

WESTERN HOLDINGS MINE

	MINE CALL FACTOR	TRAM WIDTH (cm)	STOPE WIDTH (cm)
Apr-92	81.11	154	139.8
May-92	81.5	163.2	142
Jun-92	83.09	172.9	141.3
Jul-92	79.98	163.4	139.4
Aug-92	83.2	173.3	138.7
Sep-92	82.71	169.7	136.4
Oct-92	82.13	164.6	136.3
Nov-92	83.09	159.1	139.1
Dec-92	83.97	154	138.7
Jan-93	75.79	157.2	136.6
Feb-93	78.2	163.5	136.2
Mar-93	87.89	164.4	133
Apr-93	79.16	142	133.6
May-93	77.46	164.1	136.5
Jun-93	75.59	146.8	135.5
Jul-93	78.5	166.2	136.1
Aug-93	82.52	162.8	133
Sep-93	80.83	164.3	133.8
Oct-93	80.36	151.3	135.6
Nov-93	77.77	159.3	134.7
Dec-93	71.14	155.1	134.8
Jan-94	73.47	158	133.7
Feb-94	78.31	159.6	135
Mar-94	77.07	154.4	133.2
Apr-94	76.18	173.1	135.7
May-94	76.97	158.9	139.8
Jun-94	66.74	148.7	136
Jul-94	69.66	155.8	138.4
Aug-94	70.67	167.3	139.1
Sep-94	78.95	173.2	139.5
Oct-94	66.39	145	139.2
Nov-94	74.62	160	141
Dec-94	71.53	148	138.8
Jan-95	71.34	162.8	136
Feb-95	71.46	155.8	137.4
Mar-95	67.53	149	135.5
Apr-95	59.2	142.1	137.4
May-95	66.75	156.4	136.8
Jun-95	65.26	149.4	135.3
Jul-95	68.33	166.4	135.4
Aug-95	66.53	159.3	132.4
Sep-95	69.78	175	131.7

MINE CALL FACTOR VS TRAM WIDTH (cm)

Regression Output:	
Constant	23.415454
Std Err of Y Est	5.7858702
R Squared	0.1987637
No. of Observations	42
Degrees of Freedom	40
X Coefficient(s)	0.3276477
Std Err of Coef.	0.1040068

MINE CALL FACTOR VS STOPE WIDTH (cm)

Regression Output:	
Constant	23.308186
Std Err of Y Est	6.3969764
R Squared	0.0239727
No. of Observations	42
Degrees of Freedom	40
X Coefficient(s)	0.3822112
Std Err of Coef.	0.385608

Table 28. Western Holdings Mine. Statistical relationship between Mine Call Factor and tram / stope width.

WESTERN HOLDINGS MINE

	MINE CALL FACTOR	STP WIDTH	OCF O AREAS	AREA MINED	AREA SWEPT	CMG/T	ORF HST DISC T	TOTAL TONS HST	GRADE HST	REF MTR
Apr-92	81.11	139.8	183.04	81989	7' 57.4	1515	9351	425004	9.06	652.4
May-92	81.5	142	181.89	78167	72' 06	1537	23667	423087	8.76	612.5
Jun-92	83.09	141.3	166.2	84781	75640	1562	49491	463027	8.63	490
Jul-92	79.98	139.4	179.99	87585	84726	1502	32120	462935	8.63	462.8
Aug-92	83.2	136.7	178.46	82836	72128	1561	57365	464404	8.5	414.8
Sep-92	82.71	136.4	178.2	85851	87423	1586	50249	470406	8.68	820.2
Oct-92	82.13	138.3	174.53	85583	87486	1628	38007	451039	9.47	501.2
Nov-92	83.09	139.1	191.83	85074	78978	1608	24062	427538	9.71	436.1
Dec-92	83.97	138.7	178.16	87408	85868	1678	10749	438955	10.28	444.4
Jan-93	75.79	138.6	175.88	83203	74827	1691	19735	424352	10.1	386.1
Feb-93	78.2	138.2	168.89	91010	78323	1617	35405	429071	9.44	364.7
Mar-93	87.09	133	174.94	81739	86241	1558	45723	431245	9.03	382.2
Apr-93	79.16	133.6	150.88	85244	73518	1510	7496	398002	9.89	470.6
May-93	77.46	136.5	137.68	86139	81337	1684	41234	452485	9.63	350.5
Jun-93	75.59	135.5	155.15	91073	83004	1574	5060	438012	10	453.6
Jul-93	78.5	136.1	141.44	82641	82555	1639	47889	447925	9.25	461.6
Aug-93	82.82	133	145.5	86753	83656	1528	44825	454582	8.87	403.4
Sep-93	80.63	133.8	139.06	84668	83289	1682	48118	445168	9.55	337.5
Oct-93	80.36	135.6	144.85	82786	75971	1646	10985	411161	10.05	400.6
Nov-93	77.77	134.7	153.62	83849	75801	1686	34695	433602	9.57	388
Dec-93	71.14	134.8	163.85	86167	82029	1701	26336	437335	10.26	320.6
Jan-94	73.47	133.7	110.88	75687	71090	1617	30318	411555	9.43	314
Feb-94	78.31	135	97.93	80311	78994	1529	34074	415728	8.81	284.6
Mar-94	77.07	133.2	126.87	77303	74274	1522	21364	393566	9	331.4
Apr-94	76.18	135.7	16.84	71163	27991	1427	53035	384559	7.6	286.4
May-94	78.97	139.6	93.37	69490	81327	1462	14867	351098	8.48	222.6
Jun-94	66.74	136	77.19	79269	86472	1500	1619	370658	9.33	347.2
Jul-94	69.66	136.4	92.87	76867	86280	1503	14645	377555	8.94	351.6
Aug-94	70.37	139.1	96.84	75709	72052	1511	37691	398477	8.34	239.4
Sep-94	78.95	139.5	105.59	72844	75488	1558	44883	398606	8.34	275.8
Oct-94	66.39	139.2	99.88	81990	88029	1645	-8554	384493	10.23	366.2
Nov-94	74.82	141	92.55	76882	84478	1532	20167	389489	8.84	263.4
Dec-94	71.53	136.8	133.16	77923	76081	1585	-3819	372665	9.78	146.8
Jan-95	71.34	136	147.65	68629	62896	1553	29396	352892	9.03	100.4
Feb-95	71.46	137.4	144.48	74173	71839	1584	16105	377762	9.3	184.5
Mar-95	67.53	135.5	126.62	71123	59828	1528	4275	350393	9.25	226.1
Apr-95	59.2	137.4	155.85	69735	85133	1542	-9649	328734	9.93	165.5
May-95	68.75	136.8	136.37	67419	65694	1569	18436	340438	9.39	131.3
Jun-95	65.29	135.3	147.41	68173	52373	1515	5912	331834	9.46	85.7
Jul-95	68.33	135.4	141.06	62127	53378	1588	35259	330008	9.01	114.2
Aug-95	66.53	132.4	97.72	62265	52105	1657	29326	326134	9.31	132.5
Sep-95	69.78	131.7	103.34	59152	43791	1754	52299	335420	9.13	143

Table 29. Western Holdings Mine. Statistical relationship between Mine Call Factor and various variables.

Table 30. Western Holdings Mine. Statistical relationship between Mine Call Factor and variables, results.

WESTERN HOLDINGS - MULTIPLE VARIABLE REGRESSION OUTPUT										
Regression Output:										
Constant	98.393216223									
Std Err of Y Est	3.59227848302									
R Squared	0.75376915982									
No. of Observations	42									
Degrees of Freedom	32									
X Coefficient(s)	-0.253462345	0.05844834999	0.000772	1.12E-05	0.025781	6.84E-05	-8.3E-05	-7.65742	0.012459	
Std Err of Coef.	0.3428852234	0.03742569807	0.000892	8.16E-05	0.041101	0.000149	0.000173	7.608776	0.00912	

PRESIDENT BRAND MINE

	MINE CALL FACTOR	STOPE GRADE (g/t)
Apr-92	100.85	8.01
May-92	94.48	7.41
Jun-92	88.66	8.31
Jul-92	98.23	7.57
Aug-92	92.58	8.4
Sep-92	91.6	9.41
Oct-92	96.67	9.04
Nov-92	82.69	9.67
Dec-92	96.33	8.95
Jan-93	88.76	8.62
Feb-93	89.06	9.59
Mar-93	82.72	9.08
Apr-93	90.17	8.27
May-93	82.76	8.42
Jun-93	84.54	8.46
Jul-93	83.58	8.55
Aug-93	79.29	8.24
Sep-93	82.31	8.62
Oct-93	80.57	8.93
Nov-93	85.99	8.41
Dec-93	87.63	8.2
Jan-94	94.98	7.94
Feb-94	93.01	7.75
Mar-94	81.06	8.22
Apr-94	96.77	8.13
May-94	92.52	7.33
Jun-94	71.79	7.63
Jul-94	73.48	8.49
Aug-94	69.84	8.73
Sep-94	83.8	9.19
Oct-94	78.16	9.27
Nov-94	89.28	7.91
Dec-94	69.63	7.87
Jan-95	110.46	8.15
Feb-95	83.8	8.51
Mar-95	81.51	8.89
Apr-95	79.47	9.06
May-95	86.48	9.27
Jun-95	69.49	8.59
Jul-95	73.6	8.33
Aug-95	83.48	8.33
Sep-95	74	8.46

MINE CALL FACTOR vs STOPE GRADE (g/t)

Regression Output:

Constant	114.8402
Std Err of Y Est	8.713889
R Squared	0.045895
No. of Observations	42
Degrees of Freedom	40
X Coefficient(s)	-3.38988
Std Err of Coef.	2.443809

Table 31. President Brand Mine. Statistical relationship between Mine Call Factor and stope grade.

PRESIDENT BRAND MINE

	MINE CALL FACTOR	HOISTED GRADE (g/t)
Apr-92	100.85	6.27
May-92	94.48	5.76
Jun-92	88.66	6.36
Jul-92	98.23	6.29
Aug-92	92.58	6.32
Sep-92	91.6	7.31
Oct-92	96.67	7.41
Nov-92	82.69	3.51
Dec-92	96.33	6.92
Jan-93	88.76	6.71
Feb-93	89.06	7.31
Mar-93	82.72	6.93
Apr-93	90.17	7.77
May-93	82.76	6.38
Jun-93	84.54	7.17
Jul-93	83.58	6.65
Aug-93	79.29	7.15
Sep-93	92.31	7.17
Oct-93	80.57	7.52
Nov-93	35.99	6.84
Dec-93	87.63	6.33
Jan-94	94.98	6.32
Feb-94	93.01	6.51
Mar-94	81.06	7.06
Apr-94	96.77	6.5
May-94	92.52	5.74
Jun-94	71.79	7.43
Jul-94	73.48	6.76
Aug-94	69.88	7.44
Sep-94	83.8	6.93
Oct-94	78.16	7.15
Nov-94	89.28	6.75
Dec-94	89.63	6.12
Jan-95	110.46	6.75
Feb-95	83.8	6.32
Mar-95	81.51	8.32
Apr-95	79.47	7.88
May-95	89.48	6.81
Jun-95	69.49	7.76
Jul-95	73.65	6.97
Aug-95	83.48	6.83
Sep-95	74	7.29

MINE CALL FACTOR vs HOISTED GRADE (g/t)

Regression Output:	
Constant	133.426
Std Err of Y Est	7.846366
R Squared	0.226413
No. of Observations	42
Degrees of Freedom	40
X Coefficient(s)	-6.82692
Std Err of Coef.	1.995256

Table 32. President Brand Mine. Statistical relationship between Mine Call Factor and hoisted grade.

PRESIDENT BRAND MINE

	MINE CALL FACTOR	GOLD CALLED FOR STOPES
Apr-92	100.85	1500.84
May-92	94.48	1412.83
Jun-92	88.66	1760.53
Jul-92	96.23	1590
Aug-92	92.58	1714.52
Sep-92	91.6	1977.51
Oct-92	96.67	1932.25
Nov-92	82.69	2143.77
Dec-92	96.33	1782.22
Jan-93	88.76	1637.45
Feb-93	89.06	2021.19
Mar-93	82.72	1942.43
Apr-93	90.17	1711.3
May-93	82.76	1704.99
Jun-93	84.54	1677.36
Jul-93	83.58	1761.3
Aug-93	79.29	1675.3
Sep-93	82.31	1857
Oct-93	90.57	1922.56
Nov-93	85.99	1747.3
Dec-93	87.63	1684.22
Jan-94	94.98	1459.09
Feb-94	93.01	1539.41
Mar-94	81.06	1569.49
Apr-94	96.77	1425.83
May-94	92.52	1220.6
Jun-94	71.79	1618.67
Jul-94	73.48	1539.75
Aug-94	69.08	1725.18
Sep-94	82.8	1553.27
Oct-94	78.16	1566.84
Nov-94	89.28	1387.17
Dec-94	89.63	1226.16
Jan-95	110.46	1244.76
Feb-95	83.8	1369.42
Mar-95	81.51	1597.72
Apr-95	79.47	1392.73
May-95	69.48	1372.16
Jun-95	69.49	1336.35
Jul-95	73.65	1304.21
Aug-95	83.48	1324.75
Sep-95	74	1384.1

MINE CALL FACTOR vs GOLD CALLED FOR STOPES (kg)

Regression Output:	
Constant	90.78413
Std Err of Y Est	6.894403
R Squared	0.005956
No. of Observations	42
Degrees of Freedom	40
X Coefficient(s)	-0.00288
Std Err of Coef.	0.005847

Table 33. President Brand Mine. Statistical relationship between Mine Call Factor and gold called for (stopes).

PRESIDENT BRAND MINE

	MINE CALL FACTOR	TOTAL TONS HOISTED
Apr-92	100.85	251999
May-92	94.48	264291
Jun-92	88.66	269340
Jul-92	98.23	263845
Aug-92	92.5	268488
Sep-92	91.6	268601
Oct-92	96.67	275946
Nov-92	82.69	272684
Dec-92	96.33	276769
Jan-93	88.76	260896
Feb-93	89.06	295918
Mar-93	82.72	296786
Apr-93	90.17	241928
May-93	82.76	291220
Jun-93	84.54	285637
Jul-93	83.58	280366
Aug-93	79.29	278451
Sep-93	82.31	277484
Oct-93	80.57	276354
Nov-93	85.99	275995
Dec-93	87.63	282237
Jan-94	94.98	247190
Feb-94	93.01	254812
Mar-94	81.06	238206
Apr-94	96.77	238786
May-94	92.52	231258
Jun-94	71.79	229616
Jul-94	73.48	239393
Aug-94	69.68	240803
Sep-94	83.8	232642
Oct-94	78.16	227304
Nov-94	89.28	215516
Dec-94	89.63	208935
Jan-95	110.48	194757
Feb-95	83.8	229732
Mar-95	81.51	200671
Apr-95	79.47	185962
May-95	89.48	211588
Jun-95	69.49	182125
Jul-95	73.65	199429
Aug-95	83.48	208748
Sep-95	74	202973

MINE CALL FACTOR VS TOTAL TONS HOISTED

Regression Output:

Constant	71.87198
Std Err of Y Est	8.702873
R Squared	0.048306
No. of Observations	42
Degrees of Freedom	40
X Coefficient(s)	5.76E-05
Std Err of Coef.	4.04E-05

Table 34. President Brand Mine. Statistical relationship between Mine Call Factor and total tons hoisted.

PRESIDENT BRAND MINE

	MINE CALL FACTOR	ORE HOISTED DISCREP
Apr-92	100.65	32398
May-92	94.48	39568
Jun-92	88.66	47453
Jul-92	98.23	23158
Aug-92	92.58	51351
Sep-92	91.6	42512
Oct-92	98.67	28388
Nov-92	52.69	10606
Dec-92	96.33	43906
Jan-93	88.76	35389
Feb-93	89.08	45371
Mar-93	82.72	45740
Apr-93	90.17	-19545
May-93	82.76	36867
Jun-93	84.54	1666
Jul-93	83.58	14497
Aug-93	79.29	-8015
Sep-93	82.31	1125
Oct-93	80.57	-4840
Nov-93	85.99	8747
Dec-93	87.63	19861
Jan-94	94.98	10795
Feb-94	83.01	1240
Mar-94	81.06	3378
Apr-94	96.77	19111
May-94	92.52	29991
Jun-94	71.79	-28232
Jul-94	73.48	14656
Aug-94	69.88	-4562
Sep-94	83.8	28246
Oct-94	78.16	-3408
Nov-94	89.28	-3998
Dec-94	89.63	13660
Jan-95	110.46	7615
Feb-95	83.8	28353
Mar-95	81.51	-22057
Apr-95	79.47	-2742
May-95	89.48	29547
Jun-95	69.49	-8476
Jul-95	73.85	4955
Aug-95	83.48	12165
Sep-95	74	5000

MINE CALL FACTOR VS ORE HOISTED DISCREPANCY (I)

Regression Output:

Constant	83.09755
Std Err of Y Est	7.859348
R Squared	0.223851
No. of Observations	42
Degrees of Freedom	40
X Coefficient(s)	0.000204
Std Err of Coef.	6.02E-05

Table 35. President Brand Mine. Statistical relationship between Mine Call Factor and ore hoisted discrepancy.

PRESIDENT BRAND MINE

	MINE CALL FACTOR	REEF TONS HOISTED
Apr-92	100.85	242172
May-92	94.48	250511
Jun-92	88.66	279745
Jul-92	98.23	254886
Aug-92	92.58	276721
Sep-92	91.8	272905
Oct-92	96.67	283978
Nov-92	82.89	253495
Dec-92	96.33	280355
Jan-93	88.76	245892
Feb-93	89.06	279147
Mar-93	82.72	283549
Apr-93	90.17	232488
May-93	82.76	281920
Jun-93	84.54	278648
Jul-93	83.50	274985
Aug-93	79.29	273556
Sep-93	82.31	270558
Oct-93	80.57	284986
Nov-93	85.99	263526
Dec-93	87.63	273316
Jan-94	94.98	238592
Feb-94	93.01	244825
Mar-94	81.03	231838
Apr-94	96.77	233194
May-94	92.52	224887
Jun-94	71.78	227786
Jul-94	73.48	239393
Aug-94	69.88	240803
Sep-94	83.8	232642
Oct-94	78.16	227304
Nov-94	89.28	215518
Dec-94	89.63	208935
Jan-95	110.46	194757
Feb-95	83.8	229732
Mar-95	81.51	200871
Apr-95	79.47	185962
May-95	89.48	211588
Jun-95	89.49	182125
Jul-95	73.65	198429
Aug-95	83.48	208748
Sep-95	74	202973

MINE CALL FACTOR VS REEF TONS HOISTED

Regression Output:	
Constant	73.59592
Std Err of Y Est	8.787867
R Squared	0.029627
No. of Observations	42
Degrees of Freedom	40
X Coefficient(s)	5.2E-05
Std Err of Coef.	4.7E-05

Table 36. President Brand Mine. Statistical relationship between Mine Call Factor and reef tons hoisted.

PRESIDENT BRAND MINE

	MINE CALL FACTOR	SWEEPINGS %
Apr-92	100.85	77.8
May-92	94.48	71.7
Jun-92	88.66	80.7
Jul-92	98.23	77.5
Aug-92	92.58	90.6
Sep-92	91.6	81.1
Oct-92	96.67	87.1
Nov-92	82.69	82.8
Dec-92	96.33	100.7
Jan-93	88.76	88.7
Feb-93	89.06	94.7
Mar-93	82.72	94.1
Apr-93	90.17	93.8
May-93	82.76	89.4
Jun-93	84.54	90.3
Jul-93	83.58	110.4
Aug-93	79.29	87.3
Sep-93	82.31	93.9
Oct-93	80.57	101.7
Nov-93	85.99	108.6
Dec-93	87.83	98.9
Jan-94	94.98	89.6
Feb-94	93.01	98.6
Mar-94	81.06	93.3
Apr-94	96.77	89.8
May-94	92.52	95.8
Jun-94	71.79	95.9
Jul-94	73.48	109.2
Aug-94	69.88	77.5
Sep-94	77.8	107.3
Oct-94	78.16	86.4
Nov-94	86.26	89.2
Dec-94	89.63	105.8
Jan-95	110.46	100.9
Feb-95	83.8	103.1
Mar-95	81.51	108.6
Apr-95	79.47	111.7
May-95	89.48	91.3
Jun-95	69.49	122.1
Jul-95	73.65	96.3
Aug-95	83.48	112.8
Sep-95	74	102.8

MINE CALL FACTOR VS SWEEPINGS %

Regression Output:

Constant	111.6604
Std. Err of Y Est	8.38092
R Squared	0.117418
No. of Observations	42
Degrees of Freedom	40
X Coefficient(s)	-0.26506
Std Err of Coef.	0.116201

Table 37. President Brand Mine. Statistical relationship between Mine Call Factor and sweepings.

PRESIDENT BRAND MINE

MINE CALL FACTOR VS TRAM WIDTH (cm)

Regression Output:

Constant	56.330811
Std Err of Y Est	6.51795
R Squared	0.0883207
No. of Observations	42
Degree of Freedom	40
X Coefficient(s)	0.1649916
Std Err of Coef.	0.0636149

MINE CALL FACTOR VS STOPE WIDTH (cm)

Regression Output:

Constant	130.46065
Std Err of Y Est	6.5146549
R Squared	0.0890259
No. of Observations	42
Degree of Freedom	40
X Coefficient(s)	-0.277535
Std Err of Coef.	0.1403725

	MINE CALL FACTOR	TRAM WIDTH (cm)	STOPE WIDTH (cm)
Apr-92	100.85	184.7	151
May-92	94.48	188.1	149.9
Jun-92	88.86	191	149.7
Jul-92	98.23	180.3	154.7
Aug-92	92.58	200.9	154.3
Sep-92	91.6	196.7	155.7
Oct-92	98.67	186.6	156.6
Nov-92	82.89	189.4	152.6
Dec-92	96.33	197.6	154.9
Jan-93	88.76	187.1	150.3
Feb-93	89.06	190.5	148.9
Mar-93	82.72	193.5	151
Apr-93	90.17	144.2	149.8
May-93	82.76	192	154.7
Jun-93	84.54	182.9	153.6
Jul-93	83.56	179.1	156.5
Aug-93	79.29	169.2	164
Sep-93	82.31	164.1	153.6
Oct-93	80.57	162.4	154.8
Nov-93	85.99	173.5	156.3
Dec-93	87.63	174.1	151.4
Jan-94	94.98	172.4	154.1
Feb-94	93.01	171.7	162.4
Mar-94	81.06	188.4	156
Apr-94	96.77	178.3	153.7
May-94	92.52	195.3	158.6
Jun-94	71.79	144.3	157.8
Jul-94	73.48	175.7	154.7
Aug-94	69.88	155.7	151.9
Sep-94	83.8	182.9	150.7
Oct-94	78.16	177.2	171
Nov-94	89.28	171.2	165.9
Dec-94	89.63	194.5	168.8
Jan-95	110.46	186.9	170.1
Feb-95	83.8	211.3	171.9
Mar-95	81.51	162.9	175.2
Apr-95	79.47	179	172.5
May-95	89.48	214.9	170.5
Jun-95	69.49	177.5	177.4
Jul-95	73.85	192.7	177.9
Aug-95	83.48	201.2	177.6
Sep-95	74	196.1	179.5

Table 38. President Brand Mine. Statistical relationship between Mine Call Factor and tram / stope width.

Table 39. President Brand Mine. Statistical relationship between Mine Call Factor and various variables.

PRESIDENT BRAND MINE

	MINE CALL FACTOR	STP WIDTH	GCF O/AREAS	AREA MINED	AREA SWEPT	CMQ/T	ORE HST DIS	TOTAL TONS	GRADE HST	REF MTRS
Apr-92	100.85	151	G	44645	31573	1209	32395	251999	6.27	440.2
May-92	94.48	149.9	J	45731	30338	1111	39568	264291	5.76	482
Jun-92	86.66	149.7	O	50672	38653	1245	47453	269340	6.36	401.9
Jul-92	98.23	154.7	O	48862	35532	1171	23158	263845	6.29	421.1
Aug-92	92.58	154.3	O	47808	40507	1295	51351	286486	6.32	550.4
Sep-92	91.6	155.7	O	48533	37306	1466	42512	288601	7.31	463
Oct-92	96.67	156.6	O	49104	39725	1415	28388	275946	7.41	498.3
Nov-92	82.69	152.6	O	52281	39781	1475	10606	272684	8.51	460.3
Dec-92	96.33	154.9	O	46280	44028	1386	43908	276769	6.92	434.9
Jan-93	86.76	150.3	O	45489	36813	1396	35389	260696	6.71	327.6
Feb-93	89.06	148.9	O	50603	45543	1428	45371	295918	7.31	468.4
Mar-93	82.72	151	O	50347	44159	1371	45740	296785	6.93	437.5
Apr-93	90.17	149.6	55.63	49686	43375	1239	-19545	241928	7.77	501.6
May-93	82.76	154.7	72.06	47112	38803	1302	38867	291220	6.38	513
Jun-93	84.54	153.6	83.76	51976	42918	1299	1666	285637	7.17	657
Jul-93	83.58	156.5	49.4	47365	49004	1338	14497	280366	6.65	472.6
Aug-93	79.29	164	57.04	49942	40968	1351	-8015	278451	7.15	518.2
Sep-93	82.31	153.6	54.61	50483	45584	1323	1125	277484	7.17	579.9
Oct-93	80.67	154.8	55.56	50024	48551	1362	-4840	276354	7.52	442.7
Nov-93	85.99	156.3	61.47	47838	49152	1314	8747	275995	6.84	372.7
Dec-93	87.63	151.4	54.85	48219	45416	1242	19861	262237	6.33	459.4
Jan-94	94.94	154.1	38.4	42890	36611	1224	10795	247190	6.32	294.2
Feb-94	93.01	162.4	35.67	44005	40271	1256	1240	254612	6.51	299.8
Mar-94	81.08	156	46.24	43994	38962	1263	3376	238206	7.06	232.6
Apr-94	96.77	153.7	59.8	41039	34310	1250	19111	236768	6.5	305
May-94	92.52	156.6	56.35	37731	33603	1184	29991	231258	5.74	206.3
Jun-94	71.79	157.8	52.1	46399	42821	1203	-26232	229616	7.43	287.9
Jul-94	73.48	154.7	59.71	42184	43066	1313	14656	239393	6.78	291.4
Aug-94	69.68	151.9	52.23	46778	34094	1327	-4562	240803	7.44	326.6
Sep-94	83.8	150.7	45.24	40334	40793	1385	26246	232642	6.93	263.7
Oct-94	76.16	171	40.66	39833	32357	1415	-3406	227304	7.15	286.2
Nov-94	89.28	165.9	44.48	38002	31289	1313	-3953	215518	6.75	399.7
Dec-94	89.63	168.6	38.62	33180	32606	1329	13860	206935	6.12	287.7
Jan-95	110.46	170.1	53.61	32290	30321	1367	7615	194757	6.75	279
Feb-95	83.8	171.9	56.67	33659	32711	1463	28353	229732	6.32	366.2
Mar-95	81.51	175.2	55.01	36894	37714	1556	-22057	200671	6.32	362.9
Apr-95	79.47	172.5	59.26	32064	34141	1562	-2742	185962	7.66	368.6
May-95	89.48	170.5	46.9	31240	28077	1580	29547	211558	6.81	446.7
Jun-95	89.49	177.4	46.64	31537	34727	1524	-8478	192125	7.76	469.2
Jul-95	73.65	177.9	40.58	31649	28477	1482	4955	199429	6.97	503.2
Aug-95	83.48	177.6	52.83	32201	34034	1480	12165	208746	6.83	493.6

Table 40. President Brand Mine. Statistical relationship between Mine Call Factor and various variables, results.

PRES BRAND - MULTIPLE VARIABLE REGRESSION OUTPUT									
Regression Output:									
Constant	241.86809938								
Std Err of Y Est	7.4937876461								
R Squared	0.4354990751								
No. of Observations	42								
Degrees of Freedom	32								
X Coefficient(s)	-0.5559969541	-0.18548044	-0.00398	-0.00025	-0.0813	-0.00019	0.000622	11.17329	0.006108
Std Err of Coef.	0.46142598514	0.0636658046	0.002167	0.00037	0.057661	0.00024	0.000374	11.25887	0.015462

PRESIDENT STEYN MINE

	MINE CALL FACTOR	STOPE GRADE (g/t)
Apr-92	77.98	10.6
May-92	81.03	10.49
Jun-92	85.57	10.68
Jul-92	76.84	10.69
Aug-92	84.9	10.66
Sep-92	81.16	11.03
Oct-92	84.92	10.88
Nov-92	83.28	10.56
Dec-92	88.69	11.19
Jan-93	81.22	12.33
Feb-93	100.09	11.92
Mar-93	93.93	12.16
Apr-93	85.94	11.4
May-93	98.03	11.1
Jun-93	82.27	11.08
Jul-93	80.45	10.61
Aug-93	78.88	10.95
Sep-93	87.55	10.69
Oct-93	79.06	10.94
Nov-93	82.13	11.05
Dec-93	83.65	10.51
Jan-94	81.27	10.81
Feb-94	35.11	10.06
Mar-94	78.2	11.06
Apr-94	81.36	9.95
May-94	82.24	10.71
Jun-94	72.1	10.82
Jul-94	77.88	10.88
Aug-94	90.95	10.33
Sep-94	80.89	9.77
Oct-94	84.01	9.44
Nov-94	83.01	9.33
Dec-94	84.46	9.52
Jan-95	81.56	9.95
Feb-95	81.42	10.22
Mar-95	75.59	10.16
Apr-95	81.44	10.4
May-95	84.41	9.84
Jun-95	67.85	10.09
Jul-95	78.17	10.97
Aug-95	80.59	11.4
Sep-95	82.79	11.51

MINE CALL FACTOR vs STOPE GRADE (g/t)

Regression Output:

Constant	56.24115
Std Err of Y Est	5.721302
R Squared	0.079394
No. of Observations	42
Degrees of Freedom	40
X Coefficient(s)	2.482011
Std Err of Coef.	1.336343

Table 41. President Steyn Mine. Statistical relationship between Mine Call Factor and stope grade.

PRESIDENT STEYN MINE

	MINE CALL FACTOR	HOISTED GRADE (g/t)
Apr-92	77.98	8.5
May-92	81.03	8.06
Jun-92	88.57	7.56
Jul-92	76.84	7.86
Aug-92	84.9	7.3
Sep-92	81.16	8.43
Oct-92	84.92	8.33
Nov-92	83.28	8.09
Dec-92	88.69	7.98
Jan-93	81.22	9.61
Feb-93	100.09	8.13
Mar-93	93.93	8.14
Apr-93	85.94	8.92
May-93	98.03	7.37
Jun-93	82.27	8.39
Jul-93	90.45	7.88
Aug-93	78.88	8.2
Sep-93	87.55	7.81
Oct-93	79.06	8.62
Nov-93	82.13	8.09
Dec-93	83.65	8.17
Jan-94	81.27	7.97
Feb-94	85.11	7.41
Mar-94	78.2	8.63
Apr-94	81.36	8.15
May-94	82.24	7.94
Jun-94	72.1	9.78
Jul-94	77.68	8.7
Aug-94	90.99	7.9
Sep-94	80.89	8.29
Oct-94	84.01	8.68
Nov-94	83.01	8.23
Dec-94	84.46	7.62
Jan-95	81.56	7.65
Feb-95	81.42	8.55
Mar-95	75.59	8.07
Apr-95	81.44	7.87
May-95	84.41	7.45
Jun-95	67.85	9.43
Jul-95	78.17	8.35
Aug-95	80.59	8.92
Sep-95	82.79	9.32

MINE CALL FACTOR vs HOISTED GRADE (g/t)

Regression Output:	
Constant	124.1929
Std Err of Y Est	5.187076
R Squared	0.24329
No. of Observations	42
Degrees of Freedom	40
X Coefficient(s)	-5.02147
Std Err of Coef.	1.400244

Table 42. President Steyn Mine. Statistical relationship between Mine Call Factor and hoisted grade.

PRESIDENT STEYN MINE

	MINE CALL FACTOR	GOLD CALLED FOR STOPES
Apr-92	77.98	2826.92
May-92	81.03	2762.09
Jun-92	88.57	2906.08
Jul-92	78.84	3033.12
Aug-92	84.9	2849.2
Sep-92	81.16	3313.59
Oct-92	84.92	3203.57
Nov-92	83.28	3121.59
Dec-92	86.69	2904.22
Jan-93	81.22	3321.39
Feb-93	100.08	3158.67
Mar-93	93.93	3250.04
Apr-93	85.94	3086.34
May-93	98.03	2904.2
Jun-93	92.27	3116.75
Jul-93	80.45	3024.23
Aug-93	78.88	3062.37
Sep-93	87.55	2731.91
Oct-93	79.06	2953.77
Nov-93	82.13	2853.76
Dec-93	83.85	3010.59
Jan-94	81.27	2826.82
Feb-94	85.11	2863.6
Mar-94	78.2	3010.18
Apr-94	81.36	2465.95
May-94	82.24	2550.33
Jun-94	72.1	3083.82
Jul-94	77.88	3021.75
Aug-94	80.99	2676.17
Sep-94	80.89	2834.1
Oct-94	84.01	3036.47
Nov-94	83.01	2841.36
Dec-94	84.46	2747.85
Jan-95	81.56	2485.02
Feb-95	81.42	2684.02
Mar-95	75.59	2494.49
Apr-95	81.44	2544.96
May-95	84.41	2154.54
Jun-95	67.85	2459.22
Jul-95	78.17	2713.93
Aug-95	80.59	2755.97
Sep-95	82.79	2439.76

MINE CALL FACTOR vs GOLD CALLED FOR STOPES (kg)

Regression Output:	
Constant	69.42402
Std Err of Y Est	5.836472
R Squared	0.041957
No. of Observations	42
Degrees of Freedom	40
X Coefficient(s)	0.004684
Std Err of Coef.	0.003524

Table 43. President Steyn Mine. Statistical relationship between Mine Call Factor and gold called for.

PRESIDENT STEYN MINE

	MINE CALL FACTOR	TOTAL TONS HOISTED
Apr-92	77.98	350013
May-92	81.03	356870
Jun-92	88.57	405248
Jul-92	76.84	391116
Aug-92	84.9	400146
Sep-92	81.16	400819
Oct-92	84.92	390492
Nov-92	83.26	390572
Dec-92	88.69	388616
Jan-93	81.22	350270
Feb-93	100.09	395190
Mar-93	93.93	406754
Apr-93	85.94	355672
May-93	98.03	402385
Jun-93	82.27	378122
Jul-93	80.45	392733
Aug-93	78.88	383784
Sep-93	87.55	358614
Oct-93	79.08	350314
Nov-93	82.13	381684
Dec-93	83.85	375459
Jan-94	81.27	338723
Feb-94	85.11	368509
Mar-94	78.2	357990
Apr-94	81.36	310731
May-94	82.24	331284
Jun-94	72.1	328026
Jul-94	77.88	354590
Aug-94	90.99	349441
Sep-94	80.89	352988
Oct-94	84.61	357459
Nov-94	83.01	366743
Dec-94	84.48	362421
Jan-95	81.56	333419
Feb-95	81.42	322249
Mar-95	75.59	315723
Apr-95	81.44	330428
May-95	84.41	300337
Jun-95	87.85	388207
Jul-95	78.17	338175
Aug-95	80.59	317945
Sep-95	82.79	314850

MINE CALL FACTOR VS TOTAL TONS HOISTED

Regression Output:

Constant	48.36836
Std Err of Y Est	4.951422
R Squared	0.310434
No. of Observations	42
Degrees of Freedom	40
X Coefficient(s)	0.000102
Std Err of Coef.	2.41E-05

Table 44. President Steyn Mine. Statistical relationship between Mine Call Factor and total tons hoisted.

PRESIDENT STEYN MINE

	MINE CALL FACTOR	ORE HOISTED DISCREP
Apr-92	77.98	21161
May-92	81.03	27190
Jun-92	85.57	54816
Jul-92	76.84	28674
Aug-92	84.9	51313
Sep-92	81.16	23035
Oct-92	84.92	19211
Nov-92	83.28	17436
Dec-92	88.89	45843
Jan-93	81.22	7938
Feb-93	100.09	58745
Mar-93	93.93	65421
Apr-93	85.94	8524
May-93	98.03	66854
Jun-93	82.27	22239
Jul-93	80.45	32331
Aug-93	78.88	27937
Sep-93	87.55	34839
Oct-93	79.08	7105
Nov-93	82.13	33379
Dec-93	83.85	13800
Jan-94	81.27	23497
Feb-94	85.11	30740
Mar-94	78.2	14812
Apr-94	81.38	11400
May-94	82.24	42256
Jun-94	72.1	-14813
Jul-94	77.88	20776
Aug-94	90.93	38744
Sep-94	80.89	8638
Oct-94	84.01	-22026
Nov-94	83.01	-10140
Dec-94	84.48	17400
Jan-95	81.56	28306
Feb-95	81.42	3649
Mar-95	75.59	20973
Apr-95	81.44	43321
May-95	84.41	38518
Jun-95	67.85	-18836
Jul-95	78.17	38960
Aug-95	80.59	23248
Sep-95	82.79	15914

MINE CALL FACTOR VS ORE HOISTED DISCREPANCY (t)

Regression Output:

Constant	78.15644
Std Err of Y Est	4.468218
R Squared	0.433498
No. of Observations	42
Degrees of Freedom	40
X Coefficient(s)	0.00019
Std Err of Coef.	3.39E-05

Table 45. President Steyn Mine. Statistical relationship between Mine Call Factor and ore hoisted discrepancy.

PRESIDENT STEYN MINE

	MINE CALL FACTOR	REEF TONS HOISTED
Apr-92	77.98	340813
May-92	81.03	348670
Jun-92	88.57	380848
Jul-92	76.84	321116
Aug-92	84.9	400148
Sep-92	81.16	400819
Oct-92	84.92	390492
Nov-92	83.28	390572
Dec-92	88.69	388616
Jan-93	81.22	350270
Feb-93	100.09	395190
Mar-93	93.93	406754
Apr-93	85.94	355672
May-93	98.03	402335
Jun-93	82.27	378122
Jul-93	80.45	392733
Aug-93	78.88	363784
Sep-93	87.55	356614
Oct-93	79.06	350314
Nov-93	82.13	361688
Dec-93	83.85	375459
Jan-94	81.27	338723
Feb-94	85.11	388509
Mar-94	78.2	357590
Apr-94	81.36	310731
May-94	82.24	331264
Jun-94	72.1	328026
Jul-94	77.88	354590
Aug-94	90.99	349441
Sep-94	80.89	352986
Oct-94	84.01	357459
Nov-94	83.01	356743
Dec-94	84.46	362421
Jan-95	81.56	333419
Feb-95	81.42	322249
Mar-95	75.59	315723
Apr-95	81.44	330428
May-95	84.41	300337
Jun-95	67.85	265007
Jul-95	78.17	335175
Aug-95	80.59	317948
Sep-95	82.79	314650

MINE CALL FACTOR VS REEF TONS HOISTED

Regression Output:

Constant	45.80706
Std Err of Y Est	4.939946
R Squared	0.313677
No. of Observations	42
Degree of Freedom	40
X Coefficient(s)	0.000104
Std Err of Coef.	2.43E-05

Table 46. President Steyn Mine. Statistical relationship between Mine Call Factor and reef tons hoisted.

PRESIDENT STEYN MINE

	MINE CALL FACTOR	SWEEPINGS %
Apr-92	77.98	91.1
May-92	81.03	92.5
Jun-92	88.57	93.1
Jul-92	76.84	102.0
Aug-92	84.9	87.4
Sep-92	81.16	82.0
Oct-92	84.92	98.6
Nov-92	83.28	100.0
Dec-92	88.69	93.5
Jan-93	81.22	92.7
Feb-93	100.09	81.9
Mar-93	93.93	107.7
Apr-93	85.94	89.2
May-93	98.03	110.2
Jun-93	82.27	97.0
Jul-93	80.45	87.1
Aug-93	78.88	97.0
Sep-93	87.55	95.4
Oct-93	79.06	109.3
Nov-93	82.13	91.1
Dec-93	83.65	90.1
Jan-94	81.27	109.2
Feb-94	85.11	95.4
Mar-94	78.2	92.9
Apr-94	81.36	94.5
May-94	82.24	102.0
Jun-94	72.1	105.0
Jul-94	77.88	90.1
Aug-94	90.99	108.8
Sep-94	80.89	104.1
Oct-94	84.01	97.5
Nov-94	83.01	100.2
Dec-94	84.48	99.9
Jan-95	81.56	91.7
Feb-95	81.42	95.3
Mar-95	75.59	103.8
Apr-95	81.44	92.7
May-95	84.41	108.4
Jun-95	67.85	100.4
Jul-95	78.17	101.9
Aug-95	80.59	90.6
Sep-95	82.79	102.8

MINE CALL FACTOR VS SWEEPINGS %

Regression Output:

Constant	85.28336
Std Err of Y Est	5.959747
R Squared	0.001059
No. of Observations	42
Degrees of Freedom	40
X Coefficient(s)	-0.026
Std Err of Coef.	0.126275

Table 47. President Steyn Mine. Statistical relationship between Mine Call Factor and sweepings.

PRESIDENT STEYN MINE

	MINE CALL FACTOR	TRAM WIDTH (cm)	STOPE WIDTH (cm)
Apr-92	77.98	194.1	173.4
May-92	81.03	194.8	168.9
Jun-92	88.57	211.2	169.6
Jul-92	76.84	188.9	166.7
Aug-92	84.9	211.4	171
Sep-92	81.16	189.3	169.1
Oct-92	84.92	182.5	164.7
Nov-92	83.28	183.6	166
Dec-92	88.69	196.6	160.4
Jan-93	81.22	174	162.4
Feb-93	100.09	207.7	183.7
Mar-93	93.93	205.6	159.8
Apr-93	85.94	183.9	171.5
May-93	98.03	216.5	165.6
Jun-93	82.27	191.2	170.4
Jul-93	80.45	199.2	169.7
Aug-93	78.88	198	172.5
Sep-93	87.55	204.6	172.6
Oct-93	79.06	185.6	174.1
Nov-93	82.13	197.8	169.3
Dec-93	83.65	187.6	172.6
Jan-94	81.27	198	174.3
Feb-94	85.11	207.1	179.6
Mar-94	78.2	193.8	177.3
Apr-94	81.36	188.3	172.8
May-94	82.24	208.9	170.4
Jun-94	72.1	173.9	175.2
Jul-94	77.88	193.8	173
Aug-94	90.99	206.7	176.4
Sep-94	80.89	186.1	175.4
Oct-94	84.01	185.3	191.8
Nov-94	83.01	194.6	194.1
Dec-94	84.46	210.8	193.1
Jan-95	81.56	227.2	197.5
Feb-95	81.42	206.3	196.7
Mar-95	75.59	216.8	193.5
Apr-95	81.44	230.1	190.2
May-95	84.41	233.9	192
Jun-95	67.85	183.7	191
Jul-95	78.17	219.7	183.2
Aug-95	80.59	202	177.2
Sep-95	82.79	191.9	173.6

MINE CALL FACTOR VS TRAM WIDTH (cm)

Regression Output:

Constant	55.98599
Std Err of Y Est	5.638532
R Squared	0.106472
No. of Observations	42
Degrees of Freedom	40
X Coefficient(s)	0.134429
Std Err of Coef.	0.061574

MINE CALL FACTOR VS STOPE WIDTH (cm)

Regression Output:

Constant	119.5523
Std Err of Y Est	5.536216
R Squared	0.137994
No. of Observations	42
Degrees of Freedom	40
X Coefficient(s)	-0.2093
Std Err of Coef.	0.08271

Table 48. President Steyn Mine. Statistical relationship between Mine Call Factor and tram / stope width.

Table 49. President Steyn Mine. Statistical relationship between Mine Call Factor and various variables.

PRESIDENT STEYN MINE

	MINE CALL FACTOR	STP WIDTH	GCF O/AREAS	AREA MINED	AREA SWEEP	CMQ/T	ORE HST DIS	TOTAL TONS	GRADE HST	REEF MTRS
Apr-92	77.95	173.4	7.93	55348	47983	1837	21161	350013	8.5	557.7
May-92	81.03	168.9	5.13	56075	48922	1772	27190	356870	8.06	443.6
Jun-92	88.57	169.6	6.62	57688	50713	1812	54816	405248	7.58	468.7
Jul-92	76.84	166.7	9.33	61213	59524	1782	26874	391116	7.86	432.7
Aug-92	84.9	171	20.23	56224	47045	1823	51313	400146	7.3	524.9
Sep-92	81.16	169.1	12.61	63888	50481	1866	23035	400819	8.43	460.9
Oct-92	84.92	164.7	13.33	64315	61478	1792	19211	190492	8.33	432.7
Nov-92	83.28	166	11.01	64017	61585	1754	17436	360572	8.09	393
Dec-92	88.69	160.4	15.1	58229	52056	1794	45843	361616	7.99	410.7
Jan-93	81.22	162.4	7.54	59664	53273	2002	7938	350270	9.61	381.5
Feb-93	100.00	163.7	16.5	58227	45889	1951	58745	395190	8.13	342.9
Mar-93	93.93	159.8	15.93	60153	62021	1944	65421	413754	8.14	390.1
Apr-93	85.94	171.5	35.72	58774	49835	1955	8524	355672	8.92	325.1
May-93	98.03	165.8	37.21	56796	59377	1839	66854	402385	7.37	285.2
Jun-93	82.27	170.4	36.36	59353	54881	1889	22239	378122	8.39	420.3
Jul-93	80.45	169.7	42.69	60439	60532	1800	33031	392733	7.88	455.7
Aug-93	78.68	172.5	61.34	58304	54536	1889	27947	383784	8.2	473.7
Sep-93	87.55	172.6	13.56	53243	48264	1846	34839	356814	7.81	450.6
Oct-93	79.06	174.1	34.21	58780	57621	1905	7105	350314	8.62	442.1
Nov-93	82.13	169.3	34.3	54876	47671	1871	33379	361688	8.09	387.3
Dec-93	83.65	172.8	36.17	59652	50913	1815	13500	375459	8.17	324.1
Jan-94	81.27	174.3	49.64	50167	52361	1883	23497	336723	7.97	370.6
Feb-94	85.11	173.6	35.22	53040	48267	1803	30740	368500	7.41	425.6
Mar-94	78.2	177.3	59.32	55216	49287	1981	14812	357990	8.63	322.3
Apr-94	81.36	172.8	50.46	51581	48898	1720	11400	310731	8.15	218
May-94	82.24	170.4	66.62	50273	49349	1825	42258	331284	7.94	198
Jun-94	72.1	175.2	78.78	58493	58816	1896	-14813	328026	9.78	237.2
Jul-94	77.88	173	36.88	57726	49967	1883	20776	354590	8.7	287.6
Aug-94	80.99	176.4	62.28	52807	55262	1823	38244	349441	7.9	314.7
Sep-94	80.89	175.9	73.58	59359	58529	1718	6638	352988	8.29	221.8
Oct-94	84.01	191.8	51.16	60319	58249	1811	-22026	357459	8.68	234.9
Nov-94	83.01	194.1	79.33	58447	53455	1811	-10140	358743	8.23	236.9
Dec-94	83.46	193.1	56.97	53773	51217	1838	17400	362421	7.82	258.7
Jan-95	81.56	197.5	60.48	45494	39681	1962	28306	333419	7.65	83.2
Feb-95	81.42	196.7	61.05	49019	43685	2011	3648	322249	8.55	147.3
Mar-95	75.59	193.5	32.03	45644	45261	1966	20973	315723	3.07	229.4
Apr-95	81.44	190.2	38.39	48302	41468	1977	43321	330428	7.81	211.1
May-95	84.41	192	66.09	40997	42430	1890	38518	300337	7.45	170.1
Jun-95	87.85	191	34.66	45889	44614	1927	-18836	268207	9.43	180.2
Jul-95	78.17	183.2	13.33	48551	47129	2011	38960	335175	8.35	206.6
Aug-95	80.59	177.2	53.92	49065	45925	2020	23248	317945	8.92	270.5
Sep-95	82.79	173.6	71.61	51133	50713	1996	15914	314650	9.32	249.9

Table 50. President Steyn Mine. Statistical relationship between Mine Call Factor and various variables, results.

PRES STEYN MINE - MULTIPLE VARIABLE REGRESSION OUTPUT									
Regression Output:									
Constant	Regression Output: 95.073449174								
Std Err of Y Est	4.2074129033								
R Squared	0.6017053634								
No. of Observations	42								
Degrees of Freedom	32								
Degrees of Freedom									
X Coefficient(s)	-0.184222014	-0.018397724	-0.00091	5.66E-05	-0.01575	5.92E-05	0.000233	2.722205	-0.02828
Std Err of Coef.	0.2125933827	0.0451749178	0.001229	0.000191	0.030461	0.000128	0.000198	6.76146	0.012107
Std Err of Coef.	0.4028086932	0.4750007724	0.000296	0.080884	3.792739	0.000246	4.5E-05	5.321988	

SAAIPLAAS MINE

	MINE CALL FACTOR	STOPE GRADE (g/t)
Apr-92	79.48	5.55
May-92	101.02	5.48
Jun-92	90.14	5.75
Jul-92	88.95	5.82
Aug-92	85.48	6.23
Sep-92	81.91	6.22
Oct-92	81.87	6.29
Nov-92	90.94	6.08
Dec-92	88.2	5.5
Jan-93	98.01	5.84
Feb-93	95.1	5.83
Mar-93	85.61	5.81
Apr-93	93.04	5.44
May-93	94.13	5.66
Jun-93	100.15	5.5
Jul-93	91.65	5.85
Aug-93	80.15	6.1
Sep-93	88.99	6.23
Oct-93	86.07	5.92
Nov-93	90.34	5.89
Dec-93	94.29	5.39
Jan-94	95.26	5.61
Feb-94	99.38	5.64
Mar-94	97.22	5.61
Apr-94	95.92	6.17
May-94	103.44	5.89
Jun-94	89.22	6.6
Jul-94	79.12	6.87
Aug-94	90.05	6.89
Sep-94	98.8	6.44
Oct-94	83.03	6.66
Nov-94	99.13	6.16
Dec-94	93.34	6.29
Jan-95	106.64	6.42
Feb-95	91.61	6.69
Mar-95	84.16	7.17
Apr-95	79.8	7.42
May-95	72.41	7.7
Jun-95	73.2	7.33
Jul-95	87.04	6.94
Aug-95	85.33	7.92
Sep-95	77.92	6.94

MINE CALL FACTOR vs STOPE GRADE (g/t)

Regression Output:	
Constant	127.6895
Std Err of Y Est	6.460018
R Squared	0.341113
No. of Observations	42
Degrees of Freedom	40
X Coefficient(s)	-5.99985
Std Err of Coef.	1.318459

Table 51. Saaiplaas Mine. Statistical relationship between Mine Call Factor and stope grade.

SAAIPLAAS MINE

	MINE CALL FACTOR	HOISTED GRADE (g/t)
Apr-92	79.48	3.43
May-92	101.02	4.07
Jun-92	90.14	4.37
Jul-92	88.95	4.55
Aug-92	85.48	4.49
Sep-92	81.91	4.69
Oct-92	81.87	4.64
Nov-92	90.94	4.28
Dec-92	88.2	4.13
Jan-93	98.01	4.03
Feb-93	95.12	3.73
Mar-93	85.61	3.73
Apr-93	93.04	3.83
May-93	94.13	3.64
Jun-93	100.15	3.45
Jul-93	91.65	4.08
Aug-93	89.15	4.22
Sep-93	88.99	4.32
Oct-93	86.07	4.42
Nov-93	90.34	3.75
Dec-93	94.29	3.78
Jan-94	95.23	3.98
Feb-94	99.38	3.69
Mar-94	97.22	3.8
Apr-94	95.92	4.12
May-94	103.44	3.84
Jun-94	89.22	4.62
Jul-94	79.12	5.6
Aug-94	90.05	4.26
Sep-94	98.8	4.37
Oct-94	88.03	4.62
Nov-94	99.15	4
Dec-94	93.34	4.51
Jan-95	106.04	3.94
Feb-95	91.81	4.71
Mar-95	84.16	4.66
Apr-95	79.8	4.98
May-95	72.41	4.82
Jun-95	73.2	4.9
Jul-95	87.04	4.3
Aug-95	85.33	4.68
Sep-95	77.92	5.7

MINE CALL FACTOR vs HOISTED GRADE (g/t)

Regression Output:	
Constant	132.7834
Std Err of Y Est	6.078883
R Squared	0.416567
No. of Observations	42
Degrees of Freedom	40
X Coefficient(s)	-9.99466
Std Err of Coef.	1.870215

Table 52. Saaiplaas Mine. Statistical relationship between Mine Call Factor and hoisted grade.

SAAIPLAAS MINE

	MINE CALL FACTOR	GOLD CALLED FOR STOPES
Apr-92	79.48	1276.06
May-92	101.02	1046.68
Jun-92	90.14	1284.33
Jul-92	88.95	1183.68
Aug-92	85.48	1285.22
Sep-92	81.91	1411.75
Oct-92	81.87	1385.35
Nov-92	90.94	1276.11
Dec-92	88.2	1284.83
Jan-93	98.01	1091.9
Feb-93	95.12	1140.21
Mar-93	85.61	1182.55
Apr-93	93.04	1133.38
May-93	94.13	1172
Jun-93	100.15	1146.27
Jul-93	91.65	1287.33
Aug-93	88.15	1365.12
Sep-93	88.99	1383.67
Oct-93	86.07	1297.02
Nov-93	90.34	1166.31
Dec-93	94.29	1132.07
Jan-94	95.26	1032.35
Feb-94	99.38	971.82
Mar-94	97.22	1027.13
Apr-94	95.92	1008.75
May-94	103.44	1019.86
Jun-94	89.22	1334.56
Jul-94	79.12	1433.69
Aug-94	90.05	1209.36
Sep-94	98.8	1326.24
Oct-94	88.03	1372.78
Nov-94	99.13	1220.88
Dec-94	93.34	1242.85
Jan-95	106.64	929.54
Feb-95	91.61	1247.03
Mar-95	84.16	1255.1
Apr-95	79.8	1280.84
May-95	72.41	1240.36
Jun-95	73.2	1263.52
Jul-95	87.04	1211.28
Aug-95	85.33	1172.02
Sep-95	77.92	1448.33

MINE CALL FACTOR vs GOLD CALLED FOR STOPES (kg)

Regression Output:	
Constant	141.5126
Std Err of Y Est	5.73645
R Squared	0.480447
No. of Observations	42
Degrees of Freedom	40
X Coefficient(s)	-0.04228
Std Err of Coef.	0.006951

Table 53. Saaipiaas Mine. Staistical relationship between Mine Call Factor and gold called for (stopes).

SAAIPLAAS MINE

	MINE CALL FACTOR	TOTAL TONS HOISTED
Apr-92	79.48	389013
May-92	101.02	272479
Jun-92	90.14	310111
Jul-92	88.95	280126
Aug-92	85.48	296941
Sep-92	81.91	307992
Oct-92	81.87	308194
Nov-92	90.94	304266
Dec-92	88.2	320467
Jan-93	98.01	281630
Feb-93	95.12	317005
Mar-93	85.61	327601
Apr-93	93.04	296343
May-93	94.13	328863
Jun-93	100.15	338739
Jul-93	91.85	328305
Aug-93	88.15	329714
Sep-93	88.99	330360
Oct-93	86.07	302106
Nov-93	90.34	318452
Dec-93	94.29	304732
Jan-94	95.26	270956
Feb-94	99.38	267931
Mar-94	97.22	275327
Apr-94	95.92	251735
May-94	103.44	262159
Jun-94	89.22	301455
Jul-94	79.12	267637
Aug-94	90.05	297405
Sep-94	98.8	313352
Oct-94	88.03	310697
Nov-94	89.13	314562
Dec-94	93.34	289677
Jan-95	108.84	250194
Feb-95	91.61	276770
Mar-95	84.16	279473
Apr-95	79.8	261751
May-95	72.41	265705
Jun-95	73.7	265496
Jul-95	87.04	286265
Aug-95	85.33	258909
Sep-95	77.92	261220

MINE CALL FACTOR VS TOTAL TONS HOISTED

Regression Output:

Constant	91.25542
Std Err of Y Est	7.957523
R Squared	0.000231
No. of Observations	42
Degrees of Freedom	40
X Coefficient(s)	-4.2E-06
Std Err of Coef.	4.36E-05

Table 54. Saaiplaas Mine. Statistical relationship between Mine Call Factor and total tons hoisted.

SAAIPLAAS MINE

	MINE CALL FACTOR	ORE HOISTED DISCREP
Apr-92	79.48	95487
May-92	101.02	18030
Jun-92	90.14	18013
Jul-92	88.95	10528
Aug-92	85.48	20474
Sep-92	81.91	15876
Oct-92	81.87	21204
Nov-92	90.94	9555
Dec-92	88.2	7142
Jan-93	98.01	23227
Feb-93	95.12	30879
Mar-93	85.61	28218
Apr-93	93.04	20838
May-93	94.13	52623
Jun-93	100.15	61731
Jul-93	91.85	57945
Aug-93	86.15	41283
Sep-93	88.99	52277
Oct-93	86.07	28346
Nov-93	90.34	52938
Dec-93	94.29	35283
Jan-94	95.28	43748
Feb-94	99.38	38872
Mar-94	97.22	34031
Apr-94	95.92	28247
May-94	103.44	59262
Jun-94	89.22	37408
Jul-94	79.12	4279
Aug-94	90.05	76574
Sep-94	98.8	51339
Oct-94	88.03	43040
Nov-94	99.13	57208
Dec-94	93.34	28237
Jan-95	106.64	55142
Feb-95	91.81	32533
Mar-95	84.16	45174
Apr-95	78.8	29563
May-95	72.41	42926
Jun-95	73.2	27488
Jul-95	87.04	59965
Aug-95	85.33	64575
Sep-95	77.92	46622

MINE CALL FACTOR VS ORE HOISTED DISCREPANCY (I)

Regression Output:	
Constant	85.30206
Std Err of Y Est	7.907922
R Squared	0.012856
No. of Observations	42
Degrees of Freedom	40
X Coefficient(s)	4.48E-05
Std Err of Coef.	6.25E-05

Table 55. Saaiplaas Mine. Statistical relationship between Mine Call Factor and ore hoisted discrepancy.

SAAIPLAAS MINE

	MINE CALL FACTOR	REEF TONS HOISTED
Apr-92	79.48	389013
May-92	101.02	272479
Jun-92	90.14	310111
Jul-92	88.95	280126
Aug-92	85.48	296941
Sep-92	81.91	307992
Oct-92	81.87	308194
Nov-92	90.94	304266
Dec-92	88.2	320467
Jan-93	98.01	281630
Feb-93	95.12	317005
Mar-93	85.81	327601
Apr-93	93.04	299543
May-93	94.13	328863
Jun-93	100.15	338739
Jul-93	91.85	323275
Aug-93	88.15	329155
Sep-93	88.99	325420
Oct-93	88.07	300428
Nov-93	90.34	319452
Dec-93	94.29	303638
Jan-94	95.28	286960
Feb-94	99.38	267931
Mar-94	97.22	275327
Apr-94	95.92	281735
May-94	103.44	282159
Jun-94	89.22	301455
Jul-94	79.12	267637
Aug-94	90.05	297405
Sep-94	98.8	313352
Oct-94	88.03	310697
Nov-94	99.13	314582
Dec-94	93.34	289377
Jan-95	106.84	250194
Feb-95	91.81	276770
Mar-95	84.16	279473
Apr-95	79.8	261751
May-95	72.41	285705
Jun-95	73.2	285496
Jul-95	87.04	286265
Aug-95	85.33	258909
Sep-95	77.92	281220

MINE CALL FACTOR VS REEF TONS HOISTED

Regression Output:

Constant	91.45959
Std Err of Y Est	7.957209
R Squared	0.00031
No. of Observations	42
Degrees of Freedom	40
X Coefficient(s)	-4.9E-06
Std Err of Coef.	4.39E-05

Table 56. Saaiplaas Mine. Statistical relationship between Mine Call Factor and reef tons hoisted.

Author De Jager E J

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