DIAMOND DRILLING

TOWNSHIP: Tully

REPORT NO.: 51

WORK PERFORMED BY: Lacana Mining Corp.

CLAIM NO.	HOLE NO.	FOOTAGE	DATE	NOTE	
P 522394	T80-1	556.0	June/80	(1)	N
	T80-2	617.0	June/80	(1)	
P 522397	T80-3	506.0	June/80	(1)	A
P 522398	T80-4	566.0	June/80	(1)	
P 522404	T80-6	376.0	July/80	(1)	
P 522431	T80-8	475.0	Sept/80	(1)	A G
P 522437	T80-9	517.0	Sept/80	(1)	A G
P 522432	T80-10	494.0	Sept/80	(1)	
P 522466	T80-11	450.0	Sept/80	(1)	A
P 522438 524431	T80-12	502.0	Oct/80	(1)	

NOTES: (1) #400-81

HOLE T80-1 PAGE 1 of 7

DRILL HOLE LOG

PROPERTY Tully Twp
DISTRICT Porcupine
LOCATION Tully Twp, Lot 2, Con I, S½ SW¼, Claim P522 394
OBJECTIVE Test EM Conductor

COMMENCED 6 June 1980
COMPLETED 9 June 1980
LAT

DEP
ELEV
BEARING 000°
DIP 55° (Collar)
LENGTH 556'
ETCH AT 200'-61°
TRUE DIP 400'-72°

HOR. COMPONENT
VER. COMPONENT
TOTAL RECOVERY
OTHER SURVEYS None
DRILLED BY Moderne Drilling

LOGGED BY A. L. Barker

Submitted by [illegible] 25 Feb 1981.

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	SAMPLE NUMBER	LENGTH FT.	ANALYSES %	%	%	%	oz/t	oz
0	151	OVERBURDEN - casing - glacial debris		167.8-170						
151	188.2	MAFIC FLOWS, AND VOLCANICLASTIC DEBRIS medium to olive green andesitic or basaltic compositioned material. Variable fragmental possibly flow brecciated or hyaloclastitic material and more massive olive green zones, with thin sections of darker green to grayish chloritic, possibly argillaceous volcaniclastic debris. Foliations at 50°-60° to Core Axis in upper part of interval decreasing to 30°-40° at 182'. Vague amygdular textures in some fragments. Mild carbonate alteration with fine threads and veinlets of calcite with minor quartz and pyrite throughout Cpy and Po occur in small veinlets at 187.6'.		175.5-180.7 180.7-188.2						

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	SAMPLE NUMBER	LENGTH FT.	ANALYSES %	%	%	%	oz/t	oz/
188.2	225.0	VOLCANICLASTIC DEBRIS - mafic to intermediate tuff. Tuff breccias and argillaceous reworked volcanic material. Up to 15% darker gray argillaceous matrix and local rubbly texture healed by calcite and minor quartz. Minor disseminated Py-Po in these zones. Weakly carbonated lower contact at 50% to core axis.		220-223.1						
225	229.6	"MASSIVE" zone of carbonated mafic volcanics - ANDESITE OR BASALT probably a thin flow becomes rubbly or brecciated at bottom (possibly overturned?) patchy network of calcite threads and veinlets at 228.1.								
229.6	230.6	BROKEN SHEARED CORE - surface leached, possible fault.								
228.1	281	MIXED MAFIC FLOWS AND FLOW BRECCIAS carbonated with calcite veinlets and irregular patchy alteration up to 15% of rock. Several more massive zones as at 240'. Local shearing with foliations at 15% to core axis as at 272.8'. Irregular brecciated zones are present probably as rubble on tops of flows, hyaloclastites, or breccias with foliations on contacts at 35° to core axis.		246.7-248.9						

HOLE 1 PAGE 3 of 7 CONTINUATION OF DRILL HOLE LOG

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	SAMPLE NUMBER	LENGTH FT.	ANALYSES %	%	%	%	oz/t	oz/
		Small quartz veins at 256.2, 245 with traces of Po, Cpy.								
281	282	SHEARED BROKEN MAFIC VOLCANICS (BASALT) - probably fault with a one foot barren quartz vein.								
282	317.5	ULTRAMAFIC FLOWS SHEARED CARBONATED Dark gray with low angle (15°-20° to core axis) chloritic and talcose shears, especially lower part of interval as colour lightens. Occasional zones of relict ophitic texture. Irregular patches and threads of calcite at low angles to core axis. Some calcite quartz veinlets at steeper angles locally with brecciated margins (298-298.6') Trace sulphides only.								
317.5	343.5	CARBONATED ULTRAMAFICS-MASSIVE may be transitional into less mafic material - less sheared, olive green ophitic zones. 325-326.2 - broken ore, some caved fragments, possible fault. Vague relict charges in grain size may be flow features. Pervasive carbonate as threads, streaks and matrix.								

HOLE 1 PAGE 4 of 7 CONTINUATION OF DRILL HOLE LOG

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	SAMPLE NUMBER	LENGTH FT.	ANALYSES %	%	%	%	oz/t	oz/
343.5	376.2	MAFIC FLOWS BASALT OR ANDESITE olive green, fine grained locally tuffaceous or fragmental. Possible thin flow from 366.2 - 370.2. Lower 6 feet of interval is brecciated and healed with vuggy carbonate veinlets (calcite)(40%). Occasional darker green (argillaceous?) chips or fragments are present. Py and Cpy sparsely disseminated in brecciated zone.		365-366.2 370-376.2						
376.2	408.5	ULTRAMAFIC FLOWS-CARBONATED SHEARED Spinifex zones at 386.7, 388.2, 388.6, 383.5, etc. Difficult to determine tops, but possibly are down hole. Dark green. Foliations at 20°-30° to core axis. Mottled irregular calcite alteration and brecciated zones.								
408.5	411.0	BASALTIC TUFFS OR VOLCANICLASTIC DEBRIS - fine angular argillaceous? chips or fragments in an olive green aphanitic matrix. Similar to material at top of hole. Lower contact at 20° to core axis.								
411.0	415	ULTRAMAFIC FLOWS - sheared at 10°-15° to core axis. Carbonated ±35% calcite. Vague chilled margins.								

HOLE 1 PAGE 5 of 7 CONTINUATION OF DRILL HOLE LOG

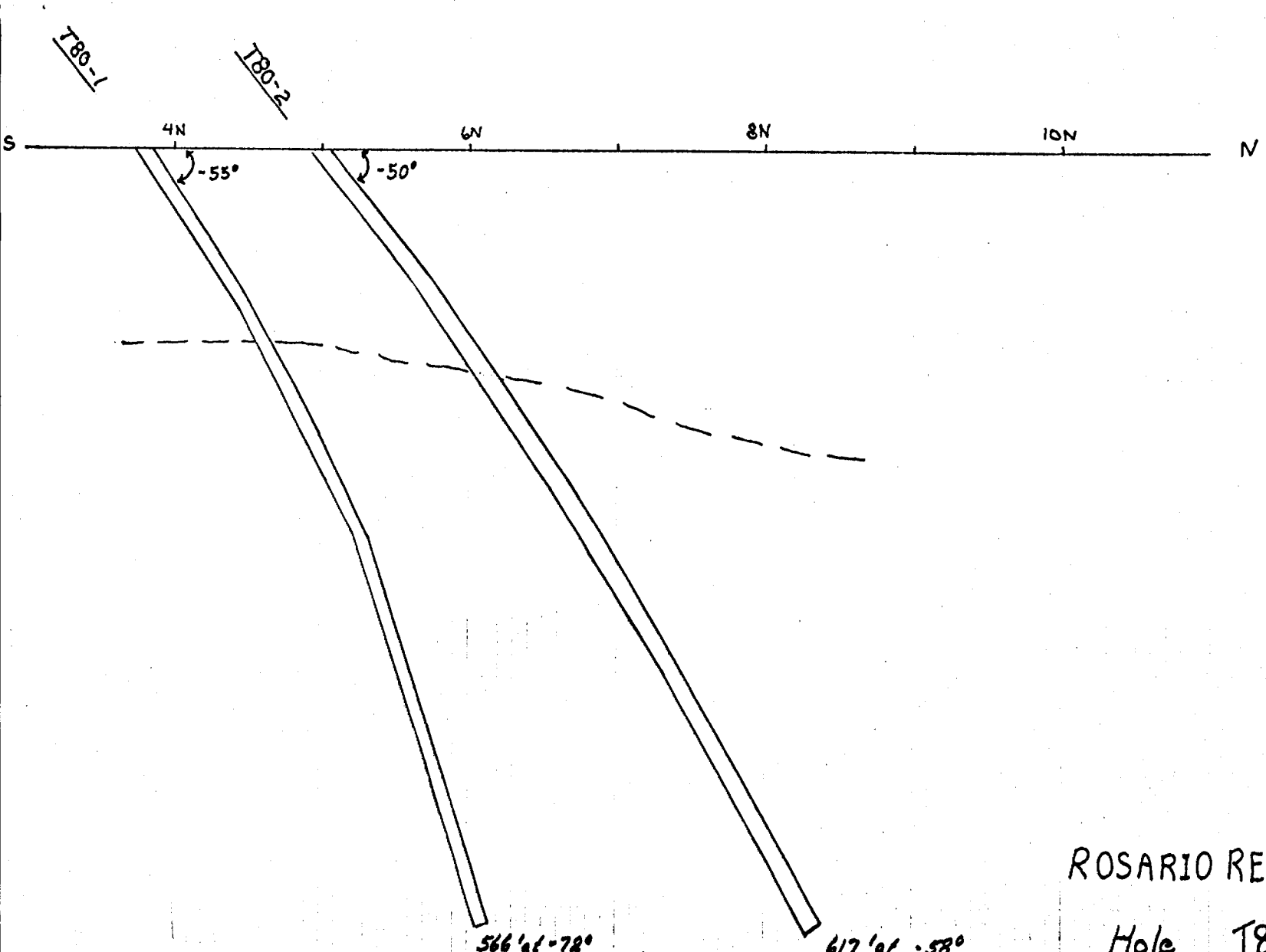
FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	SAMPLE NUMBER	LENGTH FT.	ANALYSES %	%	%	%	oz/t	oz/
415	431	HEAVILY SHEARED ULTRAMAFICS- POSSIBLE FAULT ZONE - talcose - dark gray greenish chloritic broken rubbly core.								
431	447.5	ULTRAMAFIC FLOWS MASSIVE - altered to talc chlorite-sericite and carbonate. Black to dark green. Excellent spinifex 431-434 and elsewhere. Not as pervasive carbonate alt'n foliation 35° to core axis at 437.5 No sulphides.								
447.5	486.5	ULTRAMAFIC FLOWS - dark green-black, serpentinized, talcose, brecciated and weakly carbonated with serpentine and talc-chlorite veinlets, flecked with 1-3% Cpy-Po talc chlorite veinlets seem to have chloritic margins. 461.5' carbonate zone 466.5' shearing at 10° to core axis 463.5-464.5' white sericite-talc carbonate-serpentine zone barren 464.6' sub-fibrous talc serpentine veinlets. Core is not strongly magnetic.		467-472 472-476.5 476.5-481.5 481.5-486						

HOLE 1 PAGE 6 of 7 CONTINUATION OF DRILL HOLE LOG

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	SAMPLE NUMBER	LENGTH FT.	ANALYSES %	%	%	%	oz/t	oz/
486.5	511	ALTERED ULTRAMAFIC FLOWS - black, sheared carbonated and serpentinized. Patchy carbonate-talc veins and irregular zones with minor disseminated Po and Cpy.								
511	534	HEAVILY SHEARED ULTRAMAFIC (FAULT?) foliations at 30° to core axis badly broken, mottled light patches mainly dark gray to black with minor calcite-chlorite talc threads and stringers containing traces of Po and Cpy. 530-532' very heavily sheared talc chlorite schist - probably lost and/or ground core.								
534	546.8	SHEARED BASIC FLOW OR TUFFACEOUS BASALT - light olive green, fine grained relict fragmental texture now sheared and brecciated. Lower contact sheared at 30°-40° to core axis. Last foot has foliations at 10°-15° to core axis.								

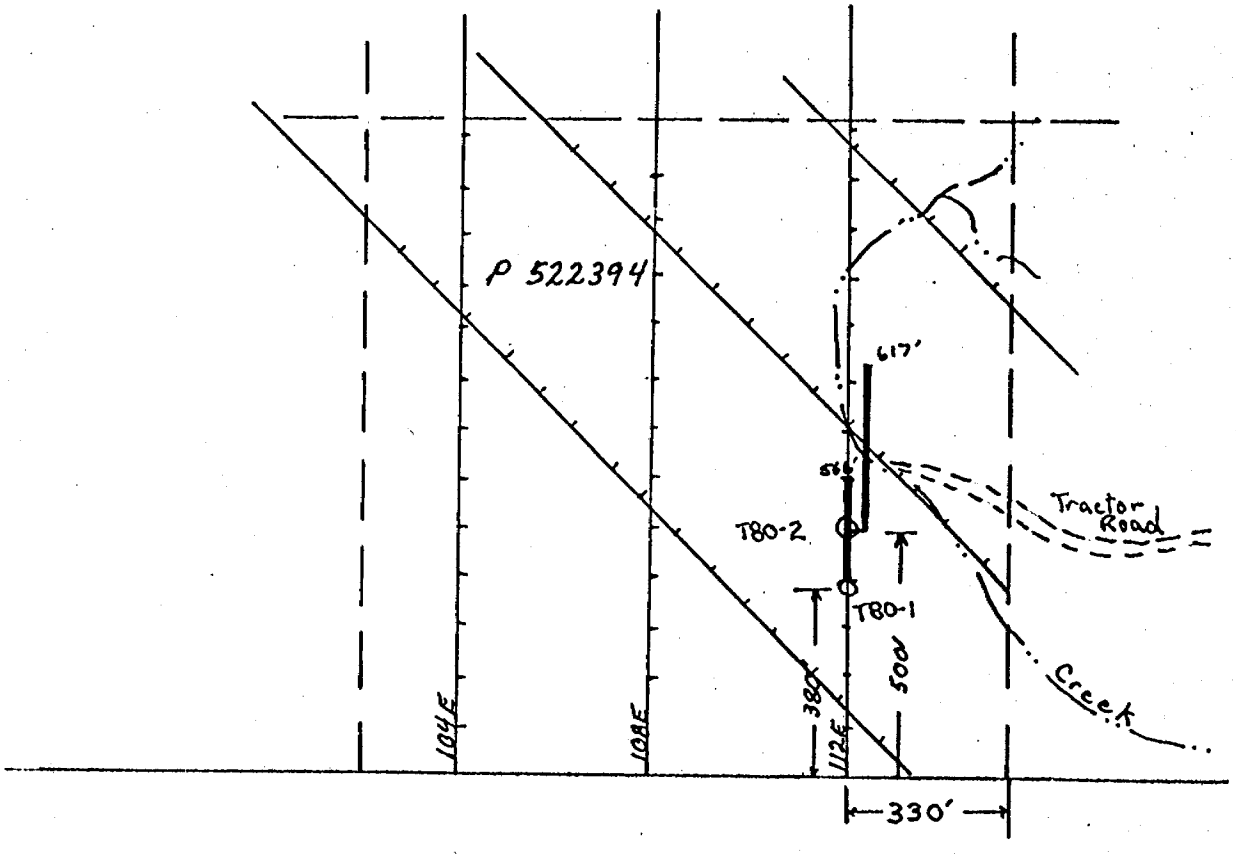
HOLE 1 PAGE 7 of 7 CONTINUATION OF DRILL HOLE LOG

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	SAMPLE NUMBER	LENGTH FT.	ANALYSES %	%	%	%	oz/t	oz/
546.8	556	CARBONATED SHEARED ULTRAMAFICS heavier carbonate than previous material, ±35% calcite. Patchy, mottled colour - lighter more calcitic zones with darker less altered areas giving a 'breccia' effect. Not as heavily sheared in the lower 3 feet. Very sparse Po.								
556		END OF HOLE								



ROSARIO RESOURCES CANADA LTD.

