



52N08SW0033 20 SATTERLY LAKE

010

DIAMOND DRILLING

Area: Satterly Lake

Report No: 20

WORK PERFORMED FOR: Kidd Creek Mines

RECORDED HOLDER: SAME AS ABOVE [x]

: OTHER [ ]


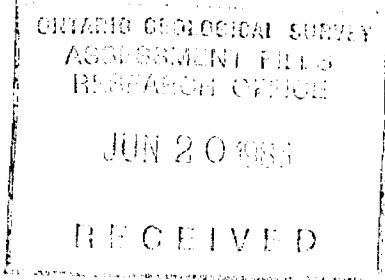
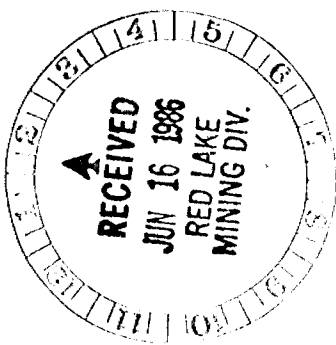
<u>CLAIM NO.</u>	<u>HOLE NO.</u>	<u>FOOTAGE</u>	<u>DATE</u>	<u>NOTE</u>
KRL 720266	L086-1	52.42m	Mar/86	(1)
KRL 720271	L086-2	28.35m	"	(1)
"	L086-3	100.58m	"	(1)
KRL 720271	L086-4	83.06m	Apr/86	(1)
"	L086-5	70.71m	"	(1)
"	L086-6	70.1m	"	(1)
"	L086-7	48.46m	"	(1)
"	L086-8	56.08m	"	(1)

NOTES: (1) #44-86

**FALCONBRIDGE NICKEL MINES LIMITED**

**DIAMOND DRILL RECORD**

LOCATION 1+44S, 12+96E DIRECTION 050° DIP -45° HOLE No. L0-86-1  
 LOGGED BY J. Pattison CASING 3.96 meters SHEET No. \_\_\_\_\_  
 STARTED March 3, 1986 CORE SIZE BQ CORRECTED TESTS none  
 FINISHED March 15, 1986  
 PROPERTY LOYDEX OPTION 1

FROM	TO	SUMMARY LOG	DESCRIPTION
meters	meters		
0	3.96	CASING	
3.96	4.27	GREYWACKE	
4.27	11.36	GREYWACKE/MAFIC TUFF	
11.36	11.44	MAFIC FLOW?	
11.44	17.37	GREYWACKE/MAFIC TUFF	
17.37	52.42	MAFIC TUFF	
	52.42	END OF HOLE	Hole abandoned due to blocking, caving and sand seams, Casing left in hole
			Hole drilled to test Loydex showing and the VLF conductor to the north.
			GDS
			 <i>Richard Kenny</i>

FALCONBRIDGE NICKEL MINES LIMITED

DIAMOND DRILL RECORD

LOCATION 1+44S, 12+96E DIRECTION 050° DIP -45° HOLE No. L0-86-1  
 LOGGED BY J. Pattison CASING 3.96 meters SHEET No. 1  
 STARTED March 3, 1986 CORE SIZE BQ CORRECTED TESTS none  
 FINISHED March 15, 1986  
 PROPERTY LOYDEX OPTION 1

FROM	TO		DESCRIPTION
meters	meters	length	
0	3.96	3.96	<u>CASING</u> Overburden consists of granitic and fine grained chloritized mafic boulders. One 85 cm wide boulder of greywacke
3.96	4.27	0.31	<u>GREYWACKE</u> Blue-grey in colour. Sand-sized grains with occasional mud clasts up to 5 mm in diameter. Bedding is at 30° to 40° to the core axis and the rock is moderately sheared at 55° to the core axis. The rock is strongly carbonatized and contains 1 to 4 % pyrrhotite and tr. to 1% pyrite along shear planes.
4.27	11.36	7.09	<u>GREYWACKE/MAFIC TUFF</u> Blue-grey in colour. Sand-sized grains with thin mud beds less than 1 cm thick at 50° to the core axis. There is a moderate pervasive shearing at 45° to the core axis. Tr. to 3% pyrrhotite occurs along the shear planes. Some of this pyrrhotite contains trace amounts of exsolved chalcopyrite. Below 14.10m there is only trace pyrrhotite. At 4.30m: blue quartz-carbonate veinlet 1.5 cm thick at 50° to the core axis. 4.90 - 5.00 Numerous qtz-carb. clots and veinlets at 50 to 60° to the core axis with 3% diss. pyrrhotite in the surrounding rock.

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**DIAMOND DRILL RECORD**

LOCATION \_\_\_\_\_ DIRECTION \_\_\_\_\_ DIP \_\_\_\_\_ HOLE No. L0-86-1

LOGGED BY \_\_\_\_\_ CASING \_\_\_\_\_ SHEET No. 2

STARTED \_\_\_\_\_ CORE SIZE \_\_\_\_\_ CORRECTED TESTS \_\_\_\_\_

FINISHED \_\_\_\_\_

PROPERTY \_\_\_\_\_

FROM	TO		DESCRIPTION
			5.26 and 5.36 small (less than 2 mm) blebs of arsenopyrite.
			5.30 Quartz-carb. vein 1.5 cm wide at 50° to the core axis with 10 to 15% pyrrhotite.
			5.62 - 6.02 Quartz veinlets and pods up to 3 mm wide comprise 5% of the rock.
			6.15 Quartz-carb. veinlet 5 mm wide at 50° to the core axis.
			6.58 Quartz-carb veinlet 2 mm wide at 60° to the core axis.
			7.28 Quartz-carb stringers at 30° to the core axis.
			7.73 - 7.82 Quartz-carb pods and veinlets at 45 to 50° to the core axis with 2% pyrrhotite.
			8.18 Pyrrhotite veinlet at 50° to the core axis.
			10.86 - 11.08 Quartz-carb vein at 35° to the core axis with 1% pyrite, pyrrhotite and trace chalcopyrite along the pyrrhotite grain boundaries. There may also be several specks of arsenopyrite but these are probably metal from the core barrel.
11.36	11.44	0.08	<p><u>MAFIC FLOW?</u></p> <p>Blue grey, fine grained with calcite filled amygdules 1 to 2 mm in diameter at the upper contact indicating tops up hole.</p>

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DIAMOND DRILL RECORD

LOCATION \_\_\_\_\_ DIRECTION \_\_\_\_\_ DIP \_\_\_\_\_ HOLE No. L0-86-1

LOGGED BY \_\_\_\_\_ CASING \_\_\_\_\_ SHEET No. 3

STARTED \_\_\_\_\_ CORE SIZE \_\_\_\_\_ CORRECTED TESTS \_\_\_\_\_

FINISHED \_\_\_\_\_

PROPERTY \_\_\_\_\_

FROM	TO		DESCRIPTION
			Contacts are at 50° to the core axis. The rock is moderately chloritized and carbonatized and contains trace disseminated pyrrhotite.
11.44	17.37	5.93	<u>GREYWACKE/MAFIC TUFF</u> Same as 4.27 to 11.36. Below 14.10 there is only trace po 12.58 Quartz-carb veinlets 2 to 5 mm wide at 60° to the core axis. 13.17 Quartz-carb veinlet 5 mm at 60° to the core axis.
17.37	52.42	35.05	<u>MAFIC TUFF</u> Blue-grey in colour, fine grained (ash) and similar to the greywacke above except that bedding is less discernable and there are no mud beds or clasts. The rock is moderately strongly sheared at 50 to 55° to the core axis and moderately chloritized and carbonatized. Below 39.83 the tuff is moderately silicified. There are several quartz-carb veinlets at 50 to 80° to the core axis and trace disseminated pyrrhotite. 32.20 - 32.32 Quartz-carb vein at 70° to the core axis with 1 to 2% pyrite in chloritic wall rock xenoliths. 32.40 - 33.00 Quartz-carb vein at 25 to 70° to the core axis with biotite + pyrrhotite + pyrite + chlorite. 34.14 - 34.22 Quartz-carb clot or irregular vein cutting a 1.5 cm wide biotite vein with 1% pyrite-

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DIAMOND DRILL RECORD

L0-86-1

LOCATION \_\_\_\_\_ DIRECTION \_\_\_\_\_ DIP \_\_\_\_\_ HOLE No. \_\_\_\_\_

LOGGED BY \_\_\_\_\_ CASING \_\_\_\_\_ SHEET No. 4

STARTED \_\_\_\_\_ CORE SIZE \_\_\_\_\_ CORRECTED TESTS \_\_\_\_\_

FINISHED \_\_\_\_\_

PROPERTY \_\_\_\_\_

FROM	TO	DESCRIPTION
		pyrrhotite at 40° to the core axis.
35.30		Quartz-carb vein 1.5 cm wide at 70° to the core axis with trace pyrite and pyrrhotite.
35.36 - 36.60		Strong pervasive and fracture controlled carbonatization. Most of the carbonate veinlets are at 50 to 60° to the core axis. The rock contains 1 to 2% pyrite and pyrrhotite.
37.30 - 37.85		Broken pebbly core. Poor core recovery.
37.85 - 39.66		Strongly chloritized moderately carbonatized zone. Tr. to 2% pyrrhotite and pyrite along shear planes at 60° to the core axis.
39.83 - 40.45		Intensely silicified zone with 10% diss. pyrite. The quartz has a distinct bluish hue. There is little carbonate and it is restricted to fractures. Much of the core in this section has been ground and recovery is poor.
42.38 - 42.44		Intense fracture controlled carbonatization.
46.40 - 46.73		Pyrrhotite-pyrite veinlets at 40° to the core axis comprise 2 to 3% of the core.

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DIAMOND DRILL RECORD

LOCATION \_\_\_\_\_ DIRECTION \_\_\_\_\_ DIP \_\_\_\_\_ HOLE No. L0-86-1

LOGGED BY \_\_\_\_\_ CASING \_\_\_\_\_ SHEET No. 5

STARTED \_\_\_\_\_ CORE SIZE \_\_\_\_\_ CORRECTED TESTS \_\_\_\_\_

FINISHED \_\_\_\_\_

PROPERTY \_\_\_\_\_

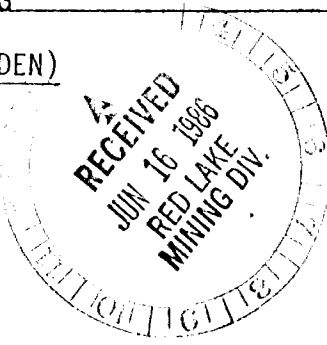
FROM	TO	DESCRIPTION
		46.73 - 48.00 Quartz-carb veinlets and veins up to 5 cm thick comprise 20 to 30% of the core. The veins generally contain 5 to 10% pyrite + pyrrhotite + magnetite ± tourmaline along their edges.
		48.20 Broken and ground up core.
		49.54 -50.16 Quartz-carb veinlets and veins up to 2 cm thick at 40 to 60° to the core axis with up to 10% pyrite.
		50.60 - 50.82 Quartz-carb clots and veinlets up to 3 mm thick at 50° to the core axis with 5% pyrrhotite + pyrite.
		51.80 - 52.42 Quartz-carb. veins, veinlets and clots up to 2 cm wide at 45° to the core axis. No sulphides.
	52.42	<u>END OF HOLE</u>
		Contractor: Martinson Linecutting & Staking Ltd. Suite 304, 576 England Avenue, Courtenay, B.C. V9N 5M7
		Hole abandoned due to blocking, caving and sand seams, casing left in hole

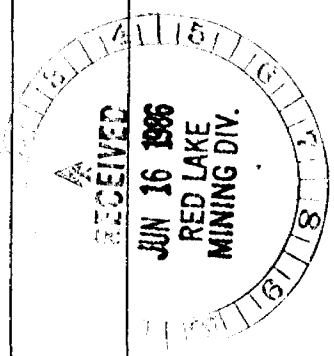
**FALCONBRIDGE NICKEL MINES LIMITED**

**DIAMOND DRILL RECORD**

RLK

LOCATION 9+30S, 11+14E DIRECTION 360° DIP -45° HOLE No. 10-86-2  
 LOGGED BY J. Pattison CASING 2.13m SHEET No. \_\_\_\_\_  
 STARTED March 15, 1986 CORE SIZE BQ CORRECTED TESTS none  
 FINISHED March 22, 1986  
 PROPERTY LOYDEX OPTION 1 PN 935

FROM meters	TO meters	length	SUMMARY LOG	DESCRIPTION
0	2.13	2.13	<u>CASING (OVERBURDEN)</u>	 <p>Contractor: Martinson Linecutting &amp; Staking Ltd., Courtenay, B.C.</p> <p>Hole to test IP chargeability anomaly and mineralization in trenches "J" and "E". Abandoned due to mechanical problems with drill.</p> <p align="right">GDS</p>
2.13	8.34	6.21	<u>QUARTZ DIORITE</u>	
8.34	8.57	0.27	<u>MAFIC DYKE</u>	
8.57	28.35	19.78	<u>QUARTZ DIORITE</u>	
	28.35		<u>END OF HOLE</u>	



*Richard Kenney*



FALCONBRIDGE NICKEL MINES LIMITED

DIAMOND DRILL RECORD

LOCATION 9+30S, 11+14E DIRECTION 360° DIP -45° HOLE No. L0-86-2  
 LOGGED BY J. Pattison CASING 2.13m SHEET No. 1  
 STARTED March 15, 1986 CORE SIZE BQ CORRECTED TESTS none  
 FINISHED March 22, 1986  
 PROPERTY LOYDEX OPTION 1 PN 935

FROM meters	TO meters	length	DESCRIPTION
0	2.13	2.13	<u>CASING (OVERBURDEN)</u> Sand
2.13	8.34	6.21	<u>QUARTZ DIORITE</u> Blue grey, fine grained with an occasional blue quartz phenocryst 2-3 mm in diameter. Composed of 70-80% feldspar, 15-20% quartz, 5-10% diss. pyrite, 1-2% pyrrhotite, 5% calcite, less than 5% biotite, less than 5% tourmaline. Moderately to strongly silicified. Moderate to strong pervasive carbonatization. 2.30 - 2.40 Brecciated zone at 50° to the core axis. Angular quartz diorite clasts upto 3 cm wide in a matrix of tourmaline + carbonate + pyrite. 2.50 - 2.70 as 2.30 to 2.40 at 60° to the core axis. 2.94 - 3.10 as 2.30 to 2.40 at 70° to the core axis. 5.84 Quartz + carbonate vein 6 mm wide at 50° to the core axis. 2% pyrite. 6.08 - 6.68 as at 2.30 - 2.40
8.34	8.57	0.27	<u>MAFIC DYKE</u> Green-grey, fine grained, massive. Irregular upper and lower contacts at 70° to the core axis. No sulphides.
8.57	28.35	19.78	<u>QUARTZ DIORITE</u> Same as 2.13 - 8.34. Moderate spotty chloritization. Moderate pervasive silicification. 5% pyrite associated with chlorite clots 1 to 3 mm in diameter.

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**DIAMOND DRILL RECORD**

LOCATION \_\_\_\_\_ DIRECTION \_\_\_\_\_ DIP \_\_\_\_\_ HOLE No. L0-86-2  
 LOGGED BY \_\_\_\_\_ CASING \_\_\_\_\_ SHEET No. 2  
 STARTED \_\_\_\_\_ CORE SIZE \_\_\_\_\_ CORRECTED TESTS \_\_\_\_\_  
 FINISHED \_\_\_\_\_  
 PROPERTY \_\_\_\_\_

FROM	TO	DESCRIPTION
		9.22 Carbonate + chlorite veinlet 3 mm wide at 50° to the core axis. 5% pyrite. Rock is intensely silicified for 0.5 cm on either side of veinlet.
		10.44 Bull quartz vein 1.5 cm at 40° to the core axis.
		12.85 Blue quartz-carbonate-tourmaline veinlet 3 mm wide at 75° to the core axis with 5 % pyrite.
		13.81 Tourmaline - carbonate - quartz vein 1 cm wide at 80° to the core axis with 10% pyrite.
		13.85 Tourmaline - carbonate - quartz vein 1.5 cm wide at 80° to the core axis with 10% pyrite.
		14.00 Quartz - carbonate - tourmaline vein 1.25 cm wide at 80° to the core axis with 5 % pyrite.
		14.05 Quartz - carbonate - tourmaline vein 8 mm wide at 70° to the core axis with 2% py.
		14.14 Quartz - carbonate veinlet 3 mm wide at 90° to the core axis with 12% pyrite.
		16.05 Tourmaline - chlorite veinlet 3 mm wide at 80° to the core axis with 15% py.
		17.02 - 17.10 Quartz-carb vein at 70° to the core axis with 5% py along the edge of the vein.
		18.10 Quartz-carb-tourmaline veinlet 4 mm wide at 80° to core axis with 5 % py.
		20.37 Quartz-carb-tourmaline veinlet at 45° to the core axis with 1% py.

