.08	28.08	28.08	28.08	1.47	1.47	1.47
17.11	17.11	7.404	43.16	43.16	43.16	43.16	1.47	1.47	1.47
18.11	18.11	7.404	46.97	46.97	46.97	46.97	1.47	1.47	1.47
19.11	19.11	7.404	59.30	59.30	59.30	59.30	1.47	1.47	1.47
20.11	20.11	7.404	75.76	75.76	75.76	75.76	1.47	1.47	1.47
21.11	21.11	7.404	90.08	90.08	90.08	90.08	1.47	1.47	1.47
22.11	22.11	7.404	87.97	87.97	87.97	87.97	1.47	1.47	1.47
23.11	23.11	7.404	42.94	42.94	42.94	42.94	1.47	1.47	1.47
24.11	24.11	7.404	14.83	14.83	14.83	14.83	1.47	1.47	1.47
25.11	25.11	7.404	28.08	28.08	28.08	28.08	1.47	1.47	1.47
26.11	26.11	7.404	43.16	43.16	43.16	43.16	1.47	1.47	1.47
27.11	27.11	7.404	46.97	46.97	46.97	46.97	1.47	1.47	1.47
28.11	28.11	7.404	59.30	59.30	59.30	59.30	1.47	1.47	1.47
29.11	29.11	7.404	75.76	75.76	75.76	75.76	1.47	1.47	1.47
30.11	30.11	7.404	90.08	90.08	90.08	90.08	1.47	1.47	1.47
31.11	31.11	7.404	87.97	87.97	87.97	87.97	1.47	1.47	1.47
32.11	32.11	7.404	42.94	42.94	42.94	42.94	1.47	1.47	1.47
33.11	33.11	7.404	14.83	14.83	14.83	14.83	1.47	1.47	1.47
34.11	34.11	7.404	28.08	28.08	28.08	28.08	1.47	1.47	1.47
35.11	35.11	7.404	43.16	43.16	43.16	43.16	1.47	1.47	1.47
36.11	36.11	7.404	46.97	46.97	46.97	46.97	1.47	1.47	1.47
37.11	37.11	7.404	59.30	59.30	59.30	59.30	1.47	1.47	1.47
38.11	38.11	7.404	75.76	75.76	75.76	75.76	1.47	1.47	1.47
39.11	39.11	7.404	90.08	90.08	90.08	90.08	1.47	1.47	1.47
40.11	40.11	7.404	87.97	87.97	87.97	87.97	1.47	1.47	1.47
41.11	41.11	7.404	42.94	42.94	42.94	42.94	1.47	1.47	1.47
42.11	42.11	7.404	14.83	14.83	14.83	14.83	1.47	1.47	1.47
43.11	43.11	7.404	28.08	28.08	28.08	28.08	1.47	1.47	1.47
44.11	44.11	7.404	43.16	43.16	43.16	43.16	1.47	1.47	1.47
45.11	45.11	7.404	46.97	46.97	46.97	46.97	1.47	1.47	1.47
46.11	46.11	7.4							

STRUCTURE FACTORS			PAGE 2		
H	K	L	F(OBS)	F(CALC)	F(CALC)
3	1	1	1	1	1
4	1	1	1	1	1
5	1	1	1	1	1
6	1	1	1	1	1
7	1	1	1	1	1
8	1	1	1	1	1
9	1	1	1	1	1
10	1	1	1	1	1
11	1	1	1	1	1
12	1	1	1	1	1
13	1	1	1	1	1
14	1	1	1	1	1
15	1	1	1	1	1
16	1	1	1	1	1
17	1	1	1	1	1
18	1	1	1	1	1
19	1	1	1	1	1
20	1	1	1	1	1
21	1	1	1	1	1
22	1	1	1	1	1
23	1	1	1	1	1
24	1	1	1	1	1
25	1	1	1	1	1
26	1	1	1	1	1
