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REPORT ON THE DEBBIE PROPERTY NANAIMO & ALBERNI MINING DIVISIONS VANCOUVER ISLAND, BRITISH COLUMBIA

LOCATION

N.T.S.: 92F-2E, 7E Latitude: 49° 10'N. Longitude: 124° 40'W.

FOR

ANGLE RESOURCES LTD. & NEXUS RESOURCE CORPORATION 3270-666 Burrard Street Vancouver, B. C. V6C 229

PREPARED BY

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SUMMARY

The Debbie Property, consisting of 21 metric claims totaling 247 units is situated in the Nanaimo and Alberni Mining Divisions about 4 km east of Port Alberni, Vancouver Island, B.C. The property is owned 50% by Westmin Resources Limited and 50% by Nexus Resource Corporation and Angle Resources Ltd.

The Debbie Property has good road access via Highway 4 and Cameron Main and logging access along China Creek and Rogers Creek. A mining road up Mineral Creek and logging road up Yellow Creek in the south central part of the property provides partial access to the main mineral zones but extension of the existing road system is required to complete surface exploration.

The property is mainly underlain by sedimentary and volcanic rocks of the Sicker Group with Nitinat and Myra Formation well exposed by a major north-northeast trending fault zone in the Yellow and Mineral Creek area. The fault zones are well mineralized with geological, geochemical and geophysical evidence that mineralization may extend for several kilometers. Three main structurally controlled mineralized zones with epithermal gold mineralization are referred to as the Mineral Creek Zone, 900 Zone and Linda Zone. The Linda and Mineral Creek Zones have been traced onto the adjoining Yellow property which is controlled by Angle Resources Ltd. and Reward Resources Ltd.

An exhalitive massive sulphide target has been located in the Regina area of the Debbie Property. Base metal mineralization is stratigraphically below a thick pile of felsic volcanic rocks. A drill hole intersected greater than 100 meters of semi-massive sulphide mineralization with subeconomic copper and anomalous gold values.

The writer agrees with Watkins (1987) conclusions that, "The Mineral Creek area offers the greatest potential for the realization of ore." Definition drilling on the zones is required to identify combined reserves adequate to justify a central milling facility. Possible extensions of the Linda and Mineral Creek zones occur on the enclosed Yellow Property that is presently being explored by Angle Resources Ltd. and Reward Resources Ltd. Westmin Resources has estimated the economic potential of the Mineral Creek area on the Debbie Property at 1,189,000 tons grading 0.17 ounces per ton gold with the ore potential increased if the area of the Yellow claim is included.

The writer agrees with Westmin's proposed program of property wide geological mapping, extension of soil and rock geochemical surveys, selective employment of geophysical surveys, and drill testing of identified targets. Road building and trenching will be required to provide access to targets. A budget of \$2,200,000 is recommended for next exploration Stage with the Angle Resources Ltd. portion being \$ 785,000 and the Nexus Resource Corportation portion being \$400,000.

INTRODUCTION

The writer was retained by the management of Angle Resources Ltd. and Nexus Resource Corporation to review exploration reports on Debbie Property, summarize previous exploration programs and recommend a program for further development of the Debbie Property. The writer examined the Debbie Property on May 11, 1987. The exploration status of the Debbie Property is documented in a comprehensive report by J. J. Watkins, E. A. G. Truemen and G. A. Price dated July 15, 1987.

This report provides a summary of the Watkins-Trueman-Price report and outlines an exploration program designed to to further define the extent and tenor of the auriferous zone on the Debbie Property.

PROPERTY LOCATION, ACCESS, AND TITLE (Figures 1 & 2)

The Debbie Property is located about 4 kilometers east of Port Alberni in the Alberni and Nanaimo Mining Divisions of British Columbia. A 21 claim block is centered at approximately 49° 10'N latitude and 124° 40'W longitude on 1:50,000 NTS mapsheets 92F/2 and 92F/7 and covers a contiguous block 6 by 16 kilometers.

The Debbie Property straddles the Cameron River valley and is segmented by two northwest trending valleys occupied by China Creek and Rogers Creek. The area is mountainous with elevations ranging from 350 meters to 1310 meters. The property centers on McLaughlin Ridge which is bounded on the north and south by Rogers and China creeks, respectively.