# FALCONBRIDGE NICKEL MINES LIMITED

## DIAMOND DRILL RECORD

LOCATION \_\_\_\_\_ DIRECTION \_\_\_\_\_ DIP \_\_\_\_\_ HOLE No. \_\_\_\_\_

LOGGED BY \_\_\_\_\_ CASING \_\_\_\_\_ SHEET No. L0-86-2

STARTED \_\_\_\_\_ CORE SIZE \_\_\_\_\_ CORRECTED TESTS 3

FINISHED \_\_\_\_\_

PROPERTY \_\_\_\_\_

FROM	TO	DESCRIPTION
		20.80 Quartz-carb veinlet, 3 mm wide at 30° to the core axis with tr py.
		27.95 Quartz-carbonate veinlet 2 mm wide at 50° to the core axis with 20% py.
	28.35	<u>END OF HOLE</u>
		Contractor: Martinson Linecutting & Staking Ltd., Courtenay, B.C.
		Hole to test IP chargeability anomaly and mineralization in trenches "J" and "E". Abandoned due to mechanical problems with drill.

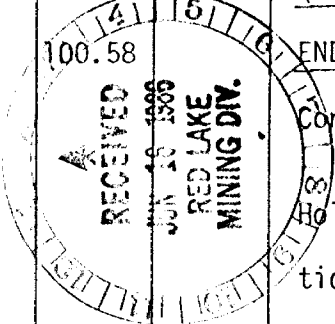
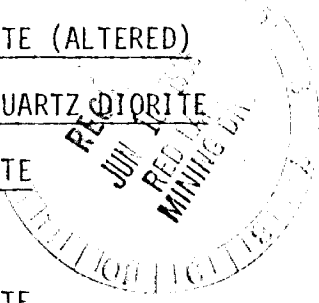
**FALCONBRIDGE NICKEL MINES LIMITED**

**DIAMOND DRILL RECORD**

*RLK*

LOCATION 9+30S, 11+14E DIRECTION 360° DIP -45° HOLE No. LO-86-3  
 LOGGED BY J. Pattison CASING 1.30 SHEET No. \_\_\_\_\_  
 STARTED March 28, 1986 CORE SIZE 1AW CORRECTED TESTS 99.67 - 43°  
 FINISHED March 31, 1986  
 PROPERTY LOYDEX OPTION 1

FROM meters	TO	length	SUMMARY LOG	DESCRIPTION
0	1.30	1.30	<u>OVERBURDEN</u>	
1.30	1.43	0.13	<u>QUARTZ DIORITE (ALTERED)</u>	
1.43	3.04	1.61	<u>BRECCIATED QUARTZ DIORITE</u>	
3.04	9.70	6.66	<u>QUARTZ DIORITE</u>	
9.70	11.56	1.86	<u>MAFIC DYKE</u>	
11.56	32.47	20.91	<u>QUARTZ DIORITE</u>	
32.47	32.54	0.07	<u>MAFIC DYKE</u>	
32.54	37.04	4.50	<u>QUARTZ DIORITE</u>	
37.04	38.25	1.21	<u>MAFIC DYKE</u>	
38.25	42.03	3.78	<u>QUARTZ DIORITE</u>	
42.03	42.77	0.74	<u>MAFIC DYKE</u>	
42.77	43.31	0.54	<u>QUARTZ DIORITE</u>	
43.31	43.41	0.10	<u>MAFIC DYKE</u>	
43.41	47.17	3.76	<u>QUARTZ DIORITE</u>	
47.17	47.58	0.41	<u>MAFIC DYKE</u>	
47.58	48.73	1.20	<u>QUARTZ DIORITE</u>	
48.73	62.56	14.83	<u>MAFIC DYKE</u>	
62.56	100.58	37.02	<u>QUARTZ DIORITE</u>	
100.58			<u>END OF HOLE</u>	



Contractor: Martinson Linecutting & Staking Ltd., Courtenay, B.C.

Hole drilled to test IP chargeability anomaly and mineralization in trenches "J" and "E". Collared 0.3m north of hole LO-86-2 which was abandoned due to mechanical problems with the BDS-1 unit.

**FALCONBRIDGE NICKEL MINES LIMITED**

DIAMOND DRILL RECORD

LOCATION 9+30S, 11+14E DIRECTION 360° DIP -45° HOLE No. 10-86-3

LOGGED BY J. Pattison CASING 1.30m SHEET No. 1

STARTED March 28, 1986 CORE SIZE IAW CORRECTED TESTS 99.67 - 43°

FINISHED March 31, 1986

PROPERTY LOYDEX OPTION 1

FROM meters	TO	length	DESCRIPTION
0	1.30	1.30	<u>OVERBURDEN</u> Sand
1.30	1.43	0.13	<u>QUARTZ DIORITE (ALTERED)</u> Pinkish olive green in colour. Feldspar laths up to 3 mm in length in a feldspar-chlorite-biotite-calcite matrix comprise 10% of the rock. There is a moderate foliation at 40° to the core axis. Moderate hematite alteration gives the rock a pinkish hue. There is trace disseminated pyrite.
1.43	3.04	1.61	<u>BRECCIATED QUARTZ DIORITE</u> Bluish-grey fine grained with many randomly oriented fractures up to 3 mm wide filled with tourmaline. These fractures contain 1 to 5% py and tr to 2% pyrrhotite. 2.13 Quartz veinlet 3 mm wide at 40° to the core axis with 1% pyrrhotite and 10% tourmaline 2.58 - 2.62 Quartz-carb clot or vein 2.5 cm thick at 45° to the core axis. Tourmaline, pyrrhotite and py occur along the edges of the vein.
3.04	9.70	6.66	<u>QUARTZ DIORITE</u> Blue-grey with pale green chlorite clots up to 3 mm in diameter. The rock is fine grained, feldspar porphyritic and consists of 85% feldspar in the groundmass and as phenocrysts up to 3 mm in length,) 5% chlorite, 5% quartz, less than 5% mafics (biotite and magnetite, trace to 4% pyrite as anhedral blebs up to 2 mm in diameter and trace to 2% pyrrhotite. It is weakly to

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DIAMOND DRILL RECORD

LOCATION \_\_\_\_\_ DIRECTION \_\_\_\_\_ DIP \_\_\_\_\_ HOLE No. L0-86-3  
 LOGGED BY \_\_\_\_\_ CASING \_\_\_\_\_ SHEET No. 2  
 STARTED \_\_\_\_\_ CORE SIZE \_\_\_\_\_ CORRECTED TESTS \_\_\_\_\_  
 FINISHED \_\_\_\_\_  
 PROPERTY \_\_\_\_\_

FROM	TO		DESCRIPTION
			<p>moderately carbonatized, weakly hematized and moderately silicified for 10 cm at the lower contact.</p> <p>3.66 Ground core</p> <p>4.00 Carbonate veinlet 2 mm in width at 40° to the core axis with 5% py</p> <p>5.87 - 5.95 Carbonate + chlorite + quartz + tourmaline vein with 10% py as blebs up to 3 mm in diameter at 40° to 55° to the core axis.</p> <p>6.15 - 6.30 Moderately silicified zone with 5% diss. py.</p> <p>6.97 Quartz veinlet at 70° to the core axis with tr py and tourmaline along its edges.</p>
9.70	11.56	1.86	<p><u>MAFIC DYKE</u></p> <p>Pale green-grey, fine grained and massive with sharp upper and lower contacts at 90° and 30° to the core axis respectively. Moderately carbonatized. No sulphides.</p>
11.56	32.47	20.91	<p><u>QUARTZ DIORITE</u></p> <p>Same as 3.04 - 9.70. Sericitized feldspar phenocrysts up to 4mm in length comprise 5 to 50% of the rock. The section contains tr to 5% diss. py and tr to 1% blue quartz phenocrysts up to 2 mm in diameter.</p> <p>13.57 - 13.82 Network of tourmaline-py filled hairline fractures. 5% py overall</p> <p>16.11 - 16.24 Same as 13.57 - 13.82</p>

**FALCONBRIDGE NICKEL MINES LIMITED**

DIAMOND DRILL RECORD

LOCATION \_\_\_\_\_ DIRECTION \_\_\_\_\_ DIP \_\_\_\_\_ HOLE No. L0-86-3

LOGGED BY \_\_\_\_\_ CASING \_\_\_\_\_ SHEET No. 3

STARTED \_\_\_\_\_ CORE SIZE \_\_\_\_\_ CORRECTED TESTS \_\_\_\_\_

FINISHED \_\_\_\_\_

PROPERTY \_\_\_\_\_

FROM	TO		DESCRIPTION
			18.30 - 18.70 Several tourmaline py veinlets. 2 to 5% py overall.
			21.10 - 21.20 A quartz + carbonate + chlorite veinlet 3 mm wide at 20° to the core axis is cut by a hairline carbonate veinlet at 45° to the core axis. No sulphides.
			21.57 Quartz + carbonate + chlorite vein 5 mm wide at 40° to the core axis.
			22.30 Network of tourmaline veinlets with 2 to 3% py + chalcopyrite.
			29.00 Carbonate + tourmaline vein 1 cm wide at 75° to the core axis with 5% pyrite.
			31.25 - 32.25 Tr py and 2 to 5% magnetite.
32.47	32.54	0.07	<u>MAFIC DYKE</u> Same as 9.70 - 11.56. Sharp upper and lower contacts at 60° to the core axis.
32.54	37.04	4.50	<u>QUARTZ DIORITE</u> Same as 11.56 to 32.47m.
			34.42 Carbonate + chlorite + tourmaline veinlet 5 mm wide at 35° to the core axis.
			35.92 Quartz vein 1 cm thick at 55° to the core axis. The quartz along the edges of the vein is smoky and contains 1% pyrrhotite + pyrite.

# FALCONBRIDGE NICKEL MINES LIMITED

## DIAMOND DRILL RECORD

LOCATION \_\_\_\_\_ DIRECTION \_\_\_\_\_ DIP \_\_\_\_\_ HOLE No. 10-86-3  
 LOGGED BY \_\_\_\_\_ CASING \_\_\_\_\_ SHEET No. 4  
 STARTED \_\_\_\_\_ CORE SIZE \_\_\_\_\_ CORRECTED TESTS \_\_\_\_\_  
 FINISHED \_\_\_\_\_  
 PROPERTY \_\_\_\_\_

FROM	TO		DESCRIPTION
			<p>36.22 Quartz veinlet 5 mm wide at 45° to the core axis with chlorite clots up to 4 mm in diameter. No sulphides.</p> <p>36.90 - 37.04 Moderate fracture controlled Fe carbonate and/or hematite alteration.</p>
37.04	38.25	1.21	<p><u>MAFIC DYKE</u></p> <p>Same as 9.70 - 11.56m with a few quartz veinlets at 60° to the core axis. Sharp upper and lower contacts at 80° to the core axis.</p> <p>37.67 - 37.93 xenolith of quartz diorite with red hematite alteration.</p>
38.25	42.03	3.78	<p><u>QUARTZ DIORITE</u></p> <p>Same as 11.56 - 32.47m except less pyrite (tr to 2%) and more pyrrhotite (1 to 2%).</p> <p>38.25 - 38.31 Quartz vein at 45° to the core axis. The surrounding rock contains 5% tourmaline, 5% chlorite and 4% pyrite.</p> <p>38.82 Arsenopyrite veinlet at 40° to the core axis cut by a 5 mm wide quartz vein with 2% pyrite at 30° to the core axis.</p> <p>39.40 Quartz veinlet 4 mm wide at 30° to the core axis with 2% pyrite.</p> <p>39.40 - 39.60 Mod. pervasive silicification. Tr diss py.</p> <p>40.27 Bleb of pyrrhotite 2 mm in diameter with exsolved arsenopyrite.</p>



**FALCONBRIDGE NICKEL MINES LIMITED**

**DIAMOND DRILL RECORD**

LOCATION \_\_\_\_\_ DIRECTION \_\_\_\_\_ DIP \_\_\_\_\_ HOLE No. L0-86-3  
 LOGGED BY \_\_\_\_\_ CASING \_\_\_\_\_ SHEET No. 5  
 STARTED \_\_\_\_\_ CORE SIZE \_\_\_\_\_ CORRECTED TESTS \_\_\_\_\_  
 FINISHED \_\_\_\_\_  
 PROPERTY \_\_\_\_\_

FROM	TO		DESCRIPTION
			40.50 - 40.84 Ground core
			41.45 Quartz veinlet 4 mm wide at 30° to core axis with tr pyrrhotite and 10% chlorite.
			41.67 - 41.87 Tourmaline - carbonate vein 1 cm wide at 5° to the core axis.
			41.87 - 42.03 Mod. pervasive and fracture controlled he- matite alteration and mod. pervasive silici- fication. 2% diss. py.
42.03	42.77	0.74	<u>MAFIC DYKE</u> Same as 9.70 to 11.56m
42.77	43.31	0.54	<u>QUARTZ DIORITE</u> Same as 11.56 - 32.47m with tr to 2% py, 1 to 2% pyrrhotite and weak to mod. spotty hematization.
			42.80 - 42.90 Biotite-carb veinlet 5 mm wide at 5° to the core axis.
			43.00 Tourmaline - carb vein 1 cm wide at 10° to the core axis.
			43.18 - 43.31 Strong hematite and mod. silica and carb alterations.
43.31	43.41	0.10	<u>MAFIC DYKE</u> Same as 9.70 to 11.56m.
43.41	47.17	3.76	<u>QUARTZ DIORITE</u> Same as 11.56 to 32.47m with trace to 2% py, 1 to 2% pyrrhotite

FALCONBRIDGE NICKEL MINES LIMITED

DIAMOND DRILL RECORD

LOCATION \_\_\_\_\_ DIRECTION \_\_\_\_\_ DIP \_\_\_\_\_ HOLE No. L0-86-3  
 LOGGED BY \_\_\_\_\_ CASING \_\_\_\_\_ SHEET No. 6  
 STARTED \_\_\_\_\_ CORE SIZE \_\_\_\_\_ CORRECTED TESTS \_\_\_\_\_  
 FINISHED \_\_\_\_\_  
 PROPERTY \_\_\_\_\_

FROM	TO		DESCRIPTION
			and weak to mod. spotty hematization.
			43.41 - 43.57 Mod. pervasive silicification and carbonati- zation.
			44.43 - 44.60 Strong pervasive silicification.
			44.83 Quartz-tourmaline vein 2 cm wide at 45° to the core axis.
			45.08 Quartz-tourmaline vein 1.5 cm wide with tr py at 35° to the core axis.
			45.77 - 46.07 Trace to 1% diss. arsenopyrite as anhedral blebs to 1 mm.
			46.07 Quartz-tourmaline vein 8 mm wide at 60° to core axis.
47.17	47.58	0.41	<u>MAFIC DYKE</u> Same as 9.70 - 11.56m. Upper contact is at 10° to the core axis and core is broken at the lower contact.
47.58	48.73	1.20	<u>QUARTZ DIORITE</u> Same as 11.56 - 32.47m with trace pyrite and spotty hema- tization.
48.73	62.56	14.83	<u>MAFIC DYKE</u> Same as 9.70 - 11.56m with a sharp upper contact at 80° to the core axis and broken core at the lower contact.
			53.25 Quartz + carb + tourmaline vein 1 cm wide at 60° to the core axis with 2 to 3% pyrite.
			53.45 Quartz vein 5 mm wide at 50° to the core axis with 3% py. The py occurs within chlorite clots in the

FALCONBRIDGE NICKEL MINES LIMITED

DIAMOND DRILL RECORD

LOCATION \_\_\_\_\_ DIRECTION \_\_\_\_\_ DIP \_\_\_\_\_ HOLE No. L0-86-3  
 LOGGED BY \_\_\_\_\_ CASING \_\_\_\_\_ SHEET No. 7  
 STARTED \_\_\_\_\_ CORE SIZE \_\_\_\_\_ CORRECTED TESTS \_\_\_\_\_  
 FINISHED \_\_\_\_\_  
 PROPERTY \_\_\_\_\_

FROM	TO		DESCRIPTION
			vein.
			56.40 Quartz-carb veinlet 5 mm wide at 60° to the core axis with 2% py.
			56.95 Quartz vein 1 cm wide at 55° to the core axis with 2% pyrite.
			60.41 - 60.48 Quartz vein at 55° to the core axis with tr py.
			62.20 Quartz-carb-tourmaline vein 1 cm wide at 20° to the core axis.
62.56	100.58	37.02	<u>QUARTZ DIORITE</u> Blue-grey, fine to med. grained, massive feldspar porphyritic slightly more siliceous than quartz diorite further up the hole. Composed of 70 to 80% sericitized feldspar as phenocrysts up to 3 mm long and in the groundmass, 10% blue quartz, 10% biotite as specks less than 1 mm in diameter, 5% chlorite in clumps up to 3 mm wide, tr to 3% magnetite as anhedral grains up to 2 mm in diameter, tr to 2% calcite in the groundmass, trace to 5% pyrite-pyrrhotite and trace arsenopyrite. Below 76.98 there is only trace pyrite and pyrrhotite and no arsenopyrite.
			62.65 - 62.73 Quartz vein at 35° to the core axis. No sulphides.

