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NEW ARCADIA EXPLORATIONS LIMITED SCADDING AND STREET TWP. PROPERTIES

by
Paul C. McLean M.A.Sc.
Consulting Geologist

January 15, 1984.



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NEW ARCADIA EXPLORATIONS LIMITED SCADDING TOWNSHIP PROPERTY

Introduction:

under the terms of an agreement dated January 24, 1983, the company carried out 2,287 feet of diamond drilling in 7 holes, in order to complete the required assessment work on the claims. An interesting shear zone was discovered, and an additional 1,999 feet of drilling was completed for the purpose of exploring this structure.

The attitude of this zone was defined, and it has now been traced on strike for a distance of 350 feet. Of the 5 holes that intersected the zone, 4 returned low gold values. The 5th hole (A-13) returned a value of .18 oz per ton gold over 1.2 feet. This intersection is considered to be quite significant as it was obtained in the most southerly hole drilled, and obviously has enhanced the possibility of finding ore shoots within the structure.

Geological mapping was completed on 10 claims on the east side of the property as this had not previously been done. A grab sample taken from an outcrop of gabbro returned just under 1% combined copper and nickel, with low platinum and palladium values. Some magnetometer surveying was done in order to check the area near the outcrop. Magnetic readings at this location were quite local, however an interesting magnetic anomaly was found some 300 feet to the north. this anomaly

extends for some 1,400 feet in a northwest direction, and occurs at or near the contact of the gabbro with sediments.

A new drilling programme has been recommended to further explore the gold bearing shear and fault zone, and also to investigate the magnetic anomaly for copper and nickel values, and possibly for gold.

Location and Means of Access:

The property consists of a group of 26 unpatent contiguous claims located in the south central part of Scadding Township, Sudbury Mining Division, Ontario. The group, which comprises approximately 1,040 acres is situated in lots 4,5 and 6 in concession I and in lot 4 concession II.

R. Sansone of Toronto is the recorded holder with a 3% interest in the claims. D.R. Watt, also of Toronto retains a 1% interest, while P.C.

McLean of North Bay has a % interest. The remaining 50% interest has been earned by New Arcadia Explorations Limited.

The property is situated south of and adjacent to the Westfield Minerals property (formerly Northgate Exploration), which is scheduled to commence gold production this month.

The claims are readily accessible via a good secondary road which bisects the property some 7 miles north of highway 17.

The property consists of the following claims:

| Claim Nos. | Recording Date | Apply for extension before |
|------------------------|----------------|----------------------------|
| s-478929 | June 6, 1978 | June 6, 1984 |
| S-478942-60 inclusive | June 6, 1978 | June 6, 1984 |
| S-507602-605 inclusive | April 26, 1979 | April 26, 1985 |
| s-507569-570 | April 26, 1979 | April 26, 1985 |

Because the assessment work has been completed, the claims may be extended annually for five years beyond the above dates, before being brought to lease.

History of the Area:

Numerous gold showings have been discovered in the area over the past century. Limited gold production was obtained from the crystal Mine which is located some 12 miles north of the property.

During the 19/3 field season, gold was discovered on the claims adjacent to what is now the New Arcadia Explorations Limited, et al property by Gulf Minerals Canada Limited. Under the direction of the Author, a small ore shoot was defined by drilling. As the tonnage was considered to be too small for Gulf to proceed, the property was optioned to the Writer, who interested the Watt, Sansone, et al group. Drilling undertaken by this group discovered a new northwesterly trending zone along which several additional ore shoots were defined. The property was then sold to Northgate Exploration Limited for 1.5 million dollars worth of Northgate stock plus a 1 million dollar work commitment and a 30% net profit interest. Northgate subsequently transferred the property to its subsidiary, Westfield Minerals Limited, who have recently erected a 200 ton per day mill which is situated one mile north of the New Arcadia property. Production is scheduled to commence in January 1984.

History of the Property:

The property was staked for Mr. R. Sansone during 19/8 and 19/9 following the discovery of the northwest zone on the adjacent property by the Watt group. Airborne magnetic, electro-magnetic and radiometric surveys were carried out over the claims and no significant anomalies were indicated. Geological mapping was carried out over the western 16 claims during 1981. Some soil sampling for gold was also carried out during this period, and one anomalous value was obtained in the vicinity of the recent diamond drilling.

of the recent diamond drilling. Sections not drawn because of the pattern see map.

Diamond Drilling: the chill pattern. Lee map.

During 1983, a total of 3,884 feet of diamond drilling was completed in 13 holes by New Arcadia Explorations Limited. A shear and fault zone striking N25°W and dipping nearly vertical has been traced for a distance of 3,0 feet by 5 drill holes. This zone is still open to the northwest routheast, and to depth. The most southerly hole, and the last hole to be drilled, returned a significant gold intersection of .18 oz per ton over 1.2 feet within the zone. This intersection was obtained in well mineralized vein quartz and chlorite, and a speck of visible gold was noted. The mineralization was mainly arsenopyrite, with galena and sphalerite also

present. In addition, low gold values associated with arsenopyrite were present in both walls of the zone.

While the intersection is narrow, it has shown that economic sold values are possible within the zone, and that there is a sood chance of finding ore shoots within this structure.

Geological Mapping:

A total of 19 miles of picket line was cut at 200 foot intervals on the east side of the property and this area was subsequently mapped. Sulphide mineralization was noted at two locations within the gabbro intrusive, and a grab sample from one area returned ./0% copper, .17% nickel, .006 oz plat num and .019 oz palladium.

Magnetometer Survey:

A limited amount of magnetometer surveying was completed in order to test the area near the sulphide showing. This area appears to be local in extent; however, a northwesterly trending anomaly was indicated some 1:00 feet to the south.

A more interesting magnetic anomaly was discovered some 300 feet to the north of the showing. This feature also trends northwest and appears to be located at or near the contact of the gabbro and sheared sediments. It is thought that this contact lies along a northwest trending fault.