The E and N Railway line and main Highway 4 cross the property north of Rogers Creek. Local access to the property is via the MacMillan Bloedel Cameron Main, Yellow Creek, Mineral Creek and China Creek logging roads from Port Alberni. At about 7 kilometers on the China Creek road, a 4WD road turns northerly to access the Mineral Creek area and the old Vancouver Mine site. Logging road YC 840 along Yellow Creek accesses the top of McLaughlin Ridge with trails extending to old working and helicopter access drill sites in the upper Mineral Creek area.

The Debbie Property consists of the 21 metric claims covering about 6,000 hectares in the Alberni and Nanaimo Mining Divisions. The property includes claims which are owned by Westmin Resources Limited and Nexus Resource Corporation that were staked between April 1979 and May 1986. Westmin Resources Ltd. holds percious metal rights on all of its claims and base metal rights on approximately 76% of its claim area and Nexus Resource Corporation holds only precious metal rights on its claims. Base metal rights to part of the property are owned by MacMillan Bloedel Ltd.

The Property operator is Westmin Resources Limited with Angle Resources Ltd. and Nexus Resources Corporation sharing a 50% working interest. Pertinent claim data is summarized in Table 1 and the claim location is shown on Figure 2.



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Table 1. Pertinent Claim Data Yellow Claim.

CLAIM	<u>RECORD</u> <u>#</u>	UNITS	RECOR	RD DATE	WORK DUE	OWNED BY
Debbie 1 Debbie 2 Debbie 3 Lucy 1 Lucy 2 Lucy 3	451 (5) 452 (5) 453 (5) 372 (5) 372 (5) 374 (5)	20 12 20 15 12 16	Ma y	2, 1979 " " " "	1988 1997 1988 1997 1997 1997	Westmin " " " "
Linda l Linda 2 Jenny Cam	454 (5) 455 (5) 636 (11) 930 (6)	16 12 20	Nov.	" 13, 1979 30, 1980	1997 1997 1997 1997	11 11 11
Oets Oets 2 Stokes	507 (8) 507 (8) 1306 (8)	20 12 20	June Aug. Aug.	28, 1979 3, 1979 24, 1981	1997 1997 1988 1988	11 17 11
Cop Loupy China Grizzly	1002 (8) 637 (11) 1234 (5) 1239 (5)	10 6 2 8	Aug. Nov. May. May	24, 1981 13, 1979 14, 1981 26, 1981	1997 1997 1997 1997	" Nexus "
China 2 Grizzly 2 Cathy Katrina	2923 (5) 2924 (5) 2922 (5) 1726 (4)	1 3 8 8	May April	28, 1986 ", 1983	1997 1997 1997 1988	17 17 17 17

21 claims

247 units

HISTORY

Exploration activity in the Debbie Property area dates from the early 1860's with small scale placer production from China Creek as early as 1862. Attention later shifted to gold-bearing quartz veins with several vein occurrences developed by adits and pits (Figure 5).

The Vancouver Island Gold Mine on the enclosed Yellow Property, one of five past gold producers in the area was first worked in 1895 when the original claims were staked. From 1896 to 1898 a relatively minor amount of tunneling was carried out yielding about 32 tons of ore, and a 10 ton per day, 8 stamp mill was constructed by the Consolidated Alberni Gold Mining Company. The property was active again between 1933 and 1936 when it was operated by Vancouver Island Gold Mines, Limited. A 35-ton pilot mill was constructed in 1936 but because of operating difficulties milled only a few tons of ore (Stevenson, 1945). The Vancouver Island Gold Mine produced 438 tonnes yielding 384 ounces of gold, 52 ounces of silver and 88 kilograms of copper between 1896 and 1939 (Naciuk and Hawkins, 1987). Other gold producers in the area include the Thistle Mine, Black Panther Mine, 3-W Mine and Havilah Mine.

A regional aeromagnetic survey, flown by Hunting Survey Corp. Ltd. in 1962 covered part of the claim block. During the period 1963-1966, Gunnex Ltd. carried out a regional mapping program over a large portion of the E & N Land Grant, with some prospecting and silt sampling. Some sampling was carried out at the Vancouver Island Gold Mine in 1964. Keywest Resources Ltd. carried out surface and underground mapping and sampling in 1973 and 1974. Western Mines Ltd carried out reconnaissance geological mapping and soil sampling in the area in 1976. The area of the Vancouver Island Mine was acquired as the Yellow Property by Silver Cloud Mines Ltd. in 1979 and in 1986 the Yellow Property was optioned to Angle Resources Ltd. and Reward Resources Ltd. The Yellow Property appears to contain mineralized extensions of both the Upper and Lower Mineral Creek zones on the Debbie Property.

