

6503

CANADIAN NICKEL COMPANY LIMITED

DIAMOND DRILL LOGS

SPUR CLAIMS

1977

Omineca Mining Division

Lat. $56^{\circ}02'$ - Long. $126^{\circ}50'$

94D/2W

M. J. Gidluck, P.Eng.
October, 1977

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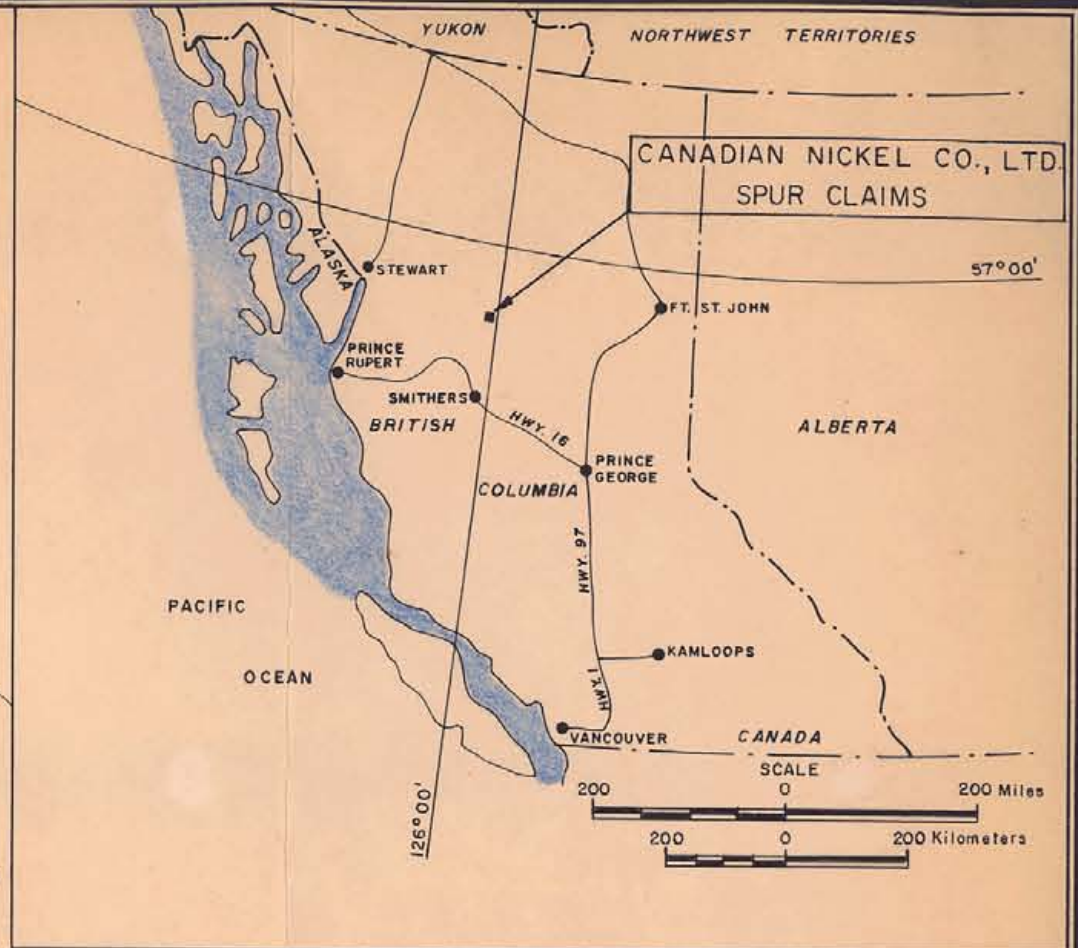
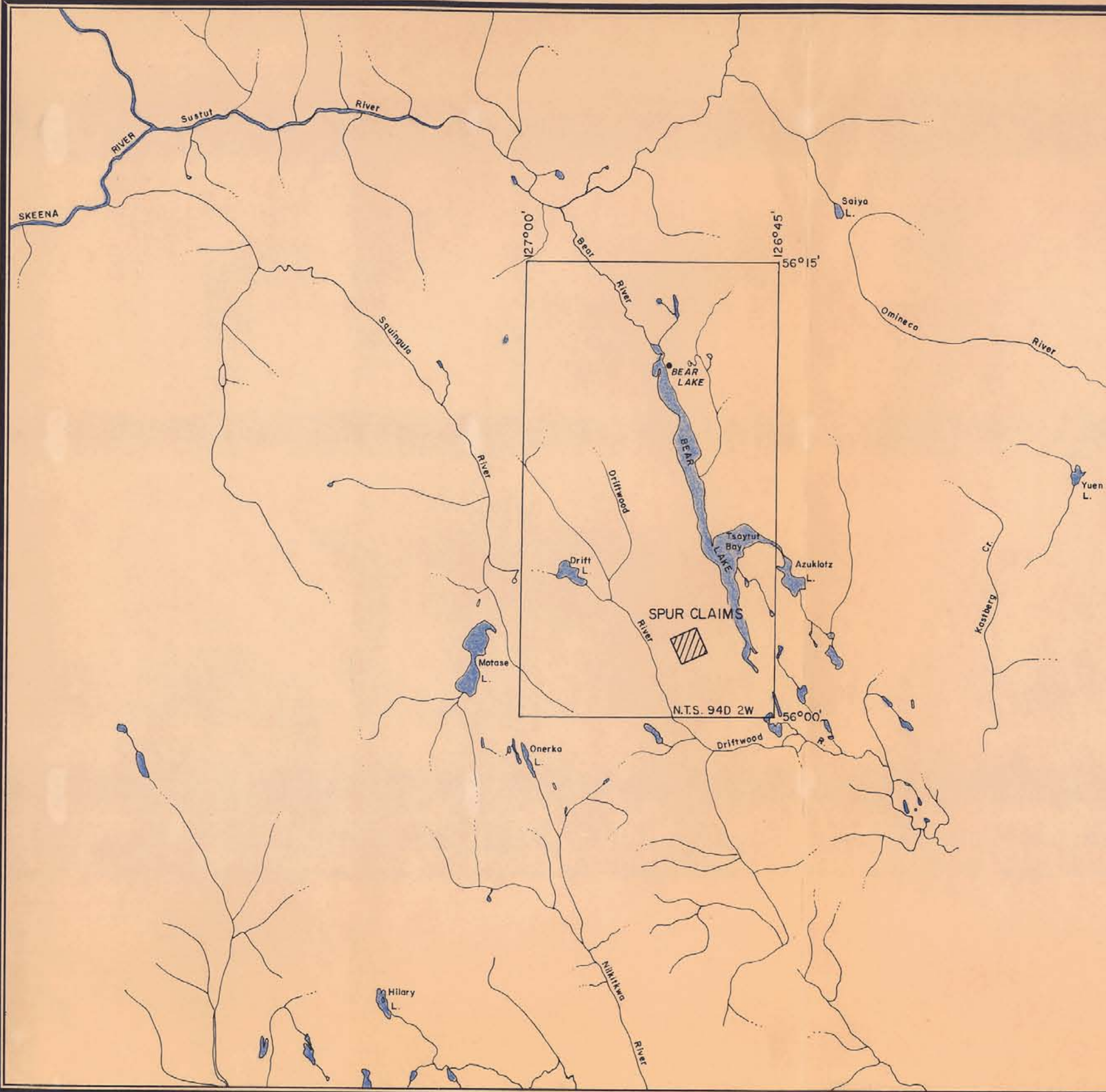
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DIAMOND DRILL LOGS	
Borehole #38854	
38855	
38856	
38857	
38858	

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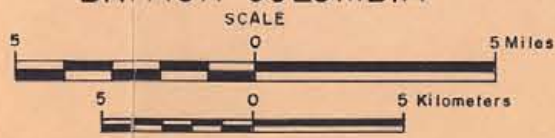
- A. List of Abbreviations Used in Drill Logs
- B. Diamond Drill Contract
- C. Wright Drilling Ltd. Invoices
- D. Statement of Qualifications

MAPS

Location Map	1 in. = 4 mi.
Geological Map and Drill Hole Locations	1 in. = 100 ft.



Canadian Nickel Co. Ltd.
 LOCATION MAP
 SPUR CLAIMS
 OMINECA MINING DIVISION
 BRITISH COLUMBIA



DIAMOND DRILL PROGRAM SPUR CLAIMS - 1977

GENERAL COMMENTS

The diamond drilling program on the 16 claim Spur group was conducted by Wright Drilling Ltd. of Kamloops, B.C. during the period July 7 to August 7, 1977. Four completed holes and one abandoned hole comprise the total 237 1/4 ft. of core drilled. Wright Drilling's costs amount to a total charge of \$48,626.35 or \$20.50 per ft. As the claim group still retains 18 excess claim year credits only \$28,400.00 is applied towards assessment credit (142 claim years x \$200) making the total 10 year allowable maximum excess credit on each claim.

The first and deepest hole, #38854, incurred considerably higher costs than the others due to its location close to the surface, especially the upper half of the hole which occurs in a highly fractured and weathered zone. There was a complete loss of water return and in effect no water pressure at the bit face for at least half the hole length resulting in costly, well above normal wear of the diamond bits and core-barrel assembly.

As the claims are located on the mountain ridge at about 5600 ft. A.S.L., just west of the south end of Bear Lake, access is attained by helicopter. Okanagan Helicopters based at Smithers provided the air support required for the operation of the program with a Jet Ranger helicopter and larger aircraft, a Sikorsky 558T and Bell 205, were used in the mobilization and demobilization of the drill rig and crew to and from Johanson Lake 45 miles to the northeast.

The drilling was done with a Longyear 34 rig employing BQ wireline coring equipment and a portable mast setup as no natural timber for tripod legs is available at this elevation. During the program drill water was readily available from snow fed creeks on the ridge top however it was observed that later in the summer these sources were entirely dried up. The core was logged in 10 ft. lengths or less on site, split with an H. & S. coresplitter and analysed by Bondar Clegg and Co. Laboratories in Vancouver. The remaining split half is presently in warehouse storage in Smithers, B.C.

Respectfully submitted,



M. J. Gidluck, P.Eng.

MJC/nk



COST STATEMENT

Wright Drilling Ltd. - Invoice #154

Mobilization to 1200.00 @ 75%		\$ 900.00
Moving In and Setting Up 107 man hrs. @ \$16.00		1,712.00
Drilling Hole #38854		
Casing 0 - 5 - 5' @ \$13.75	68.75	
Coring 5' - 378 - 373' @ 13.75	5,128.25	5,197.50
Reaming 4 machine hrs. @ \$37.00		148.00
Cementing 33 machine hrs. @ \$37.00		1,221.00
Hole stabilization 16 machine hrs. @ 37.00		592.00
Preparing Drill Site & Packing Core 17 man hrs. @ \$16.00		272.00
Acid Testing 1-Test		37.00
Supplies Damaged or Consumed		
17 B.Q. Drill Rods 43.75x17 = 743.75 x 60%	446.25	
1 B.Q. Core Barrel Complete	516.00	
4 Fondu @ \$16.25	65.00	
3 Cal Seal @ \$28.00	84.00	
2 Bags Quik-Trol @ \$4.45	8.90	
1 Quik Gel @ \$4.05	4.05	
	<u>\$1,224.20</u>	
Sales Tax @ 7%	78.69	1,202.89
		<hr/>
	Total:	\$11,282.39

Wright Drilling Ltd. - Invoice #155

Drilling Hole #38854		
Coring 378' - 500' - 122' @ \$13.75		1,677.50
500' - 841' - 341' @ 14.25		4,859.25
Cementing #38854 17 machine hrs. @ \$37.00		629.00
Water Delays 7 machine hrs. @ \$37.00		259.00
Acid Testing 2 Tests @ \$37.00		74.00
Moving from hole #38854 to 38855		
12 machine hrs. @ \$37.00		444.00
28 man hrs. @ \$16.00		448.00
Drilling Hole #38855		
Casing 0 - 8 - 8' @ \$13.75		110.00
Coring 8 - 156' - 148' @ 13.75		2,035.00
Moving from Hole #38855 to 38856		
2 machine hrs. @ 37.00		74.00
8 man hrs. @ 16.00		128.00

COST STATEMENT

Wright Drilling Ltd. - Invoice #154

Mobilization to	1200.00 @ 75%		\$ 900.00
Moving In and Setting Up	107 man hrs. @ \$16.00		1,712.00
Drilling Hole #38854			
Casing 0 - 5 - 5' @ \$13.75		68.75	
Coring 5' - 378 - 373' @ 13.75		5,128.25	5,197.50
Rearing	4 machine hrs. @ \$37.00		148.00
Cementing	33 machine hrs. @ \$37.00		1,221.00
Hole stabilization	16 machine hrs. @ 37.00		592.00
Preparing Drill Site & Packing Core	17 man hrs. @ \$16.00		272.00
Acid Testing 1-Test			37.00
Supplies Damaged or Consumed			
17 B.Q. Drill Rods 43.75x17 = 743.75 x 60%		446.25	
1 B.Q. Core Barrel Complete		516.00	
4 Pondu @ \$16.25		65.00	
3 Cal Seal @ \$28.00		84.00	
2 Bags Quik-Trol @ \$4.45		8.90	
1 Quik Gel @ \$4.05		4.05	
		<u>\$1,244.20</u>	
Sales Tax @ 7%		78.69	1,202.89
			<hr/>
		Total:	\$11,282.39

