

GEOLOGICAL BRANCH  
ASSESSMENT REPORT

10,885

DIAMOND DRILL REPORT

ON THE

JACKPOT PROPERTY

SOUTHEASTERN BRITISH COLUMBIA

NELSON MINING DIVISION

NTS 82F 3E/6E

LATITUDE  $49^{\circ} 09' 22''$

LONGITUDE  $117^{\circ} 09' 20''$

by

W. D. BOND AND J. R. FOSTER

NEW JERSEY ZINC EXPLORATION CO. (CANADA) LTD.

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I. INTRODUCTION

A diamond drill program was carried out on the Jackpot Property by New Jersey Zinc Exploration Co. (Canada) Ltd. The Jackpot Property is situated within the Salmo (lead-zinc) "Mine Belt" in the Nelson Mining Division of Southeastern British Columbia. (Figure 1).

The center of the claim group is located 6.4 km (4 miles south-southeast of Ymir immediately south of the junction of Porcupine and Active Creeks (Figure 2). Ymir is located on an all-weather paved highway, midway between the cities of Nelson and Trail. A bush road situated about 3 km south of Ymir leads eastward along Porcupine Creek about 8 km to the property. The Jackpot "switchback" road leads south off the Porcupine Creek road to the top of the property.

II. DESCRIPTION OF CLAIMS

Table I indicates the currently held claims on the Jackpot Property; there are 33 contiguous claims including 6 crown granted and 27 recorded claims. These claims are owned by New Jersey Zinc Exploration Co. (Canada) Ltd. Their location is given in Figure 3.

III. PHYSIOGRAPHY

The Jackpot property straddles a high east-west striking ridge on the southside of Porcupine Creek (elevation approximately 2500 feet (762 m), and extends north to Jubilee Mountain and south to Hidden Creek (Figure 2).



FIGURE 1  
INDEX MAP OF BRITISH COLUMBIA

scale 1" = 120 miles

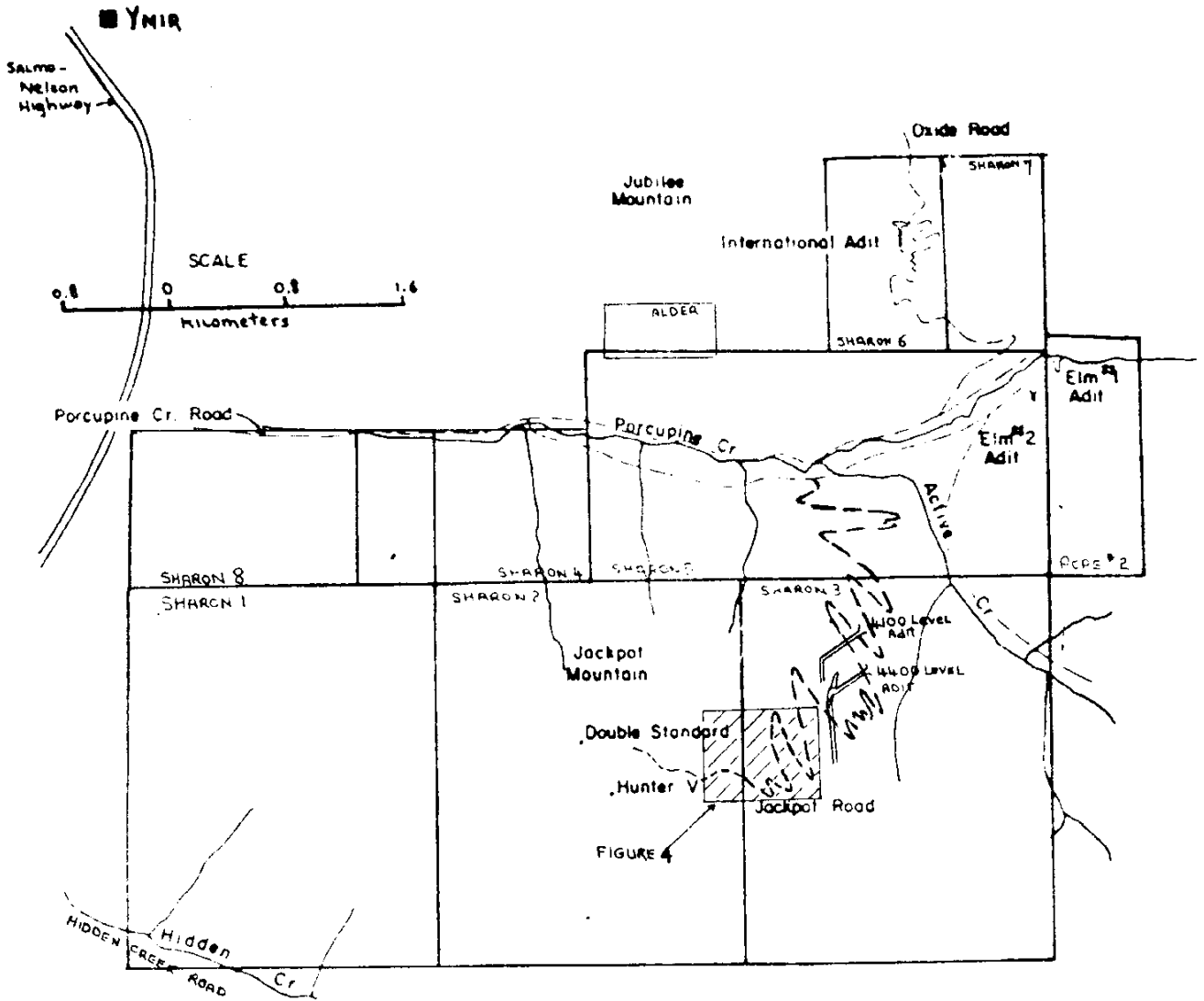


FIGURE 2: TOPOGRAPHIC NOMENCLATURE (JACKPOT PROPERTY)

TABLE 1: JACKPOT PROPERTY LAND HOLDINGS

JACKPOT GROUP \*\*\*

CROWN GRANTED CLAIMS

NAME (No. of units) **	REC/LOT NUMBER	EXPIRY DATE
Hunter V	Lot 2212	Paid 1982
Double Standard	Lot 2213	Paid 1982
Mercia Fraction	Lot 2214	Paid 1982
Eldorado	Lot 5198	Paid 1982
Chihuahua	Lot 5199	Paid 1982
Charmencita	Lot 5201	Paid 1982

RECORDED CLAIMS

Ink Spot	Record 1356	Expires June 9, 1989
Jackpot	Record 1357	Expires June 9, 1990
Ace	Record 1361	Expires June 21, 1989
Jamesonite	Record 1362	Expires June 21, 1989
Elm #5 Fraction	Record 3042	Expires June 6, 1989
Canadian Boy	Record 1370	Expires July 2, 1989
Canadian Girl	Record 1371	Expires July 3, 1990
Two Spot	Record 1375	Expires July 8, 1990
Spot Fraction	Record 1384	Expires Aug. 2, 1989
Rush #1 Fraction	Record 15357	Expires Nov. 20, 1989
Chief	Record 1394	Expires Aug. 10, 1989
Jay	Record 1395	Expires Aug. 10, 1989
Chief Fraction	Record 1396	Expires Aug. 10, 1989
Jay Fraction	Record 1397	Expires Aug. 10, 1989
Jamesonite Fraction	Record 1484	Expires Oct. 18, 1989

1981 STAKING

Sharon 1 (20)	Record 2373	Expires July 14, 1982
Sharon 2 (20)	Record 2374	Expires July 14, 1982
Sharon 3 (20)	Record 2375	Expires July 14, 1982
Sharon 4 ( 6)	Record 2376	Expires July 14, 1982
Sharon 5 (18)	Record 2377	Expires July 14, 1982
Sharon 6 ( 6)	Record 2378	Expires July 16, 1982
Sharon 7 ( 2)	Record 2452	Expires Sept. 6, 1982

1982 STAKING

Jen # 2 ( 1)	Record 2686	Expires July 19, 1983
Mitch #3 ( 1)	Record 2685	Expires July 14, 1983
Pope 2 ( 3)	Record 2684	Expires July 13, 1983
Sharon 8 (12)	Record 2687	Expires Aug. 20, 1983
Alder ( 2)	Record 2735	Expires Oct. , 1983

TOTAL            6 crown granted claims        ) 132 units  
                   27 recorded claims (124 units )

- \* Taxes due July 2nd, annually.
- \*\* Pertaining to modified grid claims.
- \*\*\* Notice to group # 2590 and supplemental notice filed; all claims except Sharon 1 and 8 are in the "Jackpot Group" proper.

4. Assessment work has been filed in August 1982 to keep these claims in good standing until 1984.

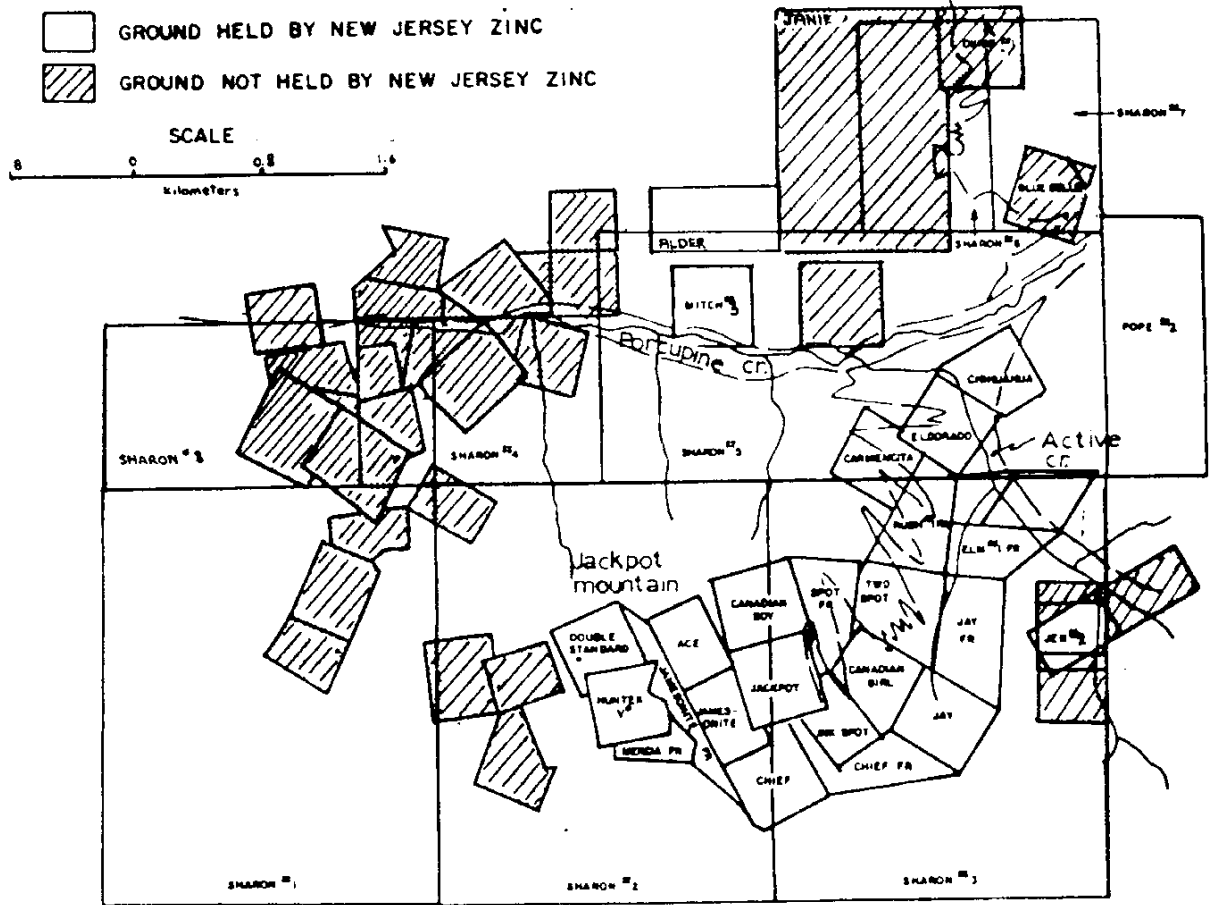


FIGURE 3: JACKPOT PROPERTY CLAIM GROUP

The highest elevation occurs in the southeast part of the claim group at 6340 feet (1930 m).