Mineral claims comprising were acquired by Westmin Resources Ltd. starting in April 1979 and initially evaluated for precious metal enhanced, exhalitive massive sulphide deposits like Westmin's deposite at Buttle Lake. The initial evaluations (Benvenuto 1981, 1982, 1983) attempted to define favourable stratigraphy in the Sicker Group for hosting exhalitive sulphide ore deposits. A drill test of the Roger' Creek sphalerite occurrence was made in 1984 by Noranda Exploration Ltd. (Walker, 1986; Walker and Benvenuto, 1985).

Pursuant to an agreement dated July 16, 1986, Nexus Resource Corporation obtained an option to earn an undivided 50% interest in the Debbie Property by expending on exploration. \$ 461,000 on or before February 27, 1987 and an additional \$ 539,000 on or before February 27, 1988. Pursuant to an agreement dated December 9, 1986, Angle Resources Ltd. funded the second portion of the exploration program at a cost of \$ 539,000 to earn a 50% interest in the Nexus interest.

The 1986-1987 work program funded mainly by Nexus Resource Corporation and Angle Resources Ltd. resulted in accelerated exploration of the Debbie Property. The work was concentrated in the Mineral and Yellow creeks area and the Regina area of the property. total of 62 drill holes, totaling 9650.0 meters, tested five areas identified by basic geological, geochemical and geophysical surveys and resulted in the discovery of three gold zones. A comprehensive report entitled "1986-1987 Debbie Project Report" and dated July 15, 1987 was prepared for the joint venture by John J. Watkins, E.A.G. Truemen and Georgina A. Price. The Watkins-Truemen-Price report provides the basis for this summary report. Watkins (1987) stated that, "The Mineral Creek area offers the greatest potential for the realization of ore. Definition drilling on the three zones is recommended in order to identify a combined ore reserve that will justify a central milling facility. The combined economic potential of the Mineral Creek area on the Debbie Property resulting from the 1986-1987 program is 1,180,000 tons grading 0.17 ounces per ton gold The potential of the Mineral Creek area can be increased if the Yello claim, centered on Mineral Creek is included in the total ore potential picture."

The 1986-1987 program on the Debbie Property included the drilling of 62 holes totaling 9,650 meters. The Upper Mineral Creek, Regina, 900, Yellow Creek and Lower Mineral Creek zones were drill tested with 4,081.9 meters, 2,319.0 meters, 1,923.5 meters, 744.6 meters, and 581.0 meters, respectively. The 1987-1988 drilling program on the Debbie Property started in June 1987 with drilling in 43 holes totaling 6,070.9 meters completed by October 1, 1987. The results are summarized in a progress report by Ed Lyons dated October 6, 1987. Significant drill results are summarized in a Westmin/Nexus/Angle News Release dated October 9, 1987 with the 900 Zone yielding 6.9 feet of 2.760 oz Au/ton and 1 foot of 3.919 oz Au/ton in holes DN86 and DN89, respectively and the Linda Zone yielding 4.6 feet of 1.31 oz Au/ton in hole DM91. Several wide intersection of low grade gold were obtained from the Mineral Creek Zone (eg. Hole DM87: 64.3 feet at 0.082 oz Au/ton).

REGIONAL GEOLOGY (Figures 3 & 4)

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The Debbie Property is situated in the Insular Tectonic Belt of the Canadian Cordillera. The regional geology of the area has been mapped by C.H. Clapp (1912), J.E. Muller and D.J.T. Carlson (1969) and J.E. Muller (1977 and 1980). The predominant rock units in the Port Alberni-Nitinat River area are the Upper Paleozoic Sicker Group, the Lower Mesozoic Vancouver Group, and lesser amounts of Jurassic Island intrusions, Westcoast complex, and late Cretaceous Nanaimo Group (Figures 3 and 4).