Although the anomaly lies some 2,000 feet southeast of the gold bearing shear zone, there is a possibility that may represent the same structure as it is almost on strike with this zone.

At the extreme southeast end of the anomaly, a mineralized outcrop of gabbro was observed to contain chalcopyrite and pyrrhotite. At this point the anomaly appears to be caused by the pyrrhotite which is magnetic.

Conclusions:

The discovery of significant gold values within the northwest trending shear and fault zone is very gratifying because this structure

was drilled in the hope that such values might be obtained. While the intersection in hole A-13 was narrow, the zone is up to 5 feet wide in some of the other holes, indicating that greater widths are probable. The zone is quite persistent along strike and may be expected to continue for some distance in both directions.

It is felt that the chance of finding ore shoots within the fault zone have been greatly improved; particularly to the southeast of hole A-13, where no drilling has yet been undertaken.

The magnetic anomaly is of considerable interest because it appears to be situated at the contact of gabbro and sheared sediments and likely coincides with a northwest trending fault. The exact cause of the anomaly is not certain, as it may be caused in part by sulphides (pyrrhotite), or in part by a magnetite bearing dyke. The presence of copper-nickel values in the gabbro nearby suggests that this anomaly should be investigated by several drill holes. If the structure lies along a northwest trending fault, the possibility of gold values associated with a fault should also be investigated.

The weaker magnetic anomaly located to the south of the showing is thought to be caused by sulphides in the gabbro. This structure is parallel to the main anomaly, and should be tested by one drill hole.

In the event that additional drilling is successful in outlining ore shoots on the property, it would be advantageous to approach Westfield Minerals who will be operating a mill close to the property.

Recommendations:

The main magnetic anomaly should be tested by at least 3 drill holes. The first hole should be drilled north from the centre of the anomaly, and the additional holes should be drilled to the southeast and to the northwest of the first hole. One hole should also be drilled to test the weaker anomaly to the south of the main structure.

Drilling should also be continued on the gold bearing shear and fault zone. Holes should be spaced at 50 foot intervals to the southeast of hole A-13, and at 100 foot intervals to the northwest of hole A-12, which is the farthest northwest hole.

A minimum of 5,000 feet of drilling will be required to test

the anomalies and to further explore the northwest shear and fault zone.

Costs:

Based on recent experience, the cost of the recommended programme will be approximately as follows:

| 5,000 feet of A core drilling @ \$16.00 per foot | 80,000.00 |
|--|-------------|
| Engineering and assaying 25% | 20,000.00 |
| | 100,000.00 |
| OMEP grant applied for | 25,000.00 |
| total cost of the recommended programme | \$75,000.00 |

Respectfully submitted,

Faul C. McLean M.A.Sc.

Coul - Mi fo -

Consulting Geologist.

Maps:

A coloured plan of geology west sheet showing the location and geology of the drill holes and also the magnetic anomalies, on a scale of 1 inch to 100 feet is included with this report.

CERTIFICATE

I Paul C. McLean of the City of North Bay, in the District of Nipissinb, do hereby certify as follows:

- I am a Consulting Mining Geologist, residing in the City of North Bay, Ontario, Canada.
- 2. I am a graduate of the University of Toronto, Faculty of Applied Science and Engineering, in the course of Mining Geology, 1950. I hold the degrees of B.A.Sc. and M.A.Sc. in Mining Geology.
- 3. I hold a % interest in the Scadding Township claims.
- 4. The accompanying report is based on the author's personal knowledge of the area and of the property.

Dated at North Bay, Ontario. this 15th day of January, 1984.

Paul C. McLean M.A.Sc. Consulting Geologist.

out Mit



P.O. BOX 10, SWASTIKA, ONTARIO POK 1TO

HELEPHONE (705) 642-3244

ANALYTICAL CHEMISTS • ASSAYURS • CONSULTANTS

Certificate of Analysis

| Certificate | No: | | 56893 | | | Date: | December 23, 1983 |
|-------------|------|-----|-----------|--------------|--------------|---------|-------------------|
| Received_ | Dec. | 19, | 1983 | 4 | _ Samples of | .) | Split Core |
| Submitted | by | Nev | v Arcadia | Exploration, | North Bay, | Ontario | |
| | | | | c/o Mr. P. | C. McLean | | |

| SAMPLE NO. | GOLD Oz./ton | SILVER Oz./ton |
|------------|----------------------|-------------------|
| 35672 | 0.002 | |
| 35673 | 0.16 0.18 0.15 | 0.03 |
| 35674 | 0.005 | |
| 35675 | 0.002 | |

For

G. Tebel - Manager

Carter long



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Certificate of Analysis

| Certificate No. | 56801 | | Date: Dec. | 13, 1983 |
|-----------------------|--------------------|-----------------|------------|----------|
| Received Dec. 6, 1983 | 1 | Samples of | Split Core | |
| Submitted by New Arc | cadia Exploration, | North Bay, Onta | nrio | |

SAMPLE NO.

COLD

Oz./ton

35671

0.002

Pos

G. Jahel - Manager

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Oertificate of Analysis

| Certificate | No | 56547-1 | aganantera e tipo (p. e. e. propular de discolarista (d. 149-140). p. e | | Date: | November 29 1983 |
|-------------|------|-------------|---|----------------|-------|------------------------|
| Received | Nov. | 4/83 | 1 | Sample of | Dre | |
| Submitted | by | New Arcadia | Exploration Lt | d., North Bay, | Ontor | io c/o Mr. P.C. McLean |

SAMPLE NO.