Hole T80-1, 2
L 112 E
1" - 100'



ROSARIO RESOURCES
CANADA LTD.

Tully Twp.

Hole T80-1, 2

1" - 400'

HOLE T80-2 PAGE 1 of 6

DRILL HOLE LOG

PROPERTY Tully Twp
DISTRICT Porcupine
LOCATION Tully Twp, Lot 2, Con I S½, SW¼, Claim P522 394
OBJECTIVE

COMMENCED 10 June 1980
COMPLETED 17 June 1980
LAT L/112E

DEP 4+50N
ELEV
BEARING 000°
DIP Collar 50°
LENGTH 617'
ETCH. AT 200'-53°
TRUE DIP 400'-57°
600'-58°

HOR. COMPONENT
VER. COMPONENT
TOTAL RECOVERY
OTHER SURVEYS
DRILLED BY Moderne Drilling

LOGGED BY A. L. Barker

Submitted by [illegible] 25 September 1981.

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	SAMPLE NUMBER	LENGTH FT.	ANALYSES %	%	%	%	oz/t	oz
0	190	OVERBURDEN GLACIAL DEBRIS								
190	200	MAFIC VOLCANICLASTIC MATERIAL MIXED WITH ARGILLACEOUS DEBRIS - fragmental andesite or basalt mixed with fragments, chips and streaks of pyritic graphitic argillite. 190-199' is bleached and carbonated with some minor silicification-argillitic zones decrease and colour darkens below 199' as carbonate alteration decreases. Material is not well bedded or foliated. No good structure. Py and Po occur as disseminations as well as with the argillite zones.		190-195 195-200 200-205 205-210 210-214 214-215.5						
200	264	BRECCIATED MAFIC VOLCANICS AND ARGILLITIC TUFFS - healed with carbonate mainly calcite-several argillite zones with graphitic-pyritic chips, making up about 5% of interval, as at 241'. Generally, these are at low (20°-30°) angles to core axis. 229.5-230.2' argillite calcite Py bx zone, buff carbonate filled pyritic		226.8-231 233-234.2 241.7-245.4 253-256 256-261 262.4-264.4						

HOLE 2 PAGE 2 of 6 CONTINUATION OF DRILL HOLE LOG

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	SAMPLE NUMBER	LENGTH FT.	ANALYSES %	%	%	%	oz/t	oz/
		brecciated zones from 233-234.2', 262.4-264.5' generally with contacts at 45° to core axis.								
264	291.4	MASSIVE MAFIC VOLCANICS ANDESITE OR BASALT - probably flows, somewhat coarse grained with relict ophitic texture, and buff calcitic pervasive alteration. Possible flow top at 282.5-283.1.		282.283.5						
291.4	301	MAFIC FLOWS AND FLOW BRECCIAS calcitic flow top bx zones and foliations at 20°-30° to core axis. Somewhat lighter green and finer grained than above interval. Good tuff bx and bx at 300', 291.3-294.5' is a bx or a flow top bx cemented by calcite and minor Py. Not much argillitic material. Occasional flattened fragments with foliation at ±20° to core axis.								
301	305.5	MAFIC FLOW ANDESITE OR BASALT massive at top and passes downwards into brecciated zone and interbedded flows and flow top breccias.								

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	SAMPLE NUMBER	LENGTH FT.	ANALYSES %	%	%	%	oz/t	oz/t
305.5	386.5	MIXED ANDESITIC OR BASALTIC FLOWS TUFF BRECCIAS AND FLOW TOP BRECCIAS Breccia zones generally healed with calcite and minor sulphides, Py, Cpy. Calcite zones have contacts at 10°-25° to core axis (as 331.5-334.5') more massive flow material has ± 1-3% disseminate Py-Po. Tuff breccias and flow top breccias at 363', 360', 369.4'. 353-357' broken core, possible fault with Vuggy calcite, minor quartz, seems to be leached.		352-354.5 363.6-365.6 374-377.2						
386.5	397	CHLORITIC ARGILLACEOUS WEAKLY GRAPHITIC SEDIMENTS - contains fragments of andesitic tuff and tuff bx. 2-10% pyrite locally weakly conductive lower part of interval less graphitic grades into coarsely fragmental mafic volcanics with buff-gray fragments and interstitial graphitic argillite. Numerous small shears and slips sub-parallel to core axis. Pervasive buff calcitic alteration and white calcite threads throughout.		385.4-388 388-393 393-397						

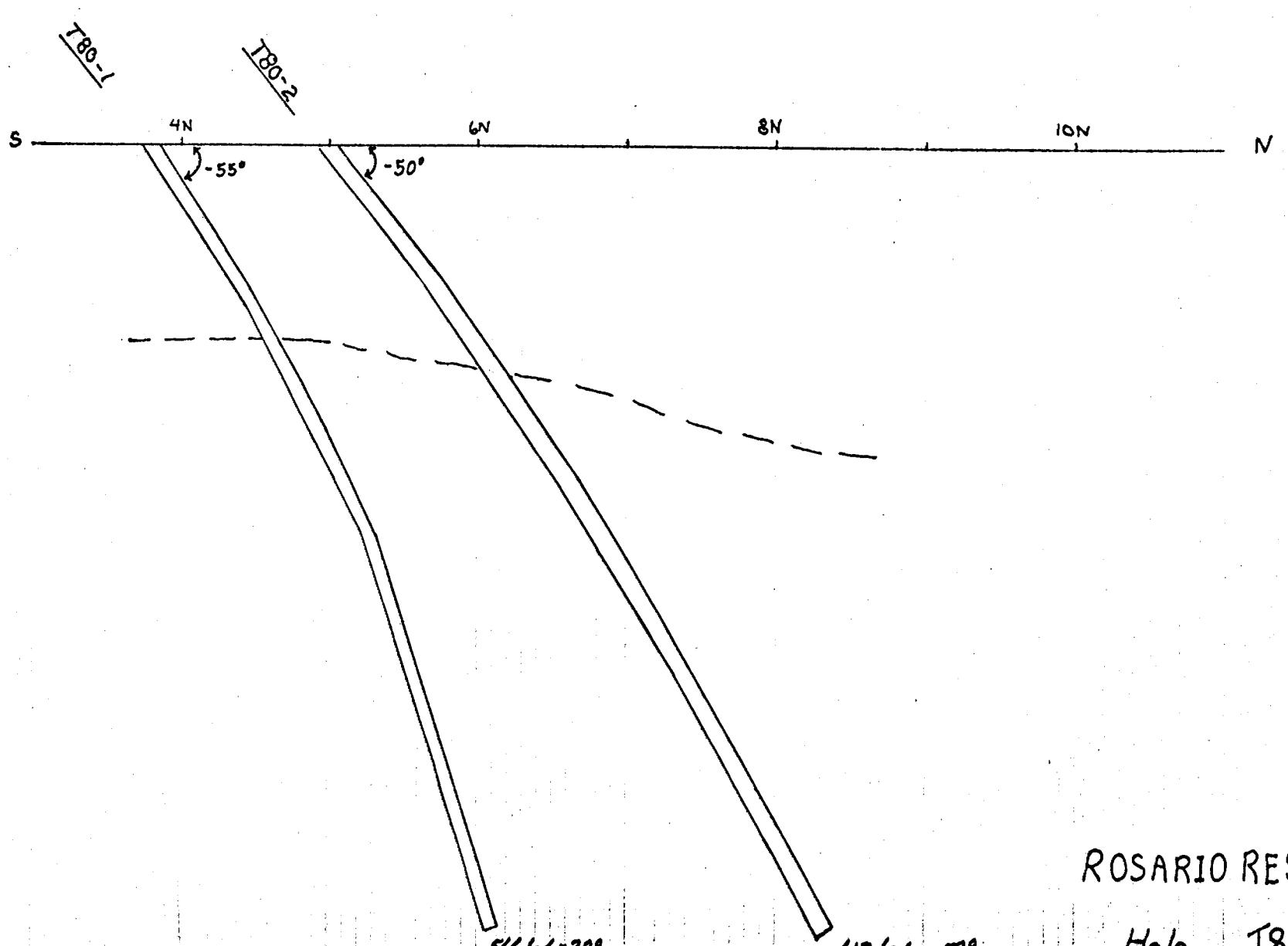
HOLE 2 PAGE 4 of 6 CONTINUATION OF DRILL HOLE LOG

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	SAMPLE NUMBER	LENGTH FT.	ANALYSES %	%	%	%	oz/t	oz/
397	421	MAFIC VOLCANICLASTIC DEBRIS coarse grained, less tuffaceous argillaceous material peters out by bottom of interval								
421	442	MAFIC LAHAR PEBBLY - tuffaceous matrix with olive green flattened andesitic or basaltic pebbles and fragments, weakly argillaceous interstitial streaks and patches. Fragments have variable texture, matrix is locally ashy and carbonated with bleached margins to some fragments which are generally sub-rounded to sub-angular. 426.5-432.2' zone weakly pyritic, probably a slump deposit.		422-425.5 426-427 441.5-446.5 446.5-450.5 450.5-452						
442	455	ARGILLACEOUS VOLCANICLASTIC DEBRIS darker argillaceous matrix - more pyritic, with some graphitic slips and streaky pyrite (446.5') may be weakly conductive.								
455	472.5	MAFIC FRAGMENTAL - massive, less argillaceous, greener, probably a flow or broken flow 1/2-1% disseminated Po and minor Py throughout.								

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	SAMPLE NUMBER	LENGTH FT.	ANALYSES %	%	%	%	oz/t	oz/
472.5	516	MAFIC TUFF BRECCIA - chloritic matrix and lighter gray, ashy fragments, matrix supported and flattened with foliations at 20°-35° to core axis. Pervasive calcitic alteration with sparse sulphides in matrix. Minor Cpy in sparse calcite threads. Lower part of the interval begins to have more massive 1-4' wide mafic volcanic zones.		497-499.6 514.5-516						
516	533.5	MAFIC FLOW SEQUENCE - less fragmental, locally tuffaceous and flecked with minor Po and graphitic streaks at 30° to core axis, as at 526'. Slightly magnetic due to 1-3% Po at various points throughout.		521-522.6						
533.5	551	MAFIC FLOWS - minor bx and some argillaceous flow top material, at 20°-30° to core axis, with calcitic stringers and threads.								
551	553	BROKEN CORE - probable fault.								
553	596	MAFIC FLOWS, ANDESITE OR BASALT olive green, weakly carbonated with minor breccia zones as flow tops.		593.5-594.7						

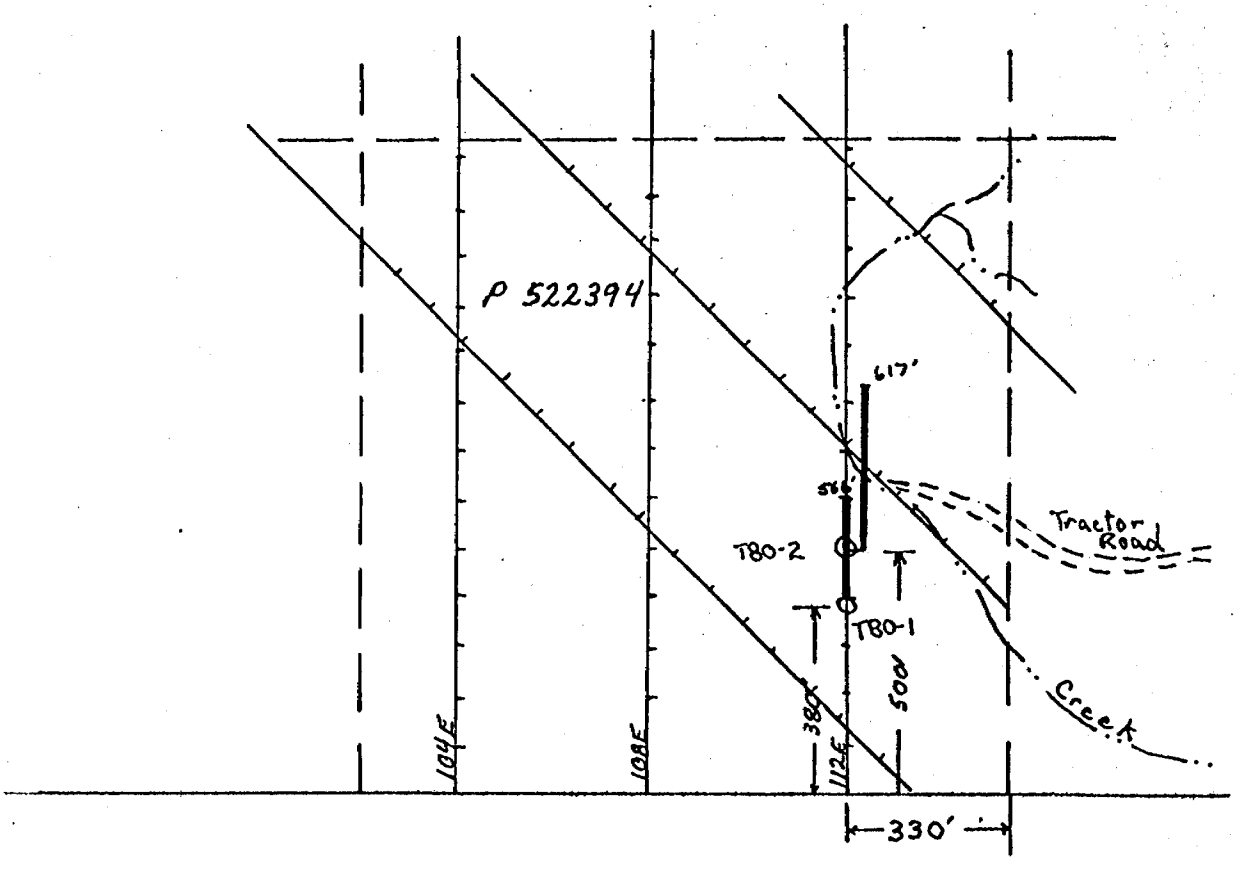
HOLE 2 PAGE 6 of 6 CONTINUATION OF DRILL HOLE LOG

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	SAMPLE NUMBER	LENGTH FT.	ANALYSES %	%	%	%	oz/t	oz/
		No good evidence for pillows, med. grained with coarser even textured zones. Calcite threads, streaks and blebs locally as at 577'. Becomes tuffaceous and argillaceous from 592.6' downwards, with graphitic streaks between debris fragments at 35° to core axis.								
596	598	GRAPHITIC ARGILLITE CALCITE ZONE contact at 45° to core axis, with a 4" calcite veinlet 598.3-598.6' Traces of Py on graphitic slips, weakly conductive.		596-598.9						
598	617	MAFIC VOLCANIC DEBRIS - volcaniclastic material locally tuffaceous, brecciated mixed with argillaceous streaks and having volcanic debris fragments set in argillaceous matrix. Strongly carbonated ±25% calcite as threads, streaks and matrix. Only minor sulphides.		612.5-617						
617		END OF HOLE								



ROSARIO RESOURCES CANADA LTD.

Hole T80-1,2
L 112 E
1" - 100'



ROSARIO RESOURCES
CANADA LTD.

Tully Twp.

