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EL 3380 (EL 2548), TUSKA RESOURCES NL

Area

Malmsbury – Taradale (Belltopper Hill)

Target

Hardrock gold at the Leven Star Reef, Hanover Reef, May Queen Reef

Tenement history

EL 3380 (previously EL 2548) was granted to Pittston Mineral Ventures International on 21/12/1990 for a period of two years. A joint venture agreement to include MRC 3110 (covering the Leven Star Reef) was formed with MRC holder A.L. Booth. In October 1993 Consolidated Victorian Mines (CVM) entered into an option to joint venture into MRC 3110 and EL 3380 with A. Booth. Eureka Gold Mines, in an agreement with CVM, entered into the joint venture and became the exploration managers in March 1994. In 1994 approximately 40% of EL 3380 was partially relinquished. At a later date, 8/9/95, A. Booth entered into a joint venture with Tuska Resources NL, who after his passing away became the tenement holders. No work was completed by Tuska. Renewal was refused 1/5/00.

Geology

The geology across the Belltopper Hill area comprises a sequence of Lower Ordovician slates, shales and coarse, massive gritty sandstones that have been tightly folded about steep, N-NW striking axial plains. Steeply dipping, N-NW striking, moderate to strong faulting crosscuts the stratigraphy and hosts auriferous quartz lodes with accessory stibnite and other sulphides. The Palaeozoic sequence is covered by alluvium on the north slopes of Belltopper Hill and by Quaternary basalt to the southwest.

Work carried out:

Literature survey

21/12/90-20/12/91

A brief literature review of previous exploration identified the Leven Star Reef, which was discovered in 1936 but not developed due to metallurgical difficulties with antimony (stibnite) in the ore. Later investigations and drilling by Planet Gold (EL 17) identified a silicified zone up to 8 m wide over a strike length of 245 m. Percussion drilling and channel sampling returned average values of between 6-7.5 g/t Au over 2 m. An exploration shaft was sunk by Centaur Mining NL (ML 9245) to a depth of 231 ft. in 1970-71 with levels opened at 100 and 200 ft and the vertical reef intersected over widths of between 39-45 inches.

20/12/91-20/6/92

A review of historic mining data from the May Queen Reef was completed and highlighted production of 1350 tons yielding 1500 ounces at an average grade of 36.5 g/t Au. The reef was believed to be the southern continuation of the United Kingdom group of mines and occur in the hinge of an anticline.

Acquisition of Data

21/12/93 – 20/12/94

Aerial topographic data was acquired from Qasco Pty Ltd. The survey was flown in 1992 at a height of 1500 m. The scale was 1:10,000.

Mapping

21/12/93-20/12/94

Reconnaissance mapping at 1:1000 scale was completed across the Leven Star Reef (Belltopper Hill) area. The mapping identified the predominant lithology in the area as a fine to medium grained quartzose sandstone with rare bands of coarse sandstone. The majority of the historic workings have focussed on the north-northwest trending quartz reefs (Never Despair, Panama, Crown/Missing Link, Fiery Streak and Hanover Reefs) with little work completed on the Leven Star Reef.

Drilling

21/12/90-20/12/91

A total of seven diamond drill holes (LSDDH7-13; 1195 m) were drilled to test the Leven Star Reef at depth and along strike. Results from the drilling were encouraging with the 'structure' intersected in each hole. Later assay values across the mineralised zones were disappointing except for hole LSDDH9 (see below). Significant results are listed in the table below.

A three hole diamond drilling program (427.2 m) was undertaken to test the northerly strike continuation of the Hanover Reef System, believed to consist of three parallel reefs (east, middle, west). Results are outlined below. Significant results are listed in the table below.

20/12/91-20/6/92

A total of three vertical diamond drill holes (458.5 m) were drilled to test for the northern strike extension of the May Queen Saddle and for repetitions at depth (MQDDH 1 – MQDDH 3). The drilling was successful in intersecting the target hinge areas with (unrecorded) workings intersected in the first two holes and a quartz stringer zone intersected in the third. Unfortunately the gold grades were insufficient (below 0.5 g/t Au) to warrant any further work.

21/12/93-21/12/94

After reviewing the Pittston drill logs Eureka assayed several sections of Pittston's drill core not sampled previously. Results from this second phase of sampling indicated that narrow veins in the vicinity of the Leven Star Reef also have the potential to be gold bearing. The peak result was 4.1 m @ 13.1 g/t Au from 70.4 m in LSDDH 8.

A total of 10 RC drill holes (986.6 m) and two diamond tails (79.1 m) were drilled to follow-up and in-fill earlier drilling results from the Leven Star Shear. The hole numbers were LSRC 7 – LSRC 10, LSRC 12 – LSRC 17. The diamond tails were numbered LSDDH 14 and LSDDH 15 and were appended to RC holes LSRC 16 and LSRC 17. RC samples were collected and logged at every metre, with assay composites at 4 m or less depending on the geology. Samples were sent to ALS for analysis for gold by aqua regia (PM203). Any samples returning results greater than 0.5 g/t Au were split into 1 m intervals and re-assayed. Significant results are listed in the table below. The peak result was 1 m @ 12.1 g/t au from 93 m.