Wright Drilling Ltd. - Invoice #155

Drilling Hole #38854			
Coring 378' - 500' - 122' @ \$13.75			1,677.50
500' - 841' - 341' @ 14.25			4,859.25
Cementing #38854	17 machine hrs. @ \$37.00		629.00
Water Delays	7 machine hrs. @ \$37.00		259.00
Acid Testing	2 Tests @ \$37.00		74.00
Moving from hole #38854 to 38855			
12 machine hrs. @ \$37.00			444.00
28 man hrs. @ \$16.00			448.00
Drilling Hole #38855			
Casing 0 - 8 - 8' @ \$13.75			110.00
Coring 8 - 156' - 148' @ 13.75			2,035.00
Moving from Hole #38855 to 38856			
2 machine hrs. @ 37.00			74.00
8 man hrs. @ 16.00			128.00

Drilling Hole #38856		
Casing 0 - 8 - 8' @ \$13.75		\$ 110.00
Coring 8 - 500' - 492' @ 13.75		6,765.00
500 - 611 - 111' @ 14.25		1,581.75
Cementing #38856		
20.5 machine hrs. @ \$37.00		758.00
1 bag CalSeal 28.00		
5 bags Fondu @ 16.25 <u>81.25</u>		
	109.25	
B.C. sales tax 7.65		116.90
Reaming Hole #38856 4 machine hrs. @ \$37.00		148.00
Acid Testing 3 Test @ \$37.00		110.00
Moving from Hole #38856 to 38857	16 machine hrs. @ 37.00	592.00
	30 man hrs. @ 16.00	480.00
Drilling Hole #38857		
Casing 0 - 44 - 44' @ \$13.75		605.00
Coring 44 - 434 - 390' @ 13.75		5,362.00
Reaming 1 machine hr. @ 37.00		37.00
Running Mud Hole #38857	2.5 machine hrs. @ 37.00	92.50
	3 bags Quik-Gel @ 4.05	12.15
	4 bags Quik-Trol @ 4.45	17.80
	Tax @ 7% on 29.95	<u>2.10</u>
		124.55
Acid Testing 2 Tests @ \$37.00		74.00
Moving from Hole #38857 to 38858	5 mach. hrs. @ 37.00	185.00
	10 man hrs. @ 16.00	160.00
Equipment lost or consumed		
4 pails D.D.R Grease @ 24.43	97.72	
2 B.W. Casing Shoes @ 147.00	294.00	
3 B.Q. Drill Rods		
131.25x60%	78.75	
22' B.W. Casing @ 8.88	<u>195.36</u>	
	365.83	
Tax @ 7%	<u>46.63</u>	712.44
	Total:	\$28,661.39

Wright Drilling Ltd. - Invoice #160

Drilling Hole #38858			
Casing 0 - 4 - 4' @ 13.75		55.00	
Coring 4 - 332 - 328 @ 13.75		<u>4,510.00</u>	\$ 4,565.00
Moving to Hole #38858	8 mach. hrs. @ 37.00	296.00	
	10 man hrs. @ 16.00	<u>160.00</u>	456.00
Standby (hole stopped)	2 mach. hrs. @ 37.00		74.00
Acid Testing	2 Tests @ 37.00		74.00
Moving from last hole to truck loading area.			
	116 man hrs. @ 16.00		<u>1,856.00</u>
	Total:		\$7,025.00

Wright Drilling Ltd. - Invoice #167

1 Reamer Shell #4912 (tax included)			232.53
B.Q. Diamond Bits			
#318	\$244.79		
20090	225.86		
20776	252.77		
20308	349.33		
20332	341.81		
20309	349.33		
M422170 (replaced coates)	239.04		
21361	345.81		
21362 45% of 345.81	<u>155.61</u>		
	2,504.35 x 70%		<u>1,753.05</u>
	Total:		\$1,985.58
	Less Cr. Inv		<u>268.51</u>
	Total Due:		<u>\$1,717.07</u>
	Total:		<u>\$49,636.35</u>

BOREHOLE RECORD

DATE PROCESSED OCT 14, 1977

BOREHOLE# 38854-0 PROPERTY SPUR NTS# 94 D 2 W SH# ANGM# DEPTH 00841 AZIMUTH 220 GRID 8. DIP 00 25000 ELEV LATTITUDE -48 00 S000433 DEPARTURE W000443 DATE

CHK'D.....

INCLINATION AND TROPIC TESTS

DEPTH AZIMUTH DIP DEPTH AZIMUTH DIP DEPTH AZIMUTH DIP DEPTH AZIMUTH DIP
 0152 -48 00 0250 -48 30 0350 -49 00 0550 -51 30
 0750 -52 00

COMMENTS

LOGGED BY J.M. GIDLICK STARTED... JULY 08, 1977 COMPLETED... JULY 20, 1977
 DRILLED BY WRIGHT DRILLING LTD ON CLAIM SPUR 4 IN OMENICA
 MINING DIVISION, ALL CASING PULLED

SAMPLE ENTRIES

DEPTH	LENGTH	MNZN	ROCK	DESCRIPTION	ANG
0000.0	0.0			CELLAR	
0005.0	5.0			COVER BURDEN	
0014.0	9.0	TUFF		LITHIC, MUDDY SPCTYED MAUVE, HMGS, CLASTS LESS THAN 4MM OF ROCK AND ASH. THIN FRCT FILLINGS QTZ @ 30 & 55 DEG, NON MTC	
0024.0	10.0	TUFF		AS ABOVE, FG CLASTS, STILL PROM SPOTS @ 35 WTRD FRCS LIM	
0034.0	10.0	TUFF		AS ABOVE	
0042.5	8.5	TUFF		AS ABOVE	
0050.0	7.5	TUFF		AS ABOVE, FRGD OCCASSIONAL VOLC RK CLASTS SAME COMPCITION, HAIRLINE QTZ FILLED FRCS @ 40 DEG AND INTERSPACED TENSION GASHES @ 0 DEG	
0060.0	10.0	TUFF		MUDDY, GRADUALLY BECOMES VFG AND RED FEN-LIM	
0067.3	7.3	TUFF		AS ABOVE, HEMG ELONG CLASTS @ 45 DEG- BEDDING	
0076.0	8.7	TUFF		AS ABOVE	
0086.5	10.5	TUFF		LITHIC SIM ABOVE WITH CG VOLC CLASTS 1 IN DIAM AT BOTTOM OF SAMPLE, GOOD BEDDING VARIES 45-55 DEG, STILL SML QTZ VEINLETS ALONG FRACS @ 30 DEG	
0090.3	3.8	MVWV TUFF		FG GREEN ANDS PCLG, PROM BDG @ 45 DEG VOLC CLASTS UP TO HALF IN, MINOR FN DISS CPY WITH SML BLEBS CP @ 91.0	
0101.5	11.2	TUFF		LITHIC, FG RED-BRWN ASH & MUDS, GOOD BDG @ 55 DEG & SCMR SLUMP TEXTURES	
0106.2	4.7	MVWV LPTF		LITHIC SIM ABOVE, CG CLASTS TO HALF IN, TRACE FN DISS SULP CPTQIBNIG, VFN DISS DK METALLIC MIN HEM OR CC (Q)	
0110.5	4.3	TUFF		FG RED-BRWN, BDG @ 45 DEG	
0120.5	10.0	TUFF		LITHIC CG LPTF 110-112, FG-CG TUFF 112-120, TRACE DISS DK METALLIC BECC PES MINUTE IN FG SECTIONS	
0130.5	10.0	TUFF		AS ABOVE, LPTF 127-130, PROM BDG @ 45- 50 POOR GRADED ECG YOUNGS TO EAST	
0140.5	10.0	TUFF		LITHIC, FG RED-BRWN, ABUND THIN BDG @	

BOREHOLE# 38854-0 SPUR

PAGE# 1

DEPTH	LENGTH	MNZN	ROCK	DESCRIPTION	ANG
				45-50 DEG, POC. GRADED BOG, TRACES FM CISS SULP PY (Q)	
0150.0	9.5	TUFF	LITHIC AS ABOVE		
0160.0	10.0	TUFF	LITHIC AS ABOVE, LAPILLI SIZE CLASTS 153-154		
0164.0	4.0	TUFF	LITHIC AS @ 140.5		
0166.4	2.4	TUFF	ARCS GRADUAL UPPER CT SHARP LOWER CT 50 DEG, PALE GRN & MAUVE BLOTCHES OF MUD PATCHES, 90G @ 55 DEG		
0176.0	9.6	TUFF	LITHIC SIM AS 150.5 BUT DK GY-BRWN ALMOST MUDSTONE, FG WITH SCATTERED SPL CLASTS OF BRIGHT DK GRN SOFT MIN -ZEOLITE-PREHNITE(Q) 50G @ 45 DEG		
0186.0	10.0	TUFF	AS ABOVE, FG HOMO MUDDY VOLCANICLASTI C		
0190.7	4.7	TUFF	AS ABOVE		
0200.0	9.3	TUFF	LITHIC SIM ABOVE BECOMES RED-BRWN, MOSTLY FG, RAGGED FRCT FLLG OF CALC IN SML BX ZONE		
0210.0	10.0	TUFF	LITHIC SIM NOW SAND SIZE CLASTS, BOG FRCT FLLG QTZ @ 30 DEG & IRREG TENSI CN GASHES	45	
0220.0	10.0	TUFF	LITHIC FG MUDSTONE AS @ 176.0		
0223.0	3.0	TUFF	AS ABOVE		
0224.0	1.0	FLT	SHRD WTHRD TUFF, SCSY & LIM FRCT @ MUD SEAM & LOST CORE	35	
0235.0	11.0	TUFF	LITHIC FG RED-BRWN HOMO MUDDY VOLCAN ICLASTIC, HAIRLINE QTZ FRCTS @ 30 DEG		
0235.6	0.6	DYKE	INTERMED VOLC COMPOSITION, VFG GRN GRN WITH ASSIMILATED CONTACTS, CROSS CLTS PERPENDICULAR TO TUFF BEDS @	40	
0245.0	9.4	TUFF	LITHIC, RED BRWN MUDSTONE AS @ 235.0 NUMEROUS PEASIZE QTZ BLEBS & TESION GASH FILLINGS-ALL SECONDARY		
0255.0	10.0	TUFF	AS ABOVE		
0261.8	6.8	TUFF	AS ABOVE WITH INCREASING SUBROUNDED VOLC PEBBLES		
0271.0	9.2	LPTF	LITHIC, CC TUFF WITH LAPILLI SIZE VOL C FRAGS & QTZ GRAINS @ 45 DEG		
0276.5	5.5	TUFF	LITHIC-XTL, FG RED BRWN VOLCANICLASTI C SPOTTED WITH NUMEROUS WHT SUBROUND EC QTZ GRAINS		
0278.0	1.5	TUFF	XTL, INCREASED QTZ XTLS WITH SOME BRI GHT DK GRN GRAINS CLAY MIN OR ZEOLIT GRAINS @ 50 DEG, CORE FRCD SOME WHTRG		
0285.0	7.0	TUFF	LITHIC, FG RED-BRWN AS 276.5, SCATTERE D QTZ GRAINS, FEW VOLC PEBBLES SOME WITH DK GRN PERIPHERAL ALTN ALONG CLAST MARGIN		
0286.5	1.5	BSLT	CT IRREGULAR & SE WHT AHGDS PLL WITH CT @ 30 DEG, TUFF FILLS IRREGS IN UP BSLT FLCH CT, THIN ALTERED SKIN ON TUFF CT		
0289.5	3.0	BSLT	ALTOGCLAY SEAMS, FG GY-GRN MATRIX WIT H SCATTERED LGE GRN GRAINS POSS RELI		