Hole T80 - 1, 2

1" - 400'

HOLE T80-3 PAGE 1 of 5

DRILL HOLE LOG

PROPERTY Tully Twp
DISTRICT Porcupine
LOCATION Tully Twp, Lot 4, Con I, S½, SE¼, Claim P522 397
OBJECTIVE

COMMENCED 19 June 1980
COMPLETED 22 June 1980
LAT L 12 N

DEP 12+50N
ELEV
BEARING 225°
DIP Collar -55°
LENGTH 506'
ETCH. AT 200'-52°
TRUE DIP 500'-49°

HOR. COMPONENT
VER. COMPONENT
TOTAL RECOVERY
OTHER SURVEYS
DRILLED BY Moderne Drilling

LOGGED BY A. L. Barker

Submitted by [illegible] 25 septembre 1981

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	SAMPLE NUMBER	LENGTH FT.	ANALYSES %	%	%	%	oz/t	oz
0	142	OVERBURDEN GLACIAL DEBRIS								
142	258	ULTRAMAFIC (FLOWS) SERPENTINIZED - black medium grained, contains calcitic serpentine slips at variable core angles. Several broken talcose serpentinized zones quite heavily sheared (166-168'), (174-176') likely faults. Crocidolite? fibrous amphibole veinlets at 145.5'. Vague rythmic grain size changes but good spinifex at 197' and 198'. Locally seems to have polysutured fractures or flow top bx zones as at 183.5. These are serpentinized and occasionally strongly veined with carbonate-conspicuous lack of sulphides. Badly broken core-sheared 211-212', 215-216', 212-213'. Carbonated 218.5-226', in a rubble zone, or flow breccia.								
258	273	ULTRAMAFIC FLOWS - carbonated serpentinized. Irregular, one-three foot zones of lighter gray green, coarser grained carbonated rock and irregular 1-6" zones of "soapstone". Thin calcitic								

HOLE 3 PAGE 2 of 5 CONTINUATION OF DRILL HOLE LOG

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	SAMPLE NUMBER	LENGTH FT.	ANALYSES %	%	%	%	oz/t	oz/
		breccia zones again probably are flow top rubble or interflow debris-minor Po. 269' - 1-3% Po in serpentinized material adjacent to a calcitic serpentine shear with fine asbestiform threads.								
273	285.5	HEAVILY CARBONATED BRECCIATED SPINIFEX ZONE - irregular light buff green carbonatized ultramafics foliated at 60° to core axis. Good Spinifex 278.5-281.5'.		283.6-286.5 288.8-290.3 291.2-296.3						
285.5	286.2	SILICEOUS ARGILLITE - graphitic, dark gray, dense, a few quartz threads, followed by more massive carbonated rock.								
286.2	291	CARBONATIZED ULTRAMAFIC FLOW massive light olive green, upper part heavily carbonated with relict spinifex and foliated at 60° to core axis. A few calcite threads, probably in part ultramafic tuffs-at 290' an 8" wide calcite brecciated zone contains traces of pyrite.								
291.2	296.3	DARK GRAY SILICEOUS ARGILLITE not heavily graphitic, contains quartz threads and very fine calcite stringers with minor Py-Po.		291.2-296.3						

HOLE 3 PAGE 3 of 5 CONTINUATION OF DRILL HOLE LOG

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	SAMPLE NUMBER	LENGTH FT.	ANALYSES %	%	%	%	oz/t	oz/
296.3	332.8	OLIVE GREEN CARBONATED ULTRAMAFIC TUFFS OR MAFIC VOLCANICS - foliated at 60° to core axis. Becomes more massive down section. Several quartz-calcite veinlets at 50° to core axis. Minor patch of graphitic argillite at 329.3'with vuggy silica.		313.6-315 319-319.8						
332.8	362	GRAPHITIC ARGILLITE - mixed with carbonated mafic or ultramafic tuffs. ±15% siliceous streaks and stringers. Irregular fracture filling carbonate. Much broken core. Pyritic, as laminae with graphitic argillite or disseminated in quartz veinlets. Lower part mainly argillaceous streaks mixed in with tuffaceous debris.		332.7-337 337.7-342 342.7-347 347.7-352	.7 .7 .7 .7					
362	408	CARBONATED BASALTS OR MAFIC VOLCANIC ASH OR FLOWS - may be mixed basaltic flows and tuffs. Vague relict medium grained ophitic texture or crystal tuff-possible fine spinifex at 370.2'. Occasional bluish quartz blebs and vuggy siliceous patches may be secondary. Vague 60° foliation to core axis. Occasional argillaceous streaks near end of interval.		352.7-356 360-362						

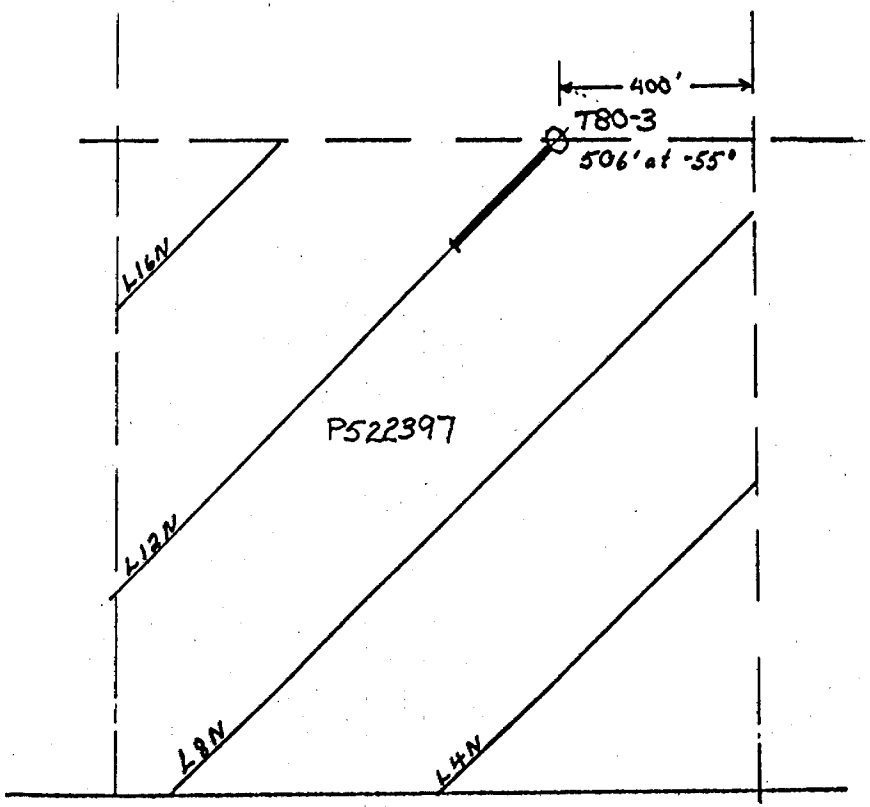
HOLE 3 PAGE 4 of 5 CONTINUATION OF DRILL HOLE LOG

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	SAMPLE NUMBER	LENGTH FT.	ANALYSES %	%	%	%	oz/t	oz/
408	478.8	AS ABOVE - but locally "ophitic" texture dominates. Could be thin andesitic flows with coarse centres or crystal tuffs and ash. Moderately carbonated, becomes somewhat grayer and argillaceous towards bottom.								
478.8	480.6	QUARTZ CARBONATE BRECCIA ZONE yellowish and white calcite with gray-white quartz. Traces of sulphides and Po-Cpy at lower contact with argillaceous tuff.		478.8-480.8						
480.6	506	TUFFACEOUS MAFIC VOLCANICS gray mottled, probably andesitic-occasional quartz carbonate - Py Cpy bearing stringers as at 494.6' and 497'. These are subparallel to the core axis. Minor feathery or "ophitic" textured zones persist to end.		494.6-497						
506		END OF HOLE								

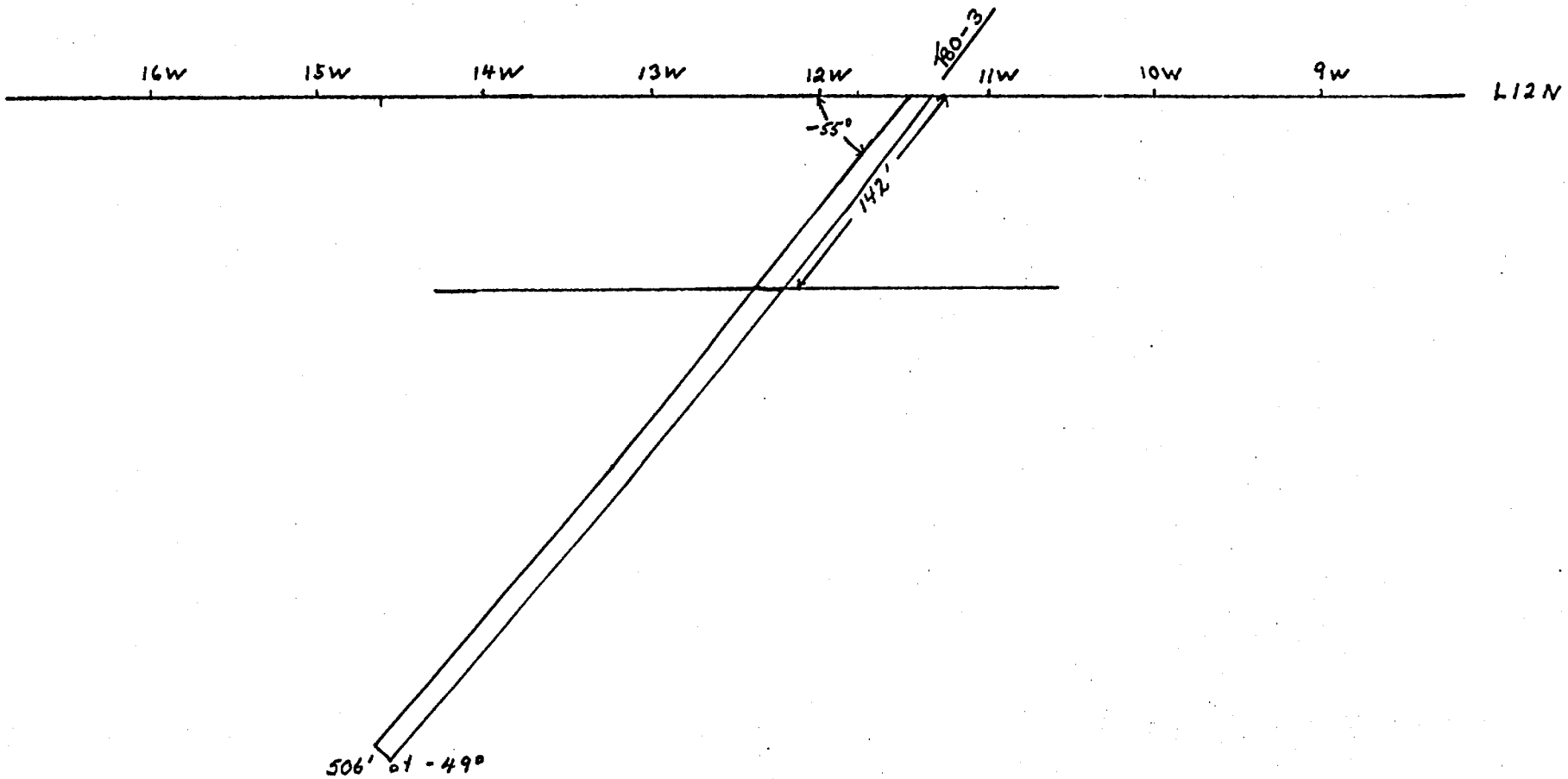
FILL IN ON EVERY PAGE

HOLE NO. T80-3

DESCRIPTION Colour, grain size, texture, minerals, alteration, etc.	PLANAR FEATURE ANGLE °	CORE SPECIMEN FOOTAGE †	YOUR SAMPLE NUMBER	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE LENGTH	ASSAYS †
			11001	190	207	17	tr
			11002	207	217	10	tr
			11003	217	227	10	p.tr
			11004	227	237	10	tr
			11005	237	247	10	tr
			11006	247	257	10	p.tr
			11007	257	267	10	p.tr
			11008	267	277	10	p.tr
			11009	277	287	10	p.tr
			11010	287	297	10	tr
			11011	297	307	10	tr
			11012	307	327	20	tr



ROSARIO RESOURCES CANADA LTD.
Tully Twp.
Hole T80-3
1" - 400'



ROSARIO RESOURCES CANADA LTD.

Tully Twp.

Hole T80-3

1" - 100'

DIAMOND DRILLING LOG

Start a new page for every new hole, but fill in top portion of form only on first page for each hole.

FILL IN ON EVERY PAGE

HOLE NO. T80-4 | PAGE NO. 1 of

DRILLING COMPANY: Moderne Drilling Co.	COLLAR ELEVATION:	BEARING OF HOLE FROM TRUE NORTH: 000°	TOTAL FOOTAGE: 566	DIP OF HOLE AT: collar 55°; 200 ft 51°; 500 ft 51°; ft °; ft °
DATE HOLE STARTED: 23 June 1980	DATE COMPLETED: 30 June 1980	DATE LOGGED: 17 June 1981	LOGGED BY: Patrick Chance	
EXPLORATION CO., OWNER OR OPTIONEE: Rosario Resources Canada Ltd.		DATE SUBMITTED: 25 September	SUBMITTED BY (Signature): [signature]	

LOCATION OF HOLE IN RELATION TO A FIXED POINT ON THE CLAIM: L56E, 11+50N

MAP REFERENCE NO.:

CLAIM NO.: P522 398

LOCATION (Tp., Lot, Con. OR Lat. and Long.): Tully Twp., Lot 4, Con. 1 S½, SW¼

PROPERTY NAME:

FOOTAGE FROM	FOOTAGE TO	ROCK TYPE	DESCRIPTION Colour, grain size, texture, minerals, alteration, etc.	PLANAR FEATURE ANGLE °	CORE SPECIMEN FOOTAGE +	YOUR SAMPLE NUMBER	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE LENGTH	ASSAYS +
0	174	Overburden								
174	566	Serpentinized Ultramafic Flows?	Generally a dark bluish-green rock consisting of pale yellowish-green grains (altered olivine?) set in a very fine-grained, dark blue 'anastomosing' matrix. Alternating relatively fine and coarse-grained sections suggest a flow sequence as follows: 192 - 260: f.g. 260 - 266: c.g. 266 - 280: m.g., possibly flow-top breccia 280 - 288: f.g. 288 - 311: c.g. 311 - 318: f.g. 318 - 331: c.g. 331 - 337: f.g. 337 - 342: c.g. 342 f.g., chilled margin-like 342 - 358: relatively c.g., cummulate-like 381 spinifex? 358 - 424: medium to coarse-grained peridotite. Texturally variable over interval 424 - 435: f.g., grain boundaries not obvious 437 - 455: c.g.							