The Sicker Group, the oldest rocks in the area, have been divided from oldest to youngest (Muller, 1980) into the Nitinat Formation, Myra Formation, Sediment-Sill Unit, and Buttle Lake Formation. The Nitinat Formation consists predominately of basic volcanic rocks which include flow breccias, massive flows and rare pillow basalts or agglomerates. The abundance of uralitized phenochrysts and pervasive shear foliation are characteristics of the Nitinat Formation. The Myra Formation unconformably overlies the Nitinat Formation and consists of mafic to rhyodacitic banded tuff, breccia, and flows with argillite, siltstone and chert. The Sediment-Sill Unit consists of argillite, siltstone and chert interlayered with tabular diabase bodies. The Buttle Lake Formation consists of limestone and chert.

The Vancouver Group, consisting of the Karmutsen Formation basalts overlain by limestone of the Quatsino Formation and calcareous siltstone, greywacke, silty-limestone and minor conglomerate is the thickest and most widespread group on Vancouver Island. Karmutsen Formation rocks are relatively undeformed and weakly metamorphosed compared to Sicker Group rocks.

The Lower Jurassic Bonanza Group is made up of interbedded lava, breccia, and tuff ranging in composition from basalt to rhyolite with interbedded marine argillite and greywacke. The Upper Cretaceous Nanaimo Group, consisting of shale, siltstone, sandstone, conglomerate and coal has been separated into at least nine formations.

The Island Intrusions are the most widespread intrusive unit on Vancouver Island. The unit varies in composition from granodiorite to granite and has caused a number of skarn deposits where it encounters limy units.





PROPERTY GEOLOGY

The Debbie Property is underlain by andesitic to basaltic flows, pillow-basalt, tuff, agglomeratic to fine-grained, cherty tuff, and chert of the Nitinat and Myra Formations of the Paleozoic Sicker Group. A mineralized north-northeast striking fault zone trends along Mineral Creek and Yellow Creek. Drilling has indicated steep easterly dips with a number of subparallel fault zones. Regional mapping has indicated left and right lateral offset of the Mineral Creek Fault zone by a northwesterly trending fault structure along Rogers Creek and China Creek respectively.

The geology of the Debbie Property has been mapped by Watkins, Truemen and Price (1987) with regional 1:5,000 scale mapping and zones mapped in greater detail. They divide volcanic rock into at least 10 mappable units in the Upper Mineral Creek area. The area is underlain by a easterly dipping, north-northwest trending acidic to mafic volcanic sequence. A volcaniclastic interval overlies and is in sharp contact with a mainly aphyric and amygdaloidal basalt units. The contact may represent the geologic boundary of the Nitinat and Myra Formations of the Sicker Group. The volcanic rocks are intruded by a andesitic porphyry body.

Pervasive alteration and a number of disruptive structures related to the Mineral Creek fault complex have masked primary features in the Upper Mineral Creek area. Fault structures have caused a mineralized fault breccia zone.

The 900 Zone is underlain by pillow basalt, banded chert/tuff, amygdaloidal basalt, rhyolite-basalt agglomerate lapilli tuff and poryhyritic basalt. The units are folded into an open anticline that plunges gently southward. The 900 Zone is a pipe like body which occurs in a flexure resulting from offset of the the north-northeast 900 Fault by the west-northwest W Fault.

The Regina area is interpreted (Price 1987 part D. Regina Area) to be underlain by a northwest-trending graben characterized by a sharp facies change from interbedded rhyolites and basalts to a thick monotonous pillow basalt sequence. Base metal enhanced pyrite mineralization occurs in the volcaniclastic rocks at the facies transition.

MINERALIZATION (Figure 5)

The Sicker Group is the host for a number of precious metal enhanced volcanogenic massive sulphide deposits and structurally controlled vein deposits on Vancouver Island. Volcanogenic massive sulphide deposits include the Lynx, Myra and H-W deposits of Westmin Resources Limited at Buttle Lake, the Twin J Mine and Laura Property near Mt. Sicker in the Duncan area, and the Thistle Mine (Figures 3 & 5). The reserves of the H-W deposit are 15.23 million tons grading



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5.3% zinc, 2.2% copper, 0.07 oz/ton Au, 1.1 oz/ton Ag and 0.3% lead (Walker, 1983). The Twin J Mine produced 306,000 tons yielding 7.5% zinc, 3.4% copper, 0.15 oz/ton Au and 3.1 oz/ton Ag with minor lead and cadmium. The Thistle Mine produced 6920 tons yielding 4.92% copper, 2760 ounce of gold and 2120 ounces of silver. On Laura Property, Abermin Corporation has delineated a large polymetallic massive sulphide zone with trench sample values up to 24.58 g/t Au, 513.6 g/t Ag, 43.01% zinc, 8.3% lead, and 3.04 % copper over 3.5 meters.