DEPTH	LENGTH	MNZN	ROCK	DESCRIPTION	ANG
				CT CLIVINE XT CLAY DUE SHRG-FLTG, ZONE OF WTHRD FLFFS INTERMIXED WITH FLOW	
0297.0	7.5	BSLT		FC DK GRN WITH IREG ZEOLITE CLOTS- FILLING OPEN SPACES & VESICULES, RED HEMATITIC ALTN BETWEEN INTERNAL BX STRUCTURES, NON MTC, NO VISIBLE SULP	
0305.5	8.5	BSLT		BXD & BALLED, AS ABOVE WITH NUMEROUS VARIABLE SIZED FC BSLT BALLS & FLOW BXN TEXTURES, ZEOLITE INEILLING FRAGS RED HEM OUTLINING FLOW BANDING @ 45 CORE NONFRCD	
0310.5	5.0	MVVW	BSLT	SIM ABOVE, NO BALLS, MINOR MALACHITE ALONG FEW FRCS, BLEBS & CLOTS CC, BN, & CP TOTAL LESS 1% OCCURS ON BX FRAGS & FCT CTS, TRACE MINUTE DISS CC	
0311.8	1.3	MVW	BSLT	CTSIM ABOVE BUT LIGHTER COLOUR, FLOW BXN & BANDING, LOWER CT SHOWS ASSIMIL ATION, INCREASED MAL ON HAIRLINE FRCT BLEBS & CLOTS BN CC CP 2% ON FRGM CTS & FRCTS	
0317.1	5.3	MVW	RHY	ALTD BX, LIGHT GY TO WHT POSS TUFF - GRLR TXN, FLOW BX, ABUNDANT LH SPOTTE D THROUGH ALSO CN FRCTS-OXIDIZED, MAL ALONG MANY HAIRLINE FRCTS, DISSD CC CP BN 3-5%	
0320.0	2.9	MVW	RHY	ALTD, SIM ABOVE FLOW BK, OXIDATION INC REASES & HAS PARTIALLY DESTROYED THE CC BN WHICH REMAINS AS SML DK SPOTS CP 3-4% CP STILL VISIBLE @ 1-2% +MAL	
0331.0	11.0	MVVW	RHY	WTHRD, SIM ABOVE BUT HIGHLY WTHRD & FRCTD COPE VERY CRUMBLY OPEN CAVATIE S-LFACHING, NO VISIBLE SULP, MAL-AZ URITE ON MANY FRCTS, DENDRITIC DK BRW N MIN MAY BE SECONDARY CU MIN	
0341.0	10.0	MVVW	BSLT	DK GRY FARD VOLC FLOW, SPOTTED WITH SML RNDD DK GANS OF RLCT MAFICS PX OXDN ICRG WITH DEPTH-RUSTY BRWN, POSS FEEDER DYKE TO FLOWS, DISS SML DK MET ALLIC GRNS-HEM CR CC, TRACES CP	
0345.0	4.0	LC		LCST CORE CAVITY	
0354.0	9.0	MVW	RHY	FC WHITE-GREY SLCS VOL BLOCKY FLOW TEXTURES, DISS SML G CP 3-5%, 347-354 WTHRD & CRUMBLY CORE, LESS SULPS, MINO R MAL & DENDRITIC BRWN MIN	
0359.0	5.0	MVW	RHY	FLCH BX & BSLT BLOCKS, HIGHLY WTHRD LIMC, 2-4% WTHRD SULPS CP-PY, MINOR MAL	
0365.0	6.0	MVW	BSLT	DK GRN GREY MATRIX SPECKLED WITH FEW RELICT PX GRNS, BK-MOD MTC DISS CP-PY 1-2%, TRACES CC	
0375.0	10.0	MVW	BSLT	SIM ABOVE ICRD G SIZE-MICRO GAB, FLOW BNDG & CT @ 50 DEG, F QTZ VNLS FRCT FLG DISS PY 2-4%, MOD MTC WTHRD FRCS	
0385.0	10.0	MVW	BSLT	AS ABOVE, CORE BLOCKY, SPOTTED WITH DK	

DEPTH	LENGTH	MNZN	ROCK	DESCRIPTION	ANG
0388.5	3.5	KVM	BSLT	PX GRNS, PYZ-4 AS ABOVE	
0397.0	8.5		BSLT	AS ABOVE, BUT NO PY, WHITE ALTN OF OLV N	
0400.5	3.5		BSLT	AS ABOVE,	
0401.3	0.8		BSLT	FLOW BX, STLD INTERFLOW BX, PY 4-6%	
0411.0	9.7		BSLT	AS ABOVE, MINOR DISS PY, RK VERY HOMO AC FLOW TEXTURES	
0421.0	10.0		BSLT	-GAB CG PHASE OF ABOVE, MINOR DISS PY STILL MOD MIC	
0431.0	10.0		BSLT	SIM ABOVE DCRG GS, SML FRCS FLD WHIT E ZFCLITE OR CARE RK, QUITE SOFT	
0441.0	10.0		BSLT	-GAB AS 421.0, FLOW CT @ 437.5 - CG TO FG SML BLK GRNS APPEAR TO BE PX NOT CC	
0451.0	10.0		BSLT	AS ABOVE, FLOW CT 445.5-447.5, TRAGPY	
0461.0	10.0		BSLT	AS ABOVE, BLK PX GRNS, HEMATITIZED-RED	
0471.0	10.0		BSLT	AS ABOVE, ICRG RED HEM DF PX, ICRG FG	
0474.0	3.0		BSLT	AS ABOVE, SCTD GRNS SILVER METALLIC MIN HEM-SPEUCLARITE	
0484.0	10.0		BSLT	-GAB ICRG GS GOOD GAB TXTR, ABNT RED-HEM ALTN OF PXS & MINOR PY, TR SPRT	
0494.0	10.0		BSLT	-GAB AS ABOVE DISS. RED HEM GRNS, QIZ CARB INFILLING FACS @ 30-40 DEG	
0504.0	10.0		BSLT	-GAB AS ABOVE	
0514.0	10.0		BSLT	DCRG GS, BXD AT BOTTOM, CARB-ZEOLITE INFILLING, TR SPKS CP	
0523.5	9.5		BSLT	AS ABOVE, FG, SHARP CT WITH PCLC BELOW 15	
0532.0	8.5		PCLC	VCLC BX, CG SUBANGULAR CLASTS OF VARIABLE VCLC CPSN UP TO 5 IN, LITTLE MATRIX, MANY CLASTS OF RED JASPEROID	
0534.5	2.5		BSLT	AS @ 523.5, FG SHARP CT BELOW @	25
0544.0	9.5		PCLC	VCLC BX, AS @ 532, SML G UPPER 1 FT	
0554.5	10.5		PCLC	VCLC BX, SOME CLASTS @ IN ACROSS	
0555.0	0.5		AGLM	SLCS IRMO VCLC-ECT MULTI HEALED FN FRCS=RAPID COOLING TXTR, ELONG RED VCLC FRGMS=BOMBS, RK VERY HARD MINOR SCTD SML GRNS DK METALLIC=JE. -CC(Q)	
0565.0	10.0		AGLM	AS ABOVE, CLASTS @ 40 DEG	
0575.0	10.0		AGLM	AS ABOVE, LARGER FGMS & BOMBS @ 40 DG	
0585.0	10.0		AGLM	AS ABOVE, ZONES OF VCLC BX, HEALED FRCT @ 5 DEG FILLED WITH FG BLK MUDD	
0591.0	6.0		AGLM	SIM ABOVE, DCRG EAC BLOCKS, GRN CHLC SH FILLING FORMER CAVITY @ 589.4	
0595.3	4.3		FLT	ALTD TUFF, WHT SCTD ZONES & SILICA, VCLC FGMS, FG GREY FLT GOUGE CTS @	40
0605.0	9.7		PCLC	VCLC BX, AS @ 532, Q, AGLR VCLC CLASTS OF VARIABLE CPSN IN DK RED MATRIX, RK VERY HARD, SCTD SML SPKS DK METALLIC MIN APPEARS TO BE HEM RATHER THAN CC	
0615.0	10.0		PCLC	VCLC BX, AS ABOVE	
0625.0	10.0		PCLC	VCLC BX, AS ABOVE	
0635.0	10.0		PCLC	VCLC BX, AS ABOVE	
0645.0	10.0		PCLC	VCLC BX, AS ABOVE STILL SCTD HEM SPKS	
0649.0	4.0		PCLC	VCLC BX, AS ABOVE	
0655.3	6.3		ANDS	DYKE FLOW FG GRN CHLC MATRIX, SCTD	

DEPTH	LENGTH	MNZN	ROCK	DESCRIPTION	ANG
				WITH CARB AMYG, T SCTD CP, CTS @ 25, LP CT WITH PCLC ASSIMILATION, LOW CT IS SHARP	
0660.0	4.7		PCLC	VCLC BX AS @ 649.0	
0667.0	7.0		ANDS	AS @ 655.3 WITH FG CONTAMINATED UP CT & SHARP LOW CT, 1 FT PCLC BLOCK	
0677.0	10.0		PCLC	VCLC BX AS @ 605.0, STILL SCTD HEM	
0687.0	10.0		PCLC	VCLC BX AS ABOVE	
0697.0	10.0		PCLC	VCLC BX AS ABOVE	
0700.0	3.0		PCLC	VCLC BX	
0709.0	9.0		ANDS	AS @ 655.3, FG, SCTD SML CARB-ZEOLITE AMYG, PERHAPS MORE BASIC PSBLY FG EQU IVALENT BSLT ABOVE, WKLY MTC, SML GRND GRRL TXTR, SHARP CT @ 35 DEG	
0719.5	10.5		PCLC	AS ABOVE, SCTD METALLIC SPKS HEM	
0729.0	9.5		LPTF	SCORIAECUS, SIM CPN TO VOLC BX FGMS ELGD & DRAWN OUT PLL BDC @ 80 DEG, FG RED BRN ASH MATRIX, ABNT UDRL FELDS STALS, SCTD METALLIC MIN-HEM	
0739.0	10.0		LPTF	SCORIAECUS AS ABOVE, FEW VOLC BLOCKS	
0749.0	10.0		LPTF	SCORIAECUS SOME ZONES VOLC BX, RK STILL VERY HARD RED COLOURED	
0759.0	10.0		LPTF	SCORIAECUS AS ABOVE ZONES SOFT WHT CLAY ALTN MIN INCL TO VOLC FGMS, TR SPKS HEM	
0767.7	8.7		LPTF	SCORIAECUS AS ABOVE	
0772.0	4.3		LPTF	ALTERED AS ABOVE, ICRG WHT MASS ALTN ZONE ASSOCIATED WITH FRCS, PSBLY HYDR OTHERMAL ARGILLIC ALTN, VNLS EXHIBIT BLEACHING, SOME PALE GRN ALTN MIN	
0779.5	7.5		LPTF	ALTERED, AS ABOVE, MASS PALE GRN CLAY ALTN ZONE @ 773-774, LIM ON FRCS=OXDN	
0785.0	5.5		ALTN	ZONE, MASS WHT CLAY ALTN, PCLC & FLOW FGMS, LIM STAINED, SOME DENDRITIC BLK MIN-HM	
0790.2	5.2	MVW	ANDS	AS @ 709.0, FG GRN AMYG FLOW RK, SHARP CT, FINELY DISS FY, OFTEN ALONG FRCS 2-3%	
0794.0	3.8	MVW	QTZ	BX, PAGED BY QTZ BX FGMS HEALED WITH SILICA @ 35 DEG, PSBLY BXD RHY FLOW LIM STAINED, 1-3% PY, CP GRNS SCTD TRG T	
0800.8	6.8		AND	AS ABOVE, WKLY MTC, AMYGS, SHARP CTS	
0807.5	6.7		BSLT	DK BRN-RED MATRIX WITH NMRS SCTD SML-LGE WHITE-GREEN AMYGS, PSBL ASH FLOW, NON MTC	
0811.4	3.9		BSLT	-GAB, DK GREY-GRN MATRIX SPOTTED WITH WHITE SBRL FSP XTLS @ 40 DEG	
0822.0	10.6		AND	AS @ 790.2, FG GRN GREY SML AMYGS, WK MTC, TR DISS PY ALONG FRCTS	
0832.0	10.0		AND	BXD-ALTD, ALTN DLE WTHG LIM STAIN, FLOW BX @ CENTRE OF SCTN, FG LOW CT @ 15	
0841.0	9.0		LPTF	DK COATINGS CN FRCTS PSBL GOETHITE XTL SIM TO 807.5 BUT APPEARS MORE PCLC TXTR, NMRS SML FPS XTLS & ELGD	

DEPTH LENGTH MNZN ROCK

VOLC FGMS IN
FOOT OF HOLE

DESCRIPTION
ASH (Q) MATRIX

ANG



BOREHOLE RECORD

DATE PROCESSED OCT 1977

BOREHOLE# PROPERTY NTS# SH# ANOM# DEPTH AZIMUTH GRID B. DIP ELEV LATITUDE DEPARTURE
38855-0 SPUR 94 D 2 H C0156 240 00 27000 -55 00 S000375 W000319

CHK'D.....
DATE.....

INCLINATION AND TROPICAL TESTS

DEPTH AZIMUTH DIP DEPTH AZIMUTH DIP DEPTH AZIMUTH DIP DEPTH AZIMUTH DIP

COMMENTS

LOGGED BY..M GIDLICK

STARTED..JULY 22, 1977 COMPLETED..JULY 22, 1977
DRILLED BY WRIGHT DRILLING LTD ON CLAIM SPUR 4 IN ONENICA
MINING DIVISION, ALL CASING PULLED, HOLE STOPPED AT 156 FT WHEN
IT WAS FOUND TO BE ON WRONG SIDE OF CT

SAMPLE ENTRIES

DEPTH	LENGTH	MIN	ROCK	DESCRIPTION	ANG
0000.0	0.0			COLLAR	
0008.0	8.0			OVERBURDEN	
0014.0	6.0	AND		WTRD, CORE VERY CRUMBLY WITH SOME LIM FRCTS	
0024.0	10.0	AND		VFG, MASS GRANULAR, DK GREY, FLOW, BK, NO FLOW STRTS, WTRD ZONES ENHANCE GALR TXTR, NON MTC, VERY THIN CARB VEINLETS	
0034.0	10.0	AND		AS ABOVE	
0040.0	6.0	AND		AS ABOVE	
0044.0	4.0	AND		BX, SIM ABOVE ONLY BXD & SLFD WITH CARB INFILLING, PX FGMS, CORE CRUMBLY	
0054.0	10.0	AND		AS @ 24.0 WITH ICRD LIM STAIN	
0065.0	11.0	AND		AS ABOVE, SBRL RELIC FSP XTL CLASTS IN UP 1FT, NMRS FINE CARB VALS @ 25	
0074.0	9.0	AND		SIM ABOVE ALTD, FINER GRAINED, GREY MATRIX, FEW RNOC & IREG VOLC FGMS PSBL FLOW CT, F DISS SILVERY MIN-MEM	
0084.0	10.0	AND		SIM ABOVE, DCRG SILICA, SOME BX	
0094.0	10.0	AND		AS ABOVE, ICRG GS SEVERAL ZONES-MICRO -DIO	
0104.0	10.0	AND		AS ABOVE WITH DIC ZONES	
0114.0	10.0	AND		FLCW BX SIM ABOVE ICRG GS, AUTO BXN ALL FGMS SAME CFSN	
0123.0	9.0	AND		FLCW BX AS ABOVE	
0133.0	10.0	DIO		MICRO, DCPG BX, ICRG GS, MASS MNGS, MORE NA FLAG THAN CA FLAG MAFICS 40%, CG PHASE OF ABOVE AND COMED COMPLEX, MTC	
0143.0	10.0	DIO		MICRO AS ABOVE	
0153.0	10.0	DIO		MICRO AS ABOVE	
0156.0	3.0	DIO		MICRO AS ABOVE FOOT OF HOLE	



BOREHOLE RECORD

DATE PROCESSED OCT 1977

BOREHOLE# 38856-0 SPUR PROPERTY 94 D 2 W NTS# SH# ANOM# DEPTH 00411 AZIMUTH 235 GRID B. 24500 DIP -55 00 ELEV 5000374 LATITUDE 4000319 DEPARTURE DATE.....

INCLINATION AND TROPARI TESTS

DEPTH AZIMUTH DIP DEPTH AZIMUTH DIP DEPTH AZIMUTH DIP DEPTH AZIMUTH DIP
0200 -55 30 0400 -55 30 0600 -55 30

COMMENTS

LOGGED BY M BIDLUCK STARTED JULY 22, 1977 COMPLETED JULY 26, 1977
DRILLED BY WRIGHT DRILLING LTD ON SPUR 4 CLAIM ALL CASING
PULLED

SAMPLE ENTRIES

DEPTH	LENGTH	MNZN	ROCK	DESCRIPTION	ANG
0000.0	0.0			CELLAR	
0008.0	8.0			OVERBURDEN	
0014.0	6.0	AND		WTRD, CORE VERY BROKEN LIM & CRUMBLY	
0024.0	10.0	AND		WTRD, LESS FRCD CORE, MASS FG DK GRY BRWN DUE LIM	
0034.0	10.0	AND		AS ABOVE	
0044.0	10.0	AND		AS ABOVE DCRG WTRG, MASS FG GREY STR UCTURELESS LAVA, HAIRLIKE FRCS WITH CARB	
0054.0	10.0	AND		AS ABOVE SLCS BY ZONE 49.5-50.0, PSBL FLOW TOP BX, FEW LGE FG BRWN BLOCKS RAFTED UNDERLYING PCLC	
0060.0	6.0	AND		AS ABOVE, IREG PTLY ASSIMILATED PCLC BLOCKS, SML ZONES WK MTC	
0068.5	8.5	DIO		SPL-MG ALLOTRIOMCRPHIC, SCTD SML RED HEMD GRNS PX DR FSP, AS @138.0	
0078.0	9.5	AND		AS ABOVE WITH PCLC BLOCKS PTLY CORRO DED	
0088.0	10.0	AND		AS ABOVE SOME BLOCKS SLCS, SML WHISPY CARB FRCS	
0098.0	10.0	AND		AS ABOVE, DCRG PCLC BLOCKS	
0108.0	10.0	AND		FG MASS DK GREY FLOW RK-NO BLOCKS	
0118.5	10.5	AND		AS ABOVE	
0124.0	5.5	DIO		MICRO ICRD GS, SHARP UCT	
0128.0	4.0	AND		ALTERED, FG BRWN-GREY ALTERED ZONE OF ABOVE FLOWS OR PSBL LGE BLOCK PCLC GRNLX UCT	
0138.0	10.0	DIO		MICRO, AS @ 124.0 SML G META-AND, MORE NA FLAG THAN CA FLAG WITH GRN ALTA, MAFICS 35%, PSBL DOME-COMPLEX TO LAVAS, DISS MT-MCD MTC-SOME RED HEM	
0148.0	10.0	DIO		MICRO, VERY MASS, HMGS, NO STRUCTURES	
0158.0	10.0	DIO		MICRO, AS ABOVE	
0168.0	10.0	DIO		MICRO, AS ABOVE	
0178.0	10.0	DIO		MICRO, AS ABOVE	
0188.0	10.0	DIO		MICRO, AS ABOVE	
0198.0	10.0	DIO		MICRO, AS ABOVE	
0203.0	5.0	DIO		AS ABOVE, ICRG WTRG YLN-GRN ALTN FSP ABNT SML FRCTS @ 55 DEG	

DEPTH	LENGTH	MVZN	ROCK	DESCRIPTION	ANG
0207.0	4.0	LC W	LC W	THRD DIO RUUBL : CAVE, PROBABLE FLT	
0209.0	2.0	CT	CT	WTHRD DIC & W 1 BSLT, 40% LC, LIM & MALACHITE STAIN	
0214.7	5.7	MVW	BSLT	WTHRD, COPE VERY BROKEN BQZ RECOVERY, DK CPEY MTX, AMYO LIM FRCS, 3-5% SULP PY CP G BN SML DISS GRNS, PY OXDO PSBLY BK, MINOR MAL STAIN ON FRCS	
0220.0	5.3	MVW	BSLT	AMYO AS ABOVE, FG DK GREY MTX ABNT WHT RND & IREG ANGDS, NMRS GRN ALTN PSEUDOMORPHIC AFIER PXS & OLVN-SREN SIP LGE PATCHES SAME, F DISS CP PY & VF PSBL CC ALL LESS THAN 1%	
0230.0	10.0	MVW	BSLT	AS ABOVE DCRG ANGDS, SOME OXDN ABND SML FRCS WITH LIM MAL FN DISS CP PY & VFN CC 1-5% IN ZONES	
0240.0	10.0	MVW	BSLT	AS ABOVE, STILL FRCS & LIM BUT LESS OXCC, 1-5% CP PY & PSBL V FN CC	
0243.0	3.0	MVW	BSLT	AS ABOVE, ICRG SULP 3-6% CP BN CC PY AS CLOTS & BLEBS CP ON FRCS & DISS, BN CC F DISS, FCTN @ 55 DEG	
0252.0	9.0	MVW	PCLC	VCLC BX XENOLITE, CORRODED & PTLY ASSIMILATED LGE PCLC BLOCKS IN BSLT, STILL VISIBLE SLEROUNDED VOLC CLASTS IN SOME BLOCKS, FEW FRCS ALL LIM MINO R MAL, CP PY REPLACES VOLC BX CLASTS, SOME INSU, DISS CC & BN TOTAL 3-6%	
0255.5	3.5	MVW	BSLT	MAYE, AS ABOVE, DCRG SULP LESS THAN 1% DISS CP PY CC (C)	
0265.0	9.5	MVW	RHY	BX, WHT HARD SLCS FRML ACID RK-FLOW PSBL LGE BLOCK SLCS PCLC RAFTED FROM LOWER UNITS, ZONE 260-262FT PSBL ACID VOLC AGGLUTINATE BDG @ 70 DEG, REST IS CASR BX, FRCS & OPEN CAVITIES LIM-MAL STAIN, PY CP CC 1-2%, MINOR DENDR ITIC DK BRN MIN-MN OR SECONDARY CU	
0269.0	4.0	MVW	RHY	BX AS ABOVE, DCRG SULP TR CP PY CC	
0280.0	11.0	MVW	RHY	PX, LGE ACLR FRCS WITH SEVERAL PHASE S CARB-OTZ INFILLING, GRNLX CT, MINOR MAL-AZURITE ON FRCS, CP PY BLEBS REPLACING VOLC FRCS, DISS ALSO, SOME CC SULP 3-5%	
0290.0	10.0	MVW	GAB	GRNLX UCT SML G ALLOTRIMORPHIC BASIC RK, GRNS ROUNDED-ABRAIDED=XTAL MUSH PX OLVN PFS, VARIABLE F DISS CP BN 0.5-2%, LOWER COPE BROKEN-CAVE	
0295.5	5.5	MVW	BSLT	DK GREY-GRN SML G GRANULAR MIX, DK GRN RELICT MAFIC XTLS PX OLVN SML FRCS GASHES VSCS OF CARB DISS BN BLEBS 1-2% OFTEN REPLACING RELICT GRN XTLS	
0299.5	4.0	MVW	GAB	WTHRD, UCT @ 10 DEG, HLY LIMC-OXDD FRCS 45 WITH LIM & MAL SLLPS 5-8% CP BN AS	
0306.6	7.1	MVW	GAB	CLETS ON SML FRCS & REPLACING MAFICS AS ABOVE SLIGHT CCRG WTHRG LIM FRCS CP BN ICRG IN ZONES INTENSE FRCS	

DEPTH	LENGTH	MVZN	ROCK	DESCRIPTION	ANG
0317.0	10.4	MVW	BSLT	SULPS 5-9% FC DK GRFY WITH INCIPIENT CARB ALTN -LIGHT GRFY, SHARP UCT @ 10 DEG, NHRS FRCS GASSETS CAVITIES IN FLOW CARB FILLED, SOME ZONES GRN RLCT MAFIC GRN S WKLY MTC, FG DISS CP BN 1-2%	
0324.0	7.0	MVW	BSLT	AS ABOVE ICRG GRN SIZE BECOMES GAB TXTR, FG DISS CP BN 1-2%	
0326.0	2.0	MVW	BSLT	AS ABOVE ICRG DISS CP BN BLEBS 4-7%	
0336.0	10.0	MVW	BSLT	AS ABOVE, HMGS SML GRN ALLOTRIOMORPHI C TXTR-MICRO GAB, FINELY DISS CP BN 1-2%	
0346.0	10.0	MVW	BSLT	AS ABOVE, PRIMARY FRCG TENDS CONCENTR ATE SULPS-FLOW EX WITH RED HEM STAIN 1-3% CP BN	
0354.2	8.2	MVW	BSLT	AS ABOVE POOR FCIN. & CARB VEINLETS @ 50 1-2% DISS CP BN	
0357.8	3.6	MVW	BSLT	SIM ABOVE BECOMES PALE GRFY DUE CARB ALTN & DCRG MAFICS FCIN @ 50 WKLY MTC FINE DISS CP BN LESS THAN 1%	
0365.4	7.6		BSLT	AS @ 354.2, MICRC GAB TXTR TR CP SPKS	
0372.0	6.6		FOPR	GRADUAL UCT-CONTAMINATED BSLT PHASE PALE GRFY MIX AENT ALTERED YLW FSP PHCR, SHARP LCT, MINOR PY ON FRCS	
0382.0	10.0		BSLT	GAB AS @ 365.4, SML GRND HMGS DK GRFY MIX SPOTTED WITH YLW-GRN RLCT FSP OR CLVN XTLS & DK GRN RLCT RXS, UCT @ 25 DK GRN PATCHES HEALED FRCS WKLY MTC	
0392.0	10.0		BSLT	GAB AS ABOVE	
0402.0	10.0		BSLT	GAB AS ABOVE ABNT RLCT FRCS @ 30-40- FLOW BANDING ENHANCED BY CARB & QTZ & HEM STAINING, RED HEMATITIC MAFIC CR FSP XTLS, FEW SML METALLIC SPKS HEM, NON MTC	
0412.0	10.0		BSLT	GAB AS ABOVE, YLW & DK GRN RLCT CLVN EX	
0422.0	10.0		BSLT	GAB AS ABOVE, CORE FRCS @ 50 DEG	
0432.0	10.0		BSLT	GAB AS ABOVE, SML HEALED FLOW BX ZONE 2426.0	
0442.0	10.0		BSLT	AS ABOVE, CORE VERY BROKEN, ABN RED HEM MAFIC XTLS	
0452.0	10.0		BSLT	GAB AS ABOVE	
0462.0	10.0		BSLT	GAB AS ABOVE CRUMBLY FRCT ZONE 358.0 -360.0	
0472.0	10.0		BSLT	GAB AS ABOVE CRUMBLY CORE @ 473-474, QTZ CARB FILLED OPEN FRCS 1 IN ACROS S @ 15	
0482.0	10.0		BSLT	GAB AS ABOVE, STILL NON MTC	
0492.0	10.0		BSLT	GAB AS ABOVE, SML BX ZONE WITH EPID CLASTS	
0502.0	10.0		BSLT	GAB AS ABOVE	
0512.0	10.0		BSLT	GAB AS ABOVE	
0522.0	10.0		BSLT	GAB AS ABOVE EPID ASSOCIATED WITH FRCS @ 513.0, ABNT RED HEM MAFIC XTLS	
0532.0	10.0		BSLT	GAB AS ABOVE	