DIAMOND DRILLING LOG

FILL IN ON EVERY PAGE

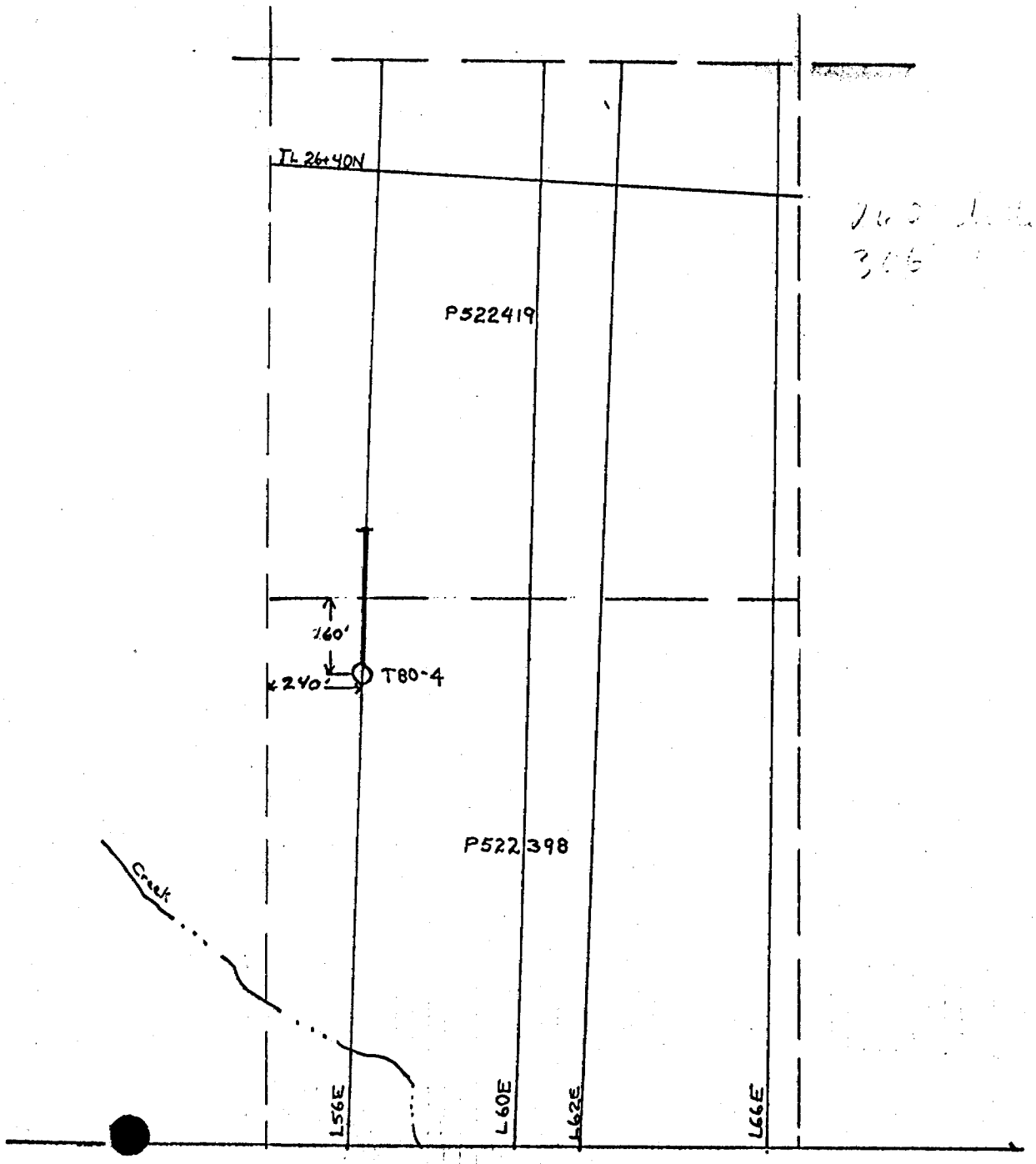
HOLE NO. T80-4 | PAGE NO. 2 of 3

FOOTAGE FROM	FOOTAGE TO	ROCK TYPE	DESCRIPTION Colour, grain size, texture, minerals, alteration, etc.	PLANAR FEATURE ANGLE °	CORE SPECIMEN FOOTAGE +	YOUR SAMPLE NUMBER	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE LENGTH	ASSAYS +
174	566		... continued 337 - 342: c.g. 342 f.g., chilled margin-like 342 - 358: relatively c.g., cummulate-like 381 spinifex? 358 - 424: medium to coarse-grained peridotite. Texturally variable over interval 424 - 435: f.g., grain boundaries not obvious 437 - 455: c.g. 455 - 457: f.g., brecciated, flow contact? 457 - 478: m.g., dark and compact 478 - 489: f.g., locally brecciated 489 - 503: m.g. 503 - 521: c.g., dark, serpentinized 522 spinifex 522 - 546: f.g., dark, serpentinized 546 - 554: brecciated, well developed spinifex texture 554 - 566: dark; massive, f.g. Vein alterations dominantly talc - carbonate (generally calcite) - serpentine (asbestiform); Veins vary from 1 - 10 cm, but are generally less than 5 cm wide and lie at angles of 10-80° to core axis, most being near 30°. Pyrite is rare and occurs as follows: 207 - 208: 0.1% v.f.g. py, disseminated in serpentinized area 326 calcite vein, 1 cm wide containing f.g. py aggregates							

DIAMOND DRILLING LOG

FILL IN ON EVERY PAGE ▷ HOLE NO. | PAGE NO 3 of

FOOTAGE FROM	FOOTAGE TO	ROCK TYPE	DESCRIPTION Colour, grain size, texture, minerals, alteration, etc.	PLANAR FEATURE ANGLE °	CORE SPECIMEN FOOTAGE +	YOUR SAMPLE NUMBER	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE LENGTH	ASSAYS +
174	566		... continued							
			424 - 425: Talc-calcite filled vein zone containing 2.5% py	50-55°						
			501 core is locally fuchitic adjacent greasy talc-calcite veinlets							
			END OF HOLE							
			Core stored at Rosario warehouse in Timmins							

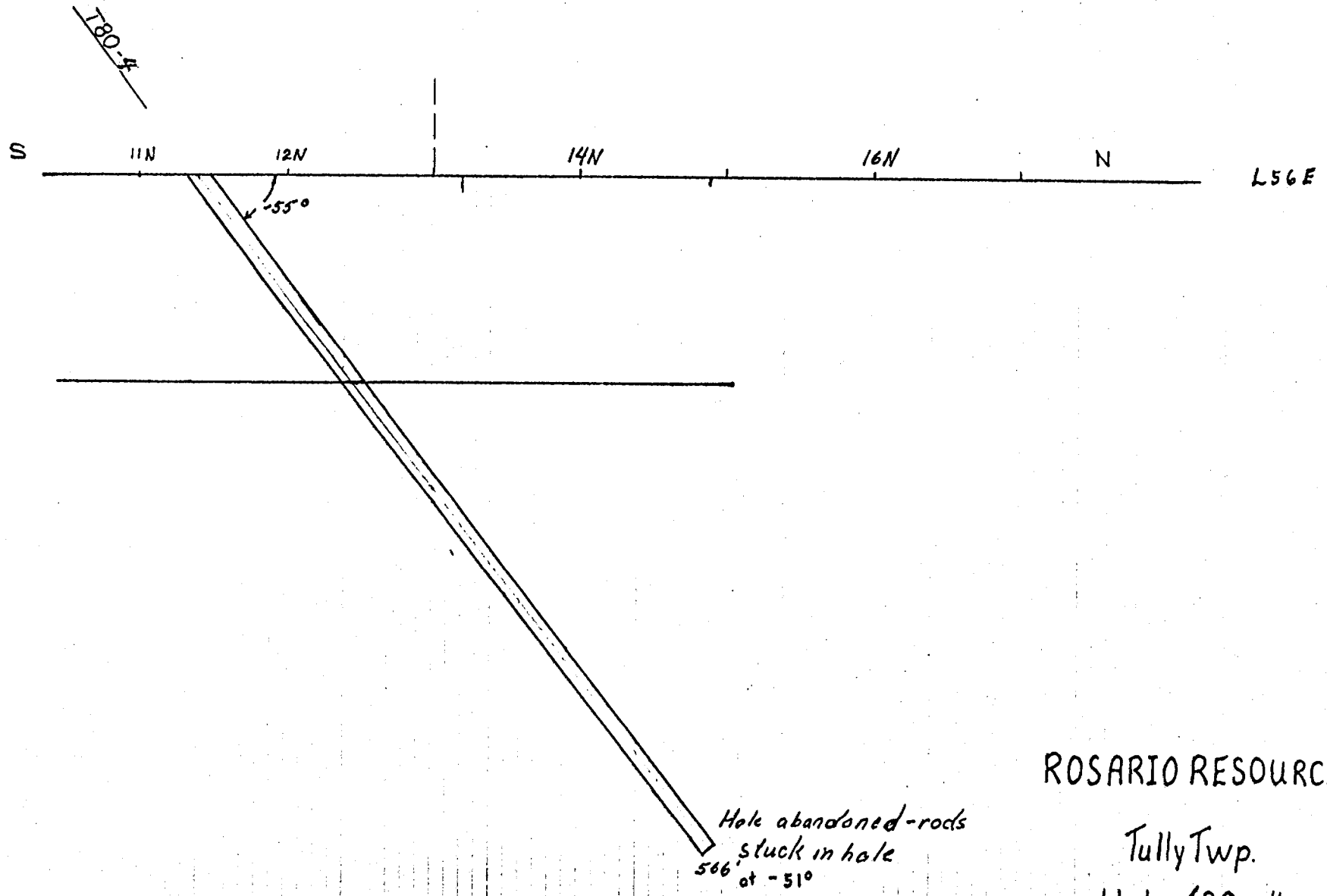


ROSARIO RESOURCES CANADA LTD.

Tully Twp.

Hole T80-4

1"-400'



ROSARIO RESOURCES CANADA LTD.

Tully Twp.

Hole 180-4

1" - 100'

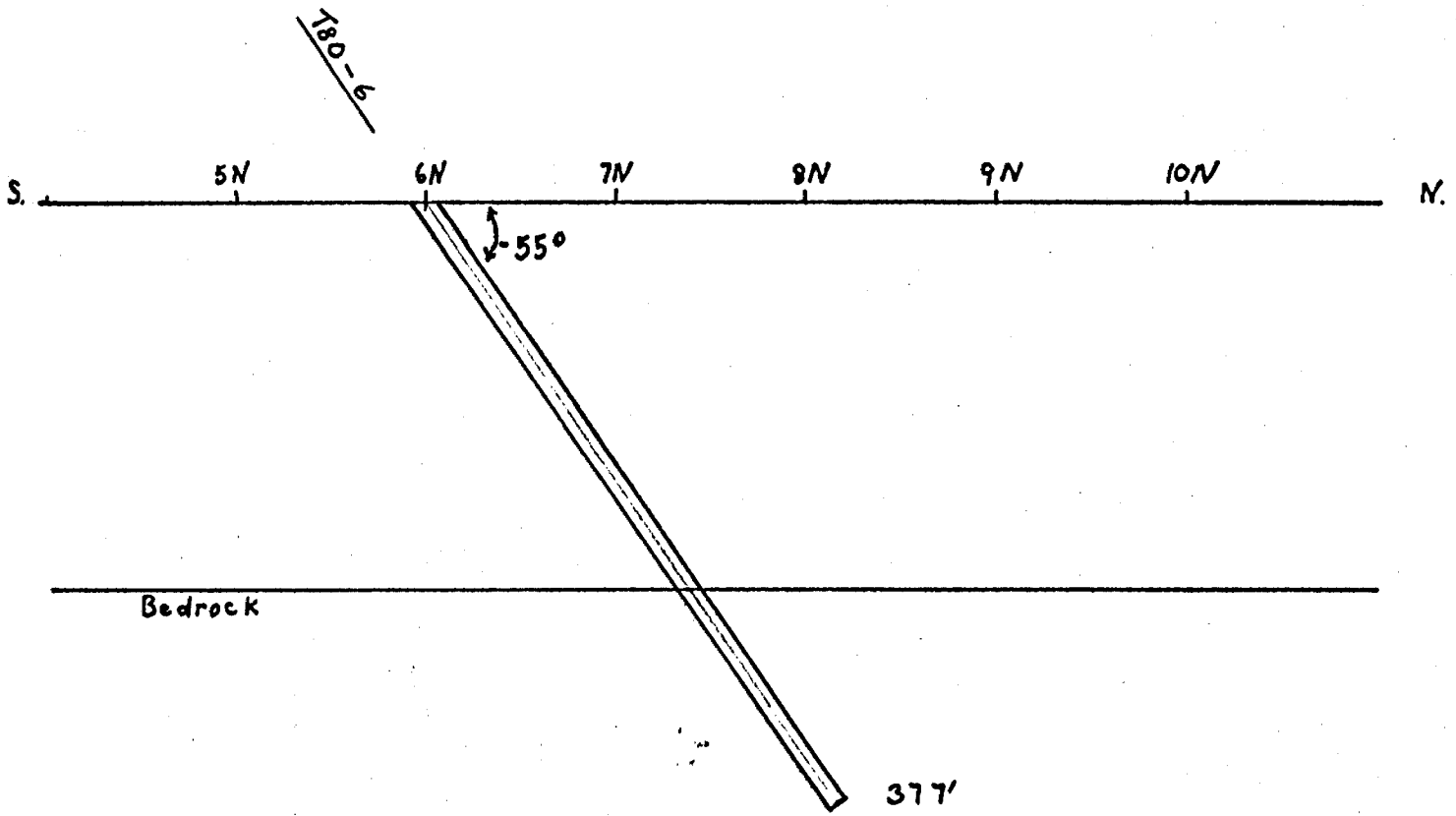
DIAMOND DRILLING LOG

Start a new page for every new hole, but fill in top portion of form only on first page for each hole.

FILL IN ON EVERY PAGE → HOLE NO. T80-6 | PAGE NO. 1 of

DRILLING COMPANY: Moderne Drilling Ltd.	COLLAR ELEVATION:	BEARING OF HOLE FROM TRUE NORTH: 000°	TOTAL FOOTAGE: 376'	DIP OF HOLE AT: collar -55	LOCATION OF HOLE IN RELATION TO A FIXED POINT ON THE CLAIM: L24+00W 6+00N
DATE HOLE STARTED: 5 July 1980 / DATE COMPLETED: 7 July 1980	DATE LOGGED: 30 Sept.1980	LOGGED BY: Bruce Durham		ft -50	MAP REFERENCE NO:
EXPLORATION CO., OWNER OR OPTIONEE: Rosario Resources Canada Ltd.	DATE SUBMITTED: 25 Sept 81	SUBMITTED BY (Signature): Ruth Ulm.		ft / ft / ft	CLAIM NO.: P522 404
					LOCATION (Tp., Lot, Con. OR Lot. and Long.): SW¼, S½, Lot 7, Con I, Tully Twp
					PROPERTY NAME: Tully Twp