# FALCONBRIDGE NICKEL MINES LIMITED

## DIAMOND DRILL RECORD

LOCATION \_\_\_\_\_ DIRECTION \_\_\_\_\_ DIP \_\_\_\_\_ HOLE No. L0-86-3

LOGGED BY \_\_\_\_\_ CASING \_\_\_\_\_ SHEET No. 8

STARTED \_\_\_\_\_ CORE SIZE \_\_\_\_\_ CORRECTED TESTS \_\_\_\_\_

FINISHED \_\_\_\_\_

PROPERTY \_\_\_\_\_

FROM	TO	DESCRIPTION
		63.15 Bleb of arsenopyrite 1 to 2 mm in diameter
		63.44 Quartz-carb-tourmaline veinlet 4 mm wide at 10° to the core axis
		64.24 Quartz-carb-tourmaline veinlet 5 mm wide at 25° to the core axis.
		64.41 Quartz vein 2 cm wide at 40° to the core axis with 1% py and 3% pyrrhotite.
		65.20 Quartz-carb vein 1.5 cm wide at 40° to the core axis with 4% pyrite, 10% biotite and 5% chlorite.
		68.30 Quartz-tour-chlorite veinlet 4 mm wide at 35° to the core axis with tr py.
		69.27 Bleb of chalcopyrite 1 mm in diameter
		70.87 - 71.13 3% arsenopyrite as blebs up to 5 mm in diameter centred on a quartz veinlet 4 mm wide at 10° to the core axis.
		74.30 - 76.98 1 to 2% pyrite concentrated along chlorite slips. Most slips are at 80 to 90° to the core axis.
		91.12 - 99.05 Strong sericitization centred on feldspar crystals. Mod. chloritization as green patches or spots 1 to 3 mm in diameter.
		92.80 - 100.58 Up to 5% diss. magnetite.
		93.40 Quartz-carb veinlet 3 mm wide at 85° to the core axis with 1% pyrite.

FALCONBRIDGE NICKEL MINES LIMITED

DIAMOND DRILL RECORD

LOCATION \_\_\_\_\_ DIRECTION \_\_\_\_\_ DIP \_\_\_\_\_ HOLE No. L0-86-3  
 LOGGED BY \_\_\_\_\_ CASING \_\_\_\_\_ SHEET No. 9  
 STARTED \_\_\_\_\_ CORE SIZE \_\_\_\_\_ CORRECTED TESTS \_\_\_\_\_  
 FINISHED \_\_\_\_\_  
 PROPERTY \_\_\_\_\_

FROM	TO	DESCRIPTION
		97.20 Quartz-carb vein 1 cm wide at 70° to the core axis with 2% pyrite.
		98.00 Quartz-carb-tourmaline veinlet 4 mm wide at 80° to the core axis with tr py.
	100.58	<p><u>END OF HOLE</u> :</p> <p>Contractor: Martinson Linecutting &amp; Staking Ltd., Courtenay, B.C.</p> <p>Hole drilled to test IP chargeability anomaly and mineralization in trenches "J" and "E". Collared 0.3m north of hole L0-86-2 which was abandoned due to mechanical problems with the BDS-1 unit.</p>

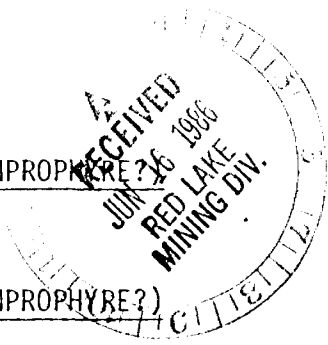
# FALCONBRIDGE NICKEL MINES LIMITED

## DIAMOND DRILL RECORD

RLK

LOCATION 9+55S, 11E      DIRECTION 360°      DIP -45°      HOLE No. L0-86-4  
 LOGGED BY J. Pattison      CASING 1.83m      SHEET No. \_\_\_\_\_  
 STARTED April 1, 1986      CORE SIZE IAW      CORRECTED TESTS none  
 FINISHED April 5, 1986  
 PROPERTY LOYDEX OPTION 1 PN 935

FROM meters	TO	length	SUMMARY LOG	DESCRIPTION
0	1.83	1.83	<u>CASING</u>	
1.83	6.96	5.13	<u>QUARTZ DIORITE</u>	
6.96	7.60	0.64	<u>MAFIC DYKE (LAMPROPHYRE?)</u>	
7.60	53.34	45.74	<u>QUARTZ DIORITE</u>	
53.34	53.80	0.46	<u>MAFIC DYKE (LAMPROPHYRE?)</u>	
53.80	54.00	0.20	<u>QUARTZ DIORITE</u>	
54.00	54.47	0.47	<u>MAFIC DYKE (LAMPROPHYRE?)</u>	
54.47	55.48	1.01	<u>QUARTZ DIORITE</u>	
55.48	56.90	1.42	<u>MAFIC DYKE (LAMPROPHYRE?)</u>	
56.90	83.06	26.16	<u>QUARTZ DIORITE</u>	
	83.06		<u>END OF HOLE</u>	
CONTRACTOR: Martinson Linecutting & Staking Ltd., Courtenay, B.C.				
Hole to test northern IP chargeability anomaly on line 11E				
GDS				



*Richard Kenney*

**FALCONBRIDGE NICKEL MINES LIMITED**

**DIAMOND DRILL RECORD**

LOCATION 9+55S, 11E DIRECTION 360° DIP -45° HOLE No. L0-86-4  
 LOGGED BY J. Pattison CASING 1.83m SHEET No. 1  
 STARTED April 1, 1986 CORE SIZE IAW CORRECTED TESTS none  
 FINISHED April 5, 1986  
 PROPERTY LOYDEX OPTION 1 PN 935

FROM meters	TO	length	DESCRIPTION
0	1.83	1.83	<u>CASING</u> Sand
1.83	6.96	5.13	<u>QUARTZ DIORITE</u> Blue-grey, fine grained massive. Feldspar porphyritic except in strongly silicified zones. 70-80% feldspar, 10-20% quartz, 5-10% chlorite, 5% magnetite, less than 5% biotite, less than 5% calcite, trace diss. py, pyrrhotite and chalcopyrite. Weak to mod. pervasive chloritization. Weak pervasive carbonatization. 4.14 Carbonate veinlet 4 mm wide at 70° to the core axis 5.00 - 5.05 2 minor calcite veinlets at 50-55° to the core axis 5.18 Bleb of chalcopyrite less than 2 mm in diameter 5.60 rusty carbonate veinlet 3 mm wide at 70° to the core axis. 6.70 - 6.96 1% diss. py
6.96	7.60	0.64	<u>MAFIC DYKE (LAMPROPHYRE?)</u> Brownish grey, f.g., massive. Greater than 30% biotite. Sharp upper and lower contacts at 40° to the core axis. No sulphides.
7.60	53.34	45.74	<u>QUARTZ DIORITE</u> Same as 1.83 - 6.96m. Numerous fine grained, silicified zones with up to 10% pyrite usually concentrated along hairline fractures filled with

# FALCONBRIDGE NICKEL MINES LIMITED

## DIAMOND DRILL RECORD

LOCATION \_\_\_\_\_ DIRECTION \_\_\_\_\_ DIP \_\_\_\_\_ HOLE No. 10-86-4  
 LOGGED BY \_\_\_\_\_ CASING \_\_\_\_\_ SHEET No. 2  
 STARTED \_\_\_\_\_ CORE SIZE \_\_\_\_\_ CORRECTED TESTS \_\_\_\_\_  
 FINISHED \_\_\_\_\_  
 PROPERTY \_\_\_\_\_

FROM	TO	DESCRIPTION
		carbonate ± biotite ± tourmaline ± chlorite.
		7.60 - 8.20 1% diss. py
		14.35 - 15.67 Moderately to strongly sericitized. 1 to 3% pyrite concentrated in carb veinlets, along fractures and foliation planes
		15.44 quartz-carb vein 3 to 5 mm thick at 80° to the core axis with 5% pyrite.
		15.76 - 21.07 Moderately silicified and sericitized 3-5% pyrite concentrated along calcite-biotite-chlorite filled fractures.
		18.30 Blue quartz vein 1 cm wide at 80 to 90° to the core axis.
		19.50 Blue quartz veinlet 3 mm wide at 70° to the core axis with 5 % pyrite.
		19.72 carb-quartz veinlet 4 mm thick at 60° to the core axis with 5% pyrite.
		20.47 - 21.07 Network of randomly oriented tourmaline veinlets, 5 to 10% py overall.
		21.07 - 21.72 2% diss pyrrhotite and tr py
		21.72 - 38.62 3 to 10% py concentrated along hairline fractures filled with calcite, tourmaline and occasionally chlorite.
		22.74 - 23.55 Network of tourmaline-calcite veinlets



**FALCONBRIDGE NICKEL MINES LIMITED**

DIAMOND DRILL RECORD

LOCATION \_\_\_\_\_ DIRECTION \_\_\_\_\_ DIP \_\_\_\_\_ HOLE No. L0-86-4

LOGGED BY \_\_\_\_\_ CASING \_\_\_\_\_ SHEET No. 3

STARTED \_\_\_\_\_ CORE SIZE \_\_\_\_\_ CORRECTED TESTS \_\_\_\_\_

FINISHED \_\_\_\_\_

PROPERTY \_\_\_\_\_

FROM	TO	DESCRIPTION
		with 5 to 10% pyrite.
23.68 - 24.30		Same as 22.74 to 28.55 but with tourmaline rosettes up to 3 mm in diameter
24.58 - 25.26		Same as 22.74 to 28.55
25.43 - 26.31		Same as 22.74 to 28.55
26.31 - 27.38		1 to 2% diss. pyrrhotite, tr-1% diss py
27.38 - 27.73		Intensely silicified with 5-10% py
27.73 - 28.96		1 to 2% diss pyrrhotite-pyrite. 2 blue quartz veinlets at 50 to 80° to the core axis with up to 5% pyrite.
28.97		quartz-carb-tourmaline veinlet 4 mm wide with 2-3% pyrite at 80° to the core axis.
29.10 - 29.63		Intensely silicified
29.63		Quartz-carb-tourmaline veinlet 3 mm wide at 60° to the core axis with 10% py.
29.70 - 30.29		Intensely silicified, 5% pyrite.
30.40 - 30.66		Intensely silicified, 5 to 10% pyrite concentrated in tourmaline-carb veinlets at 65 to 80° to the core axis which comprise 5% of the core.
31.93		Quartz-carb-biotite-tourmaline vein 6 mm wide at 50° to the core axis with 10% pyrite.
32.32		Quartz-carb vein 5 mm wide at 80° to the core axis with 3% pyrite.

**FALCONBRIDGE NICKEL MINES LIMITED**

**DIAMOND DRILL RECORD**

LOCATION \_\_\_\_\_ DIRECTION \_\_\_\_\_ DIP \_\_\_\_\_ HOLE No. L0-86-4

LOGGED BY \_\_\_\_\_ CASING \_\_\_\_\_ SHEET No. 4

STARTED \_\_\_\_\_ CORE SIZE \_\_\_\_\_ CORRECTED TESTS \_\_\_\_\_

FINISHED \_\_\_\_\_

PROPERTY \_\_\_\_\_

FROM	TO		DESCRIPTION
			32.97 2.5 cm wide blue quartz-carb-tourmaline vein with 10-15% pyrite at 80° to the core axis.
			38.62 - 41.45 Weak to mod silicification, tr to 2% py.
			41.45 - 42.67 Intensely silicified, weakly to mod. carbonatized. 5% pyrite concentrated in tourmaline veinlets at 20-90° to the core axis.
			42.67 - 53.34 Mod. pervasive silicification. Trace to 2% pyrite. Trace to 3% pyrrhotite. Several quartz-carb-tourmaline veinlets at 30 to 80° to the core axis.
			50.55 Blue quartz-carbonate-tourmaline vein 6 mm wide at 45° to the core axis with tr py
			50.80 Quartz-carb-chlorite vein 1.5 cm wide at 40° to the core axis with 1% pyrite-pyrrhotite.
			52.74 - 53.34 Weak to mod. fracture controlled Fe carbonate and hematite alteration.
53.34	53.80	0.46	<u>MAFIC DYKE (LAMPROPHYRE?)</u> Same as 6.96 to 7.60. Sharp upper and lower contacts at 80 and 90° to the core axis respectively.
53.80	54.00	0.20	<u>QUARTZ DIORITE</u> Hematite, Fe carbonate alteration as 52.74 to 53.34m.
54.00	54.47	0.47	<u>MAFIC DYKE (LAMPROPHYRE?)</u> Same as 6.96 to 7.60m.

# FALCONBRIDGE NICKEL MINES LIMITED

## DIAMOND DRILL RECORD

LOCATION \_\_\_\_\_ DIRECTION \_\_\_\_\_ DIP \_\_\_\_\_ HOLE No. L0-86-4  
 LOGGED BY \_\_\_\_\_ CASING \_\_\_\_\_ SHEET No. 5  
 STARTED \_\_\_\_\_ CORE SIZE \_\_\_\_\_ CORRECTED TESTS \_\_\_\_\_  
 FINISHED \_\_\_\_\_  
 PROPERTY \_\_\_\_\_

FROM	TO		DESCRIPTION
54.47	55.48	1.01	<u>QUARTZ DIORITE</u> Same as 52.74 to 53.34m
55.48	56.90	1.42	<u>MAFIC DYKE (LAMPROPHYRE?)</u> Same as 6.96 to 7.60 m. 55.71 - 55.90 Quartz-carb-chlorite vein 5 mm wide at 5° to the core axis. No sulphides.
56.90	83.06	26.16	<u>QUARTZ DIORITE</u> Same as 1.83 to 6.96m 56.90 - 57.00 Mod. fracture controlled hematization. 57.47 - 57.55 Strongly silicified. Numerous carb-tourmaline veinlets @ 80-90° to core axis. 5-8% pyrrho- tite and tr to 1% pyrite concentrated in the veinlets. 59.83 - 59.90 Strongly silicified 59.87 Quartz-carb vein 1.5 cm wide at 80° to c/a with tr py. 64.00 - 64.40 Mod. silicified, 2 to 5% diss py, tr to 2% diss. pyrrhotite. 58.36 - 69.11 Weak to mod. fracture controlled hematiza- tion and carbonatization. Mod. pervasive shearing at 80 to 90° to the core axis. Tr. to 1% diss. py. 69.11 - 69.32 Quartz-tourmaline vein at 40° to the core axis with tr to 3% pyrite.

**FALCONBRIDGE NICKEL MINES LIMITED**

DIAMOND DRILL RECORD

LOCATION \_\_\_\_\_ DIRECTION \_\_\_\_\_ DIP \_\_\_\_\_ HOLE No. L0-86-4

LOGGED BY \_\_\_\_\_ CASING \_\_\_\_\_ SHEET No. 6

STARTED \_\_\_\_\_ CORE SIZE \_\_\_\_\_ CORRECTED TESTS \_\_\_\_\_

FINISHED \_\_\_\_\_

PROPERTY \_\_\_\_\_

FROM	TO	DESCRIPTION
		69.32 - 69.74 Tr to 1% disseminated. 1 to 5% blue quartz phenocrysts up to 3 mm in diameter.
		69.74 - 80.77 Nil to tr diss. py, 1 to 5% blue quartz phenocrysts.
		78.40 Quartz-carb-chlorite vein 5 mm wide at 35° to the core axis with 1 bleb of pyrite 3 mm wide with exsolved chalcopyrite.
		80.77 - 83.06 1 to 2% diss. pyrite as cubes up to 2 mm wide.
		81.40 - 81.95 randomly oriented tourmaline veinlets comprise 5% of the core.
	83.06	<u>END OF HOLE</u>
		CONTRACTOR: Martinson Linecutting & Staking Ltd., Courtenay, B.C.
		Hole to test northern IP chargeability anomaly on Line 11E

# FALCONBRIDGE NICKEL MINES LIMITED

## DIAMOND DRILL RECORD

R&K

LOCATION 9+85S, L11E      DIRECTION 360°      DIP -45°      HOLE No. LO-86-5  
 LOGGED BY J. Pattison      CASING 3.04m      SHEET No. \_\_\_\_\_  
 STARTED April 5, 1986      CORE SIZE IAW      CORRECTED TESTS 60.04m-45°  
 FINISHED April 7, 1986  
 PROPERTY LOYDEX OPTION 1

FROM	TO	length	SUMMARY LOG	DESCRIPTION
meters				
0	3.04	3.04	<u>CASING, OVERBURDEN</u>	
3.04	66.23	63.19	<u>QUARTZ DIORITE</u>	
66.23	66.60	0.37	<u>MAFIC DYKE (LAMPROPHYRE?)</u>	
66.60	67.86	1.16	<u>QUARTZ DIORITE</u>	
67.86	68.17	0.31	<u>MAFIC DYKE (LAMPROPHYRE?)</u>	
68.17	68.46	0.29	<u>QUARTZ DIORITE</u>	
68.46	69.26	0.80	<u>MAFIC DYKE (LAMPROPHYRE?)</u>	
69.26	69.85	0.59	<u>QUARTZ DIORITE</u>	
69.85	70.00	0.15	<u>MAFIC DYKE (LAMPROPHYRE?)</u>	
70.00	70.71	0.71	<u>QUARTZ DIORITE</u>	
	70.71		<u>END OF HOLE</u>	
<p>CONTRACTOR: Martinson Linecutting &amp; Staking Ltd., Courtenay, B.C.</p> <p>Hole drilled to test southern IP chargeability anomaly on Line 11E</p> <p style="text-align: right; margin-top: 50px;">GDS</p> <p style="text-align: right; margin-top: 20px;"><i>Richard Kenney</i></p>				

# FALCONBRIDGE NICKEL MINES LIMITED

## DIAMOND DRILL RECORD

LOCATION 9+85S, L11E      DIRECTION 360°      DIP -45°      HOLE No. L0-86-5  
 LOGGED BY J. Pattison      CASING 3.04m      SHEET No. 1  
 STARTED April 5, 1986      CORE SIZE IAW      CORRECTED TESTS 60.04m-45°  
 FINISHED April 7, 1986  
 PROPERTY LOYDEX OPTION 1

FROM meters	TO meters	length	DESCRIPTION
0	3.04	3.04	<u>CASING, OVERBURDEN</u> Sand and granitic, strongly chloritized mafic and quartz diorite boulders.
3.04	66.23	63.19	<u>QUARTZ DIORITE.</u> Blue grey, fine grained, massive. 70-80% feldspar, 10-20% quartz, 5-10% chlorite, nil-5% magnetite, less than 5% biotite, less than 5% calcite, tr to 10% pyrite, feldspar porphyritic, feldspar laths upto 4 mm in length comprise less than 5% to 70% of the rock. Weak pervasive carbonatization, weak to mod. chloritization. Chlorite occurs as spots up to 3 mm in diameter. Weak to strong pervasive silicification. Strongly silicified zones, 10 to 50 cm wide, are very fine grained, contains greater than 5% pyrite and less than 5% feldspar phenocrysts. Weak foliation at 70° to c/a. 9.37 - 12.18 1 to 2% diss py, tr to 2% pyrrhotite and tr to 5% tourmaline 10.25 - 10.36 quartz vein with chlorite and 5-10% py at 35° to the core axis. 10.43 speck of arsenopyrite. 12.18 - 12.78 tr diss py 12.78 - 13.41 1 to 3% diss py 12.36 rusty quartz-carb vein 2 cm wide at 40° to c/a with tr py

FALCONBRIDGE NICKEL MINES LIMITED

DIAMOND DRILL RECORD

LOCATION \_\_\_\_\_ DIRECTION \_\_\_\_\_ DIP \_\_\_\_\_ HOLE No. L0-86-5

LOGGED BY \_\_\_\_\_ CASING \_\_\_\_\_ SHEET No. 2

STARTED \_\_\_\_\_ CORE SIZE \_\_\_\_\_ CORRECTED TESTS \_\_\_\_\_

FINISHED \_\_\_\_\_

PROPERTY \_\_\_\_\_

FROM	TO	DESCRIPTION
		13.41 - 14.26 tr diss py
		14.26 - 14.55 1 to 5% diss py
		14.55 - 14.75 5% py in tourmaline-carb veinlets at 55° to the core axis. Strongly silicified
		14.75 - 16.55 tr diss py
		16.55 - 16.77 strong pervasive silicification, 2-5% pyrite-chalcopyrite-pyrrhotite.
		16.77 - 18.19 tr diss py
		18.19 - 18.38 biotite rich zone, 50% biotite, 2% blue quartz phenocrysts, 5% finely diss py
		18.38 - 18.88 strong pervasive silicification, 3-5% diss py
		18.88 - 19.73 trace diss. pyrite.
		19.73 - 20.43 strong pervasive silicification, 3-5% diss py
		20.28 blue quartz vein 8 mm wide at 45° to c/a with 3% py
		20.43 - 21.03 tr diss py
		21.03 - 21.26 Strong pervasive silicification, 2-5% py
		21.26 - 22.00 tr diss py
		22.00 - 22.18 strongly silicified, 1-3% py most in patches of chlorite up to 3 mm wide.
		22.18 - 35.18 tr diss py
		35.18 - 35.61 Strong pervasive silicification, mod. frac- ture controlled carbonatization, 1-2% diss

# FALCONBRIDGE NICKEL MINES LIMITED

## DIAMOND DRILL RECORD

LOCATION \_\_\_\_\_ DIRECTION \_\_\_\_\_ DIP \_\_\_\_\_ HOLE No. L0-86-5  
 LOGGED BY \_\_\_\_\_ CASING \_\_\_\_\_ SHEET No. 3  
 STARTED \_\_\_\_\_ CORE SIZE \_\_\_\_\_ CORRECTED TESTS \_\_\_\_\_  
 FINISHED \_\_\_\_\_  
 PROPERTY \_\_\_\_\_

FROM	TO	DESCRIPTION
		py
35.61	36.31	tr diss py
36.31	36.40	Strong pervasive silicification, mod. fracture controlled carbonatization, 1-2% diss. py
36.40	44.94	tr diss py, several quartz-carb-chlorite veins up to 3 cm wide at 20-90° to the c/a
44.94	45.23	mod. fracture controlled carbonatization 1-3% diss py
45.23	46.94	tr diss py
46.94	50.00	mod. to strong pervasive silicification, 2-4% py concentrated along chlorite-calcite- tourmaline filled hairline fractures at 10-50° to the c/a
50.00	53.00	strong pervasive silicification, 4-5% py concentrated in chlorite-tourmaline vein- lets, 1-2% diss pyrrhotite.
50.10		blue quartz-carb-tourmaline vein at 75° to the c/a with 10% pyrite.
51.52		blue quartz-tourmaline vein 1 cm wide at 55° to the c/a with 10% py
52.86		blue quartz-carb-tourmaline veinlet 5 mm wide at 65° to the c/a with 10% py



# FALCONBRIDGE NICKEL MINES LIMITED

## DIAMOND DRILL RECORD

LOCATION \_\_\_\_\_ DIRECTION \_\_\_\_\_ DIP \_\_\_\_\_ HOLE No. L0-86-5  
 LOGGED BY \_\_\_\_\_ CASING \_\_\_\_\_ SHEET No. 4  
 STARTED \_\_\_\_\_ CORE SIZE \_\_\_\_\_ CORRECTED TESTS \_\_\_\_\_  
 FINISHED \_\_\_\_\_  
 PROPERTY \_\_\_\_\_

FROM	TO	DESCRIPTION
		53.00 - 53.84 strong pervasive silicification, mod pervasive carbonatization, tr py and pyrrhotite.
		53.84 - 55.65 Same as 53.00 to 53.84 with 1-2% diss py
		55.65 - 56.08 Same as 53.00 to 53.84 with 5% diss py
		56.08 - 56.62 Same as 53.00 to 53.84 with tr diss py
		56.62 - 58.10 Same as 53.00 to 53.84, 5% py concentrated along tourmaline and/or chlorite filled hairline fractures.
		58.10 - 62.48 Same as 53.00 - 53.84 with 5-10% pyrite, 1% pyrrhotite and tr chalcopyrite associated with chlorite patches up to 5 mm in diameter.
		62.48 - 63.42 Same as 53.00 to 53.84 with 10% py concentrated along tourmaline and chlorite filled hairline fractures at 10° to 30° to the c/a
		63.42 - 66.23 Same as 53.00 to 53.84 with 2 to 10% py
		66.00 Quartz-carb-tourmaline vein 1 cm wide at 90° to the c/a with 5% py
		66.04 - 66.10 patch of fine grained mafic dyke at 30° to the c/a, dyke cuts 3 tourmaline pyrite veins 0.3 to 1.0 cm thick at 50 to 80° to c/a
		66.20 blue quartz-carb-tourmaline vein 3 cm wide at 90° to c/a with 5% py, cut by upper contact

**FALCONBRIDGE NICKEL MINES LIMITED**

**DIAMOND DRILL RECORD**

LOCATION \_\_\_\_\_ DIRECTION \_\_\_\_\_ DIP \_\_\_\_\_ HOLE No. L0-86-5

LOGGED BY \_\_\_\_\_ CASING \_\_\_\_\_ SHEET No. 5

STARTED \_\_\_\_\_ CORE SIZE \_\_\_\_\_ CORRECTED TESTS \_\_\_\_\_

FINISHED \_\_\_\_\_

PROPERTY \_\_\_\_\_

FROM	TO		DESCRIPTION
			mafic dyke below.
66.23	66.60	0.37	<u>MAFIC DYKE (LAMPROPHYRE?)</u> Med. green, fine grained, no sulphides. Irregular upper contact. Sharp lower contact at 65° to the c/a 66.45 quartz diorite xenolith 7 cm long along edge of core.
66.60	67.86	1.16	<u>QUARTZ DIORITE</u> Same as 3.04 - 66.23, strongly silicified with 10% py concentrated along chlorite-carbonate filled hairline fractures.
67.86	68.17	0.31	<u>MAFIC DYKE (LAMPROPHYRE?)</u> Same as 66.23 to 66.60, sharp upper and lower contacts at 80° and 90° to the core axis respectively.
68.17	68.46	0.29	<u>QUARTZ DIORITE</u> Same as 3.04 to 66.23, mod. pervasive silicification and fracture controlled hematization. 2-3% py concentrated along hematite filled fractures.
68.46	69.26	0.80	<u>MAFIC DYKE (LAMPROPHYRE?)</u> Same as 66.23 to 66.60, cut by 2 carbonate veinlets at 50 to 55° to the core axis.
69.26	69.85	0.59	<u>QUARTZ DIORITE</u> Same as 3.04 to 66.23. Strongly silicified. 2-3% py along chlorite-carbonate-tourmaline veinlets.
69.85	70.00	0.15	<u>MAFIC DYKE (LAMPROPHYRE?)</u> Same as 66.23 to 66.60

**FALCONBRIDGE NICKEL MINES LIMITED**

DIAMOND DRILL RECORD

LOCATION \_\_\_\_\_ DIRECTION \_\_\_\_\_ DIP \_\_\_\_\_ HOLE No. LO-86-5

LOGGED BY \_\_\_\_\_ CASING \_\_\_\_\_ SHEET No. 6

STARTED \_\_\_\_\_ CORE SIZE \_\_\_\_\_ CORRECTED TESTS \_\_\_\_\_

FINISHED \_\_\_\_\_

PROPERTY \_\_\_\_\_

FROM	TO		DESCRIPTION
70.00	70.71	0.71	<p><u>QUARTZ DIORITE</u></p> <p>Same as 3.04 to 66.23.</p> <p>70.00 to 70.26 mod. fracture controlled hematization 2-3% pyrite associated with the hematite veinlets.</p> <p>70.26 - 70.71 tr diss py</p>
	70.71		<p><u>END OF HOLE</u></p> <p>CONTRACTOR: Martinson Linecutting &amp; Staking Ltd., Courtenay, B.C.</p> <p>Hole drilled to test southern IP chargeability anomaly on Line 11E</p>

**FALCONBRIDGE NICKEL MINES LIMITED**

**DIAMOND DRILL RECORD**

LOCATION 9+85S, L10E DIRECTION 360° DIP -45° HOLE No. L0-86-6  
 LOGGED BY J. Pattison CASING 1.52m SHEET No. \_\_\_\_\_  
 STARTED April 7, 1986 CORE SIZE IAW CORRECTED TESTS \_\_\_\_\_  
 FINISHED April 12, 1986  
 PROPERTY LOYDEX OPTION 1

FROM meters	TO	length	SUMMARY LOG	DESCRIPTION
0	1.52	1.52	<u>CASING, OVERBURDEN</u>	
1.52	22.41	0.89	<u>QUARTZ DIORITE</u>	
22.41	22.90	0.49	<u>MAFIC DYKE</u>	
22.90	70.10	47.20	<u>QUARTZ DIORITE</u>	
	70.10		<u>END OF HOLE</u>	
			Contractor: Martinson Linecutting & Staking Ltd., Courtenay, B.C.	
			Hole to test IP anomaly between 9+80S and 9+20S on L10E	
			GDS	

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JUL 11 1986

*Richard Kenney*

**FALCONBRIDGE NICKEL MINES LIMITED**

**DIAMOND DRILL RECORD**

LOCATION 9+85S, L10E DIRECTION 360° DIP -45° HOLE No. L0-86-6  
 LOGGED BY J. Pattison CASING 1.52m SHEET No. 1  
 STARTED April 7, 1986 CORE SIZE 1AW CORRECTED TESTS \_\_\_\_\_  
 FINISHED April 12, 1986  
 PROPERTY LOYDEX OPTION 1

FROM meters	TO meters	length	DESCRIPTION
0	1.52	1.52	<u>CASING, OVERBURDEN</u> Sand
1.52	22.41	0.89	<u>QUARTZ DIORITE</u> Blue, grey, fine grained. 70-80% feldspar as phenocrysts 1 to 3 mm long and in the groundmass. 10-15% quartz in the groundmass and occasionally as blue quartz phenocrysts up to 2 mm in diameter. 5-10% chlorite as clots up to 3 mm in diameter and filling hairline fractures. 2-5% biotite as grains less than 2 mm in diameter disseminated throughout the rock. Trace to 5% magnetite as grains less than 2 mm in diameter. Trace to 5% calcite in the groundmass and filling hairline fractures. Trace py as subhedral grains less than 3 mm in diameter disseminated and concentrated along hairline fractures. Feldspar porphyritic, feldspar phenocrysts comprise 5 to 50% of the rock.  1.52 - 2.50 weak - fracture controlled hematization. nil to trace diss py 2.50 - 5.86 mod. fracture controlled carbonatization. Moderately chloritized, 1% diss py 5.86 - 8.00 Nil py 8.00 - 8.12 weakly silicified, moderately chloritized 1-2% pyrite associated with chlorite clots.

FALCONBRIDGE NICKEL MINES LIMITED

DIAMOND DRILL RECORD

LOCATION \_\_\_\_\_ DIRECTION \_\_\_\_\_ DIP \_\_\_\_\_ HOLE No. 10-86-6

LOGGED BY \_\_\_\_\_ CASING \_\_\_\_\_ SHEET No. 2

STARTED \_\_\_\_\_ CORE SIZE \_\_\_\_\_ CORRECTED TESTS \_\_\_\_\_

FINISHED \_\_\_\_\_

PROPERTY \_\_\_\_\_

FROM	TO	DESCRIPTION
		8.12 - 8.60 Nil py
		8.60 - 9.70 weak to mod. fracture controlled hematization weak silicification, mod. chloritization. Tr diss. py
		9.70 - 11.14 mod. chloritization, carbonatization and spotty epidotization. Trace py
		11.14 - 14.35 Mod. fracture controlled hematization nil pyrite.
		11.75 quartz-carb-tourmaline vein 1.5 cm wide at 40° to the c/a with 2 % py
		14.35 - 22.41 Weak pervasive silicification, mod. spotty chloritization, weak patchy epidotization, nil to tr pyrite.
		14.95 - 15.25 5% py concentrated along chlorite-carbon- ate veinlets at 55 to 80° to the c/a
		16.00 - 16.25 mod. silicified patch centred on a 5 mm wide carbonate veinlet at 40° to the c/a 5% diss magnetite.
		16.72 Quartz veinlet 4 mm wide at 90° to the core axis with 1% chalcopyrite.
		17.23 Quartz-carbonate vein 5 cm wide at 40° to the core axis. No sulphides
		17.55 Quartz carbonate veinlet 4 mm wide at 30° to the core axis with 1% pyrite.

**FALCONBRIDGE NICKEL MINES LIMITED**

DIAMOND DRILL RECORD

LOCATION \_\_\_\_\_ DIRECTION \_\_\_\_\_ DIP \_\_\_\_\_ HOLE No. L0-86-6

LOGGED BY \_\_\_\_\_ CASING \_\_\_\_\_ SHEET No. 3

STARTED \_\_\_\_\_ CORE SIZE \_\_\_\_\_ CORRECTED TESTS \_\_\_\_\_

FINISHED \_\_\_\_\_

PROPERTY \_\_\_\_\_

FROM	TO		DESCRIPTION
			20.66 Quartz-carbonate-chlorite vein 2 cm wide at 70° to the core axis with 5% pyrite.
22.41	22.90	0.49	<u>MAFIC DYKE</u> Dark grey-green, very fine grained, massive. Strong pervasive chloritization. Weak pervasive carbonatization. Strongly magnetic. 2-3% pyrite disseminated and along hairline fractures at 40 to 60° to the core axis.
22.90	70.10	47.20	<u>QUARTZ DIORITE</u> Same as 1.52 to 22.41 22.90 - 23.15 Weak pervasive silicification. Mod. chloritization. Nil to tr py 23.12 Blue quartz-carbonate vein 1.5 cm wide at 80° to the c/a with 5% pyrite-chalcopyrite. 23.15 - 24.65 Mod patchy chloritization. Weak fracture controlled epidotization. Nil to tr py 24.65 - 25.17 Mod. to strong pervasive silicification 5% pyrite disseminated and along chlorite slips at 60 to 80° to the core axis. 25.38 - 25.44 Strongly silicified. Mod. fracture controlled carbonatization and epidotization. 25.67 - 26.82 Mod. chloritization. 5% diss. magnetite, 1-3% pyrite concentrated along chlorite slips

FALCONBRIDGE NICKEL MINES LIMITED

DIAMOND DRILL RECORD

LOCATION \_\_\_\_\_ DIRECTION \_\_\_\_\_ DIP \_\_\_\_\_ HOLE No. 10-86-6

LOGGED BY \_\_\_\_\_ CASING \_\_\_\_\_ SHEET No. 4

STARTED \_\_\_\_\_ CORE SIZE \_\_\_\_\_ CORRECTED TESTS \_\_\_\_\_

FINISHED \_\_\_\_\_

PROPERTY \_\_\_\_\_

FROM	TO	DESCRIPTION
		26.82 - 27.02 Strongly silicified. 10% py and tr chalcopyrite concentrated along chlorite slips.
		27.02 - 28.00 Weakly to mod. silicified, weakly carbonated and mod. chloritized. 5% py concentrated along chlorite filled hairline fractures.
		28.24 - 28.55 Strongly silicified, 5-10% diss py.
		29.43 - 29.82 Strongly silicified. 10% py concentrated along chlorite filled fractures.
		30.34 - 30.65 Same as 29.43 to 29.82.
		30.98 - 43.10 Mod. sericitization and chloritization 2-15% py concentrated in chlorite spots and chlorite-carbonate filled fractures. Bands of strong pervasive silicification from 2-40 cm wide at 70° to c/a generally contain 10% or more pyrite and make up 50 to 60% of the section.
		43.10 - 47.67 Same as 30.98 to 43.10 except less py Tr. to 1% py in non-silicified sections and 1 to 5% py in silicified sections.
		45.11 Quartz-carbonate-tourmaline vein 5 mm wide at 35° to the core axis with tr py
		46.00 Blue quartz veinlet 3 mm wide at 65° to the c/a with 1% pyrite.



**FALCONBRIDGE NICKEL MINES LIMITED**

**DIAMOND DRILL RECORD**

LOCATION \_\_\_\_\_ DIRECTION \_\_\_\_\_ DIP \_\_\_\_\_ HOLE No. L0-86-6

LOGGED BY \_\_\_\_\_ CASING \_\_\_\_\_ SHEET No. 5

STARTED \_\_\_\_\_ CORE SIZE \_\_\_\_\_ CORRECTED TESTS \_\_\_\_\_

FINISHED \_\_\_\_\_

PROPERTY \_\_\_\_\_

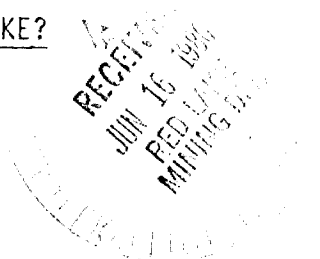
FROM	TO	DESCRIPTION
		46.05 Blue quartz veinlet 2 mm wide at 70° to the core axis with 1% pyrite.
		47.67 - 70.10 Same as 30.98 to 43.10 but rock appears less altered. Silicified zones make up 10-20% of the section.
		48.20 Quartz-carbonate vein 5 mm wide at 45° to the c/a with 3% pyrite and 1% chalcopyrite.
		60.62 Quartz-carbonate vein 5 mm wide at 70° to the core axis with 5% pyrite.
		61.06 Quartz-carbonate-tourmaline vein 1 cm wide at 50° to the core axis with tr py
	70.10	<u>END OF HOLE</u> Hydraulic pump unable to supply enough power to drill further.  Contractor: Martinson Linecutting & Staking Ltd. Courtenay, B.C.  Hole to test IP anomaly between 9+80S and 9+20S on L10E

**FALCONBRIDGE NICKEL MINES LIMITED**

**DIAMOND DRILL RECORD**

LOCATION 9+57S, 10+00E DIRECTION 360° DIP -45° HOLE No. L0-86-7  
 LOGGED BY J. Pattison CASING 1.52 SHEET No. \_\_\_\_\_  
 STARTED April 12, 1986 CORE SIZE IAW CORRECTED TESTS \_\_\_\_\_  
 FINISHED April 13, 1986  
 PROPERTY LOYDEX OPTION 1

FROM	TO	length	SUMMARY LOG	DESCRIPTION
	meters			
0	1.52	1.52	<u>OVERBURDEN</u>	
1.52	29.04	27.52	<u>QUARTZ DIORITE</u>	
29.04	29.85	0.81	<u>LAMPROPHYRE DYKE?</u>	
29.85	48.46	18.61	<u>QUARTZ DIORITE</u>	
	48.46		<u>END OF HOLE</u>	



Contractor: Martinson Linecutting & Staking Ltd., Courtenay, B.C.

Hole drilled to test northern half of the IP chargeability anomaly on line 10E between 9+20S and 9+80S

GDS

*Richard Kenney*

**FALCONBRIDGE NICKEL MINES LIMITED**

**DIAMOND DRILL RECORD**

LOCATION 9+57S, 10+00E DIRECTION 360° DIP -45° HOLE No. L0-86-7  
 LOGGED BY J. Pattison CASING 1.52m SHEET No. 1  
 STARTED April 12, 1986 CORE SIZE IAW CORRECTED TESTS \_\_\_\_\_  
 FINISHED April 13, 1986  
 PROPERTY LOYDEX OPTION 1

FROM meters	TO	length	DESCRIPTION
0	1.52	1.52	<u>OVERBURDEN</u> Sand
1.52	29.04	27.52	<u>QUARTZ DIORITE</u> Blue grey in colour, fine grained, feldspar porphyritic and weakly sheared at 10 to 60° to the core axis. It is composed of 70 to 80% feldspar in the groundmass and as sub-hedral phenocrysts up to 4 mm long, 10 to 20% quartz in the groundmass and occasionally as blue quartz phenocrysts up to 3 mm in diameter, 5 to 20% chlorite as clots up to 3 mm in diameter and filling hairline fractures, 5% mafics (biotite and magnetite) as grains, less than 2 mm in diameter, 1 to 5% calcite in the groundmass and tr to 10% pyrite concentrated along chlorite carbonate filled hairline fractures and shear planes. The rock is weakly to strongly silicified. Strongly silicified zones are very fine grained and have no feldspar phenocrysts.  1.52 - 3.07 Rock is strongly silicified and contains 1 to 2% diss py and tr chalcopyrite.  3.07 - 3.40 Rock is strongly silicified with 2 to 3% py concentrated along carb-chlorite filled hair-line fractures at 40 to 50° to the core axis.  3.40 - 3.66 Mod. silicification and tr py  3.66 - 8.25 Strong silicification and mod. fracture

**FALCONBRIDGE NICKEL MINES LIMITED**

DIAMOND DRILL RECORD

LOCATION \_\_\_\_\_ DIRECTION \_\_\_\_\_ DIP \_\_\_\_\_ HOLE No. L0-86-7

LOGGED BY \_\_\_\_\_ CASING \_\_\_\_\_ SHEET No. 2

STARTED \_\_\_\_\_ CORE SIZE \_\_\_\_\_ CORRECTED TESTS \_\_\_\_\_

FINISHED \_\_\_\_\_

PROPERTY \_\_\_\_\_

FROM	TO	DESCRIPTION
		controlled carbonatization and chloritization. Up to 10% py concentrated in chlorite-carbonate filled fractures at 20 to 60° to the core axis.
8.25	8.56	Mod. silicification and tr py
8.56	9.63	Strong silicification and 7% py
9.63	11.28	Weak silicification and tr py
11.28	12.55	Mod. to strong silicification. Strongest silicification occurs for 1 to 2 cm on either side of carbonate filled hairline fractures at 50° to the core axis. The section contains 5% py overall.
12.55	14.24	Mod. silicification and weak fracture controlled hematization. The fractures are roughly parallel to the mod. pervasive shearing at 60 to 75° to the core axis. The section contains 2% pyrite overall.
14.24	16.40	Weak silicification and tr py
16.40	16.78	Strong pervasive carbonatization and tr py
16.78	17.28	Weak silicification and tr py
17.28	17.44	Strong silicification with 2 to 3% py
17.44	18.02	Weak, to nil silicification and nil py

**FALCONBRIDGE NICKEL MINES LIMITED**

DIAMOND DRILL RECORD

LOCATION \_\_\_\_\_ DIRECTION \_\_\_\_\_ DIP \_\_\_\_\_ HOLE No. 10-86-7

LOGGED BY \_\_\_\_\_ CASING \_\_\_\_\_ SHEET No. 3

STARTED \_\_\_\_\_ CORE SIZE \_\_\_\_\_ CORRECTED TESTS \_\_\_\_\_

FINISHED \_\_\_\_\_

PROPERTY \_\_\_\_\_

FROM	TO		DESCRIPTION
			18.02 - 19.12 Strong pervasive carbonatization and tr to 1% diss. py. Several carbonate veinlets 3 to 5 mm wide at 50 to 60° to the c/a
			19.12 - 20.69 Weak to nil silicification.
			20.69 - 20.89 Mod. silicification with 1 to 2% py
			20.89 - 21.39 Strong silicification and 4-5% py
			21.39 - 21.96 Nil silicification and tr py
			21.96 - 22.71 Strong silicification, mod. fracture controlled chloritization and carbonatization and 5% pyrite.
			22.71 - 24.79 Weak silicification and fracture controlled hematization. Tr diss. py along fracs. at 10 to 30° to the c/a
			24.79 - 27.00 Strong silicification and mod. fracture controlled hematization, chloritization and carbonatization. The section contains 1-2% diss py.
			27.00 - 29.04 Weak silicification and hematization, tr py
29.04	29.85	0.81	<u>LAMPROPHYRE DYKE?</u> Fine grained, brown-grey, with sharp upper and lower contacts at 45° to the core axis. The rock contains greater than 50% biotite, tr py and is strongly carbonatized.
29.85	48.46	18.61	<u>QUARTZ DIORITE</u> Same as 1.52 to 29.04m

**FALCONBRIDGE NICKEL MINES LIMITED**

DIAMOND DRILL RECORD

LOCATION \_\_\_\_\_ DIRECTION \_\_\_\_\_ DIP \_\_\_\_\_ HOLE No. L0-86-7

LOGGED BY \_\_\_\_\_ CASING \_\_\_\_\_ SHEET No. 4

STARTED \_\_\_\_\_ CORE SIZE \_\_\_\_\_ CORRECTED TESTS \_\_\_\_\_

FINISHED \_\_\_\_\_

PROPERTY \_\_\_\_\_

FROM	TO	DESCRIPTION
		29.85 - 33.00 Mod. pervasive silicification, chloritization and fracture controlled hematization. Tr py throughout the section.
		33.00 - 35.05 Strong hematization and chloritization and mod. silicification. 1 to 3% py associated with the chlorite alteration.
		35.05 - 35.45 Mod. silicification and hematization and tr py
		35.45 - 36.58 Strong silicification with 5% py concentrated along chlorite filled fractures.
		36.58 - 37.05 Strong pervasive carbonatization and nil pyrite.
		37.05 - 43.94 Mod. silicification with trace to 1% py
		43.94 - 44.05 Quartz carbonate vein at 30° to the c/a with 30% chlorite, 10% biotite and tr to 1% py
		44.05 - 44.30 Strong pervasive carbonatization
		44.30 - 44.70 Strong silicification and 5% py
		44.70 - 48.46 Weak silicification, mod. chloritization and tr py
	48.46	<u>END OF HOLE</u>
		Contractor: Martinson Linecutting & Staking Ltd., Courtenay, B.C.
		Hole drilled to test northern half of the IP chargeability anomaly on line 10E between 9+20S and 9+80S.