#### IV. PROPERTY HISTORY

The history of the property dates back to about the turn of the century when early exploration endeavours focused on the silver potential in the center part of the property. Between 1902 and 1929, the Double Standard and Hunter V glory holes were excavated and mined for their silver and gold by various syndicates. From 1949 to present, the property has been owned by New Jersey Zinc Exploration Co. (Canada) Ltd. The work by New Jersey Zinc Exploration Co. (Canada) Ltd. has concentrated on the evaluation of several base metal (Pb-Zn) deposits as described by Fyles and Hewlett (1959, p121-124).

#### V. GEOLOGY

##### A) Regional Setting

Regional geology of the area has been documented by Drysdale (1917), Walker (1934), Little (1960, 1965) and Fyles and Hewlett (1959). The Jackpot Property is situated within the critical Lower Cambrian carbonate stratigraphy that hosts a major lead-zinc province extending from the Coeur d'Alene (Washington, U.S.A.) area to the Kootenay Area (B.C.).

##### B) Local Geology

The oldest rocks underlying the Jackpot property are comprised of pure and impure quartzites of the Quartzite Range Formation. These are succeeded by impure quartzites and metasediments (Reno Member), impure carbonate metasediments (Truman Member) and by limestone, marble and dolomite that



constitute the Reeves member; all of these are part of the Laib Formation. Siltstone and sandstone clastic metasediments that in part are penecontemporaneous and in part post date the above sequences form major constituents. All of this supracrustal sequence is intruded by mafic to felsic plutonic rocks of Mesozoic Age.

Several types of mineralization are present on the Jackpot property:

- i) silver-gold with attendant lead-zinc mineralization is associated with limestone on the central part of the property;
- ii) lead-zinc mineralization is associated with dolomite in the central and east parts of the property. Five main base metal zones have been outlined including the Jamesonite, West, Main, Lerwick and East Zones (Fyles and Hewlett, 1959).

## VI. DIAMOND DRILLING

### INTRODUCTION

The three drill holes described in this report were all drilled during the period July 28 to August 3, 1982:

<u>Hole #</u>	<u>Start</u>	<u>Finish</u>	<u>Depth</u>
JP82-12A	July 28	July 30	165.2m (542.0 feet)
JP82-13	July 31	August 1	160m (525.0 feet)
JP82-14	August 1	August 3	<u>161.5m (530.0 feet)</u>
	TOTAL		486.7m (1597 feet)

The drilling produced a 4.73cm (1 7/8 inches) or NQ diameter core. The drill holes are located in Figure 4 and detailed logs are given in the appendix. In the logs the Reeves has been subdivided into laminated limestone (unit 4A), dolomite (4b) and coarse-grained marble (4c).

The core is stored in racks in a core shack located at the end of a small road that leads off the sixth switchback of the Jackpot Switchback road near the 4100 level adit (figure 2).

#### DRILL HOLE JP82-12A

Drill hole JP82-12A was collared 122.07m (400.5 feet) south-southeast ( $197.5^{\circ}$  Azimuth) of the northeast corner of the Jamesonite Claim (Record #1362). (Figure 4). The hole was planned to test the northeast extension of the West Zone and was spotted 54.8m (180 feet) northeast of the previous drilling. The hole was drilled at an azimuth of  $309^{\circ}$  at a dip of  $-83^{\circ}$ . Dip tests (see sheet #1, drill log JP82-12A) indicates only minor flattening to  $-81^{\circ}$  towards the bottom of the hole.

The hole intersected mostly limestone/dolomite of the Reeves Member and metasediments of the Reno and Truman members. The extension of the West Zone was intersected between footages 70.0 (21.3m) and 87.0 feet (26.5m); the most sulphides (30 to 40% pyrite + pyrrhotite + sphalerite) were encountered at footages 71.9

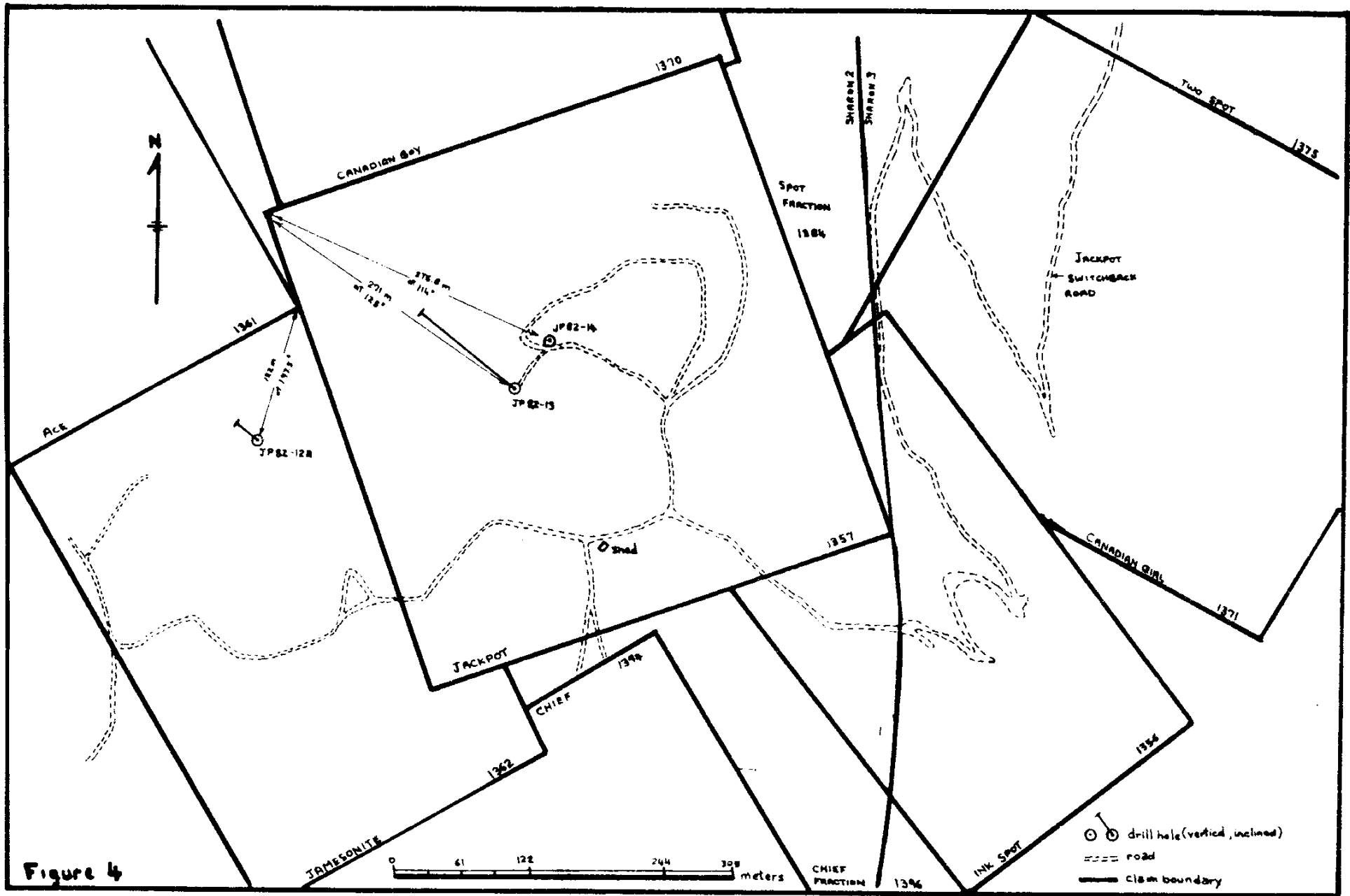


Figure 4

to 72.9 (21.9 - 22.2m). A second, previously unknown zone was found to occur between footages 285.0 - 317.2 (86.9 - 96.7m).

#### DRILL HOLE JP82-13

Drill hole JP82-13 was collared 271.0m (889.0 feet) southeast ( $125^{\circ}$  azimuth) of the northwest corner of the Jackpot Claim (Record # 1357) (see Figure 4). The hole was planned to test the downdip extension of the Main Zone. The hole was drilled at an azimuth of  $309^{\circ}$  at a dip of  $-50.5^{\circ}$ . Dip tests (sheet #1, drill log JP82-13) indicates the hole underwent minor flattening to  $-48^{\circ}$  at the end of the hole.

The hole intersected gabbro and metasediments of the Reno member to footage 249.8 (76.1m) and thereafter was in carbonate rocks of the Reeves member. The south extension of the Main Zone was intersected between footages 400.0 - 473.7 (121.9 - 144.4m).

#### DRILL HOLE JP82-14

Drill hole JP82-14 was collared 275.8m (905 feet) southeast ( $114^{\circ}$  azimuth) of the northwest corner of the Jackpot Claim (Record #1357) (see Figure 4). The hole was planned to test for the continuity of base metal mineralization between the Main and Lerwick Zones. The hole was drilled vertical ( $-90^{\circ}$ ) and dip tests confirmed this flattened only slightly to  $-88^{\circ}$  at the bottom of the hole.

The hole drilled through metasediments of the Reno and Truman members and thereafter intersected Reeves carbonates. Minor granite and lamprophyre sills interrupt this stratigraphy. From 1 to 30% sulphides (pyrite + pyrrhotite + sphalerite) were intersected between footages 303.7 and 385.8 (92.5 - 117.6m) indicating the mineralization does extend between the Lerwick and Main Zones.

#### CONCLUSIONS

The drilling confirmed the presence further mineralization between the Lerwick, Main and West Zones and extended the down dip extension of the mineralization in the Main Zone.

ASSESSMENT DETAILS

PROPERTY: Jackpot Property (Jamesonite and Jackpot Claims)

PROVINCE: British Columbia

MINING DIVISION: Nelson

LOCATION: Southeast of Ymir 82F/3E, 6E

OWNER/OPERATOR: New Jersey Zinc Explorations Co.  
(Canada) Ltd.

CORE SIZE: NQ (4.73 cm or 1 7/8 inches)

NUMBER OF DRILL HOLES: 3

NUMBER OF FEET DRILLED: 486.7 m (1597 feet)

OPERATING DATES: July 28 to August 3rd, 1982 (Drill Crew)  
July 28 to August 8th, 1982 (NJZ Crew)

CORE STORAGE: in a core shack near the entrance of the  
4100 level adit (see Figure 2).