Figure 5 shows the location of sixteen gold deposits and occurrences in the area of the Debbie Property. The Vancouver Island Gold Mine, in the Mineral Creek Zone on the enclosed Yellow claim has reported production of 438 tonnes yielding 384 ounces of gold, 52 ounces of silver and 88 kilograms of copper. Minor production has also been reported for the Black Panther Mine, 3-W and Havilah deposits. The occurrences are mainly structurally controlled quartz-carbonate alteration zones in Sicker Group or overlying Vancouver Group rocks.

Recent discoveries at the 900 zone, Linda zone and Upper Mineral Creek zone on the Debbie Property, under exploration by Nexus Resource Corporation, Angle Resources Ltd and Westmin Resources Ltd. are shown on Figure 6 as exploration target areas. Hole DN50-87 in the 900 zone contained 44.3 feet assaying 1.137 oz/ton gold. Hole DM57 in the Linda zone contained 0.7 feet from 127.1 to 127.8 and 6.8 feet from 420.4 to 427.2 assaying 4.895 oz/ton gold and 0.347 oz/ton gold respectively. Hole DM62 in the Linda zone contained 9.8 feet from 132.4-142.2 and 5.2 feet from 421.0 to 426.2 assaying 0.578 oz/ton gold and 0.312 oz/ton gold respectively. Significant assay results for 1986-1987 program holes in the Upper Mineral Creek, Linda and 900 zones are summarized in Table 2 and significant results for the 1987-1988 exploration program are summarized in Table 3. Hole and zone locations are shown on Figures 7 through 12.

In the Mineral Creek area, gold with arsenopyrite is spatially related to the Mineral Creek fault zone. The Upper Mineral Creek zone is characterized visible gold in discrete quartz-rich veins and fine gold with ankerite, sericite, quartz and pyrite mineralization. At the 900 zone free gold occurs in a quartz stockwork in massive basalt flows and at the Linda zone free gold occurs in a set of east dipping quartz veins the cut mafic to intermediate bedded volcaniclastic rocks.

On the Yellow claim, massive and stockwork quartz veins occur in the Mineral Creek fault zone and in two structures to the east. Zones of pyritic ankerite-sericite-quartz alteration occur proximally to these structures. The auriferous zones are characterized by a rusty color, the presence of green fuchsitic clots and sulphide contents up to 15%. A total of 4976.36 meters of wire line drilling was completed in 20 holes on the Yellow Property with 29 intersections containing more than 1.71 g/t (0.05 oz/T). The writer agrees with Watkins et al. (1987) that significant economic potential for the Mineral Creek zone exists on the Yellow claim.

Table 2.	Summary of Drill	Results (from Wat	kins et al., 1987).
<u>Hole #</u>	<u>Interval(ft)</u>	Length(ft)	<u>(Oz/ton)</u>
	м	ineral Creek Zone	
DM3-86	329.4 - 366.6	37.2	0.124
DM5-86	223.5 - 232.5	9.0	0.311
DM9-86	203.5 - 205.4	1.9	0.303
	239.1 - 239.7	0.6	0.112
	281.6 - 289.7	8.1	0.147
	301.1 - 303.1	2.0	0.138
	379.5 - 388.3	8.8	0.104
	470.8 - 477.0	6.2	0.091
DM12-86	172.9 - 181.1	8.2	0.164
	223.0 - 235.7	12.7	0.146
DM15-86	410.9 - 418.5	7.6	0.556
	558.7 - 562.4	3.7	0.102
DM19-86	61.8 - 65.3	3.5	0.098
	191.7 - 207.3	15.6	0.099
	261.4 - 264.4	3.0	0.156
•	269.6 - 270.6	1.0	. 0.153
DM20-86	64.3 - 71.3	7.0	0.075
DM25-87	305.0 - 306.4 288.6 - 297.2	1.4	0.099
DM28-87	475.1 - 496.9	21.8	0.062
	547.7 - 551.0	3.3	0.105
DM29-87	78.7 - 165.6	86.9	0.087
DF152-67	111.8 - 118.4 180.7 - 182.7	2.0	0.104
	210.6 - 213.3	2.7	0.121
DM35-87	201.4 - 240.4	39.0	0.067
DM30-87	118.7 - 120.3 168.4 - 171.7	· · · · · · · · · · · · · · · · · · ·	0.845
DM43-87	247.2 - 260.9	13.7	0.246
DM51-87	396.6 - 398.0	1.4	0.248
DNG 96	207 3 210 6	$\frac{900}{2}$ $\frac{ZONE}{3}$	0 129
DN8-86	131.5 - 134.8	3.3	0.101
	149.6 - 171.2	21.6	0.143
DN13-86	124.0 - 129.9	5.9	0.223
DN45-87	79.0 - 85.0 98.7 - 108.5	5.9 9.8	0.101
DN 50-87	140.0 - 143.3	3.3	0.164
	182.7 - 227.0	44.3	1.137
	249.0 - 254.2	5.2	0.452
DN52-87	122.0 - 140.2 278.4 - 285.0	20.2	. 0.243
2	311.3 - 314.6	3.3	0.564
DN 58-87	87.9 - 88.9	1.0	0.135
DN 50 97	103.0 - 104.3	1.3	1.924
ופ-גרמת	104.6 - 107.9	3.3	0.959
	124.3 - 127.6	3.3	0.101

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Gold

Table 2. cont.

<u>Hole #</u>	<u>Interval(ft)</u>	Length(ft)	(0z/ton)
		LINDA ZONE	
DM57-87	127.1 - 127.8	0.7	4.895
	420.4 - 427.2	6.8	0.347
DM62-87	132.4 - 142.2	9.8	0.578
	421.0 - 426.2	5.2	0.312

Table 3. Summary of 1987-1988 Drill Results to Oct. 1, 1987 (Westmin/Nexus/Angle News Release, October 9, 1987). Gold

<u>Hole #</u>	<u>Interval(ft)</u>	Length(ft)	(0z/ton)
		MINERAL CREEK ZONE	
DM74	117.2 - 118.7	1.5	0.443
	331.2 - 352.6	21.4	0.073
	378.5 - 420.5	42.0	0.073
DM78	108.6 - 109.6	1.0	0.285
	260.5 - 267.2	6.7	0.295
DM87	210.6 - 274.9	64.3	0.082
DM90 .	246.7 - 301.8	55.1	0.071
		900 ZONE	
DN75	173.5 - 179.1	5.6	0.125
DN 7 9	65.9 - 88.9	23.0	0.078
DN85	102.3 - 105.9	3.6	0.409
	154.5 - 156.1	. 1.6	0.187
DN86	94.5 - 97.1	2.6	0.118
	125.6 - 130.5	4.9	0.074
	140.0 - 146.9	6.9	2.760
INCLUDES	145.3 - 146.9	1.6	11.38
DN89	108.9 - 112.8	3.9	0.310
	158.4 - 159.4	1.0	3.919
DN92	133.8 - 135.4	1.6	0.152
	183.0 - 193.2	10.2	0.145
DN94	155.9 - 159.5	3.6	0.353
		LYNDA ZONE	
DM67	136.1 - 139.4	3.3	0.174
	415.5 - 417.7	2.2	0.280
	457.1 - 460.4	3.3	0.123
DM 70	252.8 - 254.4	1.6	0.122
	438.2 - 441.5	3.3	0.199
DMOD	405.2 - 406.8	1.6	0.216
DM83	310.6 - 319.9	3.3	0.330
DMAT	291.0 - 295.6	4.0	1.31

DISCUSSION

Exploration on the Debbie Property has been successful in defining three gold zones and a number of target areas (Figure 6) with potential for economic gold reserves in structurally controlled vein and breccia zones and/or volcanogenic massive sulphide deposits (Regina Zone). Further surface drilling is required to define the appropriate location for underground exploratory workings and to expand the reserve potential. The Mineral Creek Zone occurs within a mineralized structural zone that has been traced for several kilometers on the Debbie Property and enclosed Yellow claim. Exploration to date has indicated potential for both selective mining of high grade and bulk mining of lower grade auriferous material.

The combined mineral potential of the Mineral Creek area on the Debbie Property has been estimated by Watkins (1987) to be 1,180,000 tons 0.17 ounces per ton gold with the economic potential of the zone doubled by addition of potential on the Yellow claim. Addition of the Yellow claim to the property would allow for more orderly development and cost effective exploration, development and mining.

CONCLUSIONS AND RECOMMENDATIONS

The success of the 1986-1987 exploration program in locating ore grade gold drill intersections over a 700 vertical and 2,000 meter horizontal range provides justification for accelerated exploration of the Debbie Property. The writer is in agreement with the proposed program of reserve definition in the Mineral Creek area with systematic advancement of the Regina and other target areas with basic exploration programs.

A summary of the proposed 1987-1988 exploration budget which has been recommend by the Westmin Resources Ltd. exploration staff and endorsed by the writer, follows:

COST ESTIMATES

(Debbie Project 1987-1988 Exploration Project.)

Mobilization/Demobilization	s 2,500
Geologists 650 man days	156 000
Geological Assistant 1025 man days	148,750
Labourers 600 man days	51,000
Draftsperson 180 man days	19,800
<u>Room & Board</u> 2355 man days	70,650
Transportation & Communication	92,800
<u>Equipment</u> <u>Rentals</u>	4,500
Contract Services	1 1/2 000
Drilling 15,240 m @ \$75.00/m@ \$ 450/km	1,143,000
Geophysical Services	40 000
Road Building & Trenching 400 hrs. @ \$ 75/hr	30,000
Surveying	20,000
Geochemical Analyses	120,600
Report Preparation	5,000
Contingency	50,000
Management Fee 7.5%	153,650
Exploration Manager Fee.	13,000
Total Estimate S	<u>2,200,000</u>
Westmin Resources Ltd. Portion \$ 1,015,000	

westmi	.n Resources Ltd. Portion S	1,015,000
Angle	Resources Ltd. Portion	785,000
Nexus	Resource Corporation	400,000

Total Budget \$ <u>2,200,000</u>

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BIBLIOGRAPHY

- Allen, D.G., 1985. Geochemical Assessment Report on the Mineral Creek Property (Yellow Claims). for Silver Cloud Mines Ltd., May 1985.
- Benvenuto, G., 1983. Sicker-Debbie Project 1982. Lithology, Structure, Economic Geology and Proposed 1983 Drill Program, McLaughlin Ridge Property, Port Alberni, Vancouver Island, B.C. unpub. report for Westmin Resources Ltd.
- Benvenuto, G., 1982. Sicker-Debbie Project 1981. Geologic, Geochemical Soil Sample, Induced Polarization Survey on the McLaughlin Ridge Property, Port Alberni, Vancouver Island, B.C. unpub. report for Westmin Resources Ltd.
- Benvenuto, G., 1981. Results of Geologic, Geochemical Soil, and Induced Polarization Surveys on the McLaughlin Ridge Property, Port Alberni, Vancouver Island, B.C. unpub. report for Westmin Resources Ltd.
- Carson, D.J.T., 1968. Metallogenic Study of Vancouver Island with Emphasis on the Relationship of Mineral Deposits to Plutonic Rocks. Ph.D. Thesis Carleton University.
- Clapp, C.H., 1912. Southern Vancouver Island. GSC Memoir 13.
- Christopher, P.A., 1986. Summary Report on the Geological and Geochemical Exploration of the Yellow and Yellow M Claims (Yellow Group). for Reward Resources Ltd., November 3, 1986.
- Christopher, P.A., 1987. Report on the Yellow Property. for Angle Resources Ltd and Reward Resources Ltd. dated June 3, 1987.
- Lyons, Ed., 1987. Progress Report Debbie Project, Sepetmber, 1987. Memorandum Report for Westmin Resources Ltd. dated Oct. 6, 1987.
- Muller, J.E. and D.J.T. Carson, 1969. Geology and Mineral Deposits of Alberni Map-Area, British Columbia (92F). GSC Paper 68-50.
- Muller, J.E., 1977. Geology of Vancouver Island (West Half). GSC Open File 463.
- Muller, J.E., 1980. The Paleozoic Sicker Group of Vancouver Island, British Columbia. GSC Paper 79-30.
- Naciuk, T.M., and Hawkins, T.G., 1987. Report on Phases I to III, Geology, Geochemistry, Geophysics and Diamond Drilling, Yellow Property. for Reward Resources Ltd. and Angle Resources Ltd., Feb. 28, 1987.
- Neale, T., 1984. Compilation of Mineral Occurrences of the Sicker Group, Vancouver Island, British Columbia. for MPH Consulting Limited.