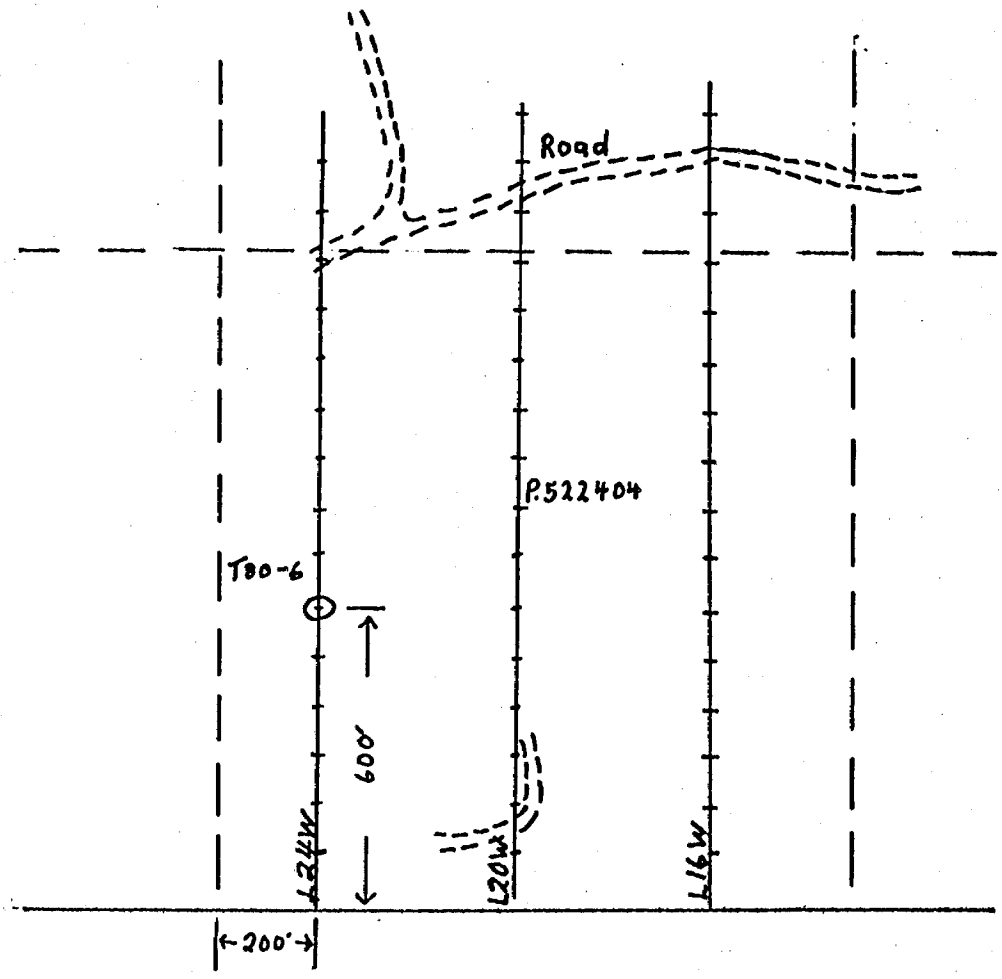
FOOTAGE FROM	FOOTAGE TO	ROCK TYPE	DESCRIPTION Colour, grain size, texture, minerals, alteration, etc.	PLANAR FEATURE ANGLE °	CORE SPECIMEN FOOTAGE °	YOUR SAMPLE NUMBER	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE LENGTH	ASSAYS °
0	246	CASING								
246	266	TALC-CHLORITE SCHIST	Badly broken-friable very schistose core angles are variable 20-40° to CA			19501 19502	246 251	251 256		
266	272	VERY TALCOSE ULTRAMAFIC (PERIDOTITE)	Blue-grey badly broken talcose rock. A vew carbonate veins .5"			19503	266	271		
272	336	TALC-CHLORITE SCHIST	Badly broken schistose friable talcose brecciated unit. In many places the core can be crumbled by hand. 301-305' lost core High variablility in core angles and brecciated nature of rock seem to indicate a fault zone. 308-309' carbonate veins 40% 326' 1" carbonate vein 328' 2" carbonate vein sub parallel to CA			19504	326	331		
336	376	TALCOSE ULTRAMAFIC (PERIDOTITE)	Rock gradually becomes less sheared and brecciated. Chlorite content decreases. The talc becomes pale green but remains pervasive. Sand in the hole. No core. Unable to continue the hole. END OF HOLE (ABANDONED) Core stored at Timmins			19505	361	366		



ROSARIO RESOURCES CANADA LTD.

Tully Twp.

T-80-6
L24W
1" - 100'



ROSARIO RESOURCES CANADA LTD.

T80-6

1" - 400'

Tully Twp.

THE MINING ACT – MINISTRY OF NATURAL RESOURCES

DIAMOND DRILLING LOG

Start a new page for every new hole, but fill in top portion of form only on first page for each hole.

FILL IN ON EVERY PAGE ▶ HOLE NO. T 80-8 | PAGE NO. 1

DRILLING COMPANY: NOREX DRILLING LTD.	COLLAR ELEVATION: 0	BEARING OF HOLE FROM TRUE NORTH: 0	TOTAL FOOTAGE: 475	DIP OF HOLE AT: collar -50; 200 ft -48; 475 ft -44	LOCATION OF HOLE IN RELATION TO A FIXED POINT ON THE CLAIM: L 52 + 00E, 31 + 00N	MAP REFERENCE NO.	CLAIM NO.: P. 522431
DATE HOLE STARTED: September 9, 1980	DATE COMPLETED: September 12, 1980	DATE LOGGED: Oct 24/80	LOGGED BY: Bruce Durham			LOCATION (Tp., Lot, Con. OR Lot. and Long.): SE¼, N½, Lot 5, Con. I, Tully Twp.	
EXPLORATION CO., OWNER OR OPTIONEE: ROSARIO RESOURCES CANADA LTD.	DATE SUBMITTED: 25 Sept 1981	SUBMITTED BY (Signature): Bruce Durham				PROPERTY NAME: Tully Twp.	

FOOTAGE FROM	FOOTAGE TO	ROCK TYPE	DESCRIPTION Colour, grain size, texture, minerals, alteration, etc.	PLANAR FEATURE ANGLE °	CORE SPECIMEN FOOTAGE ↓	YOUR SAMPLE NUMBER	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE LENGTH	ASSAYS ↓ Au ppb
0	112	Casing								
112	178.2	Gabbro	Massive to weakly fractured medium to coarse grained feldspathic gabbro (closely packed feldspars account for 50 - 70% of the rock). The fractures are hairline to 1 to 2" and are chlorite filled. Minor leucoxene & calcite are developed throughout. 176.5 - 178.2 chilled margin.							
178.2	195	Bleached basaltic fragmental	0.2" to 3" andesite fragments set in a generally dark chloritic matrix. The fragments are generally sub-angular. The core is quite broken and no core was recovered from 190 - 193'							
			187 - 189 15% py (in ground mass)			13801	187	189	2	27
			193 - 195 5 - 7% py (in ground mass)			13802	193	195	2	25
195	327	Tholeiitic basalt	Weakly fractured to massive rarely vessicular fine grained pale green lava with some narrow fragmental sections. These fragmental sections generally contain 5 - 10% py + po. The ground mass is generally calcite rich and is dark grey (due to argillaceous material). 211 - 213.5 fragmental 221 1" fragmental zone calcite rich 5% py + po. 237.1 1" dark fragmental + 10% po (magnetic) 239.7 - 240.4 dark fragmental + 10% po + py. 251 - 276 occasional weak brecciation with argillaceous infillings. From 280' 1 - 3% fine leucoxene. 314 - 327 rock very gradually becomes grey in colour. 322 - 327 slightly brecciated with argillaceous in fillings							
327		Grey andesite fragmental	Predominantly fragmental (fragment supported) rock. The fragments are generally sub-angular and in many case appear to be 10" or more in diameter. The matrix is argillaceous. There is 2 - 4% py associated with some of the matrix material.			13803	345	350	5	21

THE MINING ACT – MINISTRY OF NATURAL RESOURCES

DIAMOND DRILLING LOG

Start a new page for every new hole, but fill in top portion of form only on first page for each hole.

FILL IN ON EVERY PAGE | HOLE NO. T 80-8 | PAGE NO. 2

DRILLING COMPANY	COLLAR ELEVATION	BEARING OF HOLE FROM TRUE NORTH	TOTAL FOOTAGE	DIP OF HOLE AT	LOCATION OF HOLE IN RELATION TO A FIXED POINT ON THE CLAIM	MAP REFERENCE NO.	CLAIM NO.
				collar °			
DATE HOLE STARTED / DATE COMPLETED	DATE LOGGED	LOGGED BY		ft °		LOCATION (Tp., Lot, Con. OR Lat. and Long.)	
EXPLORATION CO., OWNER OR OPTIONEE	DATE SUBMITTED	SUBMITTED BY (Signature)		ft °			
				ft °		PROPERTY NAME	
				ft °			

FOOTAGE FROM	FOOTAGE TO	ROCK TYPE	DESCRIPTION Colour, grain size, texture, minerals, alteration, etc.	PLANAR FEATURE ANGLE °	CORE SPECIMEN FOOTAGE +	YOUR SAMPLE NUMBER	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE LENGTH	ASSAYS + Au ppb
350	367	Graphitic tuff & argillite	Tuffaceous, becoming graphitic & argillaceous by 354			13804	350	353	3	33
			350 - 354 3 - 5% py. Minor qtz.			13805	353	356	3	19
			354.1 0.5" granitic stringer			13806	356	359	3	51
			375 2" brecciated qtz vein & inclusions of argillite			13807	359	362	3	92
			bedding	50-60						
			365 - 367 75% qtz carb vein & py & argillite inclusions			13808	362	365	3	73
						13809	365	367	2	81
367	382.5	Grey carbonated volcanic	Fine grained massive pyritic (2 - 5%) volcanic. Moderately carbonated. The carbonate is ankerite. This unit is cut by			13810	367	369.5	2.5	21
			frequent hairline qtz & qtz ankerite stringers as well as larger			13811	369.5	372	2.5	81
			veins as noted. Py occurs as fine evenly disseminated grains as			13812	372	376	4	22
			well as clots in and near veins.			13813	376	378.5	2.5	23
			⅓" to 1" qtz ankerite vein at 369.5 at 30° to CA			13814	378.5	381	2.5	27
			½" brecciated qtz vein & minor fuchite + 30% py on lower contact			13815	381	383	2	18
			Contact at 374.7							
			½" qtz ankerite vein + 10% py on lower wall at 374.9.							
			Possible pillow rim at 377.5							
			378.9 - 379.3 qtz ankerite vein + 20% py.							
382.5	393	Ultramafic tuff	Schistose dark grey to nearly black somewhat talcose tuff - only							
			a few definite fragments discernible.							
			390.5 1" chloritic band							
393	475	Ultramafic flows (spinifex textured)	Very dark grey to nearly black, moderately talcose sequence of							
			rather thin flows. Relict spinifex is present but not well							
			preserved. The rock becomes more massive & presumably the flows							
			are thicker from 440 to 475'.							
			Spinfex at 393.5, 397 (possibly in a fragment) 405 - 407, 411,			13816	442	446	4	720
			414 - 416.5, 421, 425, 435.5 - 437			13817	446	449	3	480
			442 - 456 minor py + a few narrow talc carbonate veins (very			13828	454	456	2	640
			weak positive Ni test in places).							

THE MINING ACT – MINISTRY OF NATURAL RESOURCES

DIAMOND DRILLING LOG

Start a new page for every new hole, but fill in top portion of form only on first page for each hole.

FILL IN ON EVERY PAGE ▶ HOLE NO. T 80-8 | PAGE NO. 3

DRILLING COMPANY		COLLAR ELEVATION	BEARING OF HOLE FROM TRUE NORTH	TOTAL FOOTAGE	DIP OF HOLE AT collar °	LOCATION OF HOLE IN RELATION TO A FIXED POINT ON THE CLAIM	MAP REFERENCE NO. / CLAIM NO.
DATE HOLE STARTED	DATE COMPLETED	DATE LOGGED	LOGGED BY		ft °		LOCATION (Tp., Lot, Con. OR Lat. and Long.)
EXPLORATION CO., OWNER OR OPTIONEE		DATE SUBMITTED	SUBMITTED BY (Signature)		ft °		PROPERTY NAME
					ft °		
					ft °		

FOOTAGE FROM	FOOTAGE TO	ROCK TYPE	DESCRIPTION Colour, grain size, texture, minerals, alteration, etc.	PLANAR FEATURE ANGLE °	CORE SPECIMEN FOOTAGE +	YOUR SAMPLE NUMBER	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE LENGTH	ASSAYS + Au oz.
			Sludge Samples			13501	110	120	10	tr
						13502	120	130	10	tr
						13503	130	140	10	tr
						13504	140	150	10	tr
						13505	150	160	10	tr
						13506	160	170	10	tr
						13507	170	180	10	tr
						13508	180	190	10	tr
						13509	190	200	10	tr
						13510	200	210	10	tr
						31511	210	220	10	tr
						13512	220	230	10	tr
						13513	230	240	10	tr
						13514	240	250	10	tr
						13515	250	260	10	tr
						13516	260	270	10	tr
						13517	270	280	10	tr

THE MINING ACT – MINISTRY OF NATURAL RESOURCES

DIAMOND DRILLING LOG

Start a new page for every new hole, but fill in top portion of form only on first page for each hole.

FILL IN ON EVERY PAGE ▶ HOLE NO. T 80-8 | PAGE NO. 4

DRILLING COMPANY	COLLAR ELEVATION	BEARING OF HOLE FROM TRUE NORTH	TOTAL FOOTAGE	DIP OF HOLE AT	LOCATION OF HOLE IN RELATION TO A FIXED POINT ON THE CLAIM	MAP REFERENCE NO.	CLAIM NO.
				collar			
DATE HOLE STARTED / DATE COMPLETED	DATE LOGGED	LOGGED BY		ft		LOCATION (Tp., Lot, Con. OR Lat. and Long.)	
EXPLORATION CO., OWNER OR OPTIONEE	DATE SUBMITTED	SUBMITTED BY (Signature)		ft		PROPERTY NAME	
				ft			
				ft			

FOOTAGE FROM	FOOTAGE TO	ROCK TYPE	DESCRIPTION Colour, grain size, texture, minerals, alteration, etc.	PLANAR FEATURE ANGLE *	CORE SPECIMEN FOOTAGE +	YOUR SAMPLE NUMBER	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE LENGTH	ASSAYS + Au oz.		
			Sludge Samples			13518	280	290	10	tr		
						13519	290	300	10	tr		
						13520	300	310	10	tr		
						13521	310	320	10	tr		
						13522	320	330	10	tr		
						13523	330	340	10	tr		
						13524	340	350	10	tr		
						13525	350	360	10	tr		
			* Estimated			13526	360	370	10	0.002*		
						13527	370	380	10	tr		
						13528	380	390	10	tr		
						13529	390	400	10	tr		
						13530	400	410	10	tr		
						13531	410	420	10	tr		
						13532	420	430	10	tr		
						13533	430	440	10	tr		
						13534	440	450	10	tr		

* For [illegible] measured from the long axis of the core.

+ Additional [illegible] See Assessment [illegible]

THE MINING ACT – MINISTRY OF NATURAL RESOURCES

DIAMOND DRILLING LOG

Start a new page for every new hole, but fill in top portion of form only on first page for each hole.