OPERATING MAN DAYS: Drill crew (includes double shift) : 22

NJZ : 24

TRAVEL MAN DAYS : 2.5 (DRILL CREW)

DRAFTING MAN DAYS : 1

OFFICE MAN DAYS: 5.5

TOTAL MAN DAYS : 55

TOTAL EXPENDITURE \$ 42,157.43

GEOLOGIST/Supervisor

W. D. Bond : 137 Alfred Avenue, City of North York,  
Ontario

PERSONNEL

TEMPORARY STAFF

J. R. FOSTER - 3477 Glen Erin Drive, #54, Mississauga  
Ontario

W. J. McGuinty - 45 Southpark Drive, Ottawa, Ontario

DRILLING CREW

4 persons from Frontier Drilling Ltd. - 10 Moberly  
Road, Winfield, B.C. VOH - 2CO

STATEMENT OF COSTS

Drilling Costs

Footage cost:	1597 feet at 17.70/foot	=	28,266.90
Drill Man Hours:	40 at 25.00/man/hour	=	1,000.00
Drill hours (Standby Rate):	13 hours at 35.00/hour	=	455.00
Travel Time:	20 man hours at \$ 25.00/hour	=	500.00
Truck Rental: (drilling crew)	24 man hours at 4.00/hour	=	96.00
Tractor Rental:	17 hours at 35.00/hour	=	595.00
Equipment Consumed (drill rods, drill bits, casing rods, casing shoes etc. oil)		=	2,135.81
Drilling Mud:		=	1,172.32
Dip Tests:	6 at 60.00 each	=	360.00
Core Boxes:	81 (20.0 feet/box) at 6.90/box	=	558.90
			<hr/>
	SUBTOTAL (1)	= \$	35,139.93

Field Costs (NJZ)

Accommodation:	2 persons at 24.50/night x 12 nights	=	588.00
	1 person (supervisor)x3 nights	=	73.50
Meals:	2 persons at 23.00/day x 12 days	=	552.00
	1 person (supervisor)x3 days x 23	=	69.00
Truck Rental:	12 days x 60.00/day (all inclusive)	=	720.00
Core Storage:	equipment (wood, metal rods)	=	250.00
Equipment:	hammers, metal core box tags, sample bags etc.	=	200.00
Assaying:	189 analysis at 8.00/analysis	=	1,512.00
Shipping, telephone, postage etc.		=	300.00
Wages:	geologist 90.00/day x 12 days	=	1,080.00
	core splitter assistant 65.00 / day x 12	=	780.00
	supervisor 3 days at 130.00/day	=	390.00
			<hr/>
	SUBTOTAL (2)		6,514.50

OFFICE COSTS

typing services 4 days at 50.00/day		=	200.00
report writing 1 1/2 days at 130.00/day		=	195.00
drafting 1 day at 85.00/day		=	85.00
miscellaneous (copying, equipment)		=	25.00
			<hr/>
	SUBTOTAL (3)		505.00
	TOTAL COSTS		<hr/> <hr/> 42,159.43

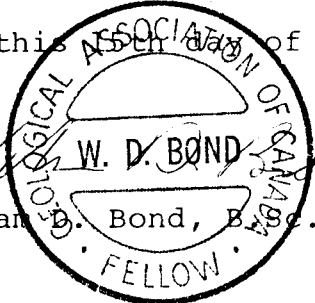


CERTIFICATE

I, William D. Bond, of the City of North York Province of Ontario, do hereby certify that:

1. I am a geologist residing at 137 Alfred Avenue, City of North York, Ontario;
2. I am a graduate of the University of Waterloo (1970) - Hons. B.Sc., Degree and the University of Manitoba (1973) M.Sc., Degree;
3. I am a Fellow of the Geological Association of Canada;
4. I have been practising my profession for thirteen (13) years;
5. The statements made in this report are based on private unpublished and published reports. The diamond drill data is new data acquired by New Jersey Exploration Co. (Canada) Ltd. during the period July 28 to August 3, 1982.

Dated at Mississauga, Ontario this 15th day of December, 1982.

  
William D. Bond, B.Sc., M.Sc.

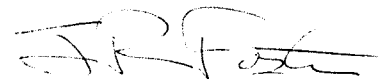
CERTIFICATE

I, James R. Foster, of the City of Mississauga Province of Ontario, do hereby certify that:

1. I am a geologist residing at 3477 Glenn Erin Drive, Unit 54, City of Mississauga, Ontario;
2. I am a graduate of the University of Waterloo (1979) - Hons. B.Sc., Degree;
3. I am an Associate Member of the Geological Association of Canada;
4. I have been practising my profession for seven (7) years;

5. The statements made in this report are based on private unpublished and published reports. The drill data is new data acquired by New Jersey Zinc Exploration Co (Canada) Ltd. during the period July 28 to August 3, 1982.

Dated at Mississauga, Ontario this 15th day of December 1982.



James R. Foster, B.Sc.

REFERENCES

- Drysdale, C.W.  
1917: Ymir Mining Camp, British Columbia  
Geological Survey Canada Mem. 94;  
Accompanied by Map 175A (Ymir, Kootenay  
District), Scale 1:63, 360.
- Fyles, J.T. and Hewlett, C.G.  
1959: Stratigraphy and Structure of the Salmo  
Lead-Zinc Area, B.C. Department of Mines  
Bulletin No. 41, 162 p.
- Little, H.W. Nelson Map-area West Half, British Columbia  
1960: G.S.C. Memoir 308 p.  
Accompanied by Map 1090 A (Nelson)  
Scale 1:253.440 (1 inch to 4 miles)
- 1965: Salmo Map Area British Columbia;  
G.S.C. map 1145A, Scale 1:63, 360 (1  
inch to 1 mile).
- Walker, J.F. Geology and Mineral Deposits of Salmo  
1934: Map-area, British Columbia, Geological  
Survey Canada Mem. No. 172, Accompanied  
by Map 299A (Salmo Sheet) Scale 1 inch to  
1 mile or 1:63, 360.

APPENDIX

Hole JP82-12A

Hole JP82-13

Hole JP82-14

CODE TO DRILL LOGS

C.A. = core axis  
ft = feet  
gal = galena  
Pb = lead  
po = pyrrhotite  
py = pyrite  
sph = sphalerite

# DIAMOND DRILL RECORD

NAME OF PROPERTY JACKPOT  
 HOLE NO. JP82-12A LENGTH 542.0 ft  
 LOCATION 049° AZ for 188 ft from DDHJ12; West Zone  
 LATITUDE \_\_\_\_\_ DEPARTURE \_\_\_\_\_  
 ELEVATION \_\_\_\_\_ AZIMUTH 309° DIP -83°  
 STARTED JULY 28, 1982 FINISHED JULY 30, 1982

Uncorrected			Corrected		
FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH
0	-83°	309°	0	-83°	309°
200	-85°		200	-83°	
542	-80°		542	-81°	

HOLE NO. JP82-12A SHEET NO. 1  
 REMARKS Drilled from JP82-12  
setup at same Azimuth but dip of  
83°  
 LOGGED BY J.R. FOSTER

FOOTAGE		DESCRIPTION	SAMPLE		ASSAYS			
FROM	TO		Zn	Pb	Ag	Au		
0	4.0	CASING						
4.0	8.8	CHERT (REEVES FM UNIT 4a) - pale mauve colour, similar to chert at top of JP82-12. - wollastonite bands are present, oriented at 85-90° to C.A.						
8.8	21.4	LIMESTONE (REEVES FM UNIT 4a) - fine to medium grained with minor coarse grained marble sections. - very well banded on 1 - 10cm scale, with numerous 1mm black carbonaceous laminae in medium grey fine grained limestone bands. - wollastonite bands are present, generally oriented at 85° - 90° to C.A. 14.0 - 15.0 ft - wollastonite section 17.0 ft - banding at 85° to C.A. 21.4 ft - lower contact set at disappearance of white limestone bands; contact at 70° to C.A.						

# DIAMOND DRILL RECORD

NAME OF PROPERTY JACKPOT

HOLE NO. JP82-12A

SHEET NO. 2 of 7

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS				
FROM	TO		NO.	SULPHIDES	FOOTAGE		Zn	Pb	Ag	Au
					FROM	TO	%	%	OZ TON	OZ TON
21.4	35.8	<p>LIMESTONE/DOLOMITIC LIMESTONE (REEVES FM UNIT 4a)</p> <ul style="list-style-type: none"> <li>- fine grained light to medium grey; limestone is found in greater quantity than dolomitic limestone, chert bands are rare.</li> <li>- unit is distinguished by numerous contorted and brecciated carbonaceous laminae and bands up to 1cm wide.</li> <li>- overall sulphide content is less than 1%.</li> </ul> <p>31.0 - 31.3 ft - limestone/chert band with 10% sph and py in tension fractures; overall Zn content from 30.0 - 33.0 ft estimated less than 1%.</p> <p>35.8 ft - lower contact set where carbonaceous laminae become rare; contact at 65' to C.A.</p>								
35.8	53.5	<p>DOLOMITIC LIMESTONE (REEVES FM UNIT 4b)</p> <ul style="list-style-type: none"> <li>- fine grained, light to medium grey, vaguely banded.</li> <li>- carbonaceous patches present, but rare.</li> <li>- overall sulphide content less than 1%, only py recognized.</li> </ul> <p>47.0 ft - banding at 40' to C.A.</p> <p>53.5 ft - contact set at reappearance of abundant carbonaceous material.</p>								
53.5	90.3	<p>DOLOMITE (REEVES FM UNIT 4b)</p> <ul style="list-style-type: none"> <li>- fine grained, light grey, some calcareous patches and bands present.</li> <li>- carbonaceous laminae are generally contorted or brecciated, decrease in size and number downhole disappear after 83.0 ft.</li> <li>- serpentine - rich bands appear from 63.0 to 78.0 ft.</li> <li>- overall sulphide content is less than 1%, but is locally concentrated up to 30 - 40% over short core lengths; sulphides are generally found as massive and semi-massive bands rather than as disseminations.</li> </ul>								

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# DIAMOND DRILL RECORD

NAME OF PROPERTY \_\_\_\_\_ JAC

HOLE NO. JP82-12A

SHEET NO. 3 of 7

FOOTAGE		DESCRIPTION	SAMPLE			Zn	Pb	ASSAYS		Au
FROM	TO		NO	SULPHIDES	FOOTAGE			%	GZ TON	
					FROM	TO	TOTAL			GZ TON
		<ul style="list-style-type: none"> <li>- banding tends to be weak or non-existent over much of unit</li> </ul>								
	68.0 ft	- banding at 50° to C.A.								
	70.0 - 73.0 ft	<ul style="list-style-type: none"> <li>- sulphides increasing to 8 - 9% overall, best section is from 71.9 to 72.9 ft with 30 - 40% po, py and sph; overall Zn estimated at 1 - 2%; sulphide bands oriented at 45° to C.A.</li> </ul>								
	73.0 - 90.3 ft	<ul style="list-style-type: none"> <li>- sulphides decrease to less than 1% overall, some 5-6mm bands of massive py + po occur at 79.0 - 82.0 ft.</li> </ul>								
	79.0 - 79.7 ft	- several oxidized fractures present.								
	85.5 - 85.7 ft	- oxidized fracture.								
	90.3 ft	- contact obscured by broken core; does not appear to be fault zone, but normal intrusive contact.								
90.3	119.5	<b>FELDSPAR PORPHYRY</b> <ul style="list-style-type: none"> <li>- similar to porphyry in JP82-12</li> <li>- contains numerous inclusions and intrusions of diorite and trondhjemite.</li> </ul>								
	107.1 - 107.4 ft	- fault filled with vuggy weakly calcareous altered diorite (?)								
	119.5 ft	- lower contact at 75° to C.A.								
119.5	139.8	<b>DIORITE</b> <ul style="list-style-type: none"> <li>- medium grained, massive; CI = 25 - 30</li> <li>- becomes fine grained, contains quartzite inclusions near lower contact</li> </ul>								
	139.8 ft	- lower contact at 85° to C.A.								

