# REPORT ON THE <br> <br> 1987 DIAMOND DRILLING PROGRAM <br> <br> 1987 DIAMOND DRILLING PROGRAM <br> ON THE <br> HART 1-6 CLAIMS (120 units) (Rec. No. 1319-24, June) <br> ATLIN MINING DIVISION <br> ```Lat. 58 36'N, Long. 132 03'W, NTS 104K/9E``` 

Owners: KERR ADDISON MINES LIMITED
\& NEWMONT MINES LIMITED

## Operator: SKYLARK RESOURCES LTD.

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## INTRODUCTION

The Hart claims are located approximately 145 km southeast of Atlin, B.C. and 120 km west of Dease Lake, B.C. (see figures 1 and 2). The property lies approximately 35 km NNW of the Sheslay air strip and 25 km northeast of the air strip at Muddy Lake. The claim block covers the western slopes of Heart Peaks with elevations ranging from 850 m along the west boundary to 1750 malong the east boundary. The north-south trending Sheslay River valley lies 3 km west of the west boundary of the claim block. Timberline is around the 1150 m elevation with scrub pine and spruce below on the western part of the claims and alpine conditions above and to the east.

Access to the claims was by helicopter. Helicopters used were based at Altin and Dease Lake. During the move in and out, a Smithers, B.C., based DC-3 was used to move the gear and equipment from Dease Lake to the Sheslay strip and back. The balance of the move in and out from the sheslay strip to the property and back was by helicopter.

The Hart 1-6 claims, 20 units each, totalling 120 units were staked in June, 1981, by J.C. Steven on behalf of the Newex Syndicate (Newmont, Lornex and Steven), to cover rock geochemical anomalies in gold and silver found during a 1980 prospecting program. During 1981 and 1982, the programs consisted of geological mapping, prospecting and geochemical reconnaissance surveys. In 1983, Lornex withdrew from the project and Kerr Addison entered into an agreement with Newmont to become operator and earn an interest in the project. The 1983 program by Kerr Addison consisted of detailed grid construction, soil and rock


talus geochemical surveying, VLF EM-16 surveying, prospecting and geological mapping. The 1984 program consisted of the drilling of 8 NQ diamond drill holes totalling 1972.3 m .

The current owners are Kerr Addison Mines Limited and Newmont Mines Limited. Skylark Resources Ltd. has the right to earn an interest in the property, and was the operator of the 1987 program which is the subject of this report.

The Hart claims cover a strong $N 15$ W trending arsenic geochemical anomaly about 2800 m long and up to 700 m wide which is contained within a much larger alteration zone in mainly trachyte and rhyolite of the Pliocene Heart Peaks Formation. Within the arsenic anomaly are smaller erratic anomalies in antimony, gold, and silver. Surface samples have assayed up to $0.9 \mathrm{oz} / \mathrm{t}$ gold and $36 \mathrm{oz} / \mathrm{t}$ silver. The best intersection from the 1984 drilling program was 115 meters of $0.015 \mathrm{oz} / \mathrm{t}$ gold in hole 84-4. The 1984 drill program tested approximately half of the strike length of the anomalous soil zone. Skylark's 1987 program was designed to do some drill testing in the untested northern half of the zone.

The 1987 program consisted of 4 BQ diamond drill holes totalling 256.1 m , all completed on the Hart \#4 claim.

## REVIEM OF PACTS RESULTING IN 1987 PROGRAM

The Heart Peaks property covers an area of very late Tertiary to pleistocene volcanic activity which has resulted in a number of volcanic cones superimposed on each other. There are two very prominent, high cones, the Top and Mogul areas, that stand out on the property. The circular remnants of several
other cones are clearly evident when veiwed from above by airplane or helicopter. The cones and scree around them are spectacularly limonite stained in shades of bright reddish brown and yellowish brown to brown. Within this area lies a strong arsenic geochemical anomaly about 2800 m long and up to 700 m wide which contains smaller and more erratic geochemical anomalies in antimony, gold and silver. Numerous rock float samples and some rock sampling from what seemed to be outcrops returned positive gold and silver values.