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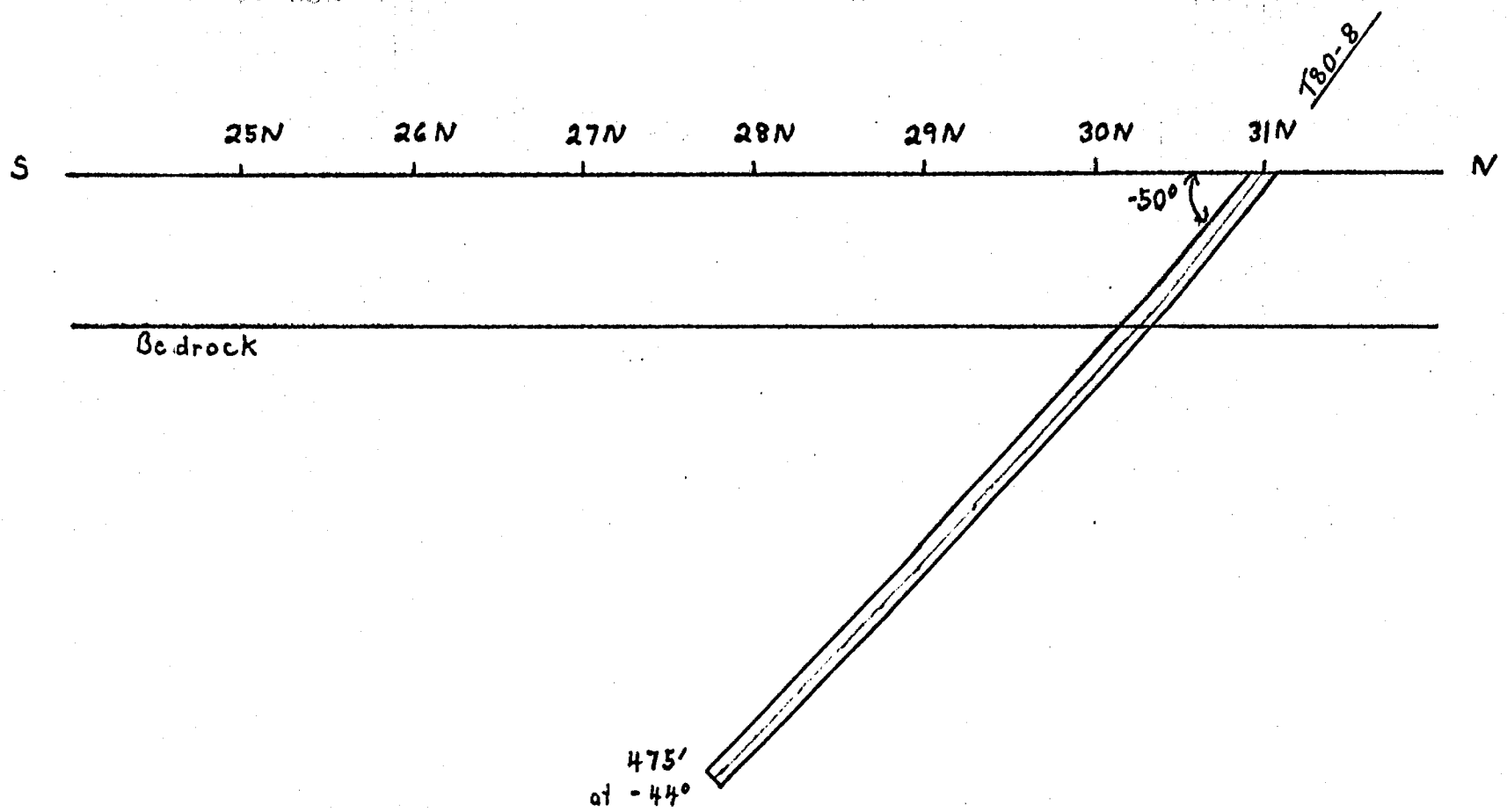
HOLE NO.	PAGE NO.
T 80-8	5

DRILLING COMPANY	COLLAR ELEVATION	BEARING OF HOLE FROM TRUE NORTH	TOTAL FOOTAGE	DIP OF HOLE AT	LOCATION OF HOLE IN RELATION TO A FIXED POINT ON THE CLAIM	MAP REFERENCE NO.	CLAIM NO.
				collar			

DATE HOLE STARTED	DATE COMPLETED	DATE LOGGED	LOGGED BY	ft	LOCATION (Tp., Lot, Con. OR Lat. and Long.)

EXPLORATION CO., OWNER OR OPTIONEE	DATE SUBMITTED	SUBMITTED BY (Signature)	ft	PROPERTY NAME

FOOTAGE FROM	FOOTAGE TO	ROCK TYPE	DESCRIPTION Colour, grain size, texture, minerals, alteration, etc.	PLANAR FEATURE ANGLE *	CORE SPECIMEN FOOTAGE †	YOUR SAMPLE NUMBER	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE LENGTH	ASSAYS * Au oz.		
			Sludge Samples			13535	450	460	10	tr		
						13536	460	470	10	tr		



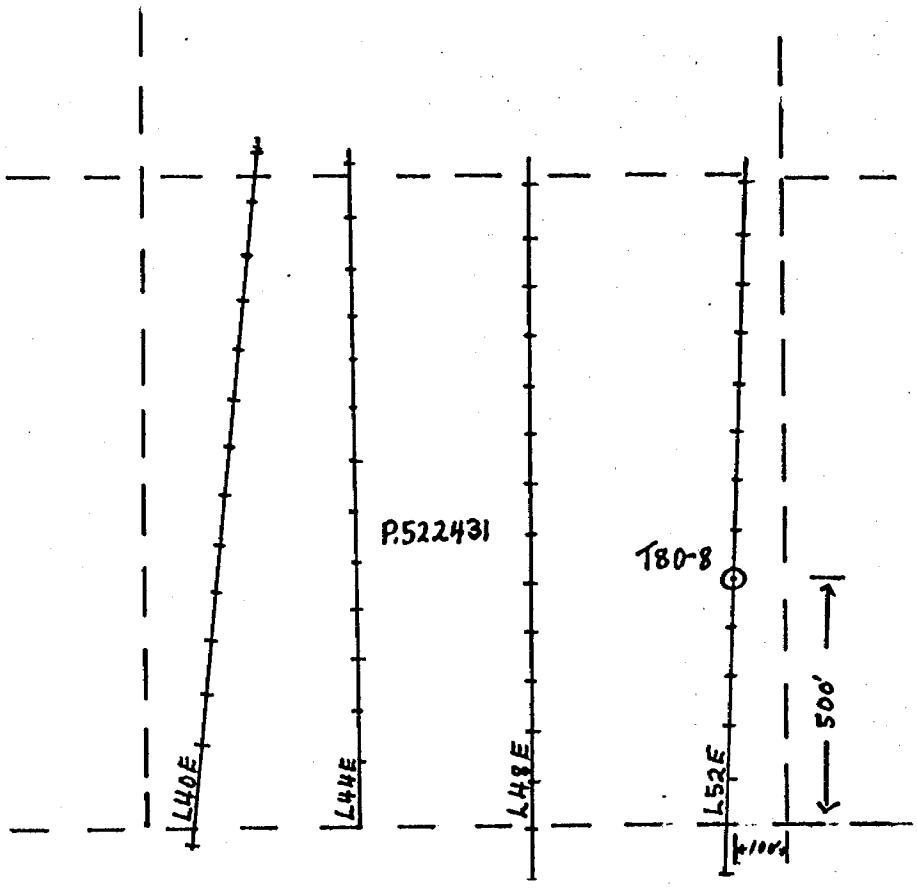
ROSARIO RESOURCES CANADA LTD.

Tully Twp.

T80-8

L52E

1"-100'



ROSARIO RESOURCES CANADA LTD.

T80-8

1"-400'

Tully Twp.

DIAMOND DRILLING LOG

Start a new page for every new hole, but fill in top portion of form only on first page for each hole.

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HOLE NO. T80-9 | PAGE NO. 1 of 4

DRILLING COMPANY: Norex Drilling Ltd.	COLLAR ELEVATION:	BEARING OF HOLE FROM TRUE NORTH: 180°	TOTAL FOOTAGE: 517	DIP OF HOLE AT: collar 50°	LOCATION OF HOLE IN RELATION TO A FIXED POINT ON THE CLAIM: L36E, 41N
DATE HOLE STARTED: 14 Sept. 1980 / DATE COMPLETED: 18 Sept. 1980	DATE LOGGED: 16/17 June 1981	LOGGED BY: Patrick Chance		200 ft 50°	MAP REFERENCE NO.:
EXPLORATION CO., OWNER OR OPTIONEE: Rosario Resources Canada Ltd.	DATE SUBMITTED: 25 Sept 81	SUBMITTED BY (Signature): Patrick Chance		500 ft 46°	CLAIM NO.: P522 437
				ft	LOCATION (Tp., Lot, Con. OR Lot. and Long.): Tully Twp, Lot 5, Con. I, N½, NW¼
				ft	PROPERTY NAME: Tully

FOOTAGE FROM	FOOTAGE TO	ROCK TYPE	DESCRIPTION Colour, grain size, texture, minerals, alteration, etc.	PLANAR FEATURE ANGLE °	CORE SPECIMEN FOOTAGE +	YOUR SAMPLE NUMBER	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE LENGTH	ASSAYS + Au ppb	Au oz.	As pp
0	210	OVERBURDEN	Casing									
210	257	ALTERED ULTRA-MAFIC ROCK	Grey-green, speckled, talcose ultramafic rock containing abundant coarse-grained magnesian carbonate. Cut by irregular carbonate talc 'veins' at varying angles.									
			211' foliation	70°		13701	223.5	228	4			
			234-qv, ~ 10 cm wide	~15°								
			256-257-gv, ~ 3 cm wide, py absent									
257	291	ULTRAMAFIC VOLCANICLASTIC	Apparently fairly well banded, somewhat talcose ultramafic tuff containing prominent, rusty ferroan calcite occurring as spots and as selvedges on grey Mg-calcite lenses. Rock is dominantly medium grained but locally clasts are up to 5 cm ø									
			271-qvs, c.g., clean, 5 cm wide	30°								
			278									
			281 compositional banding	70°								
291	303	GRAPHITIC UM TUFF	Medium to fine-grained, banded darker bluish-grey, graphitic tuff, containing irregular pyrite aggregates (1-3 mm ø) and ferroan calcite.			19515	295	303				
			Banding	60°								

DIAMOND DRILLING LOG

FILL IN ON EVERY PAGE | HOLE NO. T80-9 | PAGE NO. 2 of

FOOTAGE FROM	FOOTAGE TO	ROCK TYPE	DESCRIPTION Colour, grain size, texture, minerals, alteration, etc.	PLANAR FEATURE ANGLE °	CORE SPECIMEN FOOTAGE +	YOUR SAMPLE NUMBER	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE LENGTH	ASSAYS + Au ppb	Au oz	As p
303	350	ULTRAMAFIC TUFF	Grey, relatively hard and unaltered-looking banded ultramafic lapilli to agglomerate size volcaniclastic. In part bedded (5-10')									
			303-316-slightly darker grey, graphitic			13702	305	315		8		
			310-qz veins, 1-3 cm wide. Wall-rock contains minor calcite adjacent to qvs	60°		13703	315	320		18		30
						13704	320	325		293		15
			318-320-5% py, banded			13705	325	330		340		40
			318-326-1 to 2% py, banded and disseminated			13706	330	325		86		45
			326-328-qv			13707	325	340		85		35
			331-332-qz-py vein			13708	340	345		104		40
			332-336-qvs			13709	345	350		60		20
			342-347-qz + ferroan calcite veins									
			348-350-3-10% py in dark grey graphitic section									
350	428	ULTRAMAFIC VOLCANICLASTIC?	Medium-gray, rather uniform, medium to fine grained ultramafic rock. Possibly a tuff. Is brecciated in part, and is blocky. Breccia matrix is dark greenish-grey and fine grained. Cut by numerous qtz-py-calcite veins, with both diffuse (earlier) and sharp (later) boundaries. Contains about 1-2% py overall, both as v.fine disseminated grains and as thin coatings on fracture surfaces			13710	350	355		134		20
						13711	355	360		91		20
						13712	360	365		512		17
						13713	365	370		324		10
						13714	370	372.5		1426	0.045	22
						13715	372.5	375		25		10
						13716	375	380		318		15
						13717	380	385		106		15
						13718	385	390		30		20
						13719	390	395		123		
			360-375-Six, 2-10 cm wide, c.g. qz veins. Occasionally contain py and greasy green chlorite	30°		13720	395	400		1		
						13721	400	405		36		
			390-qz-py vein, 1 to 3 cm wide									
			415-416-tuff with graphitic argillite matrix			13722	425	430		11		

DIAMOND DRILLING LOG

FILL IN ON EVERY PAGE

HOLE NO. T80-9 | PAGE NO. 3 of 4

FOOTAGE FROM	FOOTAGE TO	ROCK TYPE	DESCRIPTION Colour, grain size, texture, minerals, alteration, etc.	PLANAR FEATURE ANGLE °	CORE SPECIMEN FOOTAGE +	YOUR SAMPLE NUMBER	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE LENGTH	ASSAYS + Au ppb
428	517	ULTRAMAFIC TUFF?	Dark grey, fine grained, ultramafic rock. Numerous sub-parallel quartz-dolomite-rich bands/lenses give rock a banded (1-2 cm scale) appearance. Margins of bands are diffuse. Banding becomes less prominent down hole, and rock becomes dark grey and compact. In lower sections dolomite too is locally banded and appears to fill voids. (egat 496', 502', 516').	50°		13724	452.5	455		25
						13725	455	458		122
						13726	466	468		5
						13727	485	488		4
						13728	498	501		1
						13729	501	508		1
			441-443-possible spinifex textured section			13730	508	513		3
			440-485 } qvs, 1 cm wide with specks of fuchite in the matrix	35°		13731	513	517		3
			Core stored at Rosario warehouse in Timmins							

DIAMOND DRILLING LOG

Start a new page for every new hole, but fill in top portion of form only on first page for each hole.

FILL IN ON EVERY PAGE

HOLE NO. T80-9

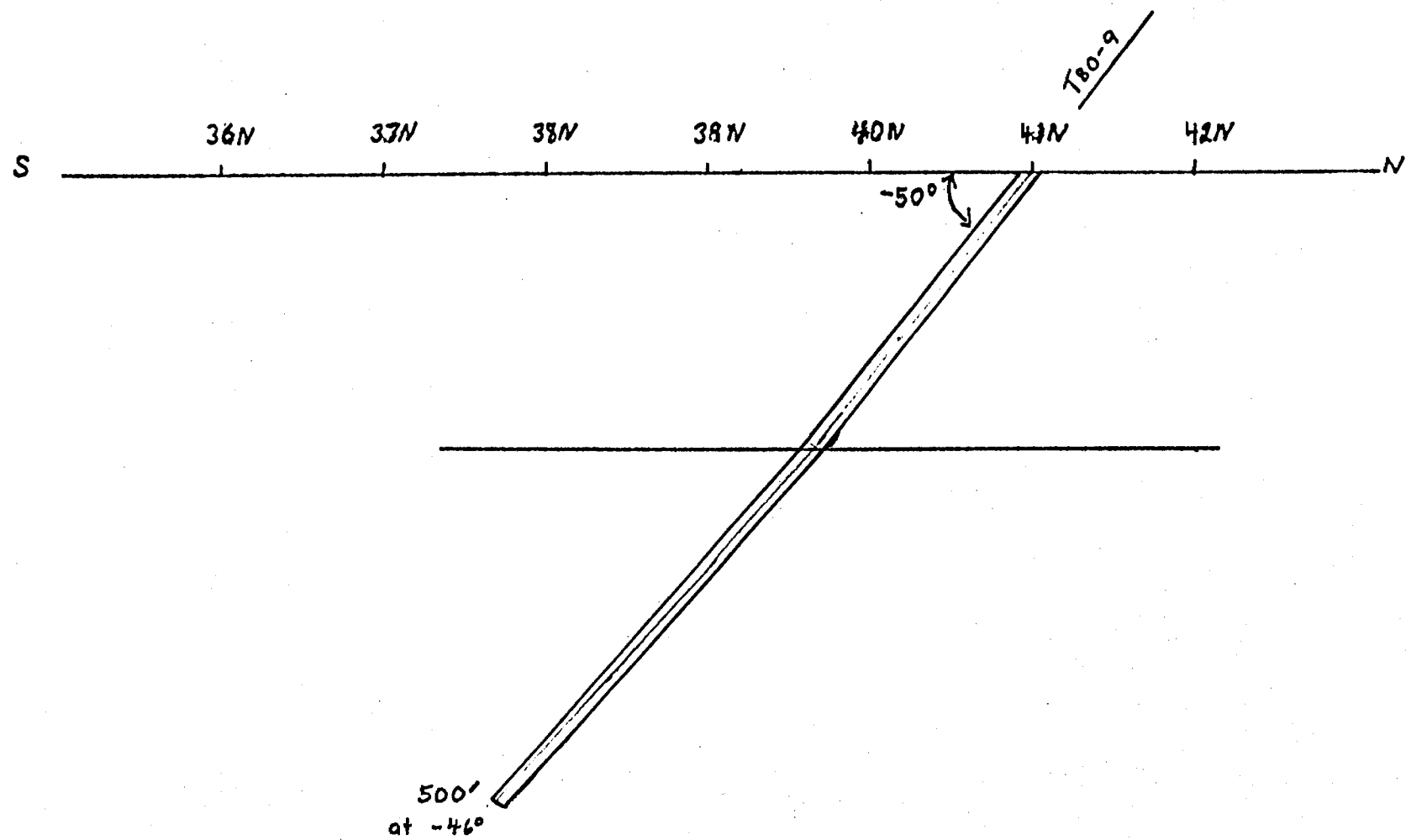
PAGE NO. 4 of

YOUR SAMPLE NUMBER	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE LENGTH	ASSAYS + Au oz.			
13537	210	220	10	Tr			
13538	220	230	10	Tr			
13539	230	240	10	Tr			
13540	240	250	10	Tr			
13541	250	260	10	Tr			
13542	260	270	10	Tr			
13543	270	280	10	Tr			
13544	280	290	10	Tr			
13545	290	300	10	Tr			
13546	300	310	10	Tr			
13547	310	320	10	Tr			
13548	320	330	10	Tr			
13549	330	340	10	Tr			
13550	340	350	10	0.002			
13551	350	360	10	Tr			
13552	360	370	10	0.005			
13553	370	380	10	0.035			
13554	380	390	10	0.005			
13555	390	400	10	0.005			
13556	400	410	10	0.005			
13557	410	420	10	0.005			
13558	420	430	10	Tr			
13559	430	440	10	Tr			
13560	440	450	10	Tr			
13561	450	460	10	Tr			
13562	460	470	10	0.002			