PLATINUM

PALLADIUM

Dz./Lon

0z./ton

35656

0.006

0.019

Per

G. Lebel -- Manager

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Certificate of Analysis

| Certificate No. 56625 | Date: November 21, 1983 | _ |
|---|---|---|
| Received November 10, 1983 14 | Samples of Split Core/Ore | |
| Submitted by New Arcadia Exploration L: | imited, c/o P.C. McLean, North Bay, Ontario | |

| SAMPLE NO. | COLD |
|------------|---------------|
| | Oz./ton |
| 35657 | Nil |
| 35658 | Nil |
| 35659 | 0.005 |
| 35660 | 0.01 u.005 |
| 35661 | 0.005 |
| 35662 | 0.002 |
| 35663 | Nil |
| 35664 | Nil |
| 35665 | Nil |
| 35666 | Nil |
| 35667 | Nil |
| 35668 | Nil |
| 35669 | Nil 0.002 |
| 35670 | Nil |

Per

G. Ichel - Mana

W Landing



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Certificate of Analysis

| Certificate No | 56547 | | | Date: | November | 15, 1983 | |
|----------------|----------------|-----------|----------------|--|----------|----------|---|
| Received Novem | ber 4, 1983 | 9 | Samples of | halo - principalisee (m on . 10 man splanskala | 0re | | · |
| Submitted by | New Arcadia Ex | ploration | Limited, North | Bay, Onta | rio | | |
| | c/o P.C. | McLenn | | | | | |

| SAMPLE NO. | GOLD Oz./ton | COPPER % | NICKEL % |
|------------|-----------------|-------------|-------------|
| 35648 | Nil | | |
| 35649 | Nil | | |
| 35650 | Nil | | |
| 35651 | Nil | | |
| 35652 | Nil | | |
| 35653 | Nil | | |
| 35654 | 0.005 0.005 | | |
| 35655 | Nil | | |
| 35656 | 0.002 | 0.70 | 0.17 |



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Certificate of Analysis

| Certificate No. | 56317 | a navyanin munipundanga di kalimpir (kina pi 1 ma dan gan nasisi da dalami dalam | | Date: | October 24, 1983 | |
|-----------------|---------------|--|---------------|-------------|------------------|--|
| Received Octo | ber 17, 1983 | 9 | Samples of | | Ore/Split Core | |
| Submitted by | New Areadia I | xploration, c/e | o P.C. Metie: | in, North B | ay, Ontario | |

| SAMPLE NO. | GOLD Oz./ton | SILVER On./ton |
|------------|-----------------|-------------------|
| 75639 | 0.002 | 0.02 |
| 35640 | Ni 1 | |
| 35641 | Nil | |
| 35642 | 0.002 0.002 | ··· |
| 35643 | 0.002 | Nil |
| 35644 | Nil | |
| 35645 | Ni 1 | |
| 35646 | 0.002 | |
| 35647 | 0.005 0.01 | ** |



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Certificate of Analysis

| Certificate No. 547 | 93 | Da | ite: <u>March 30 19</u> | 983 |
|-----------------------------|------------------------|-----------------|-------------------------|--------|
| Received Mar. 28/83 | | mples ofs | split core | |
| Submitted by <u>Arcadia</u> | Explorations Ltd., c/o | Mr. P.C. Mcl | ean, North Bay, On | ntario |
| | | | | |
| | | | | |
| | SAMPLE NO. | GOLD Oz./ton | SILVER Oz./ton | |
| | 19588 | Nil | | |
| | 19589 | Nil | | |
| | 19590 | 0.005 | | |
| | 19591 | 0.005 | Ni l | |
| | 19592 | Nil | | |
| | 19593 | Nil | | |
| | 19594 | 0.002 | | |

Per

G. Lebel - Manager

Continued Annual Annual



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Certificate of Analysis

| Certificate No. 54708 | | | Date: Marc | ch 23 1983 |
|-----------------------------------|-------|--------------|-----------------|--------------|
| Received Mar.21/83 | 11 | Samples of | split core | |
| Submitted by Arcadia Explorations | Ltd., | c/o Mr. P.C. | McLean, North I | 3ay, Ontario |

| SAMPLE NO. | GOLĐ |
|------------|----------------|
| | Oz./ton |
| 19577 | Nil |
| 19578 | NII |
| 19579 | Nil |
| 19580 | NII |
| 19581 | 0.02 0.02 |
| 19582 | Nil |
| 19583 | Nil |
| 19584 | 0.002 0.002 |
| 19585 | Nil |
| 19586 | Nil |
| 19587 | Nil |

Per

G. Lebel - Manager

Control livery



19567

1956B

0.002

Nil

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Certificate of Analysis

| Certificate No. | 54669 | Date:! | larch 16 1983 | |
|--------------------|--------------------------|------------------------|-----------------|--|
| Received Mar. 14/8 | 33 27 | Samples of split core | > | in a C C shift is used beginned to take the State Indicates also |
| Submitted by Arc | endin Explorations Ltd., | ç∕o Mr. P.C. MeLean, j | North Bay, Or | ntorio |
| SAMPLE NO. | GOLD Oz./ton | SAMPLE NO. | GOLD Oz./ton | SILVER Oz./ton |
| 19550 | 0.002 | 19569 | Ni 1 | |
| 19551 | 0.002 | 19570 | Nil | Nil |
| 19552 | 0.002 0.002 | 19571 | 0.002 0.002 | Nil |
| 19553 | Nil | 19572 | Nil | Nil |
| 19554 | Nil | 19573 | Nil | Nil |
| 19555 | Nil | 19574 | 0.002 | Trace |
| 19556 | Ni I | 19575 | Nil | Ni l |
| 19557 | Nil | 19576 | Nil | |
| 19558 | Nil | | | |
| 19559 | Nil | | | |
| 19560 | Nil | | | |
| 19561 | Nil | | | |
| 19562 | Nil | | | |
| 19563 | Nil | | | • |
| 19564 | Nil | | | |
| 19565 | Nil | | | |
| 19566 | Nil | | | |

Per

G. Lebel - Manager



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Certificate of Analysis

| Certificate No. | 54649-A | au aman'n' y gant nu tao dondres. Il y ar 'n de desau d | | Date: March 16 1983 |
|-----------------|-------------------|---|----------------|---------------------------|
| Received Mar. | 7/83 | | Sample of | Split core |
| Submitted by | , Arcadia Explora | tion Ltd., | c/o Mr. P.C. M | etean, North Bay, Onterio |

SAMPLE NO.