In 1984, Kerr Addison Mines Limited undertook a diamond drilling program to test some of these areas of anomalous gold and silver values in rock outcrops. They used a Boyles BB24 A diamond drill. They foand that the first 30 m of their drill holes was extremely difficult to penetrate because af the extremely broken nature of the ground. They also found that their helicopter cost for moving the drill rig was quite high due to the size (weight) of the rig and support equipment. Kerr drilled eight holes along about one-half the length of the zone. This is the higher in elevation and southern portion of the zone along the rim of one of the cones (Top) mentioned above.

Skylark's program was to test by diamond drilling two areas with anomalous gold and silver values in outcrops within the northern and lower portion of the Heart Peaks zone. The two Individual areas were termed the Mogul and End zones by Kerr. Skylark decided to use a relatively light Boyles BBS-1 diamond drill to save on helicopter cost with the hope that the highly broken ground encountered in 1984 drilling would be shallower away from the "Top" cone and near presumed outcrops at a lower
elevation. Such was not the case. Highly broken ground was encountered for 60 m resulting in only one hole being completed out of a four hole program.

## GEOLOGY

The Hart claims cover a group of Pliocene to pleistocene trachyte and lesser rhyolite centers that were explosively errupted through and onto the Lower Jurassic Takwahoni formation (shales, siltstones and sandstones). The extrusives, the Heart Peaks Formation, are mainly trachyte flows with subordinate rhyolite flows, basalt flows and tuffs. Explosion breccias occur within the zone of interest and is the predominant rock type in the upper part of all four holes drilled. Other rock types intersected in the drilling was trachyte, trachyte flow and trachyte breccia.

Gold and silver values are associated with classically banded epithermal quartz veins in silicified and pyritized trachytes and explosion breccias. The surface of the area, as mentioned earlier, is spectacularly limonite stained with bright reddish, yellowish and brownish hues. No sulphide minerals other than pyrite was observed in diamond drill core.

## 1987 PROGRAM

The writer examined the Heart Peaks property on June 24, 1987. During July, 1987, he made a thorough review of all Kerr Addison Mines' data on the project and upon conferring with Kerr's personnel, the drill sites were chosen. Mr. Franco Franchi, geologist, was briefed throroughly July 21-22, 1987,
before going to the property to oversee the work and log the holes. Miss Kelly MacDonald was sent to the project to assiat Franchi in splitting core. Due to the slow progress, she was layed-off and came out of the project on August 12 th.

The project was mobilized out of Smithers, B.C. to the airstrip at Dease Lake, B.C., July 23, 1987. The next leg of mobilization was from the Dease Lake strip to the Sheslay airstrip July 27 th using a DC-3. The 3 day delay was caused by a tire blow-out on the DC-3. The helicopter move-in to the project was completed July 29-30th. Heavy rain and fog delayed the move by one day. The camp was set up by July 30 th and drilling commenced on July 31st.

The drilling program consisted of four $B Q$ (core of 36.5 mm dia.) diamond drill holes totalling 256.1 m . The location, dip, and azimuth are shown on the logs in the appendix and on Figures 3 and 4 which are the plan and cross-sections showing locations, geologic information, assays, etc. The core is neatly stacked near the respective drill sites on the property.

The first hole HP-87-1A was drilled to 36.6 meters from July 31 - Aug.5, 1988. The hole was abandoned due to the breaking off of some equipment in the hole. The drillers attempted to drill through the material but it was taking too long. The drill was turned $4^{\circ}$ and HP-87-1 was started on Aug. 5th. This hole was completed on Aug 15 th at 158.2 m and was drilled to test Kerr's Mogul showing.

The writer went to the project site August 9, 1987, to confer with Franchi on the progress of the project and look at the core.

On August 16 th the drill was moved 430 m . to the southwest to Kerr's End showing and drilling commenced on hole HP-87-2 on Aug. 17th. This hole was abandoned at 36.6 m due to bad ground. It was drilled westerly which is down slope so the drill was turned around and an easterly hole, HP-87-3, was attempted into the hill. This hole was lost at 24.7 m due to bad ground and the program was stopped since the drill was too light to penetrate the very broken layer of material lying above solid bedrock.