**FALCONBRIDGE NICKEL MINES LIMITED**

**DIAMOND DRILL RECORD**

LOCATION 9+50S, 9+00E DIRECTION 360° DIP -45° HOLE No. L0-86-8  
 LOGGED BY J. Pattison CASING 2.00m SHEET No. \_\_\_\_\_  
 STARTED April 13, 1986 CORE SIZE IAW CORRECTED TESTS \_\_\_\_\_  
 FINISHED April 14, 1986  
 PROPERTY LOYDEX OPTION 1

FROM meters	TO meters	length	SUMMARY LOG	DESCRIPTION
0	2.00	2.00	<u>OVERBURDEN</u>	
2.00	2.96	0.96	<u>MAFIC DYKE</u>	
2.96	9.45	6.49	<u>QUARTZ DIORITE</u>	
9.45	10.70	1.25	<u>MAFIC DYKE</u>	
10.70	56.08	45.38	<u>QUARTZ DIORITE</u>	
	56.08		<u>END OF HOLE</u>	

Contractor: Martinson Linecutting & Staking Ltd.,  
Courtenay, B.C.

Hole drilled to test IP chargeability anomaly between 9 + 05S  
and 9 + 40S on line 9E

GDS

# FALCONBRIDGE NICKEL MINES LIMITED

## DIAMOND DRILL RECORD

LOCATION 9+50S, 9+00E DIRECTION 360° DIP -45° HOLE No. L0-86-8  
 LOGGED BY J. Pattison CASING 2.00m SHEET No. 1  
 STARTED April 13, 1986 CORE SIZE IAW CORRECTED TESTS \_\_\_\_\_  
 FINISHED April 13, 1986  
 PROPERTY LOYDEX OPTION 1

FROM	TO		DESCRIPTION
0	2.00	2.00	<u>OVERBURDEN</u> - sand
2.00	2.96	0.96	<u>MAFIC DYKE</u> Blue-grey, very fine grained, massive strongly carbonated with 5 to 10% diss pyrite. Lower contact is sharp at 25° to the core axis.
2.96	9.45	6.49	<u>QUARTZ DIORITE</u> Blue-grey, fine grained, feldspar porphyritic and is weakly sheared at 60 to 80° to the core axis. It is composed of more than 80% feldspar as subhedral phenocrysts up to 4 mm long and as crystals in the groundmass, 10 to 15% quartz in the groundmass and occasionally as blue phenocrysts up to 3mm in diameter, 1 to 5% mafic minerals (biotite and magnetite) as grains less than 2 mm in diameter, 1 to 3% chlorite as clumps less than 3 mm in diameter, 1-3% calcite in the groundmass and tr to 3% diss. py. The rock is weakly to strongly silicified, weakly sericitized and chloritized. The strongly silicified sections have no feldspar phenocrysts. 2.96 to 6.18 Mod. silicification and sericitization with 2 to 3% diss py 6.18 - 7.83 Weakly silicified and tr py 7.83 - 8.40 Strongly carbonatized with 2-3% diss py 8.40 - 9.45 Mod. carbonatized and trace py
9.45	10.70	1.25	<u>MAFIC DYKE</u> Same as 2.00 - 2.96 with 2 to 5% diss py. Core is broken



**FALCONBRIDGE NICKEL MINES LIMITED**

**DIAMOND DRILL RECORD**

L0-86-8

LOCATION \_\_\_\_\_ DIRECTION \_\_\_\_\_ DIP \_\_\_\_\_ HOLE No. \_\_\_\_\_  
 LOGGED BY \_\_\_\_\_ CASING \_\_\_\_\_ SHEET No. 2  
 STARTED \_\_\_\_\_ CORE SIZE \_\_\_\_\_ CORRECTED TESTS \_\_\_\_\_  
 FINISHED \_\_\_\_\_  
 PROPERTY \_\_\_\_\_

FROM	TO		DESCRIPTION
10.70	56.08	45.38	at the upper contact and lower contact is indistinct. <u>QUARTZ DIORITE</u> Same as 2.96 - 9.45
			10.70 - 11.05 Mod. carbonated with 1 to 2% diss py
			11.05 - 13.50 Mod. silicified, weakly carbonated with 2-3% py concentrated along carbonate- chlorite filled hairline fractures.
			13.50 - 13.70 Strongly silicified with a network of chlorite veinlets up to 4 mm wide with 2% pyrite.
			13.70 - 15.50 Mod. silicified and carbonatized with 1-3% pyrite.
			15.50 - 16.12 Mod. pervasive carbonatization and tr py
			16.12 - 19.97 Mod. silicification and fracture controlled chloritization. 1 to 2% pyrite concen- trated along chlorite filled fractures at 60 to 80° to c/a
			19.97 - 22.75 Strongly feldspar porphyritic, little alteration, nil to tr diss py
			22.75 - 25.93 Mod. pervasive silicification, weak fracture controlled epidotization and nil to tr pyrite.
			25.93 - 26.70 Strong silicification and mod. fracture controlled epidotization. Most epidote

# FALCONBRIDGE NICKEL MINES LIMITED

## DIAMOND DRILL RECORD

LOCATION \_\_\_\_\_ DIRECTION \_\_\_\_\_ DIP \_\_\_\_\_ HOLE No. LO-86-8

LOGGED BY \_\_\_\_\_ CASING \_\_\_\_\_ SHEET No. 3

STARTED \_\_\_\_\_ CORE SIZE \_\_\_\_\_ CORRECTED TESTS \_\_\_\_\_

FINISHED \_\_\_\_\_

PROPERTY \_\_\_\_\_

FROM	TO	DESCRIPTION
		veinlets are at 70 to 80° to the core axis. 1-2% diss py.
	26.70 - 28.13	Same as 22.75 - 25.93
	28.13 - 30.00	Mod. silicified with 2-3% py concentrated along carbonate filled fractures at 65 to 80° to the core axis.
	30.00 - 30.80	Weakly silicified and trace diss. py
	30.80 - 32.08	Strongly silicified with 5% pyrite concentrated along carbonate-chlorite veinlets at 5 to 20° to the core axis.
	32.08 - 32.40	Weakly silicified and trace diss py
	32.40 - 34.90	Same as 30.80 to 32.08 with veinlets at 10 to 30° to the core axis.
	34.90 - 39.00	Mod. silicified with 2 to 3% pyrite concentrated along carbonate-chlorite filled fractures at 5 to 75° to the core axis.
	39.00 - 40.65	Weakly silicified with nil to tr diss py
	40.65 - 41.05	Strongly silicified with 7% py concentrated in carbonate veinlets 1 to 3 mm wide at 60 to 70° to the c/a
	41.05 - 42.95	Weakly silicified with nil to tr diss py
	42.95 - 43.60	Mod. silicification and 2-3% py concentrated in carbonate veinlets at 50 to 60°

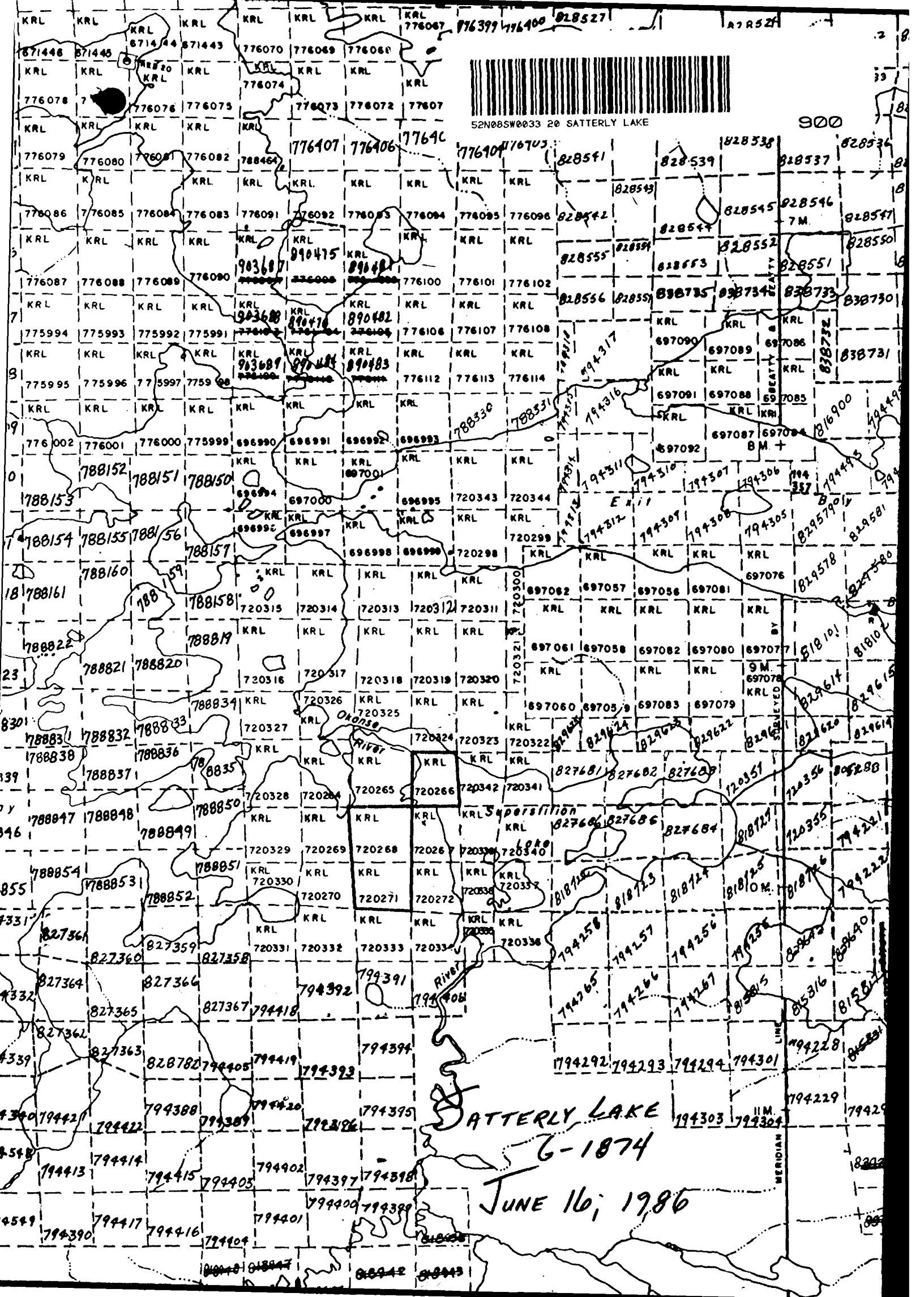
**FALCONBRIDGE NICKEL MINES LIMITED**

**DIAMOND DRILL RECORD**

LOCATION \_\_\_\_\_ DIRECTION \_\_\_\_\_ DIP \_\_\_\_\_ HOLE No. LO-86-8  
 LOGGED BY \_\_\_\_\_ CASING \_\_\_\_\_ SHEET No. 4  
 STARTED \_\_\_\_\_ CORE SIZE \_\_\_\_\_ CORRECTED TESTS \_\_\_\_\_  
 FINISHED \_\_\_\_\_  
 PROPERTY \_\_\_\_\_

FROM	TO	DESCRIPTION
		to the core axis.
		43.60 - 44.99 Weakly silicified with nil to tr. py
		44.99 - 45.12 Strongly silicified with 5% py in carbonate veinlets at 60 to 70° to the core axis.
		45.12 - 45.96 Weakly silicified and nil pyrite.
		45.96 - 51.20 Mod. silicified with 2 to 5% pyrite concentrated in carbonate chlorite veinlets at 10 to 45° to the core axis.
		51.20 - 51.75 Weakly silicified with nil py
		51.75 - 54.56 Strong pervasive carbonatization and weak to mod. spotty chloritization with tr. to 1% diss. py.
		54.56 - 56.08 Weakly silicified with trace to 1% py concentrated along carbonate chlorite veinlets at 45 to 55° to the c/a
	56.08	<u>END OF HOLE</u>
		Contractor: Martinson Linecutting & Staking Ltd., Courtenay, B.C.
		Hole drilled to test IP chargeability anomaly between 9+05S and 9+40S on line 9E

ONTARIO GEOLOGICAL SURVEY  
 ASSESSMENT FILES  
 RESEARCH OFFICE  
 JUN 20 1983  
 RECEIVED



SATTERLY LAKE  
- 6-1874  
JUNE 16, 1986

MERIDIAN LINE

900

828541 828539 828538 828537 828536

828542 828544 828545 828546 828547

828555 828554 828552 828551 828550

828556 828557 828735 828734 828733 828730

828557 828558 828559 828560 828561

828562 828563 828564 828565 828566

828567 828568 828569 828570 828571

828572 828573 828574 828575 828576

828577 828578 828579 828580 828581

828582 828583 828584 828585 828586

828587 828588 828589 828590 828591

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828597 828598 828599 828600 828601

828602 828603 828604 828605 828606

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828612 828613 828614 828615 828616

828617 828618 828619 828620 828621

828622 828623 828624 828625 828626

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828632 828633 828634 828635 828636

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828672 828673 828674 828675 828676

828677 828678 828679 828680 828681

828682 828683 828684 828685 828686

776070 776069 776068 776074 776073 776072 77607

776079 776080 776081 776082 776083 776084 776085 776086

776087 776088 776089 776090 776091 776092 776093 776094

776095 776096 776097 776098 776099 776100 776101 776102

776103 776104 776105 776106 776107 776108 776109 776110

776111 776112 776113 776114 776115 776116 776117 776118

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776287 776288 776289 776290 776291 776292 776293 776294

776295 776296 776297 776298 776299 776300 776301 776302

776303 776304 776305 776306 776307 776308 776309 776310



Report of Work

# 44-86  
afro

Instructions - Supply required data on a separate form for each type of work to be recorded (see table below). For Geo-technical work use form no. 1362 "Report of Work (Geological, Geophysical, Geochemical and Expenditures)".

SATTERLEY LAKE

Mining Act

Name and Postal Address of Recorded Holder Kidd Creek Mines Limited	Prospector's Licence No. T-1848
40th Floor, Commerce Court West, Toronto, Ontario M5L 1B4	

Summary of Work Performance and Distribution of Credits

Total Work Days Cr. claimed 1,672.6	Mining Claim		Work Days Cr.	Mining Claim		Work Days Cr.	Mining Claim		Work Days Cr.
	Prefix	Number		Prefix	Number		Prefix	Number	
for Performance of the following work. (Check one only)	See attached list								
<input type="checkbox"/> Manual Work									
<input type="checkbox"/> Shaft Sinking Drifting or other Lateral Work.									
<input type="checkbox"/> Compressed Air, other Power driven or mechanical equip.									
<input type="checkbox"/> Power Stripping									
<input checked="" type="checkbox"/> Diamond or other Core drilling									
<input type="checkbox"/> Land Survey									

All the work was performed on Mining Claim(s): KRL 720271, KRL 720266 and KRL 720268

Required Information eg: type of equipment, Names, Addresses, etc. (See Table Below)

Contractor: Martinson Linecutting and Staking Ltd.  
304-576 England Avenue  
Courtney, British Columbia V9N 5M7

Start Date: March 3, 1986  
Finish Date: April 14, 1986  
Core Size: IAW

DDH	Length
L0-86-1	52.42 metres
L0-86-2	28.35
L0-86-3	100.58
L0-86-4	83.06
L0-86-5	70.71
L0-86-6	70.10
L0-86-7	48.46
L0-86-8	56.08
<b>Total</b>	<b>509.8 metres</b>
	or (1,672.6 feet)

APPROVED JUN 16 1986

RECEIVED JUN 20 1986

RECEIVED JUN 16 1986 RED LAKE MINING DIV.

Date of Report June 13, 1986	Recorded Holder or Agent (Signature) Richard Kenny
---------------------------------	---

Certification Verifying Report of Work

I hereby certify that I have a personal and intimate knowledge of the facts set forth in the Report of Work annexed hereto, having performed the work or witnessed same during and/or after its completion and the annexed report is true.

Name and Postal Address of Person Certifying  
Richard Kenny

100-3074 Portage Ave, Winnipeg, Manitoba R3K 0Y2

Date Certified June 13, 1986	Certified by (Signature) Richard Kenny
---------------------------------	---

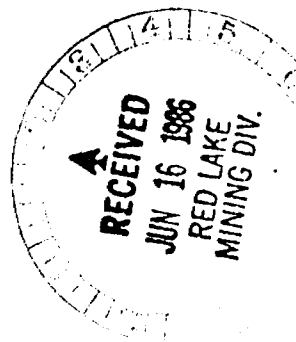
Table of Information/Attachments Required by the Mining Recorder

Type of Work	Specific information per type	Other information (Common to 2 or more types)	Attachments
Manual Work	Nil	Names and addresses of men who performed manual work/operated equipment, together with dates and hours of employment.	Work Sketch: these are required to show the location and extent of work in relation to the nearest claim post.
Shaft Sinking, Drifting or other Lateral Work			
Compressed air, other power driven or mechanical equip.	Type of equipment	Names and addresses of owner or operator together with dates when drilling/stripping done.	
Power Stripping	Type of equipment and amount expended. Note: Proof of actual cost must be submitted within 30 days of recording.		
Diamond or other core drilling	Signed core log showing: footage, diameter of core, number and angles of holes.	Nil	Work Sketch (as above) in duplicate
Land Survey	Name and address of Ontario land surveyor.		Nil

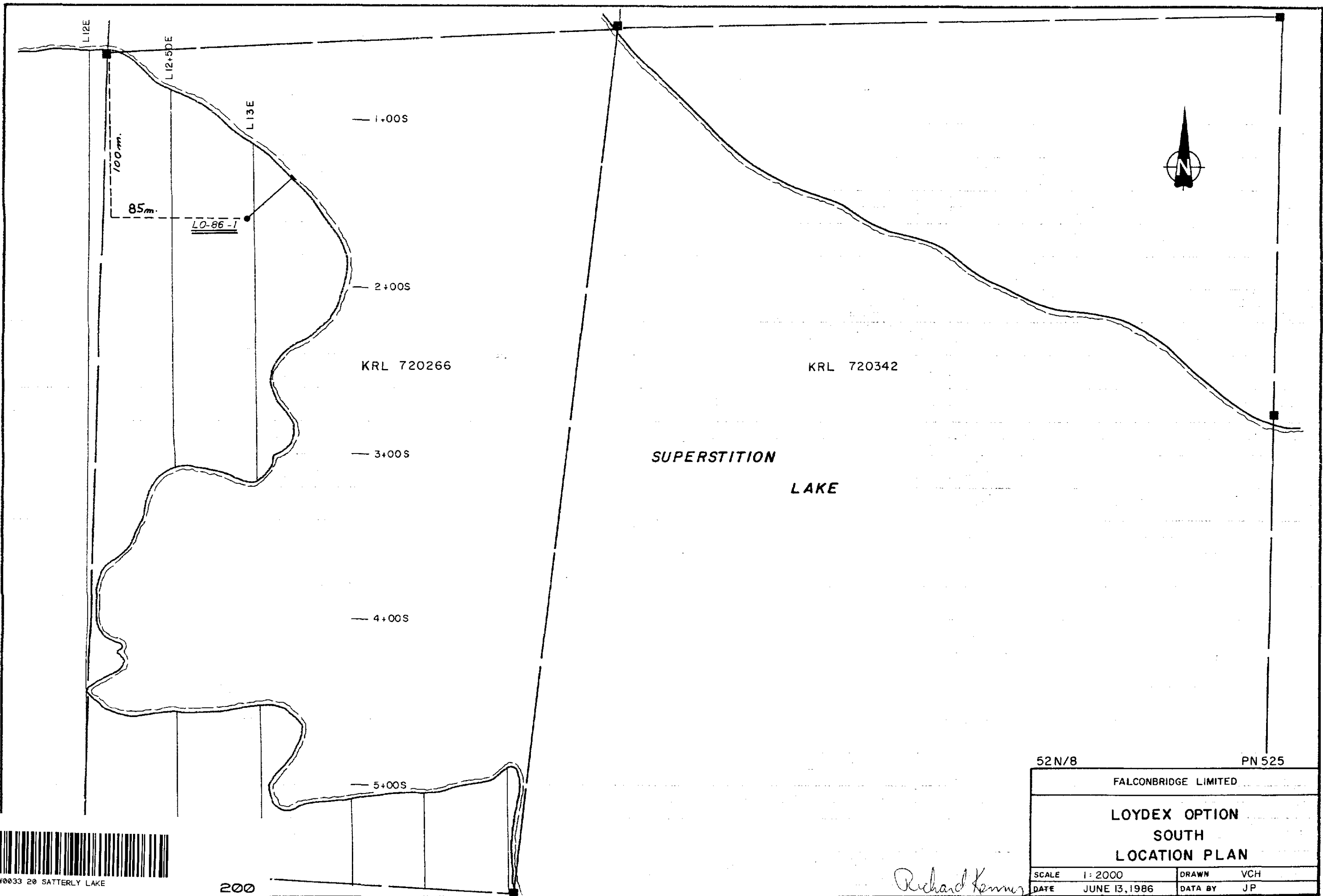
DISTRIBUTION OF CREDITS

<u>Claim No.</u>	<u>Days</u>	<u>Claim No.</u>	<u>Credits</u>
KRL 720264	36.4	KRL 720322	36.4
KRL 720265	36.4	KRL 720323	36.4
KRL 720266	36.4	KRL 720324	36.4
KRL 720267	36.4	KRL 720325	36.4
KRL 720268	36.4	KRL 720326	36.4
KRL 720269	36.4	KRL 720327	36.4
KRL 720270	36.4	KRL 720328	36.4
KRL 720271	36.4	KRL 720329	36.4
KRL 720272	36.4	KRL 720330	36.4
KRL 720298	36.4	KRL 720331	36.4
KRL 720299	36.4	KRL 720332	36.4
KRL 720300	36.4	KRL 720333	36.4
KRL 720311	36.4	KRL 720334	36.4
KRL 720312	36.4	KRL 720335	36.4
KRL 720313	36.4	KRL 720336	36.4
KRL 720314	36.4	KRL 720337	36.4
KRL 720315	36.4	KRL 720338	36.4
KRL 720316	36.4	KRL 720339	36.4
KRL 720317	36.4	KRL 720340	36.4
KRL 720318	36.4	KRL 720341	36.4
KRL 720319	36.4	KRL 720342	36.4
KRL 720320	36.4	KRL 720343	36.4
KRL 720321	36.4	KRL 720344	34.6

Total days allocated = 45 claims x 36.4 days/claim = 1,638 days  
1 claim X 34.6 = 34.6  
1,672.6



APPROVED JUN 16 1986



1+00S

2+00S

3+00S

4+00S

5+00S

L12E

L12+50E

L13E

100m.

85m.

LO-86-1

KRL 720266

KRL 720342

SUPERSTITION

LAKE

52N/8

PN 525

FALCONBRIDGE LIMITED

LOYDEX OPTION  
SOUTH  
LOCATION PLAN

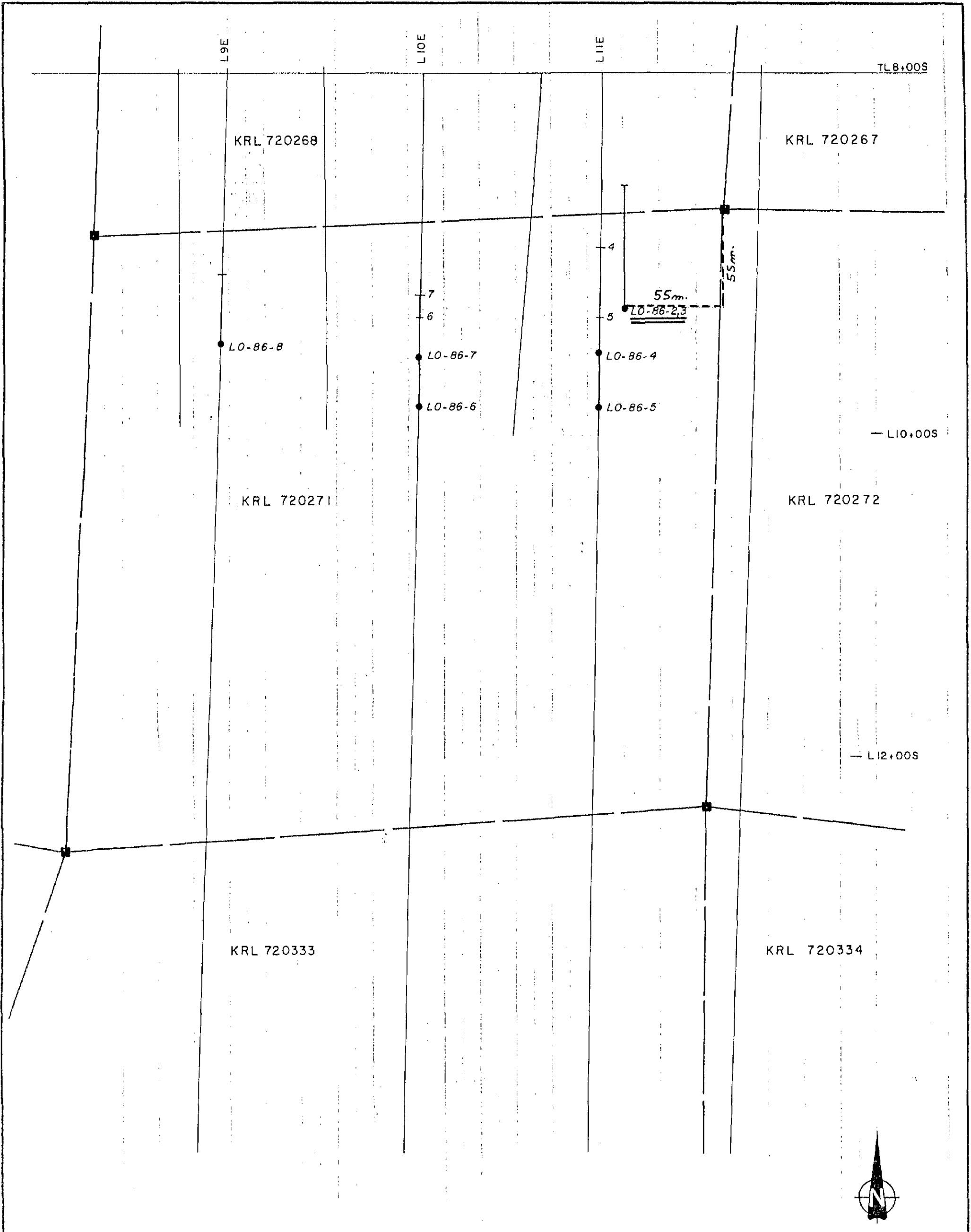
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DATE	JUNE 13, 1986	DATA BY	JP

*Richard Kenny*

200



52N08SW0033 20 SATTERLY LAKE

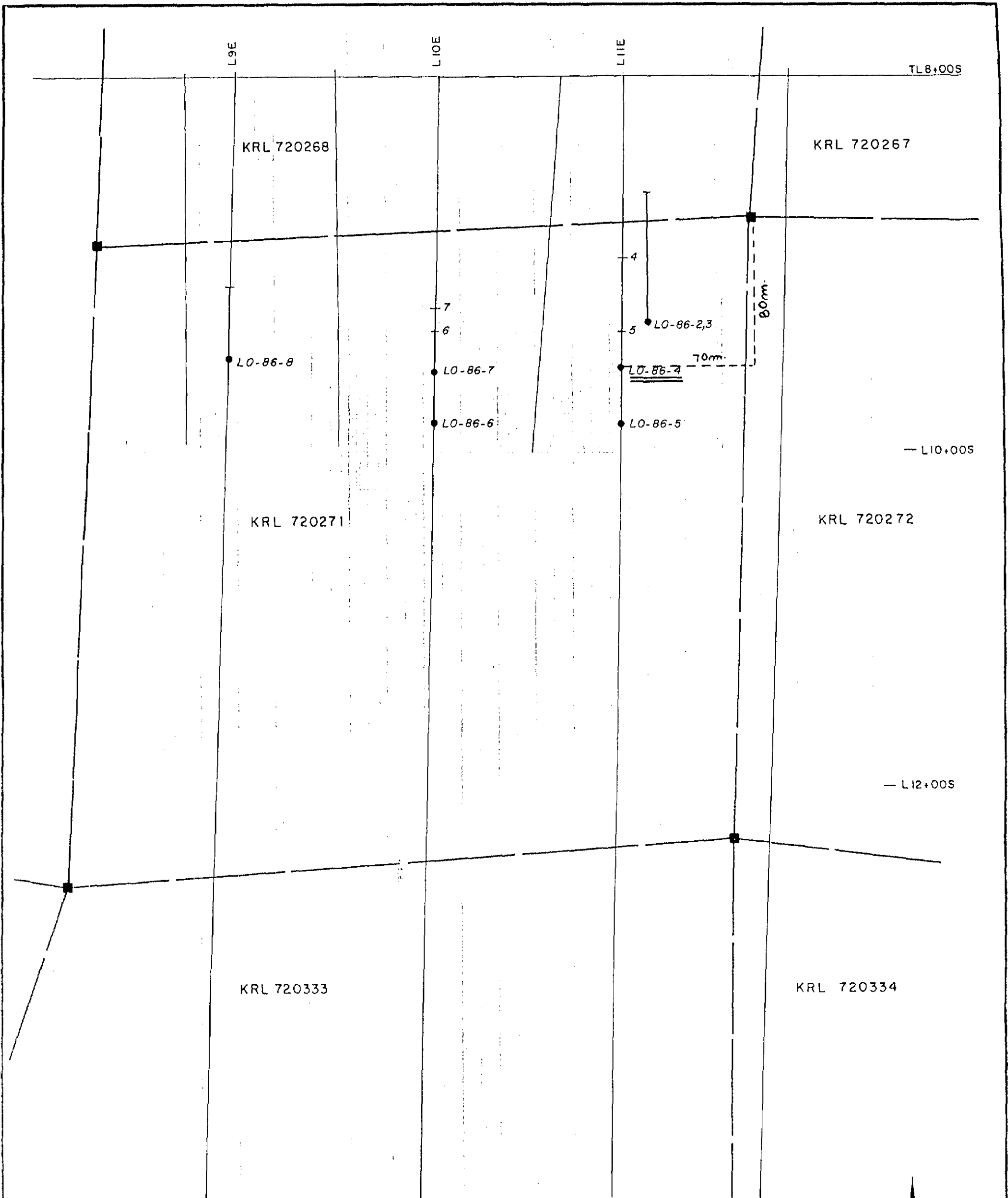


52N/8		PN 525	
FALCONBRIDGE LIMITED			
LOYDEX OPTION SOUTH LOCATION PLAN			
SCALE	1:2000	DRAWN	VCH
DATE	JUNE 13, 1986	DATA BY	JP