GOLD.

0z./ton

19549

0.007

 ${\tt NOII}:$ The above sample was assayed using the Pulp & Metallic method.

Per.

G. Lebel - Manager

(V) 60.00



19532

19533

19534

19535

19536

19537

19538

Nil

Nil

0.005

0.005 0.005

Nil

Nil

Nil

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Certificate of Analysis

| Certificate No5 | 4649 | Date: | March 10 1983 | |
|-------------------|-------------------|-----------------------------|----------------|-----|
| Received Mar.7/83 | | Samples of split con | re | |
| Submitted by Area | dia Exploration L | imited, c/o P.C. McLean, No | orth Bay, Onta | rio |
| | | | | |
| | | | | |
| SAMPLE NO. | GOLD | SAMPLE NO. | GOLD | |
| | Oz./ton | | Oz./ton | |
| 19523 | Nil | 19539 | Nil | |
| 19524 | 0.002 | 19540 | Nil | |
| 19525 | Nil | 19541 | Nil | • |
| 19526 | Nil | 19542 | Nil | |
| 19527 | 0.002 | | Nil | |
| | Ni1 | 19543 | Ni1 | |
| 19528 | Ni l | 19544 | 0.002 | |
| 19529 | Ni l | 19545 | 0.002 | |
| 19530 | Nil | 19546 | 0.002 | |
| 19531 | Nil | 19547 | Nil | |

Per .

19548

19549

G. Lebel - Manager

0.002

0.005

0.01



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Certificate of Analysis

| Certificate No. | 54623 | | - | Date: | March 3 19 | 983 | processor desirable frança y de |
|-----------------|------------------|------------------|-------------------|-------------|------------|---------|---------------------------------|
| Received Mar | . 1/83 | 23 | Samples of | split co | ore | | |
| Submitted by _ | Arcadia Explorat | ions_Ltd | c/o Mr. 1'.C. | McLean, | North Bay. | Ontario | |
| | | | | | Page | 1 of 2 | |
| | | | 511155 | 000000 | | | |
| | SAMPLE NO. | GOLD Oz./ton | SILVER Oz./ton | COPPER % | | | |
| | 11300 | 0.002 | | | | | |
| | 19501 | Nil | Nil | • | | | |
| | 19502 | 0.002 | | | | | |
| | 19503 | 0.002 | | | | | |
| | 19504 | 0.002 | Nil | | | | |
| | 19505 | 0.005 0.002 | | | | | |
| | 19506 | Nil | | | | | |
| | 19507 | Nil | | | | | |
| | 19508 | Nil | | | | | |
| | 19509 | Nil | | | , | | |
| | 19510 | 0.002 | | | | | |
| | 19511 | Nil | | | | | |
| | 19512 | Nil | Nil | 0.01 | | | |
| | 19513 | Nil | | 0.005 | | | |
| | 19514 | 0.002 | | | | | |
| | 19515 | $0.002 \\ 0.002$ | Nil | | | | |
| | 19516 | Nil | Nil | | | | |
| | | | | | | | |

Cont'd.....

G. Lebel - Manager





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Certificate of Analysis

| Certificate No. | 54623 | | | Date: March 3 1983 |
|-----------------|---------------------|---------|--------------|----------------------------|
| Received Mar. | 1/83 | 23 | Samples of _ | split core |
| Submitted by | Arcadia Exploration | s Ltd., | c/o Mr. P.C. | McLean, North Bay, Ontario |
| | | | | Page 2 of 2 |

| SAMPLE NO. | GOLD Oz./ton | SILVER Oz./ton |
|------------|-----------------|-------------------|
| 19517 | Nil | Trace |
| 19518 | Nil | Nil |
| 19519 | Nil | Nil |
| 19520 | Nil | Nil |
| 19521 | Nil | |
| 19522 | 0.002 | |

G. Lebel - Manager

| | , <u>1-8</u> |
|-----------------------------------|----------------------|
| | LOCATION Same as A-7 |
| | 5-478943 |
| PROPERTY NEW ARCADIA EXPLORATIONS | SECTION |
| 2002 | |

| LATITUDE | STARTED October 1, 1983 | BEARING_FastDEPTH288.0 |
|-----------|----------------------------|------------------------|
| DEPARTURE | COMPLETED October 11, 1983 | DIP60° |
| ELEVATION | V.D H.D | |

| CENERAL CEOLOGY | ASSAY | | SAMPLE | | 5007165 | recoverie ceology |
|---|-------|-------|----------|--------|---------------------------------------|---------------------------------------|
| GENERAL GEOLOGY | OZ. | VALUE | PEET | NUMBER | FOOTAGE | |
| 0.0-59.0 | Au. | Ag. | | | | |
| Casing, gravel and boulders. | ļ | | ļ | | | |
| 59.0-288.0 | | | | | | |
| Serpent quartzite, light grey to pinkish | | | 1 | | | |
| to salmon red. Occasional narrow chlorite | | | <u> </u> | 1 | | |
| seams. Pyrite disseminated and in narrow | | | <u> </u> | | | |
| beds throughout. | | | <u> </u> | | | |
| 90.0-91.3 | | | | | , , , , , , , , , , , , , , , , , , , | • |
| pink calcite stringer at 10 to the | | | | | | |
| core. | | | | ļ | | |
| 94.8-95.6 | | | | | | |
| quartz stringer at 15° to the core | | | | | | |
| contains coarse magnetite grains. | | | | | | |
| 108.2–108.7 | .002 | | 0.5 | 35642 | 108.2-108.7 | Shear zone, 30° to the core, 50% vein |
| Shear zone, 30° to the core, 50% vein | | | | | | quartz, well mineralized with chalco |
| quartz with fine patches of chalco and | | | | | | |
| pyrite. | | | İ | | | |
| 126.8-127.9 | | | | | | |
| lm quartz stringer at 20° to the core | | | | | | |
| 70% red hematite | .002 | Nil | 1.1 | 35643 | 126.8-127.9 | 1" quartz stringer at 20° to the cor |
| | | | ļ | | | 70% hematite with some py in the qtz |
| 132.0 | | | | | | · |
| 3" section of chlorite breccia, 10% | | | | | | |
| chlorite, minor pyrite. | | | | | | |
| | L | | | | | • |

Markstay Drillers

and the second second

fant. W. J.