Table: EL 3380 (ex EL 2548) - Drill hole summary.

Hole No	Hole Dip	Hole Azimuth	AMG East (m)	AMG North (m)	From (m)	Significant intersections Cut-offs: 0.5 g/t Au, 0.1% Sb	Total depth (m)	Comments
LSDDH7	60	302	10045	9910	301.0	1 m @ 0.25 g/t Au	333.0	Structure intersected 290-315 m with strong qtz veining & sulphides (py, aspy, sb).
LSDDH8	60	302	263686	5879899	137.5 187.0 60 66.3	0.8 m @ 1.16 g/t Au 1 m @ 0.67 g/t Au 2 m @ 1.81 g/t Au 4.1 m @ 13.1 g/t Au	199.0	Leven Star Reef 135-145 m. Silicified slt between 160-190 m with qtz veins, py, aspy & sb
LSDDH9	50	132	263781	5880245	177.9 186.1	2.1 m @ 1.4 g/t Au 8.6 m @ 5.47 g/t Au	201.0	Reef well mineralised between 170-190 m with py, aspy & (sb)
LSDDH13	50	122	263894	5880420	166.1	1.15 m @ 1.71 g/t Au	247.8	Silicified slt/St with strong mineralisation between 160-180 m
HMDDH2	50	090	263759	5880192	55.4	1 m @ 0.67 g/t Au	70.0	Drilled to intersect the east reef.
HMDDH3	50	270	263740	5880303	135.9	1 m @ 0.79 g/t Au	176.5	Drilled to intersect middle and west reefs
LSRC7	55	306	263876	5880117	18 47 56 81	1 m @ 5.83 g/t Au 6 m @ 8.92 g/t Au (incl. 1 m @ 33.2 g/t Au from 47 m) 1 m @ 4.73 g/t Au 2 m @ 3.01 g/t Au	105	Weathered silicified St Silicified St and vein qtz
LSRC8	55	306	263847	5880069	93 102	1 m @ 12.1 g/t Au 4 m @ 4.07 g/t Au	112	Silicified sandstone with disseminated sulphides
LSRC9	60	306	263775	5880050	26 48	4 m @ 6.67 g/t Au 3 m @ 1 g/t Au	73	Fe stained silicified sandstone
LSRC10	55	306	263748	5880015	24	4 m @ 3.88 g/t Au	112	
LSRC12	50	306	263739	5879934	49	3 m @ 0.99 g/t Au	82	Silicified St with disseminated sulphides
LSRC13	50	306	263715	5879910	81	5 m @ 4.33 g/t Au	118	Silicified St with dissem sulphides (py + aspy), silica-chlorite alteration
LSRC14	50	306	263685	5879898	51 60	7 m @ 5.25 g/t Au 1 m @ 1.22 g/t Au	100	Silicified St with dissem sulphides (py + aspy), silica-chlorite alteration
LSRC15	50	126	263813	5880159	46	1 m @ 8.79 g/t Au	100	Siltstone and St variably

Hole No	Hole Dip	Hole Azimuth	AMG East (m)	AMG North (m)	From (m)	Significant intersections Cut-offs: 0.5 g/t Au, 0.1% Sb	Total depth (m)	Comments
LSRC16/D 14	60	126	263795	5880150	66 62 68.6 88.75 98.2	6 m @ 6.68 g/t Au (incl. 2 m @ 17.13 g/t Au from 67 m) 1.8 m @ 5.94 g/t Au, 1660 ppm As 2.2 m @ 4.53 g/t Au 6.25 m @ 2.66 g/t Au (incl. 0.85 m @ 11.6 g/t Au from 94.15 m) 2.9 m @ 3.49 g/t Au, 1948 ppm As, 0.084 % Sb (incl. 0.55 m @ 12.9 g/t Au from 99.15 m)	(60.8) 101.1	silicified, Fe stained, fractured and qtz veined Pre-collar. Silicified St with narrow quartz veining Ferruginous, silicified St Associated with elevated As (max 0.36%) Open at depth. Narrow zone of massive stibnite (99.15-99.2 m).
LSRC17/D 15	60	126	263796	5880149	49.4 67.05	5.65 m @ 4.48 g/t Au (incl. 1.05 m @ 9.82 g/t Au from 54 m) 6.35 m @ 4.87 g/t Au	(45.1) 84	Pre-collar. Indurated partially silicified St with thin quartz veins Weathered St (minor slate) with narrow quartz veining and brecciation. Includes elevated Sb (max 0.12%).

Note: Drill hole prefix, LS – Leven Star Reef; HM – Hanover Reef; MQ – May Queen Reef. Significant results in *italics* indicate later sampling by Eureka Gold Mines. AMG co-ordinates surveyed by Eureka Gold Mines.

Reason for relinquishment

Tuska Resources went into receivership.

References

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