LANGRISHES - TORONTO - 366-1168



# DIAMOND DRILL RECORD

NAME OF PROPERTY: JACKPC

HOLE NO. JP82-12A

SHEET NO. 4 of 7

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS					
FROM	TO		NO	SULPHIDES	FOOTAGE			Zn	Pb	Ag	Au
					FROM	TO	TOTAL				
139.5	285.0	<p>QUARTZITE - (RENO FM)</p> <ul style="list-style-type: none"> <li>- fine grained, dark grey to black.</li> <li>- quartzite is well bedded; beds are defined by black argillaceous partings; some dark green weakly calcareous beds are present beds are 1-2cm wide or less, but some more massive sections occur downhole.</li> <li>- sulphide content is 1 - 2% overall, appears to be almost entirely py as fracture coatings and mixed in with argillaceous partings; some po is also present.</li> </ul> <p>148.5 ft - bedding at 40° to C.A.</p> <p>160.8 ft - possible nose of fold</p> <p>161.0 - bedding at 45° to C.A.</p> <p>169.6 - 170.3 ft - garnets present</p> <p>186.0 ft - black argillaceous partings at 35° to C.A.</p> <p>200.0 ft - bedding at 55° to C.A.</p> <p>215.0 ft - bedding at 45° to C.A.</p> <p>225.0 ft - bedding at 85° to C.A.</p> <p>230.0 - 285.0 ft - bedding becomes contorted and brecciated locally; generally bedding is at 80 - 90° to C.A.</p> <p>241.0 - 253.0 ft - dirty wacke unit, weakly calcareous.</p> <p>268.5 - 285.0 ft - narrow trondhjemitic dykes intrude quartzite parallel to bedding planes; dykes are 0.1 - 0.5 ft wide; lower contact of quartzite marked by dyke.</p> <p>285.0 ft - lower contact obscured by blocky core, may be fault</p>									

# DIAMOND DRILL RECORD

NAME OF PROPERTY \_\_\_\_\_ JACK

HOLE NO. JP82-12A

SHEET NO. 5 of 7

FOOTAGE		DESCRIPTION	SAMPLE			Zn	Pb	ASSAYS	
FROM	TO		NO.	SULPHIDES	FOOTAGE			Ag	Au
					FROM	TO	TOTAL		
285.0	295.0	DOLOMITE (REEVES FORMATION UNIT 4b) - fine to medium grained, white to light grey, weakly banded at 60° to C.A. - overall sulphide content is 1 - 2%, confined to massive and semi-massive bands and laminae 1 - 30mm wide; only po, py and sph present. 285.0 - 288.3 ft - overall 2% sulphides, Zn estimated less than 0.5%, best sulphide concentration is 10% from 287.5 - 288.3 ft. 288.3 - 292.0 ft - overall 1% sulphides, mostly sph, po and rare py; Zn estimated less than 0.5%. 292.0 - 295.0 ft - up to 1% sulphides, mostly disseminated sph, Zn less than 0.5%.							
295.0	364.9	DOLOMITIC LIMESTONE (REEVES FORMATION UNIT 4b) - distinguished from above dolomite by appearance of brecciated carbonaceous patches, greater sulphide content, and stronger HCl reaction. - sulphides are present in bands, patches and as disseminations; overall sulphide content is 5% from 295.0 - 305.5 and up to 1-2% from 305.0 - 309.0 ft; only po, py, sph and rare galena recognized. 295.0 - 298.8 ft - 7% sulphides, mostly po, sph, py and rare galena; Zn estimated up to 1%. 298.8 - 302.7 ft - 5% sulphides, Zn estimated less than 1%; sulphide banding oriented at 60° to C.A. 302.7 - 305.5 ft - 3% sulphides, Zn less than 1%. 305.5 - 309.0 ft - 2% sulphides, Zn less than 1%.							

# DIAMOND DRILL RECORD

 NAME OF PROPERTY: JACKPOT

 HOLE NO. JP82-12A

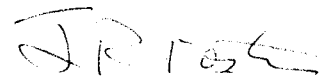
 SHEET NO. 6 of 7

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS					
FROM	TO		NO.	% SULPHIDES	FOOTAGE			Zn	Pb	Ag	Au
					FROM	TO	TOTAL	%	%	OZ TON	OZ TON
		309.0 - 314.0 ft									
		314.0 - 317.2 ft									
		317.2 - 320.5 ft									
		335.5 - 3355 ft									
		335.5 - 364.9 ft									
		364.9 ft									
364.9	398.1	SKARN (TRUMAN FORMATION) - very well laminated and banded; bands are brown biotite-rich, green amphibole-rich or white quartz-rich; banding is at 50° to C.A. - numerous narrow trondhjemite dykelets intrude skarn concordantly or slightly discordantly. - amphibole-rich skarn becomes dominant downhole, possibly indicating volcanic provenance.									
		296.9 - 398.1 ft									
398.1	483.3	LIMESTONE/DOLOMITIC LIMESTONE (REEVES FM UNIT 4b) - medium grained, light to dark grey, dark grey sections have considerable carbonaceous material. - banding from 398.1 - 410.8 ft is contorted indicating strong folding.									

# DIAMOND DRILL RECORD

NAME OF PROPERTY: JAC

HOLE NO. JP82-12A SHEET NO. 7 of 7

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS					
FROM	TO		NO	% SULPHIDES	FOOTAGE			Zn	Pb	Ag	Au
					FROM	TO	TOTAL	oz ton	oz ton	oz ton	oz ton
		<ul style="list-style-type: none"> <li>- sulphide content generally is much less than 1% overall</li> <li>405.7 - 406.0 ft - siliceous band at 55° to C.A., features mauve siliceous patches and wollastonite.</li> <li>408.9 ft - massive sph band up to 0.5 cm wide oriented at 45° to C.A.</li> <li>421.0 ft - vague banding at 55° to C.A.</li> <li>447.0 ft - vague banding at 60° to C.A.</li> <li>458.0 ft - banding at 45° to C.A.</li> <li>472.0 ft - banding at 50° to C.A.</li> <li>483.3 ft - lower contact at 45° to C.A.</li> </ul>									
483.3	505.2	LIMESTONE (REEVES FM UNIT 4c) <ul style="list-style-type: none"> <li>- medium to coarse grained massive marble; white and light grey, no carbonaceous material is present; sulphide content much less than 1%.</li> <li>- vague banding is locally present at 40° to C.A.</li> <li>- some fine grained limestone sections appear near lower contact; contact set at disappearance of marble sections.</li> <li>505.2 ft - contact at 60° to C.A.</li> </ul>									
505.2	542.0	DOLOMITIC LIMESTONE (REEVES FM UNIT 4b) <ul style="list-style-type: none"> <li>- fine grained, light to medium grey, some carbonaceous patches are present locally.</li> <li>- some medium and coarse grained sections and bands are present.</li> <li>- grain size increase downhole.</li> <li>- sulphide content is much less than 1%.</li> <li>517.0 ft - banding at 70° to C.A.</li> <li>530.0 ft - banding at 60° to C.A.</li> </ul>									
542.0		END OF HOLE 									

LANGRIDDGES - TORONTO 366 1168

# DIAMOND DRILL RECORD

NAME OF PROPERTY JACKPOT  
 HOLE NO. JP82-13 LENGTH 525.0 ft  
 LOCATION AZ 179° FOR 151 FT FROM DDH J-7; MAIN ZONE  
 LATITUDE \_\_\_\_\_ DEPARTURE \_\_\_\_\_  
 ELEVATION \_\_\_\_\_ AZIMUTH 309° DIP -50.5°  
 STARTED JULY 31, 1982 FINISHED AUGUST 1, 1982

Uncorrected			Corrected		
FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH
0	-50.5°	309°	0	-50.5°	309°
250	-55°		250	-49°	
525	-54°		525	-48°	

HOLE NO. JP82-13 SHEET NO. 1  
 REMARKS \_\_\_\_\_  
 LOGGED BY J.R. FOSTER

FOOTAGE		DESCRIPTION	SAMPLE				
FROM	TO		Zn	Pb	Ag	As	Au
0	15.0	CASING					
15.0	88.5	GABBRO - medium grained, subtly feldspar porphyritic; mafic content 35 - 40% biotite and amphibole. - minor siliceous granitoid dykelets intrude gabbro 38.2 - 38.5 ft - granitoid dyke oriented at 45° to C.A. 42.0 - 43.0 ft - broken core, possible fracture 45.0 - 47.5 ft - broken core, possible fracture 84.1 - 84.3 ft - granitoid dyke at 90° to C.A. 88.5 ft - lower contact at 60° to C.A.					
88.5	96.2	MAFIC LAMPROPHYRE - porphyritic; biotite phenocrysts up to 3mm are in a very fine grained massive matrix. - lower contact obscured by blocky core.					
96.2	159.9	GABBRO - similar to above gabbro 134.6 - 135.3 ft - granitoid dyke at 50° to C.A.					

# DIAMOND DRILL RECORD

NAME OF PROPERTY: JACKPOT

HOLE NO: JP82-13

SHEET NO. 2 of 11

FOOTAGE		DESCRIPTION	SAMPLE			Zn	Pb	ASSAYS	
FROM	TO		NO	SULPHIDES	FOOTAGE	%	%	Ag	Au
				FROM	TO	TOTAL	oz TON	oz TON	
		145.6 - 147.3 ft	-	altered gabbro, probable fault zone, biotite is totally altered to chlorite (?) feldspar are weakly carbonatized, matrix is oxidized.					
		150.0 - 151.2 ft	-	pegmatitic quartz and feldspar dyke on half of core, orientation is highly irregular.					
		159.9 ft	-	lower contact appears slightly chilled oriented at 65° to C.A.					
159.9	173.8	WACKE (RENO FM)	-	relatively siliceous dirty greywacke with quartzite laminae up to 0.5 cm wide.					
			-	laminae in wacke are highly contorted, often brecciated, indicating very strong folding					
			-	wacke is fine grained, medium to dark grey, usually biotite-rich in dark laminae.					
			-	sulphide content is much less than 1%.					
		173.6 - 173.8 ft	-	possible breccia zone, may be primary intraformational conglomerate with quartzitic clasts in biotite-rich matrix.					
		173.8 ft	-	contact oriented at 80° to C.A.					
173.8	184.6	DIORITE/GABBRO	-	chilled upper and lower contacts					
			-	intrusion is slightly less mafic than preceding gabbros.					
		184.6 ft	-	lower contact at 85° to C.A.					