- Neale. T., and Hawkins, T.G., 1985. Report on Geological and Geochemical Exploration of the Yellow and Yellow M Claims (Yellow Group). for Silver Cloud Mines Ltd. dated Dec. 17, 1985.
- Richmond, A.M., 1934. Vancouver Island Gold Mines Ltd. in B.C. Minister Mines Ann. Rept. p. F2-F4.
- Stevenson, J.S., 1936. Vancouver Island Gold Mines Ltd. in Min. Mines Ann. Rept., 1936, pp. F25-F30.
- Stevenson, J.S., 1945. Geology and Ore Deposits of the China Creek Area, Vancouver Island, British Columbia. B.C. Minister of Mines Ann. Rept., 1944, pp. Al43-Al61.
- Walker, R.R., 1983. Ore Deposits at the Myra Falls Minesite. Western Miner, May 1983, pp. 22-25.
- Walker, R.R., 1986. Analysis of Drill Core Deb-Lu Group, Roger's Creek Area, Port Alberni. unpub. assessment rept. for Westmin Resources Limited.
- Walker, R.R. and Benvenuto, G., 1985. 1984 Diamond Drill Program McLaughlin Ridge Property, Roger's Creek Area, Port Alberni, B.C. unpub. assessment rept. for Westmin Resources Limited.
- Watkins, John J., Truemen, E.A.G., and Price, Georgina A., 1987. 1986-1987 Debbie Project Report. report Prepared for Westmin Resources Ltd. dated July 15, 1987.
- Watkins, J.J., 1986. Geology, Geophysics, Lithogeochemistry and Soil Geochemistry on Part of the Jenny Group, Vancouver Island, B.C. Unpub. assessment rept. for Westmin Resources Limited.
- Wilson, R. and Bradish, L., 1985. Report on Geophysical, Geochemical and Geological Surveys on the China and Lu-Linda Groups. unpub. rept. Noranda Exploration Company Limited.

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CERTIFICATE

I, Peter A. Christopher, with business address at 3707 West 34th Avenue, Vancouver, British Columbia, do hereby certify that:

1) I am a consulting geological engineer registered with the Association of Professional Engineers of British Columbia since 1976.

2) I am a Fellow of the Geological Association of Canada and a member of the Society of Economic Geologists.

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3) I hold a B.Sc. (1966) from the State University of New York at Fredonia, a M.A. (1968) from Dartmouth College and a Ph.D. (1973) from the University of British Columbia.

4) I have been practising my profession as a Geologist for over 20 years.

5) I have no direct or indirect interest, nor do I expect to receive any interest directly or indirectly in the properties or securities of Angle Resources Ltd., Nexus Resource Corporation or associated companies.

6) I have based this report on a review of government and company reports listed in the bibliography and on a field examination of the geological setting and claim locations on May 11th, 1987 and November 28, 1987.

7) I consent to the use of this report by Angle Resources Ltd. and/or Nexus Resource Corporation in any Filing Statement, Statement of Material Facts or Prospectus issued by the companies.

Peter A. Christopher Pr.D. P.Eng. October 28, 1987 Revised December 4, 1957 Peter Christopher & Associates Inc. GEOLOGICAL & EXPLORATION SERVICES

3707 West 34th Ave., Vancouver, B.C. V6N 2K9

December 4, 1987

Angle Resources Ltd. Nexus Resource Corporation 3270-666 Burrard Street Vancouver, British Columbia V6C 2Z9

Dear Sirs:

I, Peter A. Christopher, Ph.D., P.Eng., hereby consent to the use of my report dated October 28, 1987, revised December 4, 1987 on the Yellow Property, Alberni Mining Division, British Columbia, by Angle Resources Ltd. and/or Nexus Resource Corporation in any Filing Statement, Statement of Material Facts, Prospectus or for obtaining private financing.

Dated at Vancouver, British Columbia, this 4th day of December, 1987.

Peter A. P.Eng. Christop

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