END OF HOLE

SLUDGE SAMPLES

YOUR SAMPLE NUMBER	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE LENGTH	ASSAYS +		



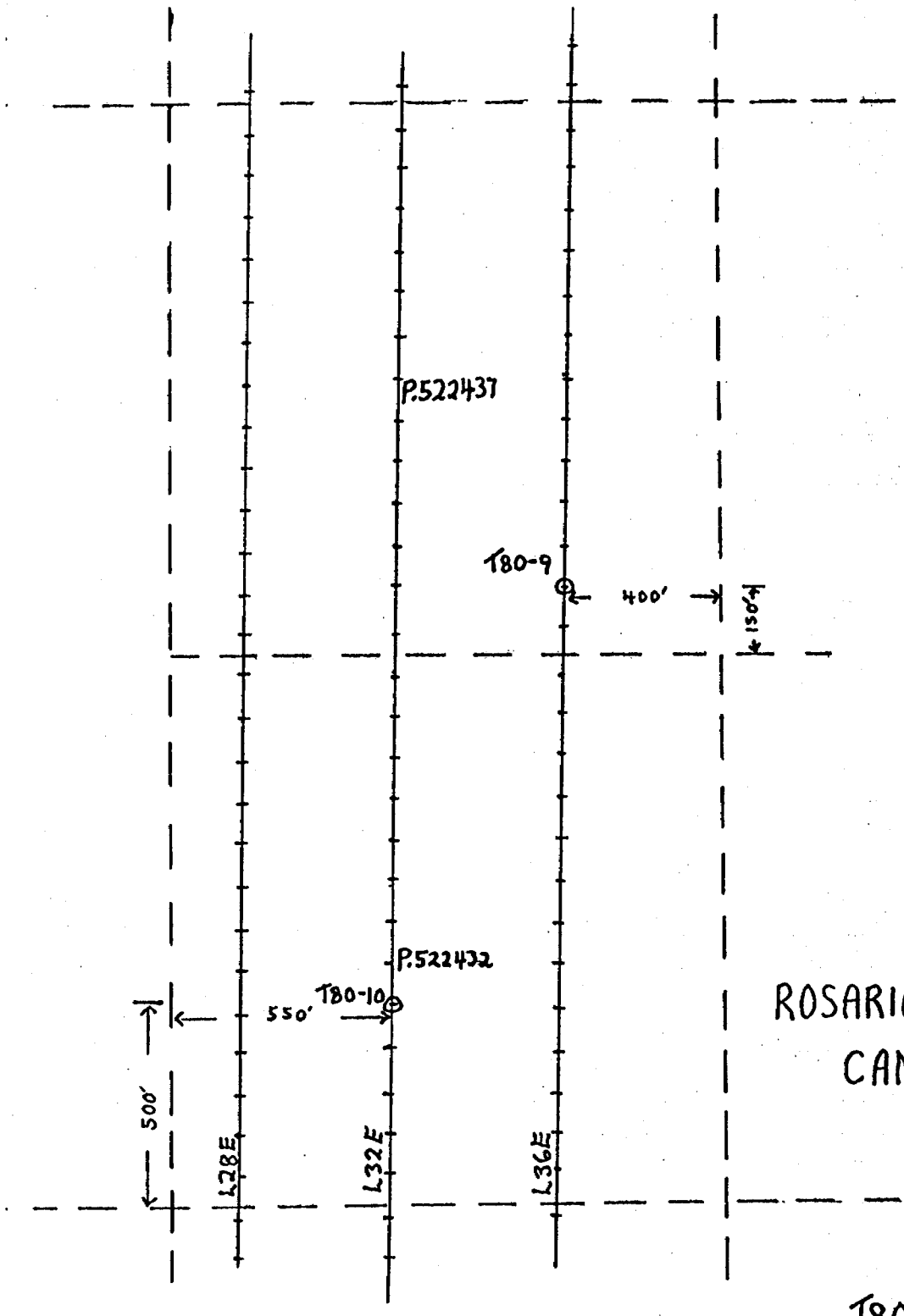
ROSARIO RESOURCES CANADA LTD.

Tully Twp.

T80-9

L36E

1"-100'



ROSARIO RESOURCES
CANADA LTD.

T80 - 9, 10
1" - 400'
Tully Twp.

DIAMOND DRILLING LOG

Start a new page for every new hole, but fill in top portion of form only on first page for each hole.

FILL IN ON EVERY PAGE ▶ HOLE NO. T 80-10 | PAGE NO. 1of5

DRILLING COMPANY: NOREX DRILLING LTD.	COLLAR ELEVATION	BEARING OF HOLE FROM TRUE NORTH: 180	TOTAL FOOTAGE: 494	DIP OF HOLE AT: collar -60°	LOCATION OF HOLE IN RELATION TO A FIXED POINT ON THE CLAIM: L 32 + 00E, 31 + 00N	MAP REFERENCE NO. / CLAIM NO.: P. 522432
DATE HOLE STARTED: September 21, 1980 / DATE COMPLETED: September 24, 1980	DATE LOGGED: Oct. 20/80	LOGGED BY: Bruce Durham		200 ft -59° / 475 ft -59°		LOCATION (Tp., Lot, Con. OR Lat. and Long.): SW¼, N½, Lot 5, Con. I, Tully Twp.
EXPLORATION CO., OWNER OR OPTIONEE: ROSARIO RESOURCES CANADA LTD.	DATE SUBMITTED: 25 September	SUBMITTED BY (Signature): [signature]				PROPERTY NAME: Tully

FOOTAGE FROM	FOOTAGE TO	ROCK TYPE	DESCRIPTION Colour, grain size, texture, minerals, alteration, etc.	PLANAR FEATURE ANGLE °	CORE SPECIMEN FOOTAGE +	YOUR SAMPLE NUMBER	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE LENGTH	ASSAYS + Au ppb
0	174?	Casing								
174	186	Talcose Ultramafic	Broken ground - core recovery 10 - 20%. Caving in the hole various pebbles to cobbles in tray. Qtz at 180'							
			6" grey qtz at 187' cut by later white qtz.			13732	187	188	1	22
186	228.5	Ultramafic tuff + minor argillite	Schistose almost black talcose carbonated unit cut by frequent qtz + qtz ankerite veins. Schistosity	45-60		13733	189.8	192.8	3	19
			Magnesite ankerite + talc ore present in the ground mass.			13734	194	196	2	19
			Broken qtz at 188 & 189							
			½" grey qtz vein at 189.6							
			2" grey qtz vein + chlorite at 191							
			1" grey qtz vein + minor chlorite at 191.7							
			3/4" qtz vein + broken qtz 191.8 - 192.1							
			10" grey qtz vein cut by white qtz 192.2 - 192.8							
			3/4 irregular qtz ankerite vein cuts schistosity at 193.8							
			194.5 - 195.1 70% qtz + minor talc & ankerite							
			½" qtz ankerite vein cuts CA at 40° at 199			13735	198.5	202	3.5	14
			199.5 - 200.1 fractured qtz vein							
			201 - 202 Qtz vein + 10% grey crystalline ankerite + talc along contacts & in vein.							
			Narrow talc + talc carb veins at 202.6, 203.5, 204							
			4" qtz + ankerite + talc vein at 204.5 - 204.8 at 60° to CA			13736	204	205.5	1.5	10
			202 - 216.5 some ankerite & talc throughout schist.							
			216.5 - 217.5 40% qtz + ankerite + talc.			13737	216.5	219	2.5	11
			218 - 220.5 Argillitic section + 30% qtz ankerite + 3 - 5% py			13738	219	221.5	2.5	19
			evenly disseminated in argillite + some py in veins.			13739	221.5	224	2.5	11
			221.1 - 226.2 75% qtz + coarse ankerite & minor talc in ultramafic tuff. Nil py.			13740	224	226.5	2.5	12
			227.3 qtz ankerite vein + minor py cuts one side of core.			13741	226.5	229	2.5	18
			228.0 3 - 4" qtz carb vein + minor chlorite at 65° to CA							

+ Additional credit available. See Assessment Work Regulations

DIAMOND DRILLING LOG

Start a new page for every new hole, but fill in top portion of form only on first page for each hole.

FILL IN ON EVERY PAGE

HOLE NO. T 80-10 | PAGE NO. 2of5

DRILLING COMPANY		COLLAR ELEVATION	BEARING OF HOLE FROM TRUE NORTH	TOTAL FOOTAGE	DIP OF HOLE AT	LOCATION OF HOLE IN RELATION TO A FIXED POINT ON THE CLAIM	MAP REFERENCE NO.	CLAIM NO.
					collar			
DATE HOLE STARTED	DATE COMPLETED	DATE LOGGED	LOGGED BY		ft		LOCATION (Tp., Lot, Con. OR Lat. and Long.)	
					ft			
EXPLORATION CO., OWNER OR OPTIONEE		DATE SUBMITTED	SUBMITTED BY (Signature)		ft		PROPERTY NAME	
					ft			

FOOTAGE FROM	FOOTAGE TO	ROCK TYPE	DESCRIPTION Colour, grain size, texture, minerals, alteration, etc.	PLANAR FEATURE ANGLE *	CORE SPECIMEN FOOTAGE +	YOUR SAMPLE NUMBER	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE LENGTH	ASSAYS + Au ppb
228.5	244.7	Pyritic argillite	Massive black very weakly graphitic sediment cut by frequent brecciated qtz veins + py.							
			229 - 231 20% narrow qtz stringers							
			234 - 235.2 60% qtz + minor talc at 235.2'			13742	234	235.5	1.5	14
			235.2 - 237 Ultramafic tuff			13743	237	239.5	2.5	12
			237 - 240.5 50% qtz + 3% chlorite, 1 - 2% py & minor ankerite			13744	239.5	242	2.5	21
			240.5 - 240.7 30% py							
			240.5 - 244.5 10 - 15% qtz py is rather evenly distributed throughout argillite + some py in qtz veins & stringers veins are multi-directional + often contain broken pieces of argillite.			13745	242	245	3	16
244.5	273.2	Ultramafic tuff	Similar to unit from 186 - 228.5 but less schistose and slightly more talcose (more obviously of ultramafic origin)							
			Schistosity	50° to CA						
			248 3" carbonate chlorite vein			13746	248	250.5	2.5	27
			249.7 2 - 4" carbonate chlorite vein at shallow angle to CA.							
			252.7 - 253.4 grey qtz vein + 3" of 40% talc along lower contact			13747	252.5	254.0	1.5	12
			1" qtz vein bound by 1" talc zones at 70° to CA at 254.5			13748	254	259	5	12
			1.5" qtz vein bound by ½ - 2" talc zones at 255.6			13749	259	263	4	12
			256.9 - 257.6 Qtz talc vein.							
			259 - 260 50% qtz talc veins 0.5 - 2"							
			261 - 262.3 75% qtz carb talc vein.							
			2" Qtz carb talc chlorite vein at 264'			13750	263	268	5	26
			265 - 266 talc ankerite chlorite qtz veining							
267	273.5	Contact or fault zone	Badly broken fault zone or contact zone in the ultramafic tuff.							
273.5	494	Ultramafic flows	Fairly massive weakly talcose weakly serpentinized komatiitic ultramafic flows. The rock is dark grey blue to dark green in colour. Poorly developed siniflex & polysuturing from 210 - 214							
			Minor spinifex 293 - 294'							
			Very minor spinifex at 303'							

* For features such as foliation, bedding, schistosity, measured from the long axis of the core.

+ Additional credit available. See Assessment Work Regulatio

DIAMOND DRILLING LOG

Start a new page for every new hole, but fill in top portion of form only on first page for each hole.

FILL IN ON EVERY PAGE ▶ HOLE NO. T 80-10 | PAGE NO. 3 of 5

DRILLING COMPANY	COLLAR ELEVATION	BEARING OF HOLE FROM TRUE NORTH	TOTAL FOOTAGE	DIP OF HOLE AT	LOCATION OF HOLE IN RELATION TO A FIXED POINT ON THE CLAIM	MAP REFERENCE NO.	CLAIM NO.
DATE HOLE STARTED / DATE COMPLETED	DATE LOGGED	LOGGED BY		collar / ft / ft / ft / ft		LOCATION (Tp., Lot, Con. OR Lat. and Long.)	
EXPLORATION CO., OWNER OR OPTIONEE	DATE SUBMITTED	SUBMITTED BY (Signature)				PROPERTY NAME	

FOOTAGE FROM	FOOTAGE TO	ROCK TYPE	DESCRIPTION Colour, grain size, texture, minerals, alteration, etc.	PLANAR FEATURE ANGLE *	CORE SPECIMEN FOOTAGE +	YOUR SAMPLE NUMBER	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE LENGTH	Au ppb	Cu ppm	Ni ppm
273.5	494	Continued	Well developed flow 309.5 - 327?. Tops up hole. Rubbly top									
			309.5 - 311. Spinifex (increasing in size down hole) 317 - 319									
			Massive peridotite 319 - 322. Broken core (Base of flow 322 - 327')									
			328 - 347? spinifex textured flow									
			331.5 - 337' spinifex coarse blades up to 3 - 4" near 337. Base									
			of flow difficult to distinguish.									
			365.5 polyhedral jointing in massive flow. Flow contact 390 - 392									
			rubbly chilled contact + polyhedral jointing.									
			398.1 chilled flow top with fine well preserved polyhedral jointing.									
			The polyhedral joints are well preserved to 403' and are more									
			widely spaced down the hole i.e. Tops up hole									
			422 - 431 spinifex textured flow.									
			422 - 425.3 chilled polyhedral jointed top of spinifex textured									
			flow.									
			422.9 - 424.8 calcite vein sub-parallel to CA.									
			425.3 - 427.8 spinifex textured, fine randomly oriented then									
			coarse oriented then fine, somewhat foliated.									
			431 - 441.5 somewhat rubbly looking ultramafic flow.									
			441.5 - 442 chilled polyhedral jointed top of massive flow.			13751	441	442.5	1.5	5	60	1180
			(1% sulphides)									
			453 - 480.6 spinifex textured flow Tops up hole									
			454 - 457.5 good spinifex section.									
			457.5 - 480.6 massive cumulate & knobby zone.									
			480 chilled flow top with fine polyhedral jointing + 1% py			13752	480	482	2	4	65	1225
			486 Possible flow contact.									
			END OF HOLE 494									
			Core stored at Rosario warehouse in Timmins									

* [illegible] foliation, bedding, schistosity, measured from the long axis of the core. + Additional credit available. See Assessment Work Regulations

DIAMOND DRILLING LOG

Start a new page for every new hole, but fill in top portion of form only on first page for each hole.