27	1	1	1	1	1
28	1	1	1	1	1
29	1	1	1	1	1
30	1	1	1	1	1
31	1	1	1	1	1
32	1	1	1	1	1
33	1	1	1	1	1
34	1	1	1	1	1
35	1	1	1	1	1
36	1	1	1	1	1
37	1	1	1	1	1
38	1	1	1	1	1
39	1	1	1	1	1
40	1	1	1	1	1
41	1	1	1	1	1
42	1	1	1	1	1
43	1	1	1	1	1
44	1	1	1	1	1
45	1	1	1	1	1
46	1	1	1	1	1
47	1	1	1	1	1
48	1	1	1	1	1
49	1	1	1	1	1
50	1	1	1	1	1
51	1	1	1	1	1
52	1	1	1	1	1
53	1	1	1	1	1
54	1	1	1	1	1
55	1	1	1	1	1
56	1	1	1	1	1
57	1	1	1	1	1
58	1	1	1	1	1
59	1	1	1	1	1
60	1	1	1	1	1
61	1	1	1	1	1
62	1	1	1	1	1
63	1	1	1	1	1
64	1	1	1	1	1
65	1	1	1	1	1
66	1	1	1	1	1
67	1	1	1	1	1
68	1	1	1	1	1
69	1	1	1	1	1
70	1	1	1	1	1
71	1	1	1	1	1
72	1	1	1	1	1
73	1	1	1	1	1
74	1	1	1	1	1
75	1	1	1	1	1
76	1	1	1	1	1
77	1	1	1	1	1
78	1	1	1	1	1
79	1	1	1	1	1
80	1	1	1	1	1
81	1	1	1	1	1
82	1	1	1	1	1
83	1	1	1	1	1
84	1	1	1	1	1
85	1	1	1	1	1
86	1	1	1	1	1
87	1	1	1	1	1
88	1	1	1	1	1
89	1	1	1	1	1
90	1	1	1	1	1
91	1	1	1	1	1
92	1	1	1	1	1
93	1	1	1	1	1
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275					

BRANNOCKITE SMALL DOMAIN			STRUCTURE FACTORS		
H	K	L	F(OBS)	F(CALC)	PAGE 4
83.20	37.25	51.38	0.00	11.17	61.86
87.57	37.45	63.34	LR	11.95	21.50
53.83	66.63	144.02	28.17	31.31	21.50
5.12	6.12	148.54	39.00	0.00	81.18
4.5 12	6.12	144.05	33.25	43.11	27.15
4.5 12	6.12	144.05	33.25	19.13	63.29
4.5 12	6.12	144.05	33.25	6.9	28.39
4.5 12	6.12	144.05	33.25	5.9	75.24
4.5 12	6.12	144.05	33.25	5.5	19.07
4.5 12	6.12	144.05	33.25	5.5	27.09
4.5 12	6.12	144.05	33.25	5.5	54.41
4.5 12	6.12	144.05	33.25	5.5	64.60
4.5 12	6.12	144.05	33.25	5.5	31.70
4.5 12	6.12	144.05	33.25	5.5	17.03
4.5 12	6.12	144.05	33.25	5.5	25.21
4.5 12	6.12	144.05	33.25	5.5	19.63
4.5 12	6.12	144.05	33.25	5.5	67.00
4.5 12	6.12	144.05	33.25	5.5	66.00
4.5 12	6.12	144.05	33.25	5.5	18.51
4.5 12	6.12	144.05	33.25	5.5	22.07
4.5 12	6.12	144.05	33.25	5.5	14.99
4.5 12	6.12	144.05	33.25	5.5	27.67
4.5 12	6.12	144.05	33.25	5.5	47.74
4.5 12	6.12	144.05	33.25	5.5	22.07
4.5 12	6.12	144.05	33.25	5.5	14.99
4.5 12	6.12	144.05	33.25	5.5	27.67
4.5 12	6.12	144.05	33.25	5.5	59.46
4.5 12	6.12	144.05	33.25	5.5	25.41
4.5 12	6.12	144.05	33.25	5.5	13.64
4.5 12	6.12	144.05	33.25	5.5	53.23
4.5 12	6.12	144.05	33.25	5.5	18.81