7.7.5.7.7

| CENERAL CEOLOGY | ASSAY BAMPLE | APLE | FOOTAGE | ECONOMIC GEOLOGY | | |
|--|--------------|---|--|--|--------------|--------------------------------------|
| GENERAL GEOLOGY | oz. | VALUE | PEET | NUMBER | FOOTAGE | ECONOMIC GEOLOGY |
| 132.0-143.0 | | | | | | |
| Quartzite contains frequent narrow | | | | | | |
| chlorite seams in all directions, | | | | | | |
| approaching a breccia over narrow | | | | | | |
| widths. Minor pyrite. | | | | | | |
| | | | | | | |
| 191.0 | | | | | | |
| 2" weakly sheared section at 30° to | | | | | | |
| the core. | | | | | | |
| | | | | | | |
| 196.0-203.0 | | | | | | |
| Somewhat chloritized with narrow seams | | | | | | 200 |
| of chlorite, also some local chlorite | | | | | | |
| replacement. | | | | | | |
| | | | | | | |
| 277.4-277.7 | Nil | | 0.3 | 35644 | 227.4-227.7 | Quartz stringer with good by and bo |
| Quartz stringer normal to the core | | | | | | and a speck of chalco. (whole core |
| with good pyrite and pyrrhotite in | | | | <u> </u> | | sampled) |
| seams | | | | <u> </u> | | |
| | | | | | | |
| 239.9-248.0 | Nil | | 5.0 | 35645 | 239.0-244.0 | Character sample diabase dvke. |
| Diorite dyke, dark grey, chloritic | | | | | | |
| and altered. Top contact at 60° to the | ļ | | | | | |
| core. Some disseminated pyrite. | . | | | ļ | | |
| Rlockey broken core, non magnetic | | | | | | |
| likely Nipissing type. | | | ļ | | · | |
| 0.0.0.055 | | | | | | • |
| 248.0-255.5 | 200 | | 1.6 | 35646 | 250 0 051 (| |
| Quartzite, brick red, altered | -002 | | 1.0 | 35040 | 250.0-251.6 | |
| | | | | | <u> </u> | stringers p to 2". Largest stringer |
| 252 0 254 0 | | | | | | 13 well mineralized with pyrite. |
| 253.0-254.0 Quartzite sheared at 30° to the | | | ·· | | | |
| | | | | | | |
| core and highly altered. | | | | | | |
| 255-5-260-5 | .005 | | 5.0 | 35647 | 255.5-260.5 | Shear zone, sheared and crushed |
| Shear zone, shearing mostly at 20° to | .01 | check | 155 | 1 | 1 | quartzite with 20% grey vein quartz. |
| the core, altered crushed quartzite | | | | | | sulphides rare. |
| with some grey vein quartz and calcite | | | | | | |
| sulphides rare, 20% vein quartz. | | *************************************** | | 1 | | |
| authurnes rate, sole torn dans and | | | | <u> </u> | | |

| - | GENERAL GEOLOGY | OZ. | | | | rodinge i | | |
|----|---|---------|-------|----------------|--------|-----------|------------------|--|
| | | | VALUE | PEET | NUMBER | FOOTAGE | ECONOMIC GEOLOGY | |
| | 260.5-271.0 | | | | | | | |
| | Diorite dyke, dark grey, similar to | | | | | | | |
| | the previous dyke, altered, blockey | | | | | | | |
| | broken core. A little disseminated | | | | | | | |
| | pyrite. | | | | | | | |
| | | | | | | | | |
| | 271.0-288.0 | | | | | | | |
| | Quartzite, salmon pink to grey, locally | | | | | | | |
| | frequent narrow chlorite seams. | | | | | | | |
| | | | | | | | | |
| | 283.0 | | | | | | | |
| | End of hole. | | | | | | | |
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| | LOCATION 100' S. of 4-8 |
|---------------------------------------|-------------------------|
| | s-478943 |
| ROPERTY NEW ARCADIA EXPLORATIONS LTD. | SECTION |

| LATITUDE | STARTED October | 22, 1983 | BEARING 270° DEPTH 404.0 |
|-----------|-----------------|--------------|--------------------------|
| DEPARTURE | COMPLETED Octob | ber 29, 1983 | DIP -60° |
| ELEVATION | V D | HD | · |