Richard Kenny



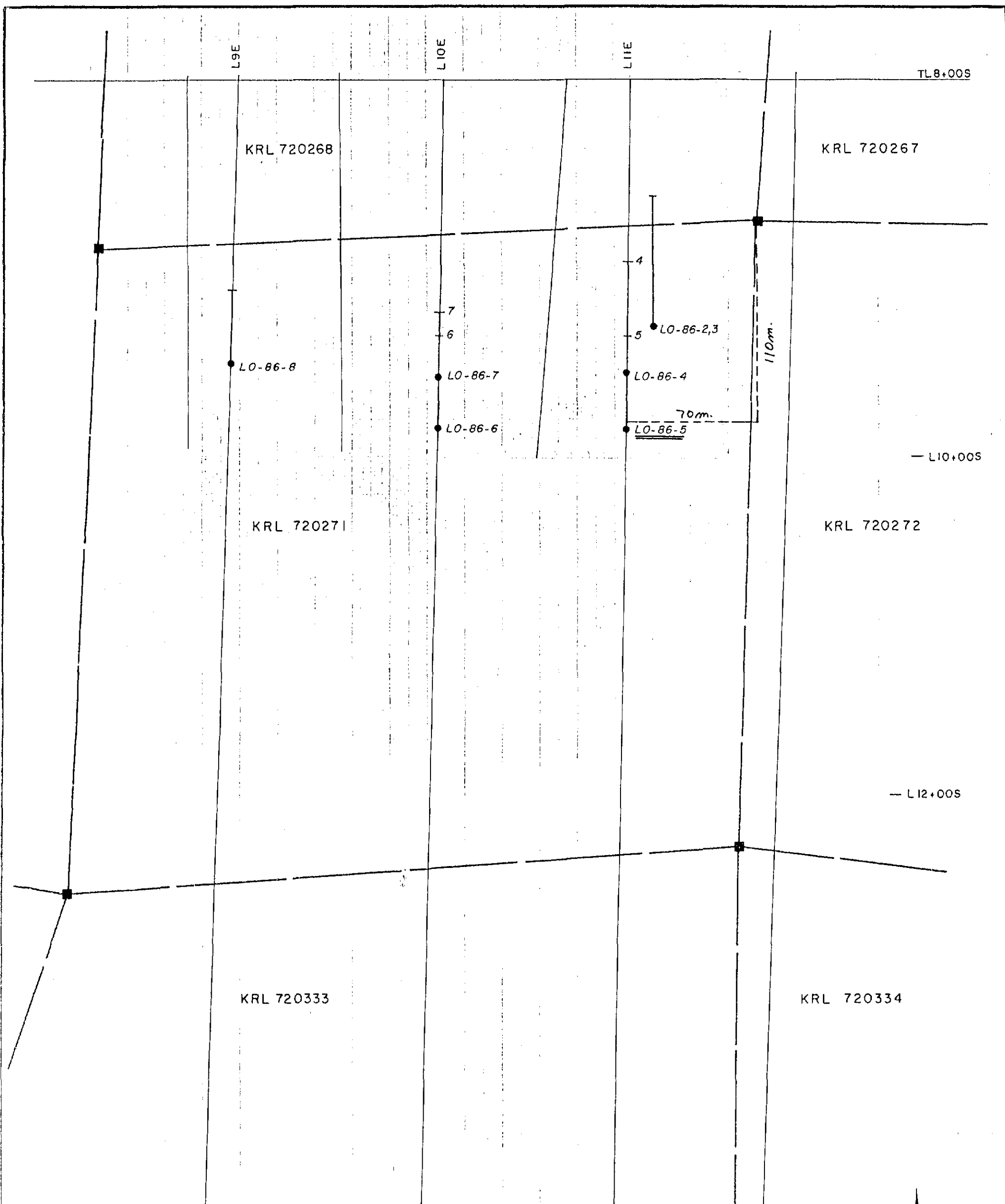


52N/8		PN 525	
FALCONBRIDGE LIMITED			
LOYDEX OPTION SOUTH LOCATION PLAN			
SCALE	1:2000	DRAWN	VCH
DATE	JUNE 13, 1986	DATA BY	JP

*Richard Kenna*



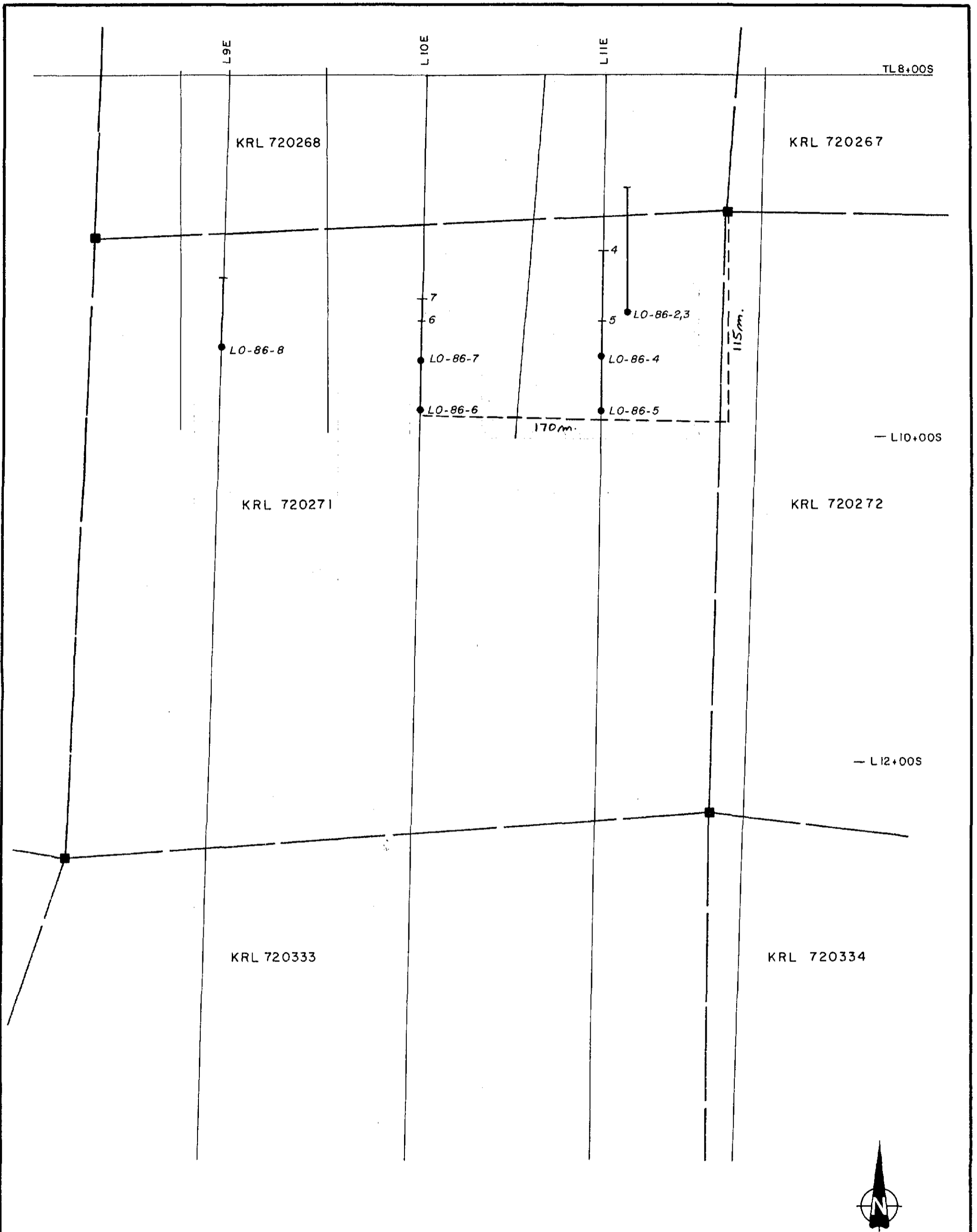
52N08S00033 20 SATTERLY LAKE



52N/8		PN 525	
FALCONBRIDGE LIMITED			
LOYDEX OPTION SOUTH LOCATION PLAN			
SCALE	1:2000	DRAWN	VCH
DATE	JUNE 13, 1986	DATA BY	JP

*Richard Kenning*





52N/8

PN 525

FALCONBRIDGE LIMITED

LOYDEX OPTION  
SOUTH  
LOCATION PLAN

SCALE 1:2000

DRAWN VCH

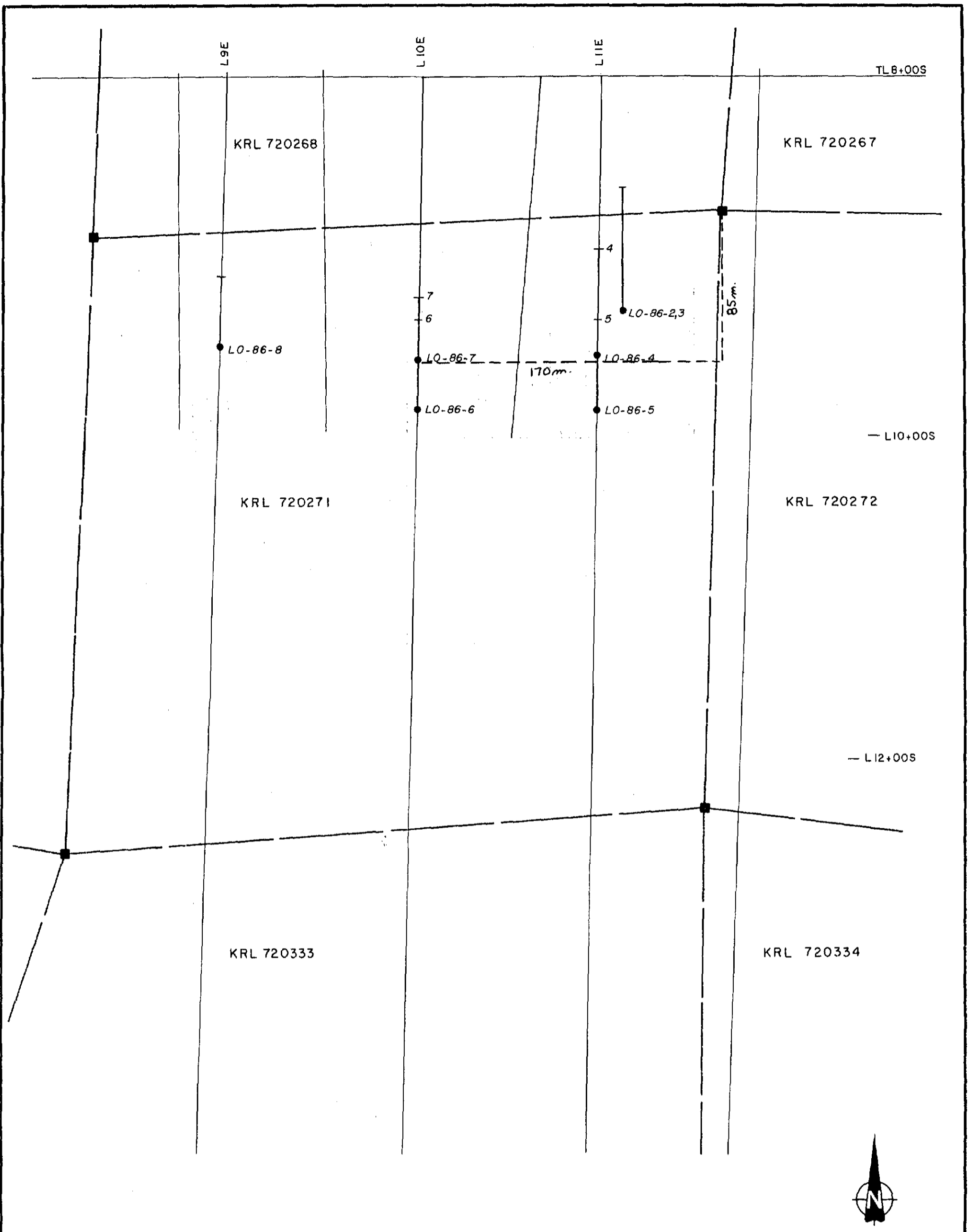
DATE JUNE 13, 1986

DATA BY JP

*Richard Kenning*



52N8SW0033 20 SATTERLY LAKE

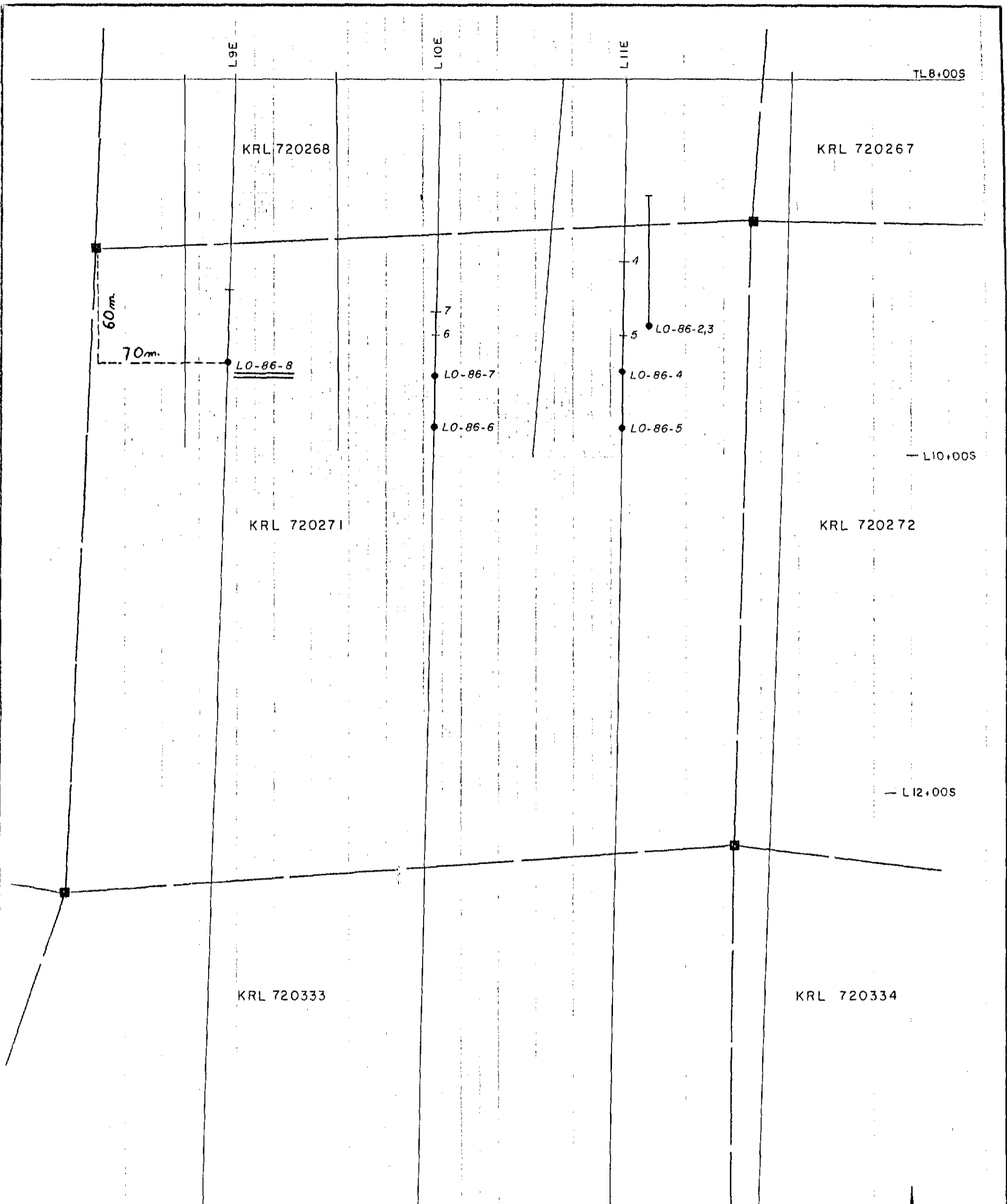


52N06SW0033 20 SATTERLY LAKE

250

52N/8		PN 525	
FALCONBRIDGE LIMITED			
LOYDEX OPTION SOUTH LOCATION PLAN			
SCALE	1:2000	DRAWN	VCH
DATE	JUNE 13, 1986	DATA BY	JP

*Richard Kenny*



52N/8

PN 525

FALCONBRIDGE LIMITED

LOYDEX OPTION  
SOUTH  
LOCATION PLAN

SCALE	1:2000	DRAWN	VCH
DATE	JUNE 13, 1986	DATA BY	JP



52N08SW0033 20 SATTERLY LAKE

260

*Richard Kenny*