DEPTH	LENGTH	MIN	ROCK	DESCRIPTION	ANG
0542.0	10.0		BSLT	GAB AS ABOVE, S & CARB VEINLETS @	50
0552.0	10.0		BSLT	GAB AS ABOVE	
0562.0	10.0		BSLT	GAB AS ABOVE WITH CARB MX ZONE @ 563	
0572.0	10.0		BSLT	GAB AS ABOVE SIM ABOVE DCRG GS AS MIX BEDDING, RED GRN ICRG HIM ALTN LGE GRN RLCT PX CR DLVN, POOR FDTN & CORE FRC @ 60 DEG, INTENSE FRC & CARB VEIN @ 571-572=FAULT	
0582.0	10.0		BSLT	GAB ALTERED, ICRG ALTN OF RLCT DLVN- PX NOW WHITE	
0586.5	4.5		BSLT	GAB ALTERED, AS ABOVE	
0596.0	9.5		CT	BSLT-PCLC, FRML RK BSLT & PCLC ZONES, PEBBLES RND PCLC CLASTS IN BSLT MTX LGE QTZ CAVITIES & CARB VEINLETS, CARB FRC ZONE 555.5-596.0 @ 25 DEG	
0602.0	5.0		LPTF	CG LITHIC TUFF, ANGULAR & SUBROUNDED FRAGS VARIABLE VELC CPSN IN ASH MTX, UP 2FT RED-DXON AT ORIGIN, GS ICRG WITH DEPTH, MINOR DISS HEM GRNS	
0611.0	10.0		LPTF	AS ABOVE, ORIENTATION OF CLASTS @ 65 -BEDDING FOOT OF HOLE	



BOREHOLE RECORD

DATE PROCESSED OCT 1 1977

BOREHOLE# 38857-G SPUR PROPERTY 94 0 2 H. NTS# SHW ANOM# DEPTH AZIMUTH GRID B. DIP ELEV LATITUDE DEPARTURE
 CC434 240 00 27000 -45 00 N000000 E000145 DATE.....

CHK'D.....

INCLINATION AND TROPIC TESTS

DEPTH AZIMUTH DIP DEPTH AZIMUTH DIP DEPTH AZIMUTH DIP DEPTH AZIMUTH DIP
 0200 -45 00 0400 -47 00

COMMENTS

LOGGED BY..M GIOLUCK STARTED..JULY 28, 1977 COMPLETED..JULY 31, 1977
 DRILLED 80 BY WRIGHT DRILLING LTD ON SPUR 4 CLAIM, 4FT BW CASIN
 G LEFT DOWN HOLE

SAMPLE ENTRIES

DEPTH	LENGTH	MNZN	ROCK	DESCRIPTION	ANG
0000.0	0.0			CCELLAR	
0044.0	44.0			CVERBURCEN	
0054.0	10.0	FCPR		WTHRD, UP 3FT INTS WTHRD, WHT SOFT ALT C TO CLAY MIN PRPC TXTR, SBRL FSP XTL S, LT GRY ACID MTX, PSBL XTL TUFF, CORE VERY BROKEN, 4FT LC	
0064.0	10.0	FCPR		WTHRD-ALTD, AS ABOVE, 1FT LC	
0074.0	10.0	FCPR		WTHRD-ALTD, CORE SOFT BROKEN, 2FT LC	
0083.0	9.0	FCPR		WTHRD-ALTD, LCT VERY SOFT SHRD @	45
0093.0	10.0	BSLT		HYBRID, FLOW TOP CONTAMINATED WITH PINK FSP XTLS FRM ABOVE MTX GREY- GRN WITH DK GRN BSLT FRGS, FOTN @ 35, SCTD OXDD MT-WKLY MTC	
0096.0	3.0	MVV	BSLT	HYBRID AS ABOVE, BLOCK OF PCLC @ 93- 94.5FT WITH ZONES BN CP GAL BLEBS @	
0106.0	10.0		PCLC	BLOCK OF VOL BX RAFTED IN BSLT FLOW, RED-BRWN WITH SUBANGULAR VOLC CLASTS	
0116.0	10.0	MVV	AND	FLCH BX, JPEG SHAPED IRMD VOLC FRGS IN SAME MTX, ZONES OF RED-BRWN PCLC CLASTS, F DISS CP PY GRNS & BLEBS INSU TO BX FRGS APRX 1%	
0126.0	10.0	MVV	PCLC	& AND, LGE BROKEN RAFTED PCLC BLOCK S WITH AND LAVA INFILLING, FOTN @ 35 MINOR SCTD CP PY DISS & BLEBS LESS THAN 1% PREFERRING INSU TO PCLC FRGS	
0130.5	4.5	MVV	PCLC	& AND AS ABOVE, DISS CP PY BLEBS	
0139.3	8.8		BSLT	FG GREY-GRN MTX WITH, FLOW BX FRCS @ ABNT INCIPIENT CARB ALTN & FILLING BSCS, SOME PCLC CLASTS, MASS WHT CLAY- CARB ALTN VEIN @ LCT 138-139.3, TR F DISS CP PY	45
0147.3	8.0		PCLC	BLCK REC-BRWN PCLC IN BSLT FLOW, FEW LAPILLI IN ASH MTX, FRCS HEALED BY BSLT & CARB	
0153.5	6.2	MVV	BSLT	AS @ 139.3, ABNT CARB IN OPEN FRCS & VESICLES, ZONES PCLC FRGS, MASS WHT CLAY MIN-CARB ZONE 152-153.5, F DISS CP PY BLEBS INSU TO CLASTS, TR GAL	
0162.6	9.1		BSLT	& PCLC FRGS, DK GRY-GRN BSLT MTX ABNT	

BOREHOLE# 38857-G SPUR

PAGE# 1

DEPTH	LENGTH	MNZN	RECK	DESCRIPTION	ANG
0172.0	9.4		BSLT	RED BRWN LAPILLI FRGS, EPID ALTN @162 TR DISS CP PY @161.5-162.6 AMYG, DK BRWN-GREY MIX ABNT CARB AMYG S DK GRN ALTO PX DK GLVN XTLS, ABNT EPID LGF IRG PATCHES, FRCT FILLINGS C FIMMING AMYGS, SOME PINK FSP FRCT FILLING, FOTN @ 50 DEG NON MTC	
0182.0	10.0		BSLT	AMYG AS ABOVE WITH DK GRN ZONE 174- 177.5 GRNLX TO ABOVE-BELOW	
0192.0	10.0		BSLT	AMYG, AS ABOVE ZONES OF V ABNT EPID AS ABOVE, TR SPKS GAL	
0202.0	10.0		BSLT	AMYG, AS ABOVE, ABNT RLCT MAFIC CLOTS FCTN @ 55 DEG	
0212.0	10.0		BSLT	AMYG, AS ABOVE SML PLAG LATHS VISIBLE IN MIX	
0222.0	10.0		BSLT	AMYG, AS ABOVE ICRG EPID IN FRCS & AMYGS, FEW RED CORRODED PCLC CLASTS	
0232.0	10.0		BSLT	AMYG, AS ABOVE FCTN OF FRGS PLAG & AMYGS @ 50 DEG	
0242.0	10.0		BSLT	AMYG, AS ABOVE	
0252.0	10.0		BSLT	AMYG, AS ABOVE MOST AMYGS NOW EPID RATHER THAN CARB, RLCT PX-GLVN, MIX DK BRWN-RED-GREY	
0262.0	10.0		BSLT	AMYG AS ABOVE	
0272.0	10.0		BSLT	AMYG AS ABOVE	
0282.0	10.0		BSLT	AMYG AS ABOVE	
0290.0	8.0		BSLT	SIM TO ABOVE REDDISH ZONES CONTAINING YED BY PCLC FRGS, FOTN @ 50 DEG	
0300.0	10.0		PCLC	TUFF, FG RED BRN TUFF WITH LAPILLI OF VARIABLE VOLC RK IN ZONES, SHARP CT @ 50 TC ABOVE, DIGITATION OF BSLT @ 292- 293.5, ORIENTATION OF LAPILLI @ 50	
0310.0	10.0		PCLC	TUFF, SIM ABOVE WITH ICRG FLESH PINK ANGULAR LAPILLI RHY FRGS, RK HIGHLY FPCG, CARB-SILICA INFILLING	
0321.3	11.3		PCLC	RHY LPTF, SIM ABOVE ICRG SIZE OF RHY FRGS UP TO 2 IN LONG, RAGGED-ELGD SHAPED PLL 50 DEG, CORE V BROKEN	
0331.0	9.7		BSLT	AMYG, SIM TO ABOVE WITH LESS AMYGS, FG DK BRN-GREY MIX, CARB-EPID AMYGS, DK GRN SERP RLCT MAFICS, SML ADRL PLAG STLS, UCT GRNLX EPID ON FRCTS	
0342.0	11.0		BSLT	AMYG, AS ABOVE	
0345.0	3.0		LC	LC	
0354.6	9.6		BSLT	FG DK GRN MASS FLOW, FEW SML CARB AMYGS, HAIRLINE FRCS, DISS MT WK MTC	
0364.0	9.4		BSLT	SIM TO 342 BUT ICRG AMYGS, EPID IN FRCS OF UPPER SCTN BUT ICRG, SHARP CT 15	
0374.0	10.0		BSLT	GAB AS ABOVE, NO AMYGS OR EPID, SML GRANULAR TXTR, ADRL PLAG, RLCT YLW-GRN PX-GLVN XTLS, DK GRN RLCT MAFIC MIN & ABNT RED HEM AFTER FSP CR MAFIC FOTN 40	
0384.0	10.0		BSLT	GAB AS ABOVE	
0394.0	10.0		BSLT	GAB AS ABOVE, MINCR EPID ON FEW FRCS	
0404.0	10.0		BSLT	GAB AS ABOVE	

DEPTH	LENGTH	MNZN	RCK	DESCRIPTION	ANG
0414.0	10.0		BSLT GAB AS ABOVE		
0424.0	10.0		BSLT GAB AS ABOVE		
0434.0	10.0		BSLT GAB AS ABOVE	FOOT OF HOLE	



BOREHOLE# 38857-0 SPUR

BOREHOLE# 38858-C PROPERTY SPUR NTS# 94 D 2 W SH# ANOM# DEPTH 00332 AZIMUTH 240 00 GRID B. 27000 DTP -45 00 ELEV LATITUDE N 390 E DEPARTURE 233 DATE.....

INCLINATION AND TREPARI TESTS

DEPTH AZIMUTH DIP DEPTH AZIMUTH DIP DEPTH AZIMUTH DIP DEPTH AZIMUTH DIP
0200 -45 00 0330 -45 00

COMMENTS

LOGGED BY..M GIDLICK STARTED..AUG 01,1977 COMPLETED..AUG 04,1977
DRILLED BY WRIGHT DRILLING ON SPUR 4 CLAIM, ALL CASING PULLED

SAMPLE ENTRIES

DEPTH	LENGTH	MNZN	ROCK	DESCRIPTION	ANG
0000.0	0.0			COLLAR OVERBURDEN	
0014.0	14.0	BSLT		FG DK GREY-BRN MTX SML ADRL WHT PLAC XTLS, FEW WHT CARB AMGDS & IN FLOW BX, SOME PINK FSPC INFILLING, SML RND DK GRN SERP CLOTS OF RLCT MAFI C CR AMGDS, ABNT SML DISS DK METALLIC MIN=HEM-SPECULARITE, NCN, MTC, CORE BROKEN	
0024.0	10.0	BSLT		AS ABOVE, NUMEROUS SML RED HEM GRAINS	
0034.0	10.0	BSLT		AS ABOVE,	
0044.0	10.0	BSLT		AS ABOVE, ICRG FG, INCIPIENT RED HEM STAIN, LGE IREG FRCT OF GRN CHLDR OR ZECLITE & CARB @ 39.0, CORE FRCTS @ 55	
0054.0	10.0	BSLT		AS ABOVE BUT CORE HIGHLY FRCD	
0063.0	9.0	BSLT		AS ABOVE DCRG FRCTS	
0065.2	6.2	MVM AND		DYKE SHARP UCT @ 15 DEG, LCT RAGGED & DISTINCT, FG GRN-GREY MFC GRNS, SML FPCS CARB, BSLT BLOCK @ 66.0-67.0, VERY F CP BN ON IREG FRCS WITH ABOVE CARB 3-5%	
0074.5	5.3	BSLT		AS ABOVE	
0082.5	8.0	BSLT		SIM ABOVE WITH LGE DK GRN ZECLITIC RLCT MFC OR AMYGS TO 1 IN LONG-ELGD, SCHE CARB AMYGS, MINOR CP REPLACING AMYGS & GRN CLOTS	
0091.5	9.0	MVM AND		DYKE AS 69.2, CTS @ 30 DEG, PX ZONES 85.5-89.0 WITH MASS CALCITE, FG CP BN ALONG ZONES MINUTE FRCTS, 2-5% SULPS	
0095.0	3.5	MVVW BSLT		AS AT 14.0, CORE VERY BROKEN, FG CP IN FRCTS LESS THAN 1%	
0098.0	3.0	MVVH AND		DYKE AS ABOVE, MASS FG GRN RK, ABNT MINUTE FRCTS, FG DISS CP LESS THAN 1%	
0108.0	10.0	BSLT		AS ABOVE, FG GREY BRN MTX WITH FEW RLCT MFC, ABNT RED HEM AFTER MFC	
0118.0	10.0	BSLT		AMYG PCLC BLOCKS, SIM ABOVE ICRG CARB & PINK FSP AMYGS PLL 35 DEG, FEW EPID VSCS, SEVERAL PALE ZONES=RMNS OF PCLC RAFTED BLOCKS, STILL DISS HEM GRNS	
0128.0	10.0	BSLT		AMYG & PCLC AS ABOVE	
0138.0	10.0	BSLT		AMYG & PCLC AS ABOVE RAGGED FG RED	

DEPTH	LENGTH	MNZN	ROCK	DESCRIPTION	ANG
				BRWN PCLC RMNS INT RNDD GRN CLOTS AS ABOVE=AMYGS	
0148.0	10.0		BSLT	AMYG, AS ABOVE ICRG CARB AMYGS	
0151.0	3.0		BSLT	AMYG, AS ABOVE	
0154.2	3.2		PCLC	VOLCANICLASTIC, SHARP UCT @ 60 DEG, SML G BEDDED FRML RK DF MINUTE VOLC CLTS ABNT CARB MTX, BEG @ 75 DEG	
0163.0	8.8		TUFF	MASS FG RED-BRWN ASH & MUD UNIT, IDSC BDG @ 55 DEG, FEW SML LITHIC FRGS, SML 4 IN DYKES AND @ 156, 5, 157, 08160, 0, SOME CARB IN BX ZONES	
0164.8	1.8	MVVW	AND	DYKE OR FLOW, FG GREY-GRN VOLC CFMB CTS @ 65 DEG, FG PY CP ON FRCTS	
0175.0	10.2		TUFF	AS ABOVE BUT GOOD BDG @ 65 DEG VISIB LE DUE SORTED BECS, TR PY CP ON XCTG FRCS	
0185.0	10.0		TUFF	AS ABOVE, TR FG PY CP, AND DYKE 182.0 -183.0	
0195.0	10.0		TUFF	AS ABOVE, SOME GRADED BDG=TOPS UP HOL E, TR PY CP IN FRCTS	
0205.0	10.0	MVVW	PCLC	AS @ 154.2, ICRG GS FROM ABOVE, ABNT SML VOLC CLTS FG RED-BRWN MTX, ICRG PY ON FRCS, SML BX ZONES & FRCS CARB UCT @ 15 DEG & LCT @ 65	
0215.0	10.0	MVVW	TUFF	EVOLCANICLASTIC INTD BEDS 1-4 FT THI CK, MAINLY TUFF BCD @ 65 DEG, PY IN FR CS	
0225.0	10.0	MVVW	TUFF	EVOLCANICLASTIC AS ABOVE, FG PY	
0235.0	10.0	MVVW	TUFF	EVOLCANICLASTIC AS ABOVE, FG PY	
0245.0	10.0	MVVW	TUFF	EVOLCANICLASTIC AS ICRG PY 1-3% IN	
0255.0	10.0		TUFF	AS ABOVE, DCRG VOLCANICLASTICS & PY BDG @ 60 DEG	
0265.0	10.0		TUFF	FG RED BRWN MUDEY ASH, IDSC BEG @ 60 DEG, MINUTE CARB FRCS	
0275.3	10.3		TUFF	AS ABOVE, SHARP LCT @ 35 DEG	
0285.0	9.7		BSLT	AMYG DK GREY MTX ABNT CARB AMYGS IRE G SHAPES, SOME FRGS BSLT DUE AUTO BX NRS CARB FRCS & CAVITIES, FEW DK GRN CLTS, FLOW SURFACE BROKEN, & CARB TOP 0.6 FT, PCOR FDTN @ 40 DEG	
0295.0	10.0		BSLT	AMYG, AS ABOVE ICRG SML PLAG LATHS & ALTERED RMNS RLCT UORL PX XTLS, ABNT CARB	
0297.5	2.5		BSLT	AMYG, AS ABOVE	
0303.8	6.3		AND	DYKE UCT @ 20 DEG, LCT @ 25 DEG, FG DK GRN BASIC VOLC-IRPD VOLC, SML CARB AMYGS, RARE TR PY ON FRCS WITH CARB	
0314.0	10.2		BSLT	AMYG, AS ABOVE LEE ALTO PALE GRN RMNS UHDL PX	
0319.0	5.0	MVVW	AND	DYKE FLOW, FG GREY GRN MASS RK, SML CARB AMYGS, SHARP CTS UCT 30 DEG LCT 25	
0330.0	11.0		BSLT	AMYG AS ABOVE NRS IREG SHAPES AMYGS	
0332.0	2.0		PCLC	VOLCANICLASTIC, FG RED BRWN MTX ASH-	

DEPTH LENGTH MNZN ROCK

DESCRIPTION

ANG

MUD WITH SCTD PE IZE LITHIC CLTS &
DK GRN RLCT MFC CLTS, CT @ 35 DEG
BOTTOM OF HOLE



Appendix A

ABBREVIATIONS FOR USE

IN LOGGING BORE HOLES

ABUNDANT	ABNT	BAND	BND
ACCESSORY	ASSR	BANDED	BNDD
ACID DYKE	ACDK	BANDS	BNDS
ACICULAR	ACLR	BARREN	BRN
ACIDIC	AC	BASAL	BSL
ACID HORNFELS	ACHF	BASALT	BSLT
ACTINOLITE	ACT	BASIC DYKE	BCDK
ACTINOLITIC	ACTC	BASIC HORNFELS	BAHF
AGGLOMERATE	AGLM	BEARING	BRG
ALBITIZATION	ALBZ	BECOMING	BCMG
ALASKITE	ALSK	BED	BD
ALTERATION	ALTN	BEDDING	BDG
ALTERED	ALTD	BIOTITE	BIOT
ALTERNATING	ALR	BLACK	BK
AMORPHOUS	AMRP	BLEBS	BLBS
AMOUNT	AMT	BLEBY	BLBY
AMPHIBOLE	AMPB	BLOCKY	BCKY
AMPHIBOLITE	AMPH	BLOTCHY GABBRO	BGAB
AMPHIBOLITIC	AMPC	BORNITE	BN
AMYGDALOIDAL	AMYG	BOULDER	BLDR
AMYGDULE	AMGD	BOULDERS	BLDS
ANDESITE	ANDS	BREAK	BRK
ANGULAR	AGLR	BRECCIA	BX
ANHEDRAL	ADRL	BRECCIATED	BXTD
ANORTHOSITE	AN	BRECCIA MATRIX	BXXM
ANORTHOSITIC	ANIC	BRECCIA SULPHIDE	BXSU
ANORTHOPHYLLITE	ANPL	BRITTLE	BRTL
APHANITIC	APNC	BROWN	BRWN
APLITE	APL		
APLITIC	APLC		
APPEARANCE	APRC		
APPROXIMATE	APRX		
ARGILLACEOUS	AGLC		
ARKOSE	ARK		
ARSENIDE	ARSD		
ASBESTOS	AB		
ATTITUDE	ATID	CALCAREOUS	CLCR
ATTENUATED	ATND	CALCIC	CLC
AUGEN	AGN	CALCITE	CALC
		CARBONATE	CARB
		CARBONATED	CRBD
		CARBONATE ROCK	CBRK
		CARBONATITE	CBNT
		CASING	CAS
		CAVITIES	CVTS
		CEMENTED	CMTD
		CHALCOPYRITE	CP
		CHERT	CHRT
		CHERTY	CHTY
		CHICKEN - TRACK	CKTK
		CHILLED	CHLD

CHLORITE	CHL	DACITE	DCT
CHLORITIC	CHLC	DARK	DK
CLASTS	CLTS	DECREASE	DCRS
CLEAVAGE	CLVG	DECREASING	DCRG
CLUSTER	CLSR	DEGREE	DEG
COARSE GRAINED	CG	DENSE	DS
COARSER	CRSR	DEPOSITION	DPSN
COMPLEX	CPLX	DEPOSITIONAL	DPSL
COMPOSED	CMPD	DEVELOP	DVLP
COMPOSITION	CPSN	DEVELOPED	DVPD
CONCENTRATION	CCTN	DIABASE	DIA
CONCHOIDAL	CNDL	DIABASIC	DIAC
CONCORDANT	CCRD	DIORITE	DIO
CONCRETION	CRTN	DISPLACEMENT	DPCM
CONDUCTOR	CDCR	DISSEMINATED	DISS
CONDUCTIVE	CDCV	DISSOLUTION	DSL
CONFORMABLE	CFMB	DISTINCT	DSNC
CONGLOMERATE	CONG	DISTINCTLY	DSCL
CONSTITUENT	CONS	DOLOMITE	DLMT
CONTACT	CT	DOWNWARDS	BRDS
LOWER CONTACT	LCT	DOWN HOLE	DH
UPPER CONTACT	UCT	DRILLED	DRLD
CONTENT	CNTN	DUNITE	DNT
CONTORTED	CNRD		
CORE	CORE		
CRUSHED CORE	CC		
BROKEN CORE	BC		
GROUND CORE	GC		
LOST CORE	LC		
CORONA	CRN		
COUNTRY ROCK	CTRK		
CRINKLES	CNKS		
CROSS BEDS	XBDS	ELONGATED	ELGD
CROSS BEDED	XBDD	ENRICHED	ERCD
CROSS BEDDING	XBDG	EPIDOTE	EPID
CROSS CUTTING	XCTG	EPIDOTIZED	EPDZ
CROSSFIBER	CSFB	EQUIGRANULAR	EQGR
CRYSTAL	XTL	ESTIMATE	EST
CRYSTALS	XTLS	ESTIMATED	ESTD
CRYSTALLINE	XLLS	ESTIMATION	ESTN
LIMESTONE		EXTREMELY	EXML
CUBANITE	CUB	EUHEDRAL - SEE	
		UHEDRAL	
		EXPLANATION	EXPL
		EXTENSIVE	EXSV

FABRIC	FBRC	GRANITE	GR
FAINT	FNT	GRANITE BRECCIA	GR BX
FAULT	FLT	GRANITE GNEISS	GRON
FAULTED	FLTD	GRANITIC	GRNC
FELDSPAR	FSP	GRANITIZED	GRZD
FELDSPATHIC	FSPC	GRANITIZATION	GRZN
FELDSPAR	FDPR	GRANODIORITE	GRDR
PORPHYRY		GRANOPHYRE	GRP
FELSIC	FLSC	GRANOPHYRIC	GRPR
FELSITE	FELS	GRANULAR	GRLR
FIBROUS	FBRs	GRANULITE	GRNL
FILLING	FLLG	GRAPHIC	GPHC
FINE	FN	GRAPHITE	GRPT
FINE GRAINED	FG	GRAPHITIC	GRPC
FLECKs	FLCK	GRAVEL	GRVL
FOLIATED	FOTD	GREEN	GRN
FOLIATION	FOTN	GREENSTONE	GS
FOLLOWING	FLNG	GREY	GY
FOOTWALL	FW	GREYWACKE	GWKE
FOOT OF HOLE	FOH		
FRACTURE	FRCT	HABIT	HBT
FRACTURED	FRCD	HALOS	HLOS
FRACTURES	FRCS	HANGINGWALL	HW
FRAGMENT	FRGM	HEMATITE	HEM
FRAGMENTAL	FRML	HETEROGENEOUS	HNGS
FRAGMENTS	FGMS	HIGHLY	HLY
FREQUENT	FRQN	HOMOGENEOUS	HMGS
FRIABLE	FRBL	HORNBLLENDE	HBL
		HORNBLLENDE	HBLT
		HORNFELS	HRFL
		HOST ROCK	HSRK
		HYPIDIOMORPAIC	HPMC
GABBRO	GAB		
GABBROIC	GBIC		
GALENA	GAL		
GARNET	GAR		
GARNETIFEROUS	GRFR		
GERSDORFFITE	GERS		
GLASSY	GLSY		
GNEISS	GN		
ORTHOGNEISS	ORGN		
PARAGNEISS	PRGN		
GNEISSIC	GNSC		
GRADATIONAL	GRNLX		
GRADING	GRDG		
GRAIN	G		
GRAINS	GRNS		