| CENERAL CEOLOGY | | SSAY | SA | MPLE | FOOTAGE | ECONOMIC GEOLOGY |
|--|--------------|-------|--------------|--------|-------------|---------------------------------------|
| GENERAL GEOLOGY | OZ. | VALUE | FEET | NUMBER | POOTAGE | ECONOMIC GEOLOGY |
| 0.0-60.0 | | | | | | |
| Casing. Gravel and boulders. | | | | | | |
| 60.0-404.0 | Nil | | 1.4 | 35657 | 70.6-72.2 | Irregular quartz stringers in pink |
| Serpent quartzite, light to dark grey to | | | | | | quartzite, contains bleos of chlorite |
| salmon pink. Locally narrow chlorite | ļ | | | | | with some minor associated pyrite. |
| seams. | | | <u> </u> | | | |
| | Nil | | 1.4 | 35658 | 86.8-88.0 | Irregular quaerz stringers, mostly at |
| 74.3 | _ | | <u> </u> | | | 60 to the core, some coarse po. in |
| 3" quartz stringer at 45° to the core | <u> </u> | | <u> </u> | | | the quartz, also minor chlorite. |
| with some chlorite and minor pyrite, | _ | | <u> </u> | | | |
| | | | | | | |
| 104.2-105.9 | .005 | | 1.7 | 35659 | 104.2-105.9 | Shear zone, 20% vein quartz and some |
| Shear zone, 20% vein quartz, shearing | | | | | | pink calcite. Some of quartz is well |
| at 45 to the core. | _ | | | ļ | | mineralized with pyrite. Shear is |
| | | | | | | somewhat chloritic. |
| 106.6-107.1 | .01 | | 0.5 | 35660 | 106-6-107-1 | Shear zone, 30% vein quartz with |
| Shear zone, 45° to the core | .005 | check | 10.7 | 37000 | 10010 10111 | minor sulphides. |
| | | | | | | |
| 117.7-120.6 | | | | | | |
| Quartzite is weakly sheared at 45° to | | | <u> </u> | | | |
| the core. | | | | | | |
| 133-8-136-9 | -005 | | 1.9 | 35661 | 133.8-135.7 | |
| Shear zone, shearing mostly 60° to the | ļ | ļ | <u> </u> | | | pinkish calcite. Rare speck of aspy. |
| core. Crushed sections and some fault | ↓ | | | | | |
| hreccia, fragments 3". Band of coarse | .002 | | 0.6 | 35562 | 136.3-136.9 | Shear zone, chloritic, includes 4" |
| aspy xtals at 136.8 feet. | | | 1 | | | band of coarse aspy. xtals. |

The Markstay Drillers.

DRILLING CONTRACTOR

faul. M: J.

W.W.M. NO. 4-9

| CENTER L. CENTOCK | A | ASSAY | BAMPLE | | FOOTAGE | ECONOMIC GEOLOGY | |
|---|--|-------------|--|--|-------------|--|--|
| GENERAL GEOLOGY | OZ. | VALUE | PEET | NUMBER | | Zeonomie ozozoo. | |
| 207.6 | Nil | | 1.6 | 35663 | 1;7.5-179.2 | Altered reddish quartzite with | |
| quartz stringer normal to the core | | | | | | considerable pyrite in seams, locally | |
| with 1/8" seam of pyrite in quartz. | | | | | | brecciated with marrow quartz stringer | |
| | | | | | | s containing good pyrite. | |
| 237.5-241.1 | Nil | | 3.6 | 35664 | 237.5-241.1 | Quartzite, chloritic, includes a 2" | |
| Chloritic section, includes a 2" quartz | | | | | | quartz stringer with patches of | |
| stringer with patches of chlorite and | | | | | | chlorite and good pyrite. | |
| good pyrite. | | | | | | | |
| | Nil | | 2.0 | 35665 | 324.2-326.2 | 70% white vein quartz in stringers | |
| 240.0 -404.0 | | | 1 | | | up to 4" at 30° to the core. Some | |
| Quartzite light to dark grey with | | | | | | coarse pyrrhotite in the quartz, also | |
| occasional pinkish grey bed. | | | į. | | | minor chalcopyrite. | |
| | | | | 1 | | | |
| 390.0 | Nil | | 0.2 | 35666 | 390.0-390.2 | grantz stringer with coarse chalco | |
| y quartz stringer at 45° to the core | | £11 | | : | | and some pyrite (whole core sampled). | |
| with coarse pyrite and chalcopyrite. | | | | | | | |
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| 404.0 | | | | | | | |
| End of hole. | | | | | | | |
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| | LOCATION 4=30E, 8+50S |
| | s-478943 |
| | SECTION |

PROPERTY New Arcadia Explorations Limited

| LATITUDE | STARTED October 31, 1983 | G-114h 227 224 3 |
|-----------|----------------------------|-------------------------------------|
| DEPARTURE | COMPLETED November 3, 1983 | BEARING South DEPTH 224.0 DIP -450 |
| ELEVATION | V.D H.D | |

| GENERAL GEOLOGY | A | SSAY | 5 A | MPLE | FOOTAGE | Quartz stringer zone, 50% grey quartz with fair chalco and po. Quartz vein, barren except for a grain of chalcopyrite. Quartz and carbonate stringer zone, 70% quartz-carbonate, no sulphides. |
|--|------|-------|----------------|--------|-------------|--|
| GENERAL GEOLOGY | OZ. | VALUE | PERT | NUMBER | FOOTAGE | |
| 0.0-45.0 | | | | | | |
| Casing. Cravel and boulders. | | | | | | |
| 45.0-192.5 | | | | | | |
| Gabbro, coarse grained Nipissing type, | | | | | | |
| dark green, occasional quartz and carbonat | | | | | | |
| stringers. | | | | | | |
| 77.3-80.2 | Nil | | 2.9 | 35667 | 77.3-80.2 | Quartz stringer zone, 50% grey quart: |
| Quartz stringer zone, most of the | | | | | | with fair chalco and po. |
| stringers are at 30° to the core, some at | | | | | | |
| 60°. Both quartz and gabbro are | | | | | | |
| mineralized with fair chalco and po. | | | | | | |
| 104.0-104.9 | Nil | | 0.9 | 35658 | 104.0-104.9 | Quartz vein, barren except for a |
| Quartz vein, bluish quartz at 80° to | · | | | | | grain of chalcopyrite. |
| the core. Speck of chalcopyrite | | | | | | · |
| 350 (305 0 | .002 | | 3.0 | 35.660 | 181 6 164 6 | i contract at incompany |
| 158.6–185.0 | -002 | | 3.0 | 35669 | 101.5-104.5 | |
| Gabbro, abruptly medium grained. | | | | | | 10% quartz-carbonate, no sulphides. |
| 167.0 | | | | | | |
| l" quartz stringer at 45° to the core | | | | | | |
| contains a coarse splash of Po. and | | | | | | |
| chalcopyrite | | | | | | |
| 185.0–192.5 | | | | | | |
| Gabbro, becoming coarse grained. | | | | | | |
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The Markstay Drillers.