Demobilization by helicopter to the Sheslay strip was done Aug. 27 and from the Sheslay strip to Dease Lake by DC-3 on Aug. 28, 1987. The crews returned to Smithers on Aug. 29, 1987.

The day to day supervision and logging were done by Mr. Franco Franchi, geologist, of Ville Lagarina, Italy, who worked under the direct supervision of the writer. Mr. Franchi is well known to the writer since we worked together in 1969 and 1970. Mr. Franchi is currently teaching in Italy and has the summers free. Due to the critical shortage of qualified personnel that occurred last summer, Mr. Franchi was prevailed upon to join Skylark for 2 months to aid in exploration project management. The logs and maps accompanying this report were prepared by the writer. Assaying was done by Acme Analytical Laboratories of 852 E. Hastings Street, Vancouver, B.C.

The diamond drilling was done by Van Alphen Exploration Services Ltd. of Smithers, B.C. using a BBS-1. The contract called for Van Alphen to supply the camp and Skylark to pay for all transportation. Since 3 out of 4 holes were lost and
abandoned, the contract essentially became a cost plus job with costs per meter inordinately high.

## DISCUSSION OF RESULTS

The diamond drilling program was designed to test two previously undrilled showings within the northern portion of the Heart Peaks zone. These are Kerr Addison's Mogul and End showings. Rock geochemical sampling of outcrops on the Mogul showing had returned values up to 5350 PPB gold ( $0.156 \mathrm{oz} / \mathrm{t}$ ) and 25 PPM silver ( $0.73 \mathrm{oz} / \mathrm{t}$ ). On the End showing, hand trenching did not clearly expose bedrock but the material sampled in the trench was thought to be at least broken bedrock that had not moved any distance. Rock geochemical sampling of the End showing trenches returned values up to 5150 PPB gold ( $0.151 \mathrm{oz} / \mathrm{t}$ ) and 100.0 PPM silver ( $2.92 \mathrm{oz} / \mathrm{t}$ ). The location of two zones along with the 1987 drill hole locations are shown on Figure 3 which is enclosed in the back of this report.

The only hole completed, $H P-87-1$, was drilled to test the Mogul showing. The hole intersected mixed explosion breccia and trachyte flows and breccias. The bedrock was extremely broken down to 72 m . The only sulphide mineralization observed was disseminated pyrite. The hole falled to cut similar or improved values to those returned from surface sampling. Very low grade values were intersected from $32.6 \mathrm{~m}-96.0 \mathrm{~m}$ for a $63.4 \mathrm{~m}\left(208^{\prime}\right)$ interval averaging $0.011 \mathrm{oz} / \mathrm{t}$ gold and $0.30 \mathrm{oz} /$ ton silver. There was a dramatic decrease to negligible values below 96 m . Since hole 1 was a repeat of hole 1 A , the latter need not be discussed other than to say that the geology intersected was
similar, and higher values were cut from 34.6-36.6 m (end of hole) more or less matching the beginning of higher values in hole 1.

Holes HP-87-2 and 3 were attempted to test the End showing. Both holes were lost and abandoned due to very bad ground conditions that the small drill could not case through. Hole 2 has some anomalous but low values from 9.6 to 24.6 m . The best values over 3 m intervals were $0.013 \mathrm{oz} / \mathrm{t}$ gold and from 12.6 - 15.6 m and $1.36 \mathrm{oz} / \mathrm{t}$ silver from 15.6 - 18.6 m . Values in hole 3 were negligible. The two holes intersected explosion breccia and trachyte flow.

The logs and complete assay data are included in the appendix of this report. Cross sections of the holes are shown on Figure 4 enclosed in the back of this report.

## CONCLUSIONS

The results over 63.4 m in hole HP -87-1 are comparable to the best drill intersection obtained from Kerr's 1984 program in hole 84-4 where $25-140 \mathrm{~m}(115 \mathrm{~m})$ averaged $0.015 \mathrm{oz} / \mathrm{t}$ gold. 844 was drilled on Kerr's Quartz Hill showing about 700 m south of the End showing. Two 1984 holes were drilled between the End and Quartz Hill showing, on the Steep showing, without success.