LANGRIGES - 1660110 - 356 1168

# DIAMOND DRILL RECORD

NAME OF PROPERTY JACKPOT  
 HOLE NO. JP82-13 SHEET NO. 3 OF 11

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS				
FROM	TO		NO.	% SULPHIDES	FOOTAGE		Zn	Pb	Ag	Au
					FROM	TO	TOTAL	%	%	OZ TON
184.6	189.7	TRONDHJEMITE - medium grained, contains numerous biotite-rich inclusions. 189.7 ft - lower contact at 90° to C.A.								
189.7	203.6	QUARTZITE (RENO FM) - well recrystallized, very siliceous, minor biotite-rich laminae often well brecciated; in general laminae are too contorted or brecciated for reliable bedding angle determinations. - sulphide content much less than 1%, only po recognized. 203.6 ft - lower contact at 40° to C.A.								
203.6	206.3	TRONDHJEMITE - similar to above trondhjemite, but with few inclusions 206.3 ft - lower contact at 50° to C.A.								
206.3	243.8	QUARTZITE (RENO FM) - similar to unit at 189.7 - 203.6 ft, but considerably less contorted and brecciated. - bedding is at low angle to C.A.; beds are 1 cm to 10 cm wide (true thickness). - sulphide content is much less than 1% 213.0 - 227.0 ft - wacke interbeds become common, bedding is at 20° to C.A. 228.0 ft - bedding sub-parallel to C.A. 236.6 ft - possible intraformational conglomerate or breccia, clasts are pebble sized, bed oriented at 25° to C.A. 243.8 ft - contact set at first appearance of trondhjemite dykelets; contact is very irregular.								

LANGRISHES - TORONTO - 366-1168

# DIAMOND DRILL RECORD

NAME OF PROPERTY: JACKPO  
 HOLE NO. JP82-13 SHEET NO. 4 of 11

FOOTAGE		DESCRIPTION	SAMPLE			Zn	Pb	ASSAYS		Au	
FROM	TO		NO.	SULPHIDES	FOOTAGE			%	%	OZ TON	OZ TON
					FROM	TO	TOTAL				
243.8	249.8	HYBRID TRONDHJEMITE/WACKE MIXED UNIT - numerous trondhjemite dykes with biotite-rich wacke inclusions. - lower contact is essentially gradational from mafic-poor trondhjemite to silicified mafic-free skarn; actual contact is extremely irregular, oriented at 20° to C.A.									
249.8	259.0	DOLOMITE (REEVES FM UNIT 4b) - white, fine grained, massive - upper 0.5 ft of dolomite is a well silicified skarn - overall sulphide content is 1 - 2%; most sulphides are concentrated at 249.8 - 251.2 ft. 249.8 - 251.2 ft - overall sulphide content is 4 - 5%; Zn estimated to be 1 - 2%; sph, py and rare galena are present. 251.2 - 259.0 ft - overall sulphide content drops to 1% or less, mostly finely disseminated sph and py. 259.0 ft - lower contact oriented at 70° to C.A.; may be fracture zone or fault.									
259.0	266.0	ANDESITIC DYKE - very fine grained, no phenocrysts; dark purple-brown colour; talc is developed on fracture surfaces. - overall sulphide content is 1 - 2%, mostly py with lesser po confined to fracture surfaces. 266.0 ft - lower contact at 40° to C.A.									



# DIAMOND DRILL RECORD

 NAME OF PROPERTY JACKP

 HOLE NO. JP82-13

 SHEET NO. 5 of 11

FOOTAGE		DESCRIPTION	SAMPLE			Zn	Pb	ASSAYS		Au
FROM	TO		NO.	% SULPHIDES	FOOTAGE		%	%	OZ TON	OZ TON
					FROM	TO				
266.0	275.0	TRONDHJEMITE - similar to hybrid unit at 243.8 - 249.8 ft, but with less wacke inclusions. 275.0 ft - contact appears gradational with silicified calcareous skarn, arbitrarily set at last wacke inclusion; oriented at 50° to C.A.								
275.0	358.3	LIMESTONE (REEVES FM UNIT 4c) - fine to medium grained, white; well laminated on 1-5mm scale, laminations disappear downhole in medium grained limestone. - sulphides are extremely rare. 275.0 - 280.0 ft - calcareous skarn with several well laminated siliceous calc-silicate skarn sections. 280.0 - 295.6 ft - well laminated limestone laminae at 55° to C.A. 295.6 - 304.6 ft - massive medium grained limestone 296.3 - 296.5 ft - wollastonite-rich band 303.6 - 303.9 ft - wollastonite-rich band at 80° to C.A. 304.6 - 316.9 ft - laminated limestone, laminae at 70° to C.A. 316.9 - 332.0 ft - coarse grained massive marble, no sulphides 354.0 - 358.3 ft - coarse grained massive marble 358.3 ft - lower contact at 60° to C.A.								
358.3	366.2	DOLOMITIC LIMESTONE/LIMESTONE (REEVES FM UNIT 4b) - fine to medium grained, less dolomitic toward lower contact; medium to dark grey - sulphide content 2%, increases to 6% po + py at lower contact.								

LANGRIDDGES - TORONTO - 366-1168

# DIAMOND DRILL RECORD

NAME OF PROPERTY JACKPOT  
 HOLE NO. JP82-13 SHEET NO. 6 of 11

FOOTAGE		DESCRIPTION
FROM	TO	
		358.3 - 363.2 ft - 2% sulphides, mostly po, py rare sph
		363.2 - 366.2 ft - 6% sulphides, only po and py recognized.
366.2	385.3	LIMESTONE/DOLOMITIC LIMESTONE (REEVES FM UNIT 4b) - medium grained, light grey; overall sulphide content drops to less than 1%; only sph, py and po recognized.
		373.0 - 376.0 ft - sph content increases to 2% Zn estimated at 1%, massive sph seam 1 cm wide at 373.2 ft.
		382.0 - 385.3 ft - sulphide content is 1-2%, Zn estimated less than 1%, sulphide bands are at 80° to C.A.
385.3	432.5	DOLOMITE (REEVES FM UNIT 4b) - medium grained, white to light grey, massive - occasional calcareous patches are present - sulphides are irregularly distributed into bands of massive or semi-massive mineralization; bands are up to 3cm wide with 20 - 100% sulphides - sulphides are mostly py, po, sph and rare galena; both blue-black and honey coloured sph are present
		385.3 - 388.0 ft - 3% py, po, sph; less than 1% Zn; sulphide bands are at 85° to C.A.; sky blue talc appears on some fracture faces
		388.0 - 391.0 ft - 1% po, sph, py; less than 1% Zn; sulphide bands at 70-85° to C.A.; extremely rare galena present.

# DIAMOND DRILL RECORD

NAME OF PROPERTY JACKP  
 HOLE NO. JP82-13 SHEET NO. 7 of 11

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS				
FROM	TO		NO.	SULPHIDES	FOOTAGE		Zn	Pb	Ag	Au
					FROM	TO	%	%	OZ TON	OZ TON
	391.0 - 394.0 ft	- less than 1% po, py, sph; Zn is much less than 1%.								
	394.0 - 397.0 ft	- 2% po, sph, py; Zn increases but still less than 1%.								
	397.0 - 400.0 ft	- 1% po, sph, py; Zn content decreases to much less than 1%.								
	400.0 - 403.5 ft	- 10% py and sph; dolomite is replaced by calcite in sulphide rich sections, Zn content is up to 1% overall.								
	403.5 - 408.3 ft	- very calcareous; sulphides are py and sph, no po present; 30% sulphides overall arranged in semi-massive bands; estimated 7-8% Zn; bands are oriented at 80° to C.A.								
	408.3 - 411.8 ft	- 6% py and sph overall; host rock is dolomitic but more calcareous in close proximity to sulphides; Zn content is 1 - 2%.								
	411.8 - 419.5 ft	- sulphides drop to less than 1%; mostly sph and minor py in narrow seams at 80° to C.A.								
	419.5 - 421.9 ft	- 3% py and sph, Zn up to 1%, sulphide banding at 85° to C.A.								
	421.9 - 425.2 ft	- 35% sph and py in semi-massive to massive mineralized bands at 90° to C.A.; Zn content is 8 - 10%.								
	425.2 - 432.5 ft	- oxidized fault zone, rods dropped 5 ft; Zn content estimated 8 - 10% in recovered core.								

# DIAMOND DRILL RECORD

NAME OF PROPERTY, JACKPOT

HOLE NO. JP82-13 SHEET NO. 8 of 11

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS				
FROM	TO		NO.	% SULPHIDES	FOOTAGE		Zn	Pb	Ag	Au
					FROM	TO	TOTAL	oz ton	oz ton	oz ton
432.5	451.5	LIMESTONE (REELVES FM UNIT 4b) - white, medium grained, occasional barren white dolomitic sections. - sulphides content variable, arranged in bands and local concentrations of semi-massive to massive py and sph; both blue-black and honey sph are present. 432.5 - 435.2 ft - 5% sph and py; Zn is 1% overall, sulphides are in bands and disseminations, bands are at 75° to C.A. 435.2 - 438.1 ft - 5% py and sph, first appearance of galena as disseminations and in fractures; Zn decreases to less than 1%, Pb is less than 1%. 438.1 - 440.3 ft - 10% py and sph, rare galena; sph is present mostly as discrete disseminated grains rather than in seams or bands; Zn is 2 - 3% overall, Pb less than 1%. 440.3 - 442.9 ft - up to 1% py and sph in massive dolomite section. 442.9 - 444.5 ft - 10% sph + py overall, galena is rare to absent, Zn is 3-4%; sph appears as both blue-black and honey coloured varieties, but latter is becoming rare; sulphide banding is at 65° to C.A.								

# DIAMOND DRILL RECORD

NAME OF PROPERTY JACKPOT

HOLE NO. JP82-13 SHEET NO. 9 of 11

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS					
FROM	TO		NO.	SULPHIDES	FOOTAGE			Zn	Pb	Ag	Au
					FROM	TO	TOTAL	%	%	OZ TON	OZ TON
		444.5 - 448.2 ft									
		448.2 - 451.5 ft									
		451.5 ft									
451.5	467.3	DOLOMITE (REEVES FM UNIT 4b) - fine to medium grained vaguely colour banded due to local weak concentrations of disseminated sulphides and other dark impurities. - overall sulphide content is less than 1% mostly po with lesser sph and py sulphides are weakly concentrated in bands as disseminated grains or as massive fracture fillings less than 1 cm wide. - both blue-black and honey coloured sphalerite are present. 467.3 ft - vague contact at 75° to C.A.									
467.3	480.3	DOLOMITIC LIMESTONE (REEVES FM UNIT 4b) - similar to above dolomitic but more calcareous - white fine to medium grained vaguely banded - sulphide content increases locally to 3.4% 467.3 - 470.3 ft - 3-4% po, sph and py; Zn is up to 1% only blue-black, Sph is present weak banding at 80° to C.A.									

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# DIAMOND DRILL RECORD

NAME OF PROPERTY JACKPOT  
 HOLE NO. JP82-13 SHEET NO. 10 of 11

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS				
FROM	TO		NO	SULPHIDES	FOOTAGE		Zn %	Pb %	Ag OZ TON	Au OZ TON
					FROM	TO				
		470.3 - 473.7 ft								
		- 3 - 4% po, sph and py; Zn is up to 1% sulphides are concentrated into diffuse bands oriented at 80° to C.A.								
		473.7 - 480.3 ft								
		- sulphide content drops to less than 1%.								
		479.7 - 480.3 ft								
		- coarse marble band marks lower contact at 70° to C.A.								
480.3	502.7	DOLOMITE (REEVES FM UNIT 4b)								
		- white medium grained massive to very weakly banded								
		- sulphide content is irregularly distributed locally is concentrated up to 30% over short core lengths, overall sulphide content is 1 - 3%.								
		480.3 - 487.1 ft								
		- less than 1% sulphides								
		487.1 - 489.7 ft								
		- 3% sph and po and lesser py, Zn up to 1% sulphide banding at 80° to C.A.								
		489.7 - 490.9 ft								
		- much less than 1% sulphides								
		490.9 - 493.2 ft								
		- 2% sulphides less than 1% Zn banding at 50° to C.A.								
		493.2 - 495.7 ft								
		- barren dolomite								
		495.7 - 498.1 ft								
		- 6% sulphides mostly po, py and minor sph Zn less than 1% sulphide banding at 60° to C.A.								
		498.1 - 500.5 ft								
		- 4% sulphides mostly po, sph with minor py, Zn up to 1% prominent 1 - 2 cm wide sulphide band at 170° to C.A. normal banding at 60° to C.A.								
		502.7 ft								
		- vague contact at 60° to C.A.								