DRILLING CONTRACTOR

faul . H. J.

| GENERAL GEOLOGY | YARRA | | BA | MPLE | F001 | _ | ECONOMIC GEOLOGY |
|--|--|----------|--|----------|------|----------|------------------|
| | OZ. | VALUE | PERT | NUMBER | 700. | <u> </u> | 200.101.10 01010 |
| 192.5-224.0 | | | | | | | |
| A mixture of Bruce conglomerate and | | | | | | | |
| coarse grained gabbro. Appears to le | | | | | | | |
| inclusions of Bruce in the gabbro which | | | | | | | |
| contains frequent pebbles and fragments. | | | | | | | |
| Approximately 70% Bruce. Possibly a | | | | | | | |
| breccia but gabbro maitreX is coarse | | | | | | | |
| grained. | | | | | | | |
| | | | | 1 | | | |
| 206.0-209.0 | | | | | | | |
| Large quartzite boulder, similar to | | | | | | | |
| those noted on outcrop. | | | | | | | |
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| 224.0 | | | | | | | |
| End of Hole. | | | | | | | |
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| PROPERTY_ | New | Arcadia | Explorations | Ltd. |
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| OCATION 100 Feet V of A-8 | 3 |
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| S-478943 | • |
| ECTION | |

| LATITUDE | STARTED November 7, 1983 | | | |
|-----------|-----------------------------|--------------------------|--|--|
| | | BEARING East DEPTH 300.0 | | |
| DEPARTURE | COMPLETED November 12, 1983 | DIP | | |
| ELEVATION | V.D H.D | | | |

| CENEDAL CEOLOGY | YARRA | | SAMPLE | | FOOTAGE | ECONOMIC GEOLOGY |
|--|---------------|--------------|--|---------------|-------------|------------------|
| GENERAL GEOLOGY | OZ. | VALUE | PERT | NUMBER | FOOTAGE | ECONOMIC GEOLOGI |
| 0.0-65.0 | | | | | | |
| Casing. Gravel and many boulders. | | | | | | |
| | | | | | | |
| 65.0-300.0 | | | | <u> </u> | | |
| Serpent quartzite, dark to light to | | <u> </u> | | ! | | |
| pinkish grey with some pink and salmon | | | | <u> </u> | | |
| red beds. | | | | | | |
| 70.0 | | | | | | _ |
| Bedding at 45 to the core. | | | | | | |
| | | | | | | |
| 91.7 | | | | | | |
| l" sheared section at 35° to the core. | | <u> </u> | | | | |
| Narrow ribbons of grey vein quartz. | | | | | | |
| (2. 2. 200 E | | | | | | |
| 91.3–120.5 | | | | ļ | | |
| Dark grey siliceous greywacke. | | | 1 | | | |
| 166.2 2" Bx section. | | | | | | |
| | | | | | | |
| 209.0-209.6 | | | | | | |
| Brecciated section, weakly chloritic. | | | ļ <u> </u> | | | |
| 220.0 well bedded at 50 to the core. | | | - | | | |
| 223.0 004.04 0. /0 00 00.00 | | | | | | |
| 237.0-237.5 | | | | | | |
| Weakly Bx section with some chlorite. | | ļ | | | | |
| 300.0 | | | | | | |
| End of hole. | - | | | | | |

The Markstay Drillers

Samuel Company

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DRILLING CONTRACTOR

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| | | LOCATION 50 feet E of A-11 |
|-----------|----------------------------------|----------------------------|
| PROPERTY | New Arcadia Explorations Limited | SECTION |
| LATITUDE | STARTED November 17, 1983 | BEARING West DEPTH 173.0 |
| DEPARTURE | COMPLETED November 23, 1983 | DIP60° |
| ELEVATION | V.DH.D | |

| GENERAL GEOLOGY | YASEA | | SAI | MPLE | | 555110 55010CV |
|--|--|-------|--------------|--------|-------------|------------------------------------|
| | OZ. | VALUE | FEET | NUMBER | FOOTAGE | ECONOMIC GEOLOGY |
| 0.0-64.0 | | | | | | |
| Casing. Gravel and boulders. | | | ! | | | |
| 64.0-173.0 | | | | | | |
| Serpent quartzite, light to dark grey to | | | | | | |
| pinkish to salmon red. Locally pyrite | | | | | | |
| in seams and patches. | | | | | | |
| 108.5 weak bedding at 45° to the core | | | | | | |
| 135.0-137.0 | | | | | | |
| chlorite seam almost parallel to | | _ | | | | |
| the core. | | | | | | |
| 146.9-148.1 | .002 | | 1.2 | 35671 | 146.9-148.1 | Fault zone, Brecciated and silicif |
| Fault zone, silicified with grey vein | | | | | | ied. Fine grains of pyrite, some |
| quartz, and brecciated with fragments | | | | | | chlorite present in the quartz. |
| un to be with fine grains of nyrite. | | | | | | ÷ |
| 40% vein quartz, some shearing at 60 | | | | | | |
| to the core. Some ground core in this | | | | | | |
| section. | | | | | | |
| 173.0 | 1 | | | | | |
| End of hole. | | | | | | |
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The Markstay Drillers
DRILLING CONTRACTOR

प्रकारकेत्राका (नेत्रसंत्र) सक्तक **गाँधी पूर्व**क हुन

faul . M. f.