IMPURE	IMP	LIGHT	LF
IMPURITIES	IMPR	LIGHTER	LGTR
INCLUSION	INCL	LOCALLY	LOCL
INCLUSIONS	INCS	LOWER	LOWR
INCREASED	ICRD	LUNATE	LNT
INCREASING	ICRG	LUSTER	LSTR
INDISTINCT	IDSC		
INTENSE	INTS		
INTERCALATED	IRTD		
INTERGRANULAR	IRGL		
INTERGROWN	IRGR		
INTERGROWTH	IRGH		
INTERMEDIATE	IRMD		
INTERSTITIAL	INSU		
SULPHIDE			
INTRUSIVE	INTR	MAFIC	MFC
IRREGULAR	IREG	MAFICS	MFCS
IRON FORMATION	IF	MAGNETIC	MTC
		MAGNETITE	MT
		MARBLE	MRBL
		MARGINAL	MGNL
		MASSIVE	MASS
		MASSIVE SULPHIDE	MASU
		MATERIAL	MTRL
		MATRIX	MTX
		MEDIUM	MED
		MEDIUM GRAINED	MG
		MELANOCRATIC	MLNC
		METACRYST	MTCR
JOINT	JT	METADIABASE	MTDB
JOINTED	JTD	METADIORITE	MTDR
JOINTING	JTG	METAGABBRO	MTGB
JOINTS	JTS	METAMORPHIC	MTMC
		METAMORPHOSED	MMPD
		METASEDIMENT	MTSD
		MICACEOUS	MICS
		MIGMATITE	MGMT
		MIGMATITIC	MGMC
		MILLERITE	MLT
		MINERAL	MIN
		MINERALIZED	M
		MINERALIZED STRONGLY	MS
		MINERALIZED WEAKLY	MW
		MINERALIZED VERY WEAKLY	MVW
		MINERALIZED VERY VERY WEAKLY	MVVW
		MINOR	MNOR
LAMELLAR	LMLR	MODERATE	MOD
LAMINATED	LMND	MODERATELY	MODY
LAMINATION	LMNN	MONZONITE	MONZ
LAMPROPHYRE	LAMP	MOTTLED	MTLD
LAPPILLI_TUFF	LPTF	MUSKEG	MSKG
LEFT	LFT	MYLONITE	MYL
LENS	LNS		
LENSES	LNSS		
LEUCOCRATIC	LCRT		
LIMONITE	LIM		
LIMESTONE	LS		
LINEAMENT	LNMT		
LINEATED	LNTD		
LINEATION	LNTN		

MYLONITIC	MYLC
MYLONITIZED	MYLD
NEMATOBLASTIC	NMBC
NICCOLITE	NC
NODULES	NDLS
NUMEROUS	NMRS
NUMBERS	NMBS

OCCASIONAL	OCC
OFFSET	OFST
OLIVINE	OLVN
OLIVINE DIABASE	OD
OPHITIC	OPTC
ORBICULAR	OBCL
ORE BODY	OB DY
OUTCROP	OC
OVERBURDEN	OB
OXIDIZATION	OXDN
OXIDIZED	OXDD

PANDIOMORPHIC	PNMC
PARALLEL	PLL
PART	PRT
PARTING	PRNG
PARTLY	PTLY
PEBBLE	PBL
PEBBLES	PBLS
PEGMATITE	PEG
PEGMATITIC	PGTC
PENTLANDITE	PN
PERCENT	PCNT
PERCRYSTALLINE	PRCL
PERIDOTITE	PRDT
PERMAFROST	PRMF
PERPENDICULAR	PPDC
PHENOCRYSTS	PHCR
PHILOGOPITE	PHLG
PHYLLITE	PLLT
PICROLITE	PCLT

PINK	PK
PLAGIOCLASE	PLAG
POLYMICTIC	PLMC
POROUS	POR
PORPHYROBLAST	PRBT
PROPHYROBLASTIC	PPBC
PORPHYRITIC	PRPC
PORPHYRY	PRPH
POSSIBLE	PSBL
POSSIBLY	PSBLY
PREDOMINANT	PRDM
PREDOMINANTLY	PRDL
PRESENT	PRSN
PRIMARY	PRM
PROGRESSIVE	PRGS
PTYGMATIC	PGMC
PTYGMATICALLY	PGMY
PYRITE	PY
PYRITIC	PYC
PYROCLASTIC	PCLC
PYROXENE	PRXN
PYROXENITE	PXT
PYRRHOTITE	PO

QUARTZ	QTZ
QUARTZITE	QTE
QUARTZ DIABASE	QDIA
QUARTZ DIORITE	QD

RADIOACTIVE	RDCV
NONRADIOACTIVE	NDCV
RADIOMETRIC	RDMC
RAGGED	RGD
RECRYSTALLIZED	ROZD
RELATIVELY	RLVL
RELICT	RLCT
REMNANT	RMNT
REMNANTS	RMNS
RHYODACITE	RDCT
RHYOLITE	RHY
RIGHT	RT
ROCK	RK
ROCKS	RX
ROSETTE	RST
ROUND	RND
ROUNDED	RNDD
RUDACEOUS	RDCS
RUSTY	TSTY

SALIC	SLC
SANDSTONE	SS
SATURATED	SATD
SAUSSURITIZED	SRZD
SCATTERED	SCTD
SCHIST	SCH
SCHISTED	SCHD
SCHISTING	SCHG
SCHISTS	SCHS
SCHISTOSE	SCSS
SCHISTOSITY	SCSY
SEDIMENT	SED
SEDIMENTARY	SDMR
SEDIMENTS	SEDS
SECTION	SCTN
SEGMENT	SGMT
SEGMENTED	SGMD
SEGMENTS	SGMS
SEGREGATED	SGGD
SEGREGATION	SGN
SEGREGATIONS	SGNS
SERICITE	SRCT

SERICITIC	SRCC
SERPENTINE	SRPN
SERPENINITE	SRPT
SERPENTINIZED	SRPD
SERPENTINIZED	
PERIDOTITE	SPPD
SEVERAL	SVRL
SHALE	SHL
SHARDS	SRDS
SHEAR	SHR
SHEARED	SHRD
SHEARING	SHRG
SILICEOUS	SLCS
SILICIFIED	SLFD
SILTSTONE	SLTS
SILLIMANITE	SLMN
SKARN	SKN
SKELETAL	SKLL
SLATE	SLT
SLICKENSIDED	SCKD
SLIKESIDES	SCKS
SLIGHT	SLI
SLIGHTLY	SLLY
SLIPS	SLPS
SLUDGE	SLDG
SMALL	SML
SLUMPING	SMPG
SOLUTION	SLTN
SPECKS	SPK
SPECKS	SPKS
SPHALERITE	SPH
STAINING	SNNG
STEATITE	STTT
STEATIZED	STZD
STREAK	STK
STREAKS	STKS
STRINGER	STR
STRINGERS	STRS
STRONG	STRG
STRONGLY	STGL
STRUCTURE	STRT
SUBHEDRAL	SBRL
SULPHIDE	SULP
SURROUND	SRND
SURROUNDED	SRDD
SURROUNDING	SRDG
SYENITE	SYNT
AUGITE SYENITE	ASYN
NEPHELINE SYENITE	NSYN

TEXTURE	TXTR
THROUGHOUT	TRGT
TRACE	TR
TRACHYTE	TRCT
TRANSITION	TRNS
TREMOLITE	TREM
TREMOLITIC	TRMC
TOURMALINE	TMLN
TOURQUOIS	TRQS
TUFFACEOUS	TFCS
TUFFITE	TUFI
UHEDRAL	UDRL
ULTRABASIC	UB
ULTRAMAFIC	UM
UNDULATING	UDLG
UPWARDS	UPRD
UPHOLE	UH

VEINLETS	VNLS
VEINING	VNNG
VERY COARSE GRAINED	VCG
VESICULAR	VSC
VIOLARITE	VT
VITREOUS	VTRS
VOLCANIC	VOLC

WEAK	WK
WEAKLY	WKLY
WHITE	WHT

YELLOW	YLW
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Appendix B

THIS AGREEMENT MADE THE 19th DAY OF March 1971.

GEOLOGICAL DEPARTMENT
CORPENT 0.1.48
JUN 2 1977
FIELD EXPLORATION

BETWEEN: CANADIAN NICKEL COMPANY LIMITED
a body corporate duly incorporated under the laws of
the Province of British Columbia, and having its head
office at 709 - 1075 MELVILLE STREET, VANCOUVER, B.C.

(hereinafter called the Company)

AND: WRIGHT DRILLING LTD., a body corporate duly incorporated
under the laws of the Province of British Columbia and
having its Registered Office at Suite 305 - 186 Victoria
Street, Kamloops, British Columbia

(hereinafter called the Contractor)

WHEREAS:

A. The Company has requested the Contractor to complete
a minimum two thousand feet of drilling and related
services as hereinafter set forth on the property of the
Company in the Spur Claims west of Bear Lake, B.C.

B. The Contractor has agreed to do the said Diamond drilling
and to perform the related services requested upon the terms,
conditions and provisos hereinafter contained: Mobilization
to start on or about the last week in July.

NOW THEREFORE THIS Agreement witnesseth that in consideration of the
payment of the amounts stipulated herein and mutual promises and
covenants herein contained, it is understood and agreed by and between
the parties as follows:

1. SCHEDULE OF RATES - CORING

The Company hereby employs the Contractor to drill a series of
bore holes on the said property using a BQ core barrel producing
a core of approximately 1 7/16 inches. The Company agrees to
pay the Contractor on a footage basis for all drilling according
to the following schedule of rates:

<u>Coring</u>	<u>From</u>	<u>To</u>	<u>Price/foot</u>
	0'	500'	\$13.75
	500'	900'	\$14.25
<u>Overburden</u>			
	0'	25'	\$13.75
	25'	50'	\$14.25
	50 plus		Field cost

2. TRANSPORTATION AND MOVES

A. It is agreed that the moving of drill and camp equipment,
supplies and personnel to the transport discharge point and return
from the transport loading point, shall be the Company's account
at a lump sum of twelve hundred dollars with seventy-five
percent (75%) payable upon completion of the move in and the
remaining twenty-five (25%) payable upon completion of the minimum
footage. (Mobilization from Kamloops to Johanson Lake return)

B. In the event access to the drilling area cannot be realized with
the Contractor's truck, moving from the truck discharge point to
the drilling area will be for the Company's account at the specified
labour rate.

C. The COMPANY agrees to erect a suitable camp for the purpose of providing room and board for personnel associated with the drilling operation. Erection and dismantling of the camp will be for the Company's account at the specified labour rate.

D. It is agreed that moves between drill sites shall be at the agreed labour rate. Moving time shall be from the time of completion of pulling to set - up time at the next drill site. No machine rental charge will be made unless the rig is used to move itself.

3. WATER SUPPLY

If the source of water supply is at a greater distance than two thousand (2000) feet from the drilling site, or over three hundred (300) feet vertical lift, the Contractor will be paid the extra cost of supplying water to the drill site in addition to the other contract charges.

4. MUD AND ADDITIVES:

If ever required to help penetrate the overburden and or aid in core recovery, would be supplied at cost on the job site plus ten percent. Time spent mixing mud and stabilizing the hole would be charged on a field cost basis.

5. REAMING CASING AND CEMENTING:

If ever necessary to help prevent cave-ins, would be performed on a field cost basis.

6. DIRECTIONAL AND CONTROLLED DRILLING

It is mutually agreed that directional drilling to change the direction of a bore hole and controlled drilling to maintain the angle of a bore hole shall not be part of this agreement.

7. SECURITY

The Contractor will not give out any information regarding drill results or access to any person other than to the Company's representative.

8. BOARD AND LODGING

The COMPANY agrees to provide board and lodging for Contractor men at its own expense, and to provide meals to a limited number of the Company's representatives at the rate of NIL per meal. The Contractor will supply the camp cook.

The Company agrees on fly-in jobs that all transportation and expediting costs be charged to the Company's account.

9. CORE BOXES

It is mutually agreed, that if requested, core boxes would be supplied on the job site at cost, plus ten percent (10%).

10. STANDBY

It is agreed that standby, dip testing, delay time or other time which the Contractor's crews are performing services for the Company, not otherwise covered herein, shall be performed at a field cost basis.

11. HELICOPTER PROJECTS

The Company agrees that on helicopter jobs they will supply all fuels and transportation cost from truck discharge point to drill sites at no cost to the Contractor.

Appendix C

WRIGHT DRILLING LTD.
1310 - WINDWARD PLACE
KAMLOOPS, B.C.
V2E 1A5

INVOICE NO. 154

SOLD TO

SHIPPED TO

CANADIAN NICKEL COMPANY
709-1075 MELVILLE ST.
VANCOUVER, B.C.

BEAR LAKE

DATE	ORDER NO.	SALESMAN	TERMS	SHIPPED VIA	PAID	COLL.
2/25/77			15 DAYS			
DIAMOND DRILLING June 5-15/77						\$11,282.31
O.K. for payment 6080B-14-010						
Paid Sept. 8, 1977						
Total						\$11,282.31

WRIGHT DRILLING LTD.
1510 - WINDWARD PLACE
KAMLOOPS, B.C.
V2E 1A6

INVOICE NO. 160

SOLD TO

SHIPPED TO

Canadian Nickel Company
704-1075 MELVILLE ST.
VANCOUVER, B.C.

By Air

DATE	ORDER NO.	SALESMAN	TERMS	SHIPPED VIA	QTY.	COLL.
10/6/77						
DESCRIPTION					PRICE	AMOUNT

DIAMOND DRILLING AUG 1-7, 1977

\$7,025.00

OK for payment 60803-14010

Paid Sept. 1977

Total

\$7,025.00



WRIGHT DRILLING LTD.
 1510 - WINDWARD PLACE
 KAMLOOPS, B.C.
 V2E 1A6

INVOICE NO. 155

SOLD TO

SHIPPED TO

CANADIAN NICKEL COMPANY
 709-1075 MELVILLE ST.
 VANCOUVER, B.C.

SALE CLAIMS
 BEAR LAKE

DATE	ORDER NO.	SALESMAN	TERMS	SHIPPED VIA	PRICE	COLL.
Aug 15/77						
DIAMOND DRILLING AUG 16-31/77					28,669.39	
O.K. for payment						
60303-14010						
Paid						
Sept. 1977						
MS						
Total					28,669.39	

INVOICE

WRIGHT DRILLING LTD.
1510 - WINDWARD PLACE
KAMLOOPS, B.C.
V2E 1A6

INVOICE NO. 167

SOLD TO

SHIPPED TO

CANADIAN NICKEL COMPANY
709 - 1075 MELVILLE ST.
VANCOUVER, B.C.

DATE	ORDER NO.	SALESMAN	TERMS	SHIPPED VIA	PPD.	COLL.
12/9/77			15 DAYS			
QUANTITY	DESCRIPTION			PRICE	AMOUNT	
	DIAMOND TOOLS CONSUMED DRILLING THROUGH FAULTS				\$1717.07	
	OK. [Signature] of [Signature]					
	Oct. 5/77					
				60803-14010-553		
				TOTAL	\$1717.07	

Appendix D

QUALIFICATIONS

I, Marcus John Gidluck of 106 Cross Street, Lively, Ontario, graduated with a B.Sc. degree in geology from the University of British Columbia in 1965. Since that time I have been employed by Inco Limited and its subsidiaries as a mineral exploration geologist.

Some of the projects in which I have been actively involved include nickel exploration in Northern Ontario, nickel and basemetal exploration in West Australia, porphyry-copper and basemetal exploration in British Columbia and Washington state and gold exploration in the Kirkland Lake district.

At the present I am a Project Geologist with Inco Limited, a member of the Geological Association of Canada and a registered member with the Association of Professional Engineers of Ontario.



M. J. Gidluck, P.Eng.
Project Geologist
Inco Metals Company

12. DRILLING SITES

The Contractor agrees to case and drill on the sites and at angles and azimuths selected by the Company representative and to follow the instructions of the said representative relating to place and time of drilling.

13. CAVES

In the event that cavities or loose and caving materials are encountered of a nature as to prevent the successful completion of any hole, the Contractor does not, under such conditions, guarantee to drill to a predetermined depth and, in the event that it becomes necessary to abandon the hole, the Company agrees to pay for such uncompleted holes at the rate herein specified for all footage completed.

In the event it becomes necessary to resort to cementing, reaming of casing or mud circulation in bedrock, the Company agrees to reimburse the Contractor at field cost.

Whenever pipe or casing is lost or left in a hole on the instruction of the Company's engineer, the Company agrees to pay the Contractor for such pipe or casing at cost, f.o.b. drill site. Caved or broken ground to be drilled on a field cost basis, if encountered.

14. TRACTOR

If required, the Contractor will supply at the Company's cost a tractor for the construction and maintenance of access roads, drill site preparation and cleanup and the moving of the diamond drill.

15. FIELD COST

It is agreed that the hourly rate shall be interpreted here and hereinafter to be thirty - seven per hour, per drill outfit. It is also agreed that the Contractor shall include in the hourly rate the cost of supplying a regular two man drill crew, supervision and maintenance as required, drilling machinery and associated equipment, fuels, and board and lodging for the drill crew.

In the event labour over and above the regular two man crew and supervision are required, the Contractor agrees to supply such additional labour at the rate of sixteen dollars per man per hour.

It is further agreed and understood that when the Contractor is working at the field cost rate, the cost of pipe or casing lost or left in the hole, diamond articles and materials and supplies consumed in the work shall be for the Company's account at cost, plus 10%

16. PAYMENT

The Company agrees to pay the Contractor, in Canadian funds the above prices. Payment to be made within 15 days of the date of the account rendered. Invoices shall be submitted twice monthly.

17. COMPENSATION AND INSURANCE

The Contractor agrees that the men employed by him in the performance of this Contract shall be fully covered under Worker's Compensation laws according to the Province of British Columbia and will keep such men covered and will pay the assessment required and will protect the Company from any action arising therefrom, excluding however, claims arising out of any negligent act or omission of the Company, its servants or agents.

The Contractor shall, at his own cost, maintain Liability and Property damage insurance in the amount of five hundred thousand (\$500,000.00) dollars.

The Contractor carries an all perils insurance policy limited to \$20,000.00 per drilling outfit at his own cost. The Company agrees that additional insurance cost incurred for flying or barging of equipment will be to their account.

18. RIGHT OF ENTRY AND REMOVAL OF EQUIPMENT.

Company will provide at its own expense, all rights of way, both ingress and egress, and the peaceable possession of all real property that may be required in connection with said work including real property upon which all necessary temporary buildings and other facilities may be erected, or placed, and will save the Contractor harmless from any and all damages, claims, demands, costs or charges of whatsoever kind or character incident to the occupation and use of said real property.

Upon completion of such work by the Contractor, the Contractor shall have the right to remove, within a reasonable length of time, all temporary buildings and other fixtures, trade fixtures, machinery, equipment, appliances and facilities furnished by and placed upon such real property by Contractor.

19. LIENS

The Contractor shall be responsible for and will pay promptly all costs and charges, incurred by itself for labour, machinery, tools and supplies used in completing the work hereunder so that no lien or other such charge relative to the Contractor, may be registered against the Company or the property.

20. FORCE MAJEURE

Neither party to the agreement shall be liable for any loss or damage caused by reason of strikes, acts of God, action of the elements, or any other causes beyond its control.

21. LAWS APPLICABLE

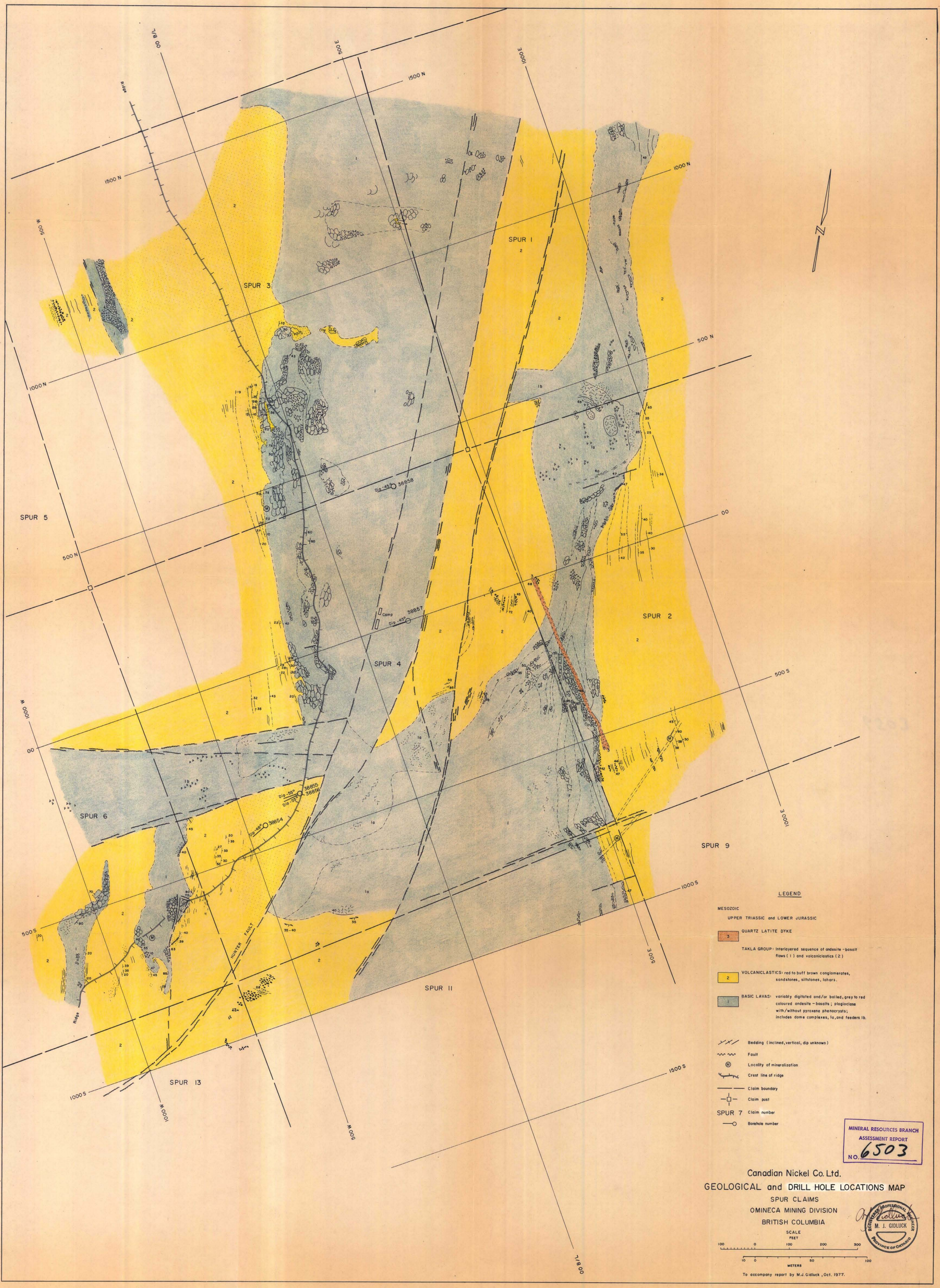
This agreement shall be interpreted and any dispute arising hereunder shall be determined in accordance with the laws of the Province of British Columbia.

22. ASSIGNMENTS

This agreement shall be binding upon and shall inure to the benefit of the parties hereto, their respective successors and assignees, provided, however, that the same shall not be assignable by either party until the consent in writing of the other shall have first been had and obtained thereto.

IN WITNESS THEREOF, this agreement has been executed by the parties hereto the day and the year first herein written.

By *John McNeil*
CANADIAN NICKEL COMPANY LIMITED
By *D. Wright*
WRIGHT DRILLING LTD.

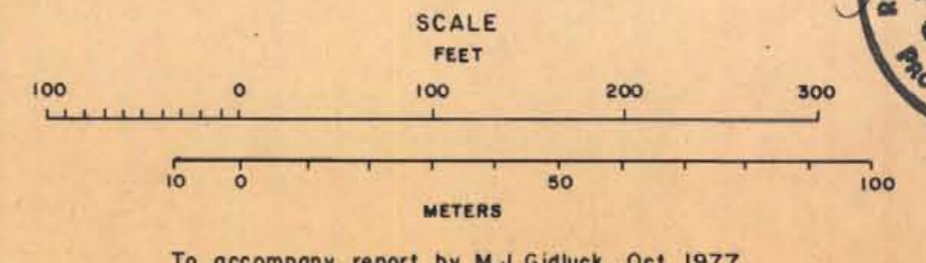


LEGEND

- MESOZOIC
UPPER TRIASSIC and LOWER JURASSIC
- 3 QUARTZ LATITE DYKE
 - TAKLA GROUP: Interlayered sequence of andesite-basalt flows (1) and volcanoclastics (2)
 - 2 VOLCANICLASTICS: red to buff brown conglomerates, sandstones, siltstones, lahars.
 - 1 BASIC LAVAS: variably digitated and/or balled, grey to red coloured andesite-basalts; plagioclase with/without pyroxene phenocrysts; includes dome complexes, la, and feeders lb.
- Bedding (inclined, vertical, dip unknown)
 - Fault
 - Locality of mineralization
 - Crest line of ridge
 - Claim boundary
 - Claim post
 - SPUR 7 Claim number
 - Borehole number

MINERAL RESOURCES BRANCH
ASSESSMENT REPORT
NO. 6503

Canadian Nickel Co. Ltd.
GEOLOGICAL and DRILL HOLE LOCATIONS MAP
SPUR CLAIMS
OMINECA MINING DIVISION
BRITISH COLUMBIA



To accompany report by M.J. Gidluck, Oct. 1977.