The values in 84-4 and 87-1 are low, but very anomalous. The drilling to date is very widely spaced. There is a very ample area within the Heart Peaks zone to find a substantial tonnage of ore. It is the writer's opinion that the Heart Peaks zone constitutes a good target area for the discovery of economic large low grade gold-silver deposits and/or smaller high grade
deposits since surface float samples up to $0.9 \mathrm{oz} / \mathrm{t}$ gold have been obtained from past work.

There seems to be good reason to assume that the first few 10's of meters of surface material in the area of the 1987 drill holes is ejecta, especially in the area of holes HP-87-2 and 3. Therefore, surface geochemical values may not accurately indicate potential drill targets.

The writer believes that a large amount of work is warranted on the Heart Peaks property, but because of the expensive logistics, the size of program to be cost effective, vis a vis all transportation costs, is beyond the scope of Skylark Resources Ltd.'s budget at this time.


## STATEMENT OF COSTS

## Labor:

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Franco Franchi: Project Manager-Geologist
July 23-Aug.29, 1987; 38 days @ $135.00/day $ 5,130.00
Kelly MacDonald: Helper; July 23-Aug.12, 1987;
21 days @ $100.00/day
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\$ 5,130.00

2,100.00
$\$ 7,230.00$

## Board with Contractor:

Franchi and MacDonald: July 24-Aug.12, 1987;
40 man days @ $\$ 50.00 /$ day $\$ 2,000.00$
Franchi: Aug.13-28, 1987; 16 man days @ \$50.00/day
$\frac{800.00}{\$ 2,800.00}$

## Diamond Drilling:

Due to 3 lost holes out of 4, refer to text, the drill contract essentially became a cost plus contract; billings were based on labor and equipment time charges (field cost), materials used or lost, and footages drilled at $\$ 25.00 / f t$. (\$82.02/meter).

Van Alphen Exploration Services Ltd. billing:
Drilling $256.1 \mathrm{~m} \mathrm{X} \$ 82.02 / \mathrm{m} \quad \$ 21,005.32$
All other drilling expenses billed $\quad 39,088.88$ less board bill above. $\quad \mathbf{\$ 6 0 , 0 9 4 . 2 0}$

Assaying - Acme Analytical Labs. Ltd.:
68 samples; ICP for 30 elements - $\$ 6.00 /$ sample; Geochem. Au - \$4.25/sample; Sample Preparation $\$ 3.00 /$ sample:

68 samples @ $\$ 13.25 /$ sample $\$ 901.00$

## Transportation:

Central Mountain Air Ltd; Charges for DC-3:
July 27, 1987; 1055 miles @ $\$ 4.50 / \mathrm{mile}$;
Fuel - 915 gal. @ $\$ 3.60 / \mathrm{gal}$. $\$ 8,041.50$
Aug. 29, 1987; 770 miles @ $\$ 4.50 / \mathrm{mile} ;$
Fuel - 1500 liters @ $\$ 0.82 /$. $; 180$ gal. @ $\$ 3.00 / \mathrm{gal}$.

5,235.00
\$13,276.50

Frontier Helicopters Ltd.:
Flights July 24, Aug. 6 and 9, 1987; Dease Lake to Heart Peaks; 5.7 hours @ $\$ 490.00 / \mathrm{hr}$. plus fuel
\$ 3,201.96
Yukon Airways Ltd. (Helicopter Service):
July 28-30; Aug. 2, 12, 14, 17, 18, 20, 23, 25, 27-28, 1987; Sheslay strip to Heart Peaks and vice versa (mob. and demob.), drill moves, supplies in during program; 74.5 hours @ $\$ 550.00 / \mathrm{hr}$. plus fuel \$43,327.51

Flywest Air Ltd. (Fixed Wing Service):
July 25, 29-30; Aug.20, 23-25, 29-30, 1987. Supplying project; mob. and demob.; Dease Lake to Sheslay strip and vice versa; 14 trips; 1990 miles @ $\$ 1.70 / \mathrm{mile}$
\$ 3, 383.00
$\$ 63,188.97$


## STATEMENT OF QUALIFICATIONS

I, Henry Herbert Shear, of the City of Vancouver, British Columbia, hereby certify:

1. I am a Mining Exploration Geologist, with offices at 902 - 837 West Hastings Street, Vancouver, British Columbia.
2. I am a graduate of the University of Arizona with a B.S. degree in Geological Engineering (1959) and a B.S. degree in Mining Engineering (1960).
3. I am a member of the Canadian Institute of Mining and Metallurgy, and a member of the Association of Professional Engineers of British Columbia.
4. I have practised my profession as a Mining Exploration Geologist for 28 years, working up to the positions of Project Manager, Senior Geologist and Consultant.
5. The daily management and logging on the Heart Peaks Project was done by Mr. Franco Franchi under my direct supervision. This report, the logs and maps were completed by me. Including the mobilization and demobilization from Smithers, B.C. and back, the program lasted from July 23 to August 29, 1987. The drilling was completed from July list to August 26 th.
6. Mr. Franchi is a graduate in Geological Sciences from the University of Modena, Italy, and is an Italian citizen. His more than satisfactory qualifications to look after this project are well known to me. Mr. Franchi was project manager of Lexington Mines' City of Paris-Lexington exploration project near Greenwood, B.C., from 1969-1971. I was the consultant on this project from 1969-1970. Prior to this assignment, Franchi was employed as a consulting geologist by the well known consulting firm of Dolmage, Campbell. After his job with Lexington, Mr. Franchi was hired by Cominco and returned to his native Italy as an exploration manager working out of Rome on their European programs.

Dated at Vancouver in the Province of Brit eff ESSURBG, this 22nd day of February, 1988.
H. $\mathrm{H}^{8}$

Mining










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|  |  | PPM | P9F | PPM | PFH | PPF | PPM | YPM | PFFh | \% | PPM | PPM | PFM | PPM | FPM | HP\% | PPM | PPin | PFM | 2 | 2 | PPK | PFin | 2 | HPH | 2 | PFM | 2 | 2 | 2 | HFM | PP\% |
|  | k-8424 | 2 | 36 | 18 | 16 | 3.6 | 1 | 1 | 14 | 2.65 | 870 | 5 | N0 | 20 | 28 | 1 | 23 | 2 | 1 | . 01 | . 011 | 103 | 1 | . 01 | 37 | . 01 | 2 | . 29 | . 03 | . 40 | 2 | 305 |
|  | H-8825 | 3 | 10 | 22 | 7 | 1.6 | 1 | 1 | 11 | 1.34 | 349 | 5 | ND | 21 | 42 | 1 | 15 | 2 | 1 | . 01 | . 015 | 133 | , | . 01 | 46 | . 01 | 5 | . 36. | . 03 | . 30 | 1 | 15 |
|  | R-8626 | 2 | 12 | 19 | 15 | 6.0 | 1 | 1 | 15 | 1.88 | 1942 | 5 | N0 | 19 | 34 | 1 | 35 | 2 | 1 | . 01 | . 013 | 105 | 1 | . 01 | 36 | . 01 | 12 | . 27 | . 02 | . 34 | 1 | 295 |
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|  | 4-8828 | 2 | 19 | 16 | 33 | 5.8 | 1 | 1 | 32 | 1.98 | 2445 | 5 | N0 | 16 | 9 | 1 | 86 | 2 | 1 | . 01 | . 009 | 99 | 1 | . 01 | 9 | . 01 | 4 | . 17 | . 02 | . 22 | 1 | 285 |
|  | R-8829 | 4 | 13 | 16 | 43 | 0.9 | 1 | 1 | 24 | 2.23 | 3140 | 5 | NO | 19 | 9 | 1 | 126 | 2 | 1 | . 01 | . 009 | 101 | 1 | . 01 | 13 | . 01 | 2 | . 16 | . 02 | . 25 | 1 | 415 |
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| 1 | K-6838 | 4 | 34 | 25 | 36 | 2.8 | 1 | 1 | 16 | 1.23 | 1425 | 5 | ND | 26 | 1 | 1 | 51 | 2 | 1 | . 01 | . 010 | 103 | 1 | . 01 | 19 | . 01 | 2 | . 40 | . 01 | . 28 | 2 | 91 |
| $r$ | 8-8839 | 3 | 8 | 35 | 54 | . 9 | 1 | 1 | 24 | . 82 | 245 | 5 | No | 23 | 6 | 1 | 16 | 2 | 1 | . 01 | . Out | 14 | 1 | . 01 | 8 | . 01 | 3 | . 37 | . 01 | . 33 | 1 | 11 |
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|  | K-8845 | 1 | 11 | 40 | 111 | . 6 | 3 | 2 | 819 | 1.42 | 22 | 5 | nu | 33 | 35 | 1 | 18 | 2 | 2 | . 10 | . 004 | 59 | 3 | . 04 | 31 | . 01 | 1 | . 40 | . 01 | . 31 | 1 | 1 |
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|  | R-8851 | 1 | 10 | 36 | 194 | . 4 | 1 | 2 | 313 | 1.10 | 319 | 5 | MD | 32 | 15 | 1 | 38 | 2 | 2 | . 05 | . 006 | 50 | 1 | . 04 | 9 | . 01 | 13 | . 42 | . 01 | . 25 | 1 | 1 |
|  | R-8852 | 1 | ? | 34 | 114 | . 5 | 5 | 3 | 97 | . 92 | 688 | 5 | ND | 28 | 30 | 1 | 56 | 2 | 2 | . 04 | . 008 | 54 | 1 | . 03 | 22 | . 01 | 1 | . 19 | . 01 | . 26 | 1 | 2 |
|  | R-8853 | 1 | 8 | 36 | 223 | . 4 | 4 | 2 | 295 | 1.33 | 340 | 5 | NO | 28 | 24 | 1 | 37 | 2 | 2 | . 01 | . 008 | 61 | 3 | . 04 | 22 | . 01 | 1 | . 44 | . 01 | . 26 | 1 | 1 |
|  | R-8854 | 1 | 7 | 36 | 195 | . 1 | 3 | 2 | 891 | 2.22 | 34 | 5 | N0 | 34 | 37 | 1 | $\theta$ | 2 | 2 | . 10 | . 011 | 14 | 1 | . 06 | 29 | . 01 | 11 | . 46 | . 01 | . 25 | 1 | 1 |
|  | R-8055 | 1 | 8 | 45 | 172 | . 6 | 3 | 2 | 855 | 2.26 | 35 | 5 | No | 32 | 105 | 1 | $\theta$ | 2 | 4 | . 07 | . 018 | 12 | 1 | . 05 | 91 | . 01 | 3 | . 40 | . 01 | . 14 | 2 | 2 |
|  | R-8856 | 1 | 9 | 37 | 113 | . 5 | 1 | 3 | 1150 | 3.04 | 53 | 5 | N0 | 30 | 186 | 1 | $\theta$ | 2 | 5 | . 06 | . 026 | 70 | 1 | . 05 | 115 | . 01 | 11 | . 19 | . 01 | .10 | 2 | 1 |
|  | R-8857 | 3 | 8 | 32 | 182 | . 6 | 6 | 3 | 292 | 1.04 | 65 | 5 | NO | 27 | 154 | 1 | 11 | 2 | 1 | . 03 | . 023 | 60 | 2 | . 02 | 172 | . 01 | 3 | . 63 | . 01 | . 07 | 1 | 1 |
| $r$ | k-8859 | 3 | 20 | 15 | 10 | 25.5 | 2 | 1 | 26 | 1.99 | 1830 | 5 | ND | 9 | 158 | 1 | 54 | 2 | 5 | . 01 | . 028 | 41 | 3 | . 03 | 154 | . 01 | 9 | . 34 | . 01 | . 37 | 1 | 185 |