| <i>D.</i> D.M. 190 | A-1 | 3 | | _ | |
|--------------------|-------|------|------|------|---|
| LOCATION | | | 53 | feet | Ξ |
| of A-9 | S-478 | 3943 | | _ | |
| SECTION_ | | | | _ | |

PROPERTY New Arcadia Explorations Limited

| LATITUDE | STARTED November 25, 1983 | BEARING West DEPTH 208.0 |
|-----------|-----------------------------|--------------------------|
| DEPARTURE | COMPLETED December 14, 1983 | DIP60 ⁰ |
| ELEVATION | V.DH.D | |

| GENERAL GEOLOGY | YASEA | | SA | MPLE | FOOTAGE | ECONOMIC GEOLOGY | |
|---|-------|-------|----------------|----------|-------------|--------------------------------------|--|
| | OZ. | VALUE | PEET | NUMBER | POOTAGE | ECONOMIC GEOLOGI | |
| 0.0-85.0 | | | | | | | |
| Casing. Grayel and many boulders. | | | | | | | |
| | | | | | | | |
| 85.0-208.0 | | | | 1 | | | |
| Serpent quartzite, light to dark to | | | | | | | |
| pinkish grey with some salmon red beds. | | | ! | | | | |
| 92.0-98.0 | | | | | | | |
| Narrow chlorite seams in this section | | | | | | | |
| Usually at 30° to the core. | | | | | | | |
| 97.0-98.0 coarse pyrite in narrow | | | | | | | |
| guartz stringer at 15to core | | | | | | | |
| 100.0-110.0 | | | | | | | |
| Broken blockey oxidized core. | | | | | | | |
| 102.0-105.0 lost core. | | | | | | | |
| | | | | | | | |
| 158.7-159.7 | -002 | | 1.0 | 35672 | 158.7-159.7 | Quartzite, altered with some fine | |
| Quartzite altered, chloritic with | | | | | | Disseminated arsenopyrite xtals. | |
| some disseminated arseno in walls of | | | | <u> </u> | | Speck of red ZnS. | |
| vein structure | | | - | | | | |
| 159.7-160.9 | .18 | | 1.2 | 35673 | 159.7-160.9 | Vein material, chlorite and grey vei | |
| Vein material, 60% grey vein quartz with | 15 | check | | | | quartz. Cood arseno in quartz and in | |
| some chlorite. Somewhat sheared at 60° to | .15 | check | | | | the chlorite. Local red ZnS and PoS | |
| the core. Good disseminated arsenopyrite | | | | | | Speck of V.G. with PbS and Aspy at | |
| in grey quartz in xtals up to 1/16". | | | | | | 160.6. | |
| Local fine braccia. Some core lost on | i | | ł | 1 | | | |

The Markstay Drillers
DRILLING CONTRACTOR

| GENERAL GEOLOGY | A: | ASSAY | | MPLE | FOOTAGE | ECONOMIC GEOLOGY |
|---------------------------------------|--|-------|--|--|--------------|---|
| | OZ. | VALUE | PEET | NUMBER | FOOTAGE | ECONOMIC GEOLOGY |
| 160, 9-162, 5 | .005 | | 1.6 | 35674 | 160.9-162.5 | Altered quartizite contains Ytals |
| Disseminated arsenopyrite in altered | | | | | | of arsenopyrite up to 1/9" disceminate |
| quartzite. | | | | | | d in the quartizate. Local minor galena |
| | 1 | | <u> </u> | | | |
| 167.2 a few grains of disseminated | | | ļ | ļ | | |
| arsenopyrite_over_1". | | | | ļ | | |
| 168.0-170.0 | 1 | | | ļ | | |
| chloritized section with fine dissem. | + | | 1 | | | |
| pyrrhotite. | | | | | | |
| | | | | | | |
| 181.0-183.6 | .002 | | 5.0 | 35675 | 181.3-186.0 | Bedied and/or weakly sheared chloritic |
| Bedded and/or weakly sheared section | | | | | | section. Fine dissem po. |
| some chlorite seams with fine po. | | | - | | | |
| 192.5-193.0 | 1 | | | | | |
| Quartz vein, white, barren. | | | | | | |
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| 208.0 | | | | | | |
| End of hole. | | | | | | |
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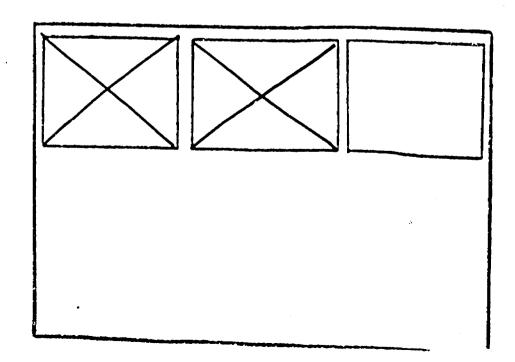
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Javis Twp.-M.748

SEE ACCOMPANYING MAP(S) IDENTIFIED AS SCADDING-0045,#1

LOCATED IN THE MAP CHANNEL IN THE FOLLOWING SEQUENCE (X)



OM 82-192-NEW ARCADIA EXPLORATIONS LTD. ET AL GOLD PROSPECT SCADDING TOWNSHIP PLAN OF GEOLOGY - EAST SHEET SCALE: 100 feet LEGEND Feldspar Porphyry Olivine Diabase Strike and Dip Niplasing Diabase, Gabbro Attitude of Shearing * Serpent Quartzite Swamp Bruce Limestone Creek Bruce Conglomerate Steep Hill or Cliff Mississagi Quartzite Humus Gold Values in Parts per Billion Shear zone S - 507602 NORTHGATE EXPLORATION LTD. CONI 3 3 3 2 6 3 4 5 0 S-478942 S-478943 S-478945 5-478944 S-478959 S-**4789**58 S-478960 SCADDING TWP. STREET TWP.

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