4.5 12	6.12	144.05	33.25	5.5	29.44
4.5 12	6.12	144.05	33.25	5.5	24.06
4.5 12	6.12	144.05	33.25	5.5	51.99
4.5 12	6.12	144.05	33.25	5.5	13.64
4.5 12	6.12	144.05	33.25	5.5	17.59
4.5 12	6.12	144.05	33.25	5.5	58.96
4.5 12	6.12	144.05	33.25	5.5	18.43
4.5 12	6.12	144.05	33.25	5.5	22.40
4.5 12	6.12	144.05	33.25	5.5	60.05
4.5 12	6.12	144.05	33.25	5.5	16.92
4.5 12	6.12	144.05	33.25	5.5	31.91
4.5 12	6.12	144.05	33.25	5.5	31.06
4.5 12	6.12	144.05	33.25	5.5	19.27
4.5 12	6.12	144.05	33.25	5.5	24.06
4.5 12	6.12	144.05	33.25	5.5	49.35
4.5 12	6.12	144.05	33.25	5.5	31.07
4.5 12	6.12	144.05	33.25	5.5	21.30
4.5 12	6.12	144.05	33.25	5.5	14.73
4.5 12	6.12	144.05	33.25	5.5	43.07
4.5 12	6.12	144.05	33.25	5.5	28.01
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4.5 12	6.12	144.05	33.25	5.5	17.90
4.5 12	6.12	144.05	33.25	5.5	21.15
4.5 12	6.12	144.05	33.25	5.5	0.00
4.5 12	6.12	144.05	33.25	5.5	17.69
4.5 12	6.12	144.05	33.25	5.5	17.30
4.5 12	6.12	144.05	33.25	5.5	19.08
4.5 12	6.12	144.05	33.25	5.5	11.95
4.5 12	6.12	144.05	33.25	5.5	26.33
4.5 12	6.12	144.05	33.25	5.5	12.70
4.5 12	6.12	144.05	33.25	5.5	20.36
4.5 12	6.12	144.05	33.25	5.5	12.00
4.5 12	6.12	144.05	33.25	5.5	0.00
4.5 12	6.12	144.05	33.25	5.5	0.00
H K L F(OBS) F(CALC)			H K L F(OBS) F(CALC)		
83.20	37.25	51.38	0.00	11.17	61.86
87.57	37.45	63.34	0.00	11.95	21.50
53.83	66.63	144.02	28.17	31.31	21.50
5.12	6.12	148.54	39.00	0.00	81.18
4.5 12	6.12	144.05	33.25	43.11	27.15
4.5 12	6.12	144.05	33.25	19.13	63.29
4.5 12	6.12	144.05	33.25	6.9	28.39
4.5 12	6.12	144.05	33.25	5.9	75.24
4.5 12	6.12	144.05	33.25	5.5	19.07
4.5 12	6.12	144.05	33.25	5.5	27.09
4.5 12	6.12	144.05	33.25	5.5	54.41
4.5 12	6.12	144.05	33.25	5.5	64.60
4.5 12	6.12	144.05	33.25	5.5	31.70
4.5 12	6.12	144.05	33.25	5.5	17.03
4.5 12	6.12	144.05	33.25	5.5	25.21
4.5 12	6.12	144.05	33.25	5.5	19.63
4.5 12	6.12	144.05	33.25	5.5	67.00
4.5 12	6.12	144.05	33.25	5.5	66.00
4.5 12	6.12	144.05	33.25	5.5	18.51
4.5 12	6.12	144.05	33.25	5.5	29.20
4.5 12	6.12	144.05	33.25	5.5	22.00
4.5 12	6.12	144.05	33.25	5.5	55.98
4.5 12	6.12	144.05	33.25	5.5	26.18