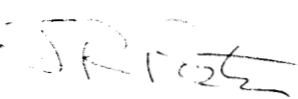
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# DIAMOND DRILL RECORD

JACKPOT

NAME OF PROPERTY \_\_\_\_\_

HOLE NO. JP82-13 SHEET NO. 11 of 11

FOOTAGE		DESCRIPTION	SAMPLE			Zn	Pb	ASSAYS	
FROM	TO		NO	SULPHIDES	FOOTAGE			Ag	Au
					FROM	TO	TOTAL		
502.7	525.0	DOLOMITIC LIMESTONE (REEVES FM UNIT 4b) - white medium grained massive slightly more calcareous than preceding dolomite. - sulphides irregularly distributed overall content is up to 1% sph, po and py with very rare galena. 502.7 - 505.5 ft - less than 1% sulphides mostly sph with minor py and po. 505.5 - 507.5 ft - 2-3% py, sph and po; Zn content is 0.5 - 1%. 507.5 - 509.8 ft - much less than 1% sulphides. 509.8 - 513.8 ft - 2% sulphides mostly sph with lesser py, po and rare galena, weak sulphide banding at 30° to C.A. 513.8 - 524.5 ft - sulphides decrease to much less than 1%. 524.5 - 524.8 ft - fracture zone with limy mud. 524.8 - 525.0 ft - dolomitic limestone.							
525.0		END OF HOLE 							

LANGRIDDGES - TORONTO - 366 1168

# DIAMOND DRILL RECORD

NAME OF PROPERTY JACKPOT  
 HOLE NO. JP82-14 LENGTH 530.0 ft  
 LOCATION 097° AZ for 104 ft from DDH.7  
 LATITUDE \_\_\_\_\_ DEPARTURE \_\_\_\_\_  
 ELEVATION \_\_\_\_\_ AZIMUTH - DIP 90°  
 STARTED August 1, 1982 FINISHED August 3, 1982

Uncorrected                      Corrected

FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH
0	-90°		0	-90°	
250	-89°		250	-89°	
530	-88°		530	-88°	

HOLE NO. JP82-14 SHEET NO. 1

REMARKS \_\_\_\_\_

LOGGED BY J.R. FOSTER

FOOTAGE		DESCRIPTION	SAMPLE				ASSAYS					
FROM	TO		NO.	% SULPHIDES	FOOTAGE			Zn	Ph	Au	Au	
					FROM	TO	TOTAL	%	%	OZ/TON	OZ/TON	
0	10.0	CASING										
10.0	42.0	CALC-SILICATE SKARN (RENO FM) - strongly metamorphosed sediments, probably dirty quartzarenites and wackes with numerous limy interbeds. - bedding is on 1 - 10mm scale, strongly contorted and dragfolded such that bedding angles to C.A. are extremely variable. - core is very blocky. 10.0 - 26.5 ft                      - very blocky core. 27.0 - 30.5 ft                      - minor quartz vein 1 cm wide parallel to bedding; po is concentrated in skarn host adjacent to vein; bedding varies from 40° to 25° to C.A.										
42.0	63.5	QUARTZITE (RENO FM) - fine grained medium green with some brownish biotite rich brecciated bands.										



# DIAMOND DRILL RECORD

NAME OF PROPERTY: JACKPOT

HOLE NO. JP82-14 SHEET NO. 2 of 11

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS					
FROM	TO		NO	SULPHIDES	FOOTAGE			Zn	Pb	Ag	Au
					FROM	TO	TOTAL	%	%	GT TON	GT TON
		<ul style="list-style-type: none"> <li>- quartzite is weakly mineralized with 1 - 2% py.</li> <li>- locally unit is massive to well laminated, may actually be felsic tuff.</li> <li>- numerous narrow trondhjemitic dykes intrude quartzite, generally parallel to bedding/foliation planes.</li> </ul>									
	45.5 - 50.0 ft	- quartzite appears to be weakly altered to quartz - epidote - muscovite - calcite assemblage; 1-2% py is present									
	50.0 - 63.5 ft	- number of trondhjemitic dykes is increasing downhole, dykes are altered to pale green colour.									
	63.5 ft	- irregular intrusive contact at 30° to C.A.									
63.5	76.0	<b>PEGMATITE</b> <ul style="list-style-type: none"> <li>- coarse grained to pegmatitic, white to pale green.</li> <li>- pale green muscovite appears as single laminae and in blue-green aggregates.</li> <li>- black massive mineral (tourmaline?) up to 1 cm is disseminated sparsely in pegmatite.</li> <li>- lower contact is apparently gradational.</li> </ul>									
76.0	91.0	<b>TRONDHJEMITE</b> <ul style="list-style-type: none"> <li>- medium to coarse grained, locally pegmatitic</li> <li>- white to light grey, massive with numerous brown biotite-rich inclusions; some calcareous quartzite inclusions present.</li> <li>- lower contact obscured by broken core.</li> </ul>									

# DIAMOND DRILL RECORD

NAME OF PROPERTY: JACKPOT

HOLE NO. JP82-14 SHEET NO. 3 of 11

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS				
FROM	TO		NO.	SULPHIDES	FOOTAGE			Zn	Pb	Au
					FROM	TO	TOTAL	%	%	OZ TON
91.0	122.7	<p>CALC-SILICATE SKARN/METASEDIMENT (TRUMAN FM)</p> <ul style="list-style-type: none"> <li>- siliceous, well laminated on 1 - 10mm scale</li> <li>- garnetiferous bands appear from 91.0 to 97.0 ft</li> <li>- most bands are biotite-rich, dark brown</li> </ul> <p>92.0 ft - banding at 40° to C.A.</p> <p>99.0 - 102.0 ft - trondhjemite dykes parallel to banding at 70° to C.A.</p> <p>102.0 - 122.0 ft - quartz rich bands become prominent; banding at 20° to C.A.</p> <p>102.0 - 122.0 ft - quartz rich bands become prominent; banding at 20° to C.A.</p> <p>115.5 ft - garnetiferous bands oriented at 65° to C.A.</p> <p>122.5 - 122.7 ft - contact zone marked by breccia zone of angular quartzite clasts in white calcite matrix; zone oriented at 45° to C.A.</p>								
122.7	130.0	<p>QUARTZITE (RENO FM)</p> <ul style="list-style-type: none"> <li>- very siliceous, dark grey, well laminated on 1mm scale at 55° to C.A.</li> </ul> <p>130.0 ft - lower contact at 60° to C.A.</p>								
130.0	132.6	<p>TRONDHJEMITE</p> <ul style="list-style-type: none"> <li>- medium grained, numerous biotite-rich inclusions</li> </ul> <p>132.6 ft - lower contact at 65° to C.A.</p>								
132.6	180.7	<p>LIMESTONE/CALCAREOUS SKARN (TRUMAN FM)</p> <ul style="list-style-type: none"> <li>- medium grained, light grey, some narrow dark grey argillaceous(?) partings present; unit is well banded.</li> <li>- overall sulphide content is much less than 1%.</li> </ul> <p>132.6 - 137.6 ft - pale green diopside-rich skarn, garnets present; epidote filled fracture present.</p>								

LANGRIDDGES - TORONTO - 366-1168

# DIAMOND DRILL RECORD

NAME OF PROPER. JACKPOT

HOLE NO. JP82-14 SHEET NO. 4 of 11

FOOTAGE		DESCRIPTION	SAMPLE			Zn	Pb	ASSAYS		Au
FROM	TO		NO.	SULPHIDES	FOOTAGE		%	OZ TON	OZ TON	
					FROM	TO				TOTAL
		133.6 - 134.0 ft								
		142.5 ft								
		146.0 - 147.0 ft								
		147.0 - 152.0 ft								
		154.0 - 156.0 ft								
		160.0 ft								
		165.0 ft								
		167.2 - 168.9 ft								
		170.0 ft								
		176.0 ft								
		180.7 ft								
180.7	198.6	SILICEOUS CALC-SILICATE SKARN (TRUMAN FM)								
		- dark purple-brown with occasional light green diopside rich bands well banded at 70° to C.A.								
		185.3 - 186.0 ft								
		- trondhjemite dyke at 70° to C.A. parallel to banding.								

# DIAMOND DRILL RECORD

NAME OF PROPERTY: JACKI

HOLE NO. JP82-14 SHEET NO. 5 of 11

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS				
FROM	TO		NO.	% SULPHIDES	FOOTAGE		Zn	Pb	Ag	Au
					FROM	TO	TOTAL	%	OZ TON	OZ TON
		189.3 ft - 1 cm quartz vein.								
		189.6 - 189.8 ft - trondhemite dyke at 70° to C.A.								
		192.6 - 193.1 ft - trondhemite dyke at 30° to C.A.								
		198.6 ft - lower contact at 70° to C.A.								
198.6	199.2	SILICEOUS SKARN (TRUMAN FM) - pale green, very siliceous, well laminated at 70° to C.A.								
		199.2 ft - lower contact at 70° to C.A. marked by garnetiferous lamination.								
199.2	217.0	LIMESTONE/CALC-SILICATE SKARN (TRUMAN FM) - unit consists of alternating purplish limestone and siliceous dark purple-brown skarn sections								
		212.7 - 212.8 ft - fault gauge								
		217.0 ft - lower contact at 35° to C.A.								
217.0	238.0	LAMPROPHYRE - well chilled margins; dark green, porphyritic with dark green olivine and some skeletal feldspar phenocrysts in a fine grained matrix.								
		238.0 ft - lower contact at 40° to C.A.								
238.0	295.7	DOLOMITIC LIMESTONE (REEVES FM UNIT 4b) - light grey, fine to medium grained, locally weakly banded with carbonaceous bands and laminae. - overall sulphide content is extremely low, only po, py and sph recognized, locally concentrated in bands								
		239.3 - 241.4 ft - calcareous skarn, well laminated at 60° to C.A.; 1 - 2% po + py present.								
		245.0 - 248.6 ft - limestone section with carbonaceous fractures and laminae, 1mm seam of sph at 248.0 ft.								

LANGRIDGES - TORONTO - 366 1168

# DIAMOND DRILL RECORD

NAME OF PROPERTY JACKPOT  
 HOLE NO JP82-14 SHEET NO. 6 of 11

FOOTAGE		DESCRIPTION	SAMPLE			Zn	Pb	ASSAYS		Au	
FROM	TO		NO.	SULPHIDES	FOOTAGE			%	%	OZ TON	OZ TON
					FROM	TO	TOTAL				
	253.7 - 256.5 ft	- limestone section with carbonaceous fractures and laminae, less than 1% sulphides; laminae at 80° to C.A.									
	260.0 - 264.3 ft	- 10% sulphides, mostly py and po with some sph; Zn is up to 1%; best mineralized sections are very calcareous, sulphide bands are at 80° to C.A.									
	264.3 - 267.0 ft	- sulphides drop to 1 - 2%, mostly py, po and rare sph; Zn less than 1%.									
	267.0 - 272.2 ft	- essentially barren dolomitic limestone vaguely banded at 80° to C.A.									
	272.7 - 286.1 ft	- sulphide content rises to 1 - 2% overall, mostly po + py with minor sph in seams and fractures; massive sulphide concentrations occur at 279.9 - 281.1 ft and 284.4 - 284.5 ft; Zn is much less than 1%; narrow carbonaceous fractures accompany sulphides.									
	286.1 - 287.2 ft	- barren dolomite.									
	287.2 - 295.7 ft	- 1 - 2% sulphides mostly po + py with slightly more sph than previous mineralized zone, Zn less than 1% overall, sulphide banding is at 80° to C.A. dolomitic limestone becomes whiter toward lower contact.									

LANGRISHES - TORONTO - 366-1168

# DIAMOND DRILL RECORD

NAME OF PROPERTY: JACKPOT

HOLE NO. JP82-14 SHEET NO. 7 of 11

FOOTAGE		DESCRIPTION	SAMPLE			Zn	Pb	ASSAYS		Au
FROM	TO		NO.	% SULPHIDES	FOOTAGE		%	%	OZ TON	OZ TON
					FROM	TO				
		295.7 ft								
295.7	306.6	LIMESTONE (REEVES FM UNIT 4b) - white, medium grained, weakly dolomitic - sulphide content increases to 3 - 4% overall with 30% sulphides at 303.7 - 305.3 ft; mostly sph + py with minor po and rare galena.								
		295.7 - 299.6 ft								
		299.6 - 303.7 ft								
		303.7 - 306.6 ft								
		306.6 ft								
306.6	388.5	DOLOMITE (REEVES FM UNIT 4b) - light grey to white, medium grained - sulphide content decreases downhole from 5% overall to less than 1%.								

LANGRIDDGES - TORONTO - 366.1168

# DIAMOND DRILL RECORD

NAME OF PROPERTY JACKPOT  
 HOLE NO. JP82-14 SHEET NO. 8 of 11

FOOTAGE		DESCRIPTION	SAMPLE	ASSAYS			
FROM	TO			Zn	Pb	Aq	Au
	306.6 - 310.3 ft	- 5% sulphides, mostly py + po and minor sph; Zn less than 1%; sulphide bands at 65° to C.A.					
	310.3 - 312.8 ft	- 1% sulphides, mostly po & py and rare sph; banding at 65° to C.A.					
	312.8 - 317.2 ft	- essentially barren dolomite					
	317.2 - 326.6 ft	- white almost pure dolomite, 1 - 2% sulphides from 317.2 - 318.0 ft but overall much less than 1%; almost entirely py with minor po and rare sph.					
	326.6 - 331.9 ft	- up to 1% sulphides concentrated in narrow bands at 75° to C.A., mostly po with minor py and sph; Zn much less than 1%.					
	331.9 - 343.3 ft	- limestone bands with carbonaceous patches and fracture fillings appear, sulphide content is much less than 1%.					
	343.3 - 345.5 ft	- 1 - 2% sulphides, mostly sph; Zn is up to 1%.					
	345.5 - 352.6 ft	- essentially barren dolomite.					
	345.5 - 352.6 ft	- essentially barren dolomite					
	352.6 - 356.6 ft	- 3 - 4% sulphides, mostly sph and py with minor po; Zn is up to 1% overall; sulphide banding is at 45° to C.A.					
	356.6 - 360.0 ft	- contorted lcm band of honey sphalerite is folded between 358.0 and 359.3 ft; sulphides are 10% sph + po with minor py; Zn is 2-3% sulphides are associated with calcareous carbon and serpentine bands.					

LANGRISH & TORRINO 9051108

# DIAMOND DRILL RECORD

NAME OF PROPERTY: JACK

HOLE NO. JP82-14

SHEET NO. 9 of 11

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS					
FROM	TO		NO.	SULPHIDES	FOOTAGE			Zn	Pb	Ag	Au
					FROM	TO	TOTAL	%	%	OZ TON	OZ TON
		360.0 - 364.5 ft									
		364.5 - 368.4 ft									
		368.4 - 388.5 ft									
		383.5 - 385.8 ft									
		388.5 ft									
388.5	523.4	DOLOMITIC LIMESTONE/CHERT MIXED UNIT (REEVES FM UNIT 4a) - dolomitic limestone sections are fine grained, light grey well laminated, chert sections are aphanitic white with light green purple or blue tinge vaguely to moderately banded. - overall sulphide content is usually less than 1% and confined to dolomitic limestone.									

LANGRIDDGES - TORONTO - 366-1168



# DIAMOND DRILL RECORD

NAME OF PROPERTY JACKPOT

HOLE NO JP82-14 SHEET NO. 10 of 11

FOOTAGE		DESCRIPTION	SAMPLE			Zn	Pb	ASSAYS		
FROM	TO		NO.	% SULPHIDES	FOOTAGE		%	%	Ag	Au
					FROM	TO			TOTAL	OZ TON
		388.5 - 390.2 ft								
		390.2 - 392.0 ft								
		392.0 - 402.9 ft								
		402.9 - 403.9 ft								
		403.9 - 406.4 ft								
		406.4 - 443.8 ft								
		443.8 - 478.7 ft								

LANGRIDGE - TORONTO - 366 1168

# DIAMOND DRILL RECORD

NAME OF PROPERTY JACKPOT

HOLE NO. JP82-14

SHEET NO. 11 of 11

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS			
FROM	TO		NO.	% SULPHIDES	FOOTAGE		Zn	Pb	Ag
		FROM			TO	TOTAL	%	%	OZ TON
		478.7 - 523.4 ft							
		492.8 - 495.6 ft							
		513.1 - 521.5 ft							
		523.4 ft							
523.4	530.0	TRONDHJEMITE - medium grained granitoid intrusion with numerous dark brown siliceous inclusions.							
530.0		END OF HOLE <i>JR Foster</i>							

LANGRIDGES - TORONTO - 366-1168

# DIAMOND DRILL RECORD

NAME OF PROPERTY JACKPOT  
 HOLE NO. JP82-12A LENGTH 542.0 ft  
 LOCATION 049° AZ for 188 ft from DDHJ12; West Zone  
 LATITUDE \_\_\_\_\_ DEPARTURE \_\_\_\_\_  
 ELEVATION \_\_\_\_\_ AZIMUTH 309° DIP -83°  
 STARTED JULY 28, 1982 FINISHED JULY 30, 1982

Uncorrected			Corrected		
FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH
0	-83°	309°	0	-83°	309°
200	-85°		200	-83°	
542	-80°		542	-81°	

HOLE NO. JP82-12A SHEET NO. 1  
 REMARKS Drilled from JP82-12  
setup at same Azimuth but dip of  
83°  
 LOGGED BY J.R. FOSTER

FOOTAGE		DESCRIPTION	SAMPLE		ASSAYS			
FROM	TO		Zn	Pb	Ag	Au		
0	4.0	CASING						
4.0	8.8	CHERT (REEVES FM UNIT 4a) - pale mauve colour, similar to chert at top of JP82-12. - wollastonite bands are present, oriented at 85-90° to C.A.						
8.8	21.4	LIMESTONE (REEVES FM UNIT 4a) - fine to medium grained with minor coarse grained marble sections. - very well banded on 1 - 10cm scale, with numerous lmm black carbonaceous laminae in medium grey fine grained limestone bands. - wollastonite bands are present, generally oriented at 85° - 90° to C.A. 14.0 - 15.0 ft - wollastonite section 17.0 ft - banding at 85° to C.A. 21.4 ft - lower contact set at disappearance of white limestone bands; contact at 70° to C.A.						

# DIAMOND DRILL RECORD

NAME OF PROPERTY JACKPOT

HOLE NO. JP82-12A

SHEET NO. 2 of 7

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS				
FROM	TO		NO.	% SULPHIDES	FOOTAGE		Zn	Pb	Ag	Au
					FROM	TO	TOTAL	%	%	OZ TON
21.4	35.8	<p>LIMESTONE/DOLOMITIC LIMESTONE (REEVES FM UNIT 4a)</p> <ul style="list-style-type: none"> <li>- fine grained light to medium grey; limestone is found in greater quantity than dolomitic limestone, chert bands are rare.</li> <li>- unit is distinguished by numerous contorted and brecciated carbonaceous laminae and bands up to 1cm wide.</li> <li>- overall sulphide content is less than 1%.</li> </ul> <p>31.0 - 31.3 ft - limestone/chert band with 10% sph and py in tension fractures; overall Zn content from 30.0 - 33.0 ft estimated less than 1%.</p> <p>35.8 ft - lower contact set where carbonaceous laminae become rare; contact at 65' to C.A.</p>								
35.8	53.5	<p>DOLOMITIC LIMESTONE (REEVES FM UNIT 4b)</p> <ul style="list-style-type: none"> <li>- fine grained, light to medium grey, vaguely banded.</li> <li>- carbonaceous patches present, but rare.</li> <li>- overall sulphide content less than 1%, only py recognized.</li> </ul> <p>47.0 ft - banding at 40' to C.A.</p> <p>53.5 ft - contact set at reappearance of abundant carbonaceous material.</p>								
53.5	90.3	<p>DOLOMITE (REEVES FM UNIT 4b)</p> <ul style="list-style-type: none"> <li>- fine grained, light grey, some calcareous patches and bands present.</li> <li>- carbonaceous laminae are generally contorted or brecciated, decrease in size and number downhole disappear after 83.0 ft.</li> <li>- serpentine - rich bands appear from 63.0 to 78.0 ft.</li> <li>- overall sulphide content is less than 1%, but is locally concentrated up to 30 - 40% over short core lengths; sulphides are generally found as massive and semi-massive bands rather than as disseminations.</li> </ul>								

LAFRIGIDES TORONTO 366 1168

# DIAMOND DRILL RECORD

NAME OF PROPERTY \_\_\_\_\_ JAC

HOLE NO. JP82-12A

SHEET NO. 3 of 7

FOOTAGE		DESCRIPTION	SAMPLE			Zn	Pb	ASSAYS		Au
FROM	TO		NO	SULPHIDES	FOOTAGE			OZ TON	OZ TON	
					FROM	TO	TOTAL			
		- banding tends to be weak or non-existent over much of unit 68.0 ft - banding at 50° to C.A. 70.0 - 73.0 ft - sulphides increasing to 8 - 9% overall, best section is from 71.9 to 72.9 ft with 30 - 40% po, py and sph; overall Zn estimated at 1 - 2%; sulphide bands oriented at 45° to C.A.  73.0 - 90.3 ft - sulphides decrease to less than 1% overall, some 5-6mm bands of massive py + po occur at 79.0 - 82.0 ft.  79.0 - 79.7 ft - several oxidized fractures present. 85.5 - 85.7 ft - oxidized fracture. 90.3 ft - contact obscured by broken core; does not appear to be fault zone, but normal intrusive contact.								
90.3	119.5	FELDSPAR PORPHYRY - similar to porphyry in JP82-12 - contains numerous inclusions and intrusions of diorite and trondhjemite. 107.1 - 107.4 ft - fault filled with vuggy weakly calcareous altered diorite (?) 119.5 ft - lower contact at 75° to C.A.								
119.5	139.8	DIORITE - medium grained, massive; CI = 25 - 30 - becomes fine grained, contains quartzite inclusions near lower contact 139.8 ft - lower contact at 85° to C.A.								

LANGRIDGE - TORONTO - 366-1168

# DIAMOND DRILL RECORD

NAME OF PROPERTY: JACKPC

HOLE NO. JP82-12A

SHEET NO. 4 of 7

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS					
FROM	TO		NO	SULPHIDES	FOOTAGE			Zn	Pb	Ag	Au
					FROM	TO	TOTAL	GT TON	GT TON	GT TON	GT TON
139.5	285.0	QUARTZITE - (RENO FM) - fine grained, dark grey to black. - quartzite is well bedded; beds are defined by black argillaceous partings; some dark green weakly calcareous beds are present beds are 1-2cm wide or less, but some more massive sections occur downhole. - sulphide content is 1 - 2% overall, appears to be almost entirely py as fracture coatings and mixed in with argillaceous partings; some po is also present. 148.5 ft - bedding at 40° to C.A. 160.8 ft - possible nose of fold 161.0 - bedding at 45° to C.A. 169.6 - 170.3 ft - garnets present 186.0 ft - black argillaceous partings at 35° to C.A. 200.0 ft - bedding at 55° to C.A. 215.0 ft - bedding at 45° to C.A. 225.0 ft - bedding at 85° to C.A. 230.0 - 285.0 ft - bedding becomes contorted and brecciated locally; generally bedding is at 80 - 90° to C.A. 241.0 - 253.0 ft - dirty wacke unit, weakly calcareous. 268.5 - 285.0 ft - narrow trondhjemitic dykes intrude quartzite parallel to bedding planes; dykes are 0.1 - 0.5 ft wide; lower contact of quartzite marked by dyke. 285.0 ft - lower contact obscured by blocky core, may be fault									

# DIAMOND DRILL RECORD

NAME OF PROPERTY \_\_\_\_\_ JACKI

HOLE NO. \_\_\_\_\_ JP82-12A

SHEET NO. \_\_\_\_\_ 5 of 7

FOOTAGE		DESCRIPTION	SAMPLE			Zn	Pb	ASSAYS		Au
FROM	TO		NO.	% SULPHIDES	FOOTAGE		%	%	OZ TON	OZ TON
					FROM	TO				
285.0	295.0	DOLOMITE (REEVES FORMATION UNIT 4b) - fine to medium grained, white to light grey, weakly banded at 60° to C.A. - overall sulphide content is 1 - 2%, confined to massive and semi-massive bands and laminae 1 - 30mm wide; only po, py and sph present. 285.0 - 288.3 ft - overall 2% sulphides, Zn estimated less than 0.5%, best sulphide concentration is 10% from 287.5 - 288.3 ft. 288.3 - 292.0 ft - overall 1% sulphides, mostly sph, po and rare py; Zn estimated less than 0.5%. 292.0 - 295.0 ft - up to 1% sulphides, mostly disseminated sph, Zn less than 0.5%.								
295.0	364.9	DOLOMITIC LIMESTONE (REEVES FORMATION UNIT 4b) - distinguished from above dolomite by appearance of brecciated carbonaceous patches, greater sulphide content, and stronger HCl reaction. - sulphides are present in bands, patches and as disseminations; overall sulphide content is 5% from 295.0 - 305.5 and up to 1-2% from 305.0 - 309.0 ft; only po, py, sph and rare galena recognized. 295.0 - 298.8 ft - 7% sulphides, mostly po, sph, py and rare galena; Zn estimated up to 1%. 298.8 - 302.7 ft - 5% sulphides, Zn estimated less than 1%; sulphide banding oriented at 60° to C.A. 302.7 - 305.5 ft - 3% sulphides, Zn less than 1%. 305.5 - 309.0 ft - 2% sulphides, Zn less than 1%.								

LATHROP-IGES - TORONTO - 356, 1168

# DIAMOND DRILL RECORD

NAME OF PROPERTY: JACKPOT

HOLE NO. JP82-12A

SHEET NO. 6 of 7

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS					
FROM	TO		NO.	% SULPHIDES	FOOTAGE			Zn	Pb	Ag	Au
					FROM	TO	TOTAL	%	%	02 TON	02 TON
		309.0 - 314.0 ft									
		314.0 - 317.2 ft									
		317.2 - 320.5 ft									
		335.5 - 3355 ft									
		335.5 - 364.9 ft									
		364.9 ft									
364.9	398.1	SKARN (TRUMAN FORMATION) - very well laminated and banded; bands are brown biotite-rich, green amphibole-rich or white quartz-rich; banding is at 50° to C.A. - numerous narrow trondhjemite dykelets intrude skarn concordantly or slightly discordantly. - amphibole-rich skarn becomes dominant downhole, possibly indicating volcanic provenance.									
		296.9 - 398.1 ft									
398.1	483.3	LIMESTONE/DOLOMITIC LIMESTONE (REEVES FM UNIT 4b) - medium grained, light to dark grey, dark grey sections have considerable carbonaceous material. - banding from 398.1 - 410.8 ft is contorted indicating strong folding.									

LANGRISHES - TORONTO - 360-1188



# DIAMOND DRILL RECORD

NAME OF PROPERTY: JAC

HOLE NO. JP82-12A SHEET NO. 7 of 7

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS				
FROM	TO		NO	% SULPHIDES	FOOTAGE		Zn	Pb	Ag	Au
					FROM	TO	TOTAL	oz ton	oz ton	oz ton
		<ul style="list-style-type: none"> <li>- sulphide content generally is much less than 1% overall</li> <li>405.7 - 406.0 ft - siliceous band at 55° to C.A., features mauve siliceous patches and wollastonite.</li> <li>408.9 ft - massive sph band up to 0.5 cm wide oriented at 45° to C.A.</li> <li>421.0 ft - vague banding at 55° to C.A.</li> <li>447.0 ft - vague banding at 60° to C.A.</li> <li>458.0 ft - banding at 45° to C.A.</li> <li>472.0 ft - banding at 50° to C.A.</li> <li>483.3 ft - lower contact at 45° to C.A.</li> </ul>								
483.3	505.2	<p>LIMESTONE (REEVES FM UNIT 4c)</p> <ul style="list-style-type: none"> <li>- medium to coarse grained massive marble; white and light grey, no carbonaceous material is present; sulphide content much less than 1%.</li> <li>- vague banding is locally present at 40° to C.A.</li> <li>- some fine grained limestone sections appear near lower contact; contact set at disappearance of marble sections.</li> <li>505.2 ft - contact at 60° to C.A.</li> </ul>								
505.2	542.0	<p>DOLOMITIC LIMESTONE (REEVES FM UNIT 4b)</p> <ul style="list-style-type: none"> <li>- fine grained, light to medium grey, some carbonaceous patches are present locally.</li> <li>- some medium and coarse grained sections and bands are present.</li> <li>- grain size increase downhole.</li> <li>- sulphide content is much less than 1%.</li> <li>517.0 ft - banding at 70° to C.A.</li> <li>530.0 ft - banding at 60° to C.A.</li> </ul>								
542.0		<p>END OF HOLE</p> <p><i>J.R. [Signature]</i></p>								

LANGRIDGE - TORONTO 366-1188

# DIAMOND DRILL RECORD

NAME OF PROPERTY JACKPOT  
 HOLE NO. JP82-13 LENGTH 525.0 ft  
 LOCATION AZ 179° FOR 151 FT FROM DDH J-7; MAIN ZONE  
 LATITUDE \_\_\_\_\_ DEPARTURE \_\_\_\_\_  
 ELEVATION \_\_\_\_\_ AZIMUTH 309° DIP -50.5°  
 STARTED JULY 31, 1982 FINISHED AUGUST 1, 1982

Uncorrected			Corrected		
FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH
0	-50.5°	309°	0	-50.5°	309°
250	-55°		250	-49°	
525	-54°		525	-48°	

HOLE NO. JP82-13 SHEET NO. 1  
 REMARKS \_\_\_\_\_  
 LOGGED BY J.R. FOSTER

FOOTAGE		DESCRIPTION	SAMPLE			
FROM	TO		Zn	Pb	Ag	Au
0	15.0	CASING				
15.0	88.5	GABBRO - medium grained, subtly feldspar porphyritic; mafic content 35 - 40% biotite and amphibole. - minor siliceous granitoid dykelets intrude gabbro 38.2 - 38.5 ft - granitoid dyke oriented at 45° to C.A. 42.0 - 43.0 ft - broken core, possible fracture 45.0 - 47.5 ft - broken core, possible fracture 84.1 - 84.3 ft - granitoid dyke at 90° to C.A. 88.5 ft - lower contact at 60° to C.A.				
88.5	96.2	MAFIC LAMPROPHYRE - porphyritic; biotite phenocrysts up to 3mm are in a very fine grained massive matrix. - lower contact obscured by blocky core.				
96.2	159.9	GABBRO - similar to above gabbro 134.6 - 135.3 ft - granitoid dyke at 50° to C.A.				

# DIAMOND DRILL RECORD

NAME OF PROPERTY: JACKPOT

HOLE NO: JP82-13

SHEET NO. 2 of 11

FOOTAGE		DESCRIPTION	SAMPLE			Zn	Pb	ASSAYS		
FROM	TO		NO	SULPHIDES	FOOTAGE		%	%	Ag	Au
					FROM	TO			TOTAL	OZ TON
		145.6 - 147.3 ft								
		150.0 - 151.2 ft								
		159.9 ft								
159.9	173.8	<p>WACKE (RENO FM)</p> <ul style="list-style-type: none"> <li>- relatively siliceous dirty greywacke with quartzite laminae up to 0.5 cm wide.</li> <li>- laminae in wacke are highly contorted, often brecciated, indicating very strong folding</li> <li>- wacke is fine grained, medium to dark grey, usually biotite-rich in dark laminae.</li> <li>- sulphide content is much less than 1%.</li> </ul>								
		173.6 - 173.8 ft								
		173.8 ft								
173.8	184.6	<p>DIORITE/GABBRO</p> <ul style="list-style-type: none"> <li>- chilled upper and lower contacts</li> <li>- intrusion is slightly less mafic than preceding gabbros.</li> </ul>								
		184.6 ft								

LANGRISHES - (CORRECT) - 196 1168

# DIAMOND DRILL RECORD

NAME OF PROPERTY JACKPOT  
 HOLE NO. JP82-13 SHEET NO. 3 OF 11

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS					
FROM	TO		NO.	% SULPHIDES	FOOTAGE			Zn	Pb	Ag	Au
					FROM	TO	TOTAL	%	%	OZ TON	OZ TON
184.6	189.7	TRONDHJEMITE - medium grained, contains numerous biotite-rich inclusions. 189.7 ft - lower contact at 90° to C.A.									
189.7	203.6	QUARTZITE (RENO FM) - well recrystallized, very siliceous, minor biotite-rich laminae often well brecciated; in general laminae are too contorted or brecciated for reliable bedding angle determinations. - sulphide content much less than 1%, only po recognized. 203.6 ft - lower contact at 40° to C.A.									
203.6	206.3	TRONDHJEMITE - similar to above trondhjemite, but with few inclusions 206.3 ft - lower contact at 50° to C.A.									
206.3	243.8	QUARTZITE (RENO FM) - similar to unit at 189.7 - 203.6 ft, but considerably less contorted and brecciated. - bedding is at low angle to C.A.; beds are 1 cm to 10 cm wide (true thickness). - sulphide content is much less than 1% 213.0 - 227.0 ft - wacke interbeds become common, bedding is at 20° to C.A. 228.0 ft - bedding sub-parallel to C.A. 236.6 ft - possible intraformational conglomerate or breccia, clasts are pebble sized, bed oriented at 25° to C.A. 243.8 ft - contact set at first appearance of trondhjemite dykelets; contact is very irregular.									

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