FILL IN ON EVERY PAGE ▶ HOLE NO. T 80-10 | PAGE NO. 4of5

DRILLING COMPANY		COLLAR ELEVATION	BEARING OF HOLE FROM TRUE NORTH	TOTAL FOOTAGE	DIP OF HOLE AT collar	LOCATION OF HOLE IN RELATION TO A FIXED POINT ON THE CLAIM	MAP REFERENCE NO. / CLAIM NO.
DATE HOLE STARTED	DATE COMPLETED	DATE LOGGED	LOGGED BY		ft °		LOCATION (Tp., Lot, Con. OR Lat. and Long.)
EXPLORATION CO., OWNER OR OPTIONEE		DATE SUBMITTED	SUBMITTED BY (Signature)		ft °		PROPERTY NAME
					ft °		
					ft °		

FOOTAGE FROM	FOOTAGE TO	ROCK TYPE	DESCRIPTION Colour, grain size, texture, minerals, alteration, etc.	PLANAR FEATURE ANGLE *	CORE SPECIMEN FOOTAGE +	YOUR SAMPLE NUMBER	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE LENGTH	ASSAYS + Au oz.		
			Sludge Samples			13563	172	180	8	tr		
						13564	180	190	10	tr		
						13565	190	200	10	0.005		
						13566	200	210	10	0.005		
						13567	210	220	10	0.002		
						13568	220	230	10	tr		
						13569	230	240	10	tr		
						13570	240	250	10	tr		
						13571	250	260	10	0.002		
						13572	260	270	10	tr		
						13573	270	280	10	tr		
						13574	280	290	10	0.002		
						13575	290	300	10	tr		
						13576	300	310	10	tr		
						13577	310	320	10	tr		
						13578	320	330	10	tr		
						13579	330	340	10	tr		

* For features such as foliation, bedding, schistosity, measured from the long axis of the core.

+ Additional credit available. See Assessment Work Regulation

DIAMOND DRILLING LOG

Start a new page for every new hole, but fill in top portion of form only on first page for each hole.

FILL IN ON EVERY PAGE ▶ HOLE NO. T 80-10 | PAGE NO. 5of5

DRILLING COMPANY		COLLAR ELEVATION	BEARING OF HOLE FROM TRUE NORTH	TOTAL FOOTAGE	DIP OF HOLE AT collar	LOCATION OF HOLE IN RELATION TO A FIXED POINT ON THE CLAIM
DATE HOLE STARTED	DATE COMPLETED	DATE LOGGED	LOGGED BY		ft	
EXPLORATION CO., OWNER OR OPTIONEE		DATE SUBMITTED	SUBMITTED BY (Signature)		ft / ft / ft	

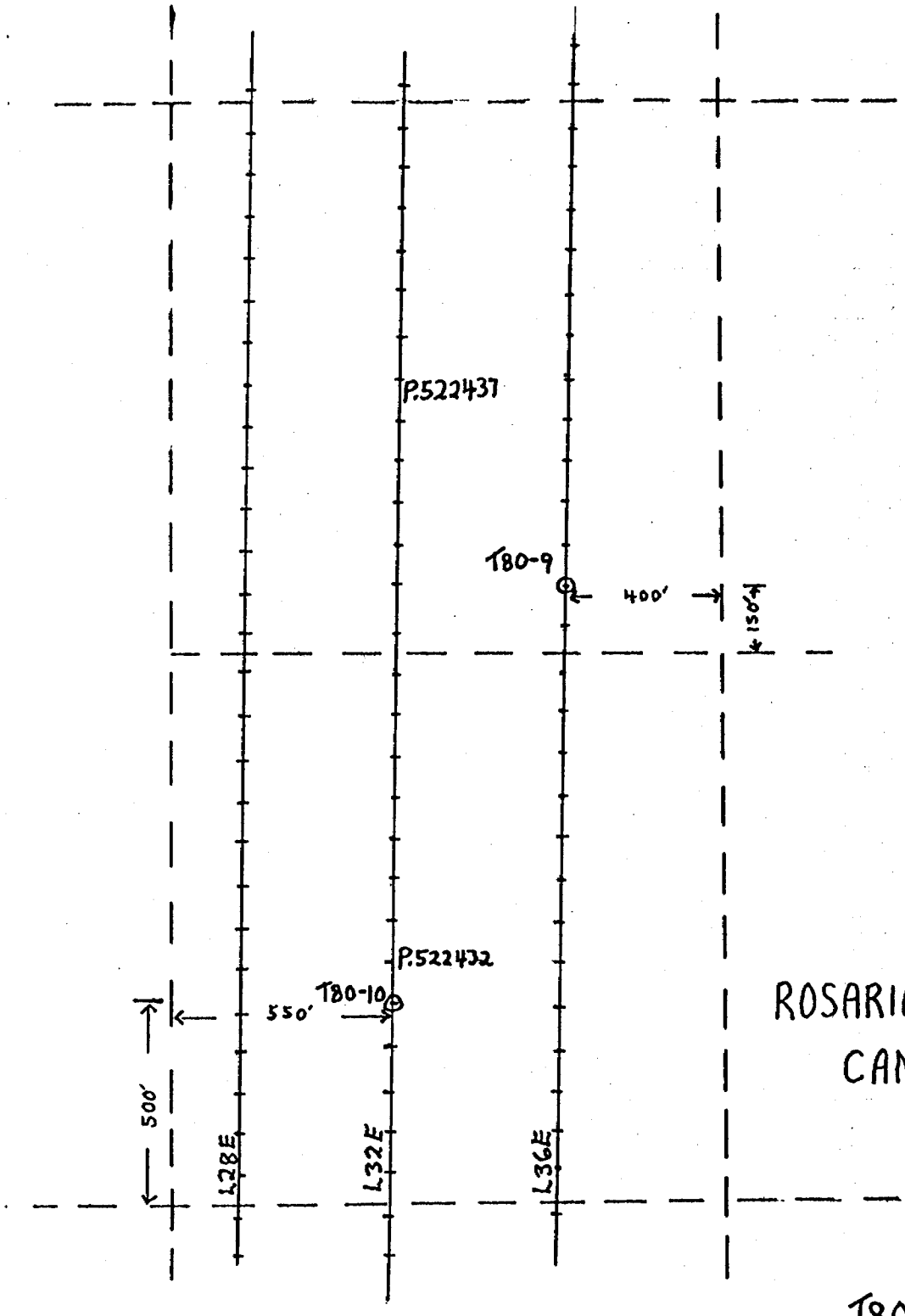
MAP REFERENCE NO. | CLAIM NO.

LOCATION (Tp., Lot, Con. OR Lot. and Long.)

PROPERTY NAME

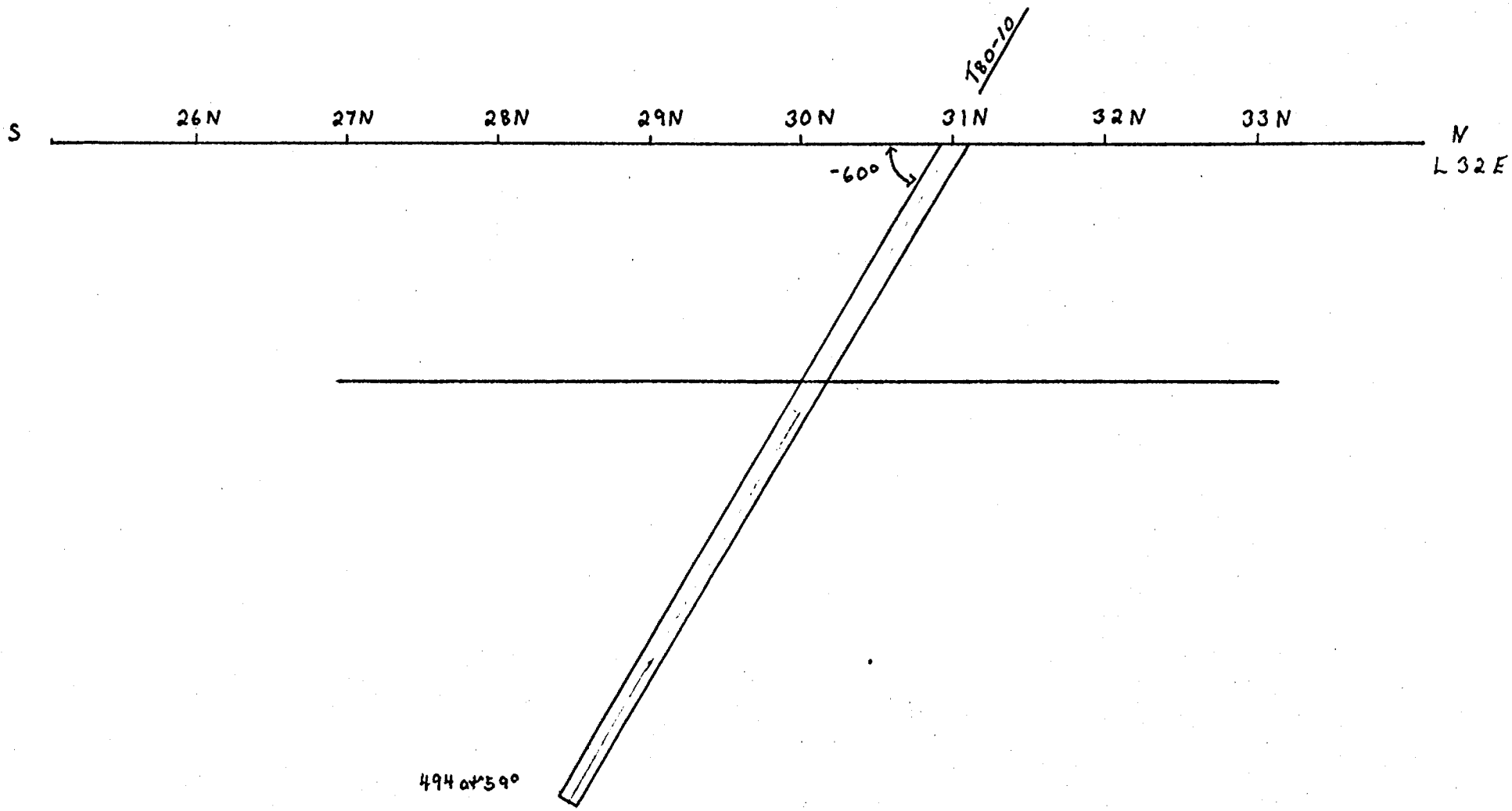
FOOTAGE FROM	FOOTAGE TO	ROCK TYPE	DESCRIPTION Colour, grain size, texture, minerals, alteration, etc.	PLANAR FEATURE ANGLE °	CORE SPECIMEN FOOTAGE +	YOUR SAMPLE NUMBER	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE LENGTH	ASSAYS + Au oz.		
			Sludge Samples			13580	340	350	10	tr		
						13581	350	360	10	tr		
						13582	360	370	10	tr		
						13583	370	380	10	.002+		
						13584	380	390	10	tr		
						13585	390	400	10	tr		
						13586	400	410	10	tr		
						13587	410	420	10	tr		
						13588	420	430	10			
						13589	430	440	10			
						13590	440	450	10			
						13591	450	460	10			
						13592	460	470	10			
						13593	470	480	10			
						13594	480	490	10			

+ Estimated



ROSARIO RESOURCES
CANADA LTD.

T80 - 9, 10
1" - 400'
Tully Twp.



ROSARIO RESOURCES CANADA LTD.

Tully Twp.

T80 -10

1" - 100'

DIAMOND DRILLING LOG

Start a new page for every new hole, but fill in top portion of form only on first page for each hole.

FILL IN ON EVERY PAGE

HOLE NO. T80-11 | PAGE NO. 1of3

DRILLING COMPANY: Norex Drilling Ltd.	COLLAR ELEVATION:	BEARING OF HOLE FROM TRUE NORTH: 200°	TOTAL FOOTAGE: 450	DIP OF HOLE AT: collar -55°; 200' ft -56°; 450' ft -54°; ft; ft	LOCATION OF HOLE IN RELATION TO A FIXED POINT ON THE CLAIM: L8+00E, 90+50N
DATE HOLE STARTED: 30 Sept.1980	DATE COMPLETED: 2 Oct.1980	DATE LOGGED: 18 June 1981	LOGGED BY: Patrick Chance		MAP REFERENCE NO.:
EXPLORATION CO., OWNER OR OPTIONEE: Rosario Resources Canada Ltd.	DATE SUBMITTED: 25 September	SUBMITTED BY (Signature): Patrick Chance			CLAIM NO.: P522 466
					LOCATION (Tp., Lot, Con. OR Lot. and Long.): Tully Twp, Lot 6 Conc.II NW¼,N½
					PROPERTY NAME: Tully

FOOTAGE FROM	FOOTAGE TO	ROCK TYPE	DESCRIPTION Colour, grain size, texture, minerals, alteration, etc.	PLANAR FEATURE ANGLE °	CORE SPECIMEN FOOTAGE ±	YOUR SAMPLE NUMBER	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE LENGTH	ASSAYS ± Au(ppb)
0	80	OVERBURDEN	Dominantly lacustrine clays							
80	108	MAFIC VOLCANICLASTIC (LAPILLI TUFF)	Pale greyish buff, fine grained volcaniclastic sediment cut by reticulate, calcity-filled fractures. Also contains 2-4 mm ovoid calcity bodies some of which look pumiceous. Moderately hard. Mafic to intermediate composition? Compositional banding CA	60°	106					
108	151	MAFIC TUFF	Medium grained volcaniclastic sediment containing 5-10% prominent brownish-white flecks with ragged outlines (0.2 mm ø) in medium grained granular matrix. Indistinctly banded. Banding CA apparently	60°	108-151					
			118-129' coarse grained. Cut by pale brown irregular alteration fracts (tend to be dark? chloritic?) in turn cut by irregular calcite lenses with rusty (ferroun calcite) selvedges.							
151	177	MAFIC TUFF LOCALLY BRECCIATED	Blueish grey, medium grained volcaniclastic sediment texturally similar to 108-151' above. Contains rare (1%) py grains. Cut by calcite-filled fractures and voids in brecciated sections.			19507	169	171		
177	207	BEDDED MAFIC TUFFS	Bedded (5-12') fine and coarse grained brownish-grey tuffs containing occasional thin (1-3') more argillaceous intervals. Locally brecciated; clasts rims not altered, breccia matrix dark fine grained (chloritic?). Banded py at 178'. Calcite occurs throughout, particularly in lenses subparallel to compositional banding and throughout, filling cross-cutting fractures.			19508	177	181		
207	[illegible]0	LAPILLI TUFF	Heterolithic, lapilli tuff containing flatened, angular-looking brownish-grey clasts set in a darker grey, perhaps graphitