a depth of only 1,600 ft. being used. It was hoped that the Main Reef would be cut within the above distance, but the calculations made showed a far greater depth. Owing to the shallow depth of the outcrop it is certain there has been a local vertical tilt of the strata on that section of the Main Reef which has flattened the surface outcrop, without disturbing the ground to the south. Consequently the Main Reef series had to be sought for in a position agreeing with the general dip of the strata. Generally speaking, the inclination of the strata on the Witwatersrand Range gradually decreases from the Main Reef, proceeding southward, or, to put it approximately in figures, the outcrop of the Main Reef series is 45° to 85°, the outcrop of the Bird Reef series 40° to 45°, the outcrop of the Kimberley series 30° to 35°, and the outcrop of the Ras series 20° to 25°. Taking a section of the strata, south from the Simmer & Jack mine through the bore, the outcrop dips are: Main Reef series 26°, Bird Reef series 40°, Kimberley Reef series 32°, Ras Reef series 30°. The dip of the Main Reef series at general rule, and it may be fairly attributed to a local flattening of the outcrop which extends but a short distance south. According to calculations based on the surface distances between the outcrops on neighboring ground east and west of the local disturbance referred to, and commencing from the line of the bore, the Bird Reef should have been struck at a vertical depth of 280 ft., the Livingston Reef at 1,580 ft., and the Main Reef series at 2,300 ft. These distances agree very well with those actually ascertained. The journal of the bore shows the Bird Reef at 300 ft, the Livingston beds at 1,585 ft, and the south leader of the Main Reef series at 2,343 ft., the present depth of the hole.

The following table gives the formations cut through the figures giving the depth in feet from the surface, the whole making an interesting geological record:

DETAILS OF THE CORE.

	feet.
Surface soil and sandy blue clay	10
Small bowlders in same	18
Friable shale changing to yellow clay, which hardened to rock at	98
A gradually hardening shale, blue in color, and with undecided stratification	125
A three inch quartz seam	138
Flagstone (?) of a greenish blue color with a little lime	150
Blue shale, occasional layers of metamorphosed sandstone, dip of strata 60°	167
A stratum of quartzite 1 ft. wide	193
Blue slate with quartz pebbles	197
Three inch layer quartz	229
Quartzite with few small pebbles, in ermixed with sandstone layers.	252
Sandstone layers	288
Sandstone with some pyrites and hydromicaceous seams	296
Pebble seam, 3 in., in a series of vitreous sandstones and grits, all much metamorphosed	303
Beds of banket matter (?), probably coarse grits	333
Vitreous sandstones and quartzites and commencement of Bird Reef series	337
The Bird Reef series of banket beds, barren, dip 50°	366
Sandstones	367
Pyritic banket reef	368
Average dip of footwall here 50°. A further series of sandstones and seams of banket, with hydromicaceous partings until two reefs each 6 in. thick are encountered at 384 and	385
4 ft. banket bed	389
An 18 in. banket bed	391
A 3 ft. banket bed	405
A series of quartzites with grits terminating in a pyritic quartzite, dip 50°	426
Highly vitrified sandstones and quartzite	437
A series of hard blue quartzites, dip 47°	440
Reef matter giving blank pannings	479
Fine grained sandstones, with few small pebbles, some small grit seams, and having a dip varying between 30° and 40°	50.
A fairly well defined reef, but barren	548 7 in
A series of hard blue quartzites, with some sandstones, frequent seams of grit, or reef matter, a few layers of white quartz and occasional stray pebbles, terminating in 24 in. barren reef at	915
Another series of a similar nature to the last, but with the dip increasing up to 43° again and terminating in a reef, barren, but one foot wide at	1,127
A similar reef at	1 152
Another similar series of quartzites, vitreous standstones and grits.	1,153
Intensely hard gray shale dipping at 45°	1,529
Medium dark gray quartzite	1,580
Very pebbly strata	1,582
Green pyritic shale in seams of quartzite	1,590
A few inches of barren banket in a coarsely pebbled quartzite	1 594
Coarse quartzite	1,598
A 1-in. seam of solid pyrites in quartzite, the dip being 41°	1,605
A 1½-in. of a dark micaceous shale	1,607
A series of quartzites, some coarse and gritty, some schistose	1,614
A pyritic banket bed	1,635
One foot of banket, contains gold, and is said to belong to the Livingstone series	1,637
Dip 27°	1,638
A series of 6 banket seams, nearly all blank	1,612
And terminating in a quartzite at	1,667
Coarse and fine quartzites, with pale colored bands, dipping 23°	1,668
Another series of quartzites of all degrees of fineness, average dip about 22°, terminating at	1,860
3 ft. of an undefined rock, which crumbled away, the core being thus lost probably a hydromicaceous schist	1.860
A series of fine schists with some small seams of very small pebbles	1 878
A continued series of the same, with more frequent thin bands of conglomerate, the dip of the strata being as low as 13°	1 913
Distinct bands of pyrites and pyritic partings	1.973
Pyritic partings	1,977
A further series os schists and quartzites, with some white quartz veins and frequent stringers of conglomerate	1,978
Dark gray shale, with white quartz and pyrites streaks	2,027
Quartzites, and more frequent thin streaks of conglomerate (banket)	2 028
Scattered pebbles	2,040
5 in. white quartz vein	2,047
A further series of quartzites, less schistose, but containing frequent beds of conglomerate	2,048
Mottled quartzites	2,092
Distinct pyrites bands	2,095
A series of pyritous conglomerate seams, with frequent seams of pyrites, and very pebbly strata throughout	2 096
Joints of pyrites	2,163
White quartz 4-in	2.167
1-in. of solid pyrites	2,173
Pyrite crystals scattered throughout the strata	2,204
8 in. of banket, with ¼ in. pebbles; the outside fringe of the Main Reef series	2,277
A series of very pebbly strata of quartzites	2,206
Dip of strata average 15°	2,205

The South Reef was reached at 2,343 ft. and the Main Reef at 2,397 ft. The bottom of the hole was reached at 2,500 ft., when the drill stopped.

As this bore-hole is situated about 1 800 ft. south of the northern boundary of the claim, it is calculated, allowing a 10 per cent. margin of error, that a main shaft sunk at the boundary to work the bed discovered will not be over 1,200 ft. deep before striking the lode at that point. Assays of the main reef at 2,400 ft. are not yet obtainable, but those made of the South Reef show as follows: Top, 3 oz. 8 dwts; center, traces; bottom, 3 dwts 12 grs. per ton. The calculated average is 23 dwts. 12 grs. per ton, which is for the most part free milling.—*Engineering and Mining Journal.*

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	Par of Share.	Buyer.	Seller.
Bank of Nova Scotia	$100	163½	170
Bank of B N America	243.33	245	249
Merchants Bank	100	134	139½
Union Bank	50	119	122
People's Bank	20	113	116
Halifax Bank	20	113	116
Bank of Yarmouth	75	121½	...
Exchange Bank of Yarmouth	70	102½	...
Com. Bank of Windsor	40	106	...
Acadia Fire Insurance Co.	20	127½	135
Halifax Fire Insurance Co.	20	125	130
Eastern Assurance (25% pd.)	100	40	50
N. S. Marine Ins. Co. (37½ pd)	100	...	50
E. C. Sav's & L'n Co., Bonds	100	99	100
" " " Stock (50% pd. up)	100	100	102
N. S. Telephone Co.	10	100	105
Halifax Gas Light Co.	40	93	95
Dom. Coal Co., Bonds	500	...	100
" " " Pref'ed Stock	100	...	100
" " " Com. Stock	100	10	18
N. G. C. I. & R. Co., pref'ed.	100	65	90
" " " common.	100	...	75
N. S. St'l & F'ge Co., pref'ed.	100	...	100
" " " common.	100	...	100
Halifax & Nfld. S. S. Co.	100	50	75
Canada & Nfld. S. S. Co.	100	...	99
Yarmouth S. S. Co.	100	...	70
Coastal Steam Packet Co.	100	...	90
Hx. & Lunenb'g Steam'p Co.	100	...	90
N. S. Sugar Refinery	500	...	
Dom Cotton Co., Bonds	250 / 500 / 1000	100	101
Dom. Cotton Co., Stock	100	113	118
Bras d'Or Lime Co., Bonds	250	..	100
Starr Manufacturing Co.	100	20	30
Rhodes, Curry & Co., Ltd.	50	...	100
St. of Canso Marine Ry. Co.	50	30	50
N. S. Furnishing Co., Ltd.	100	...	100
McDougall Distillery Co.	100	...	99
" " " bonds	500	...	99
Dartmouth Electric Light Co.	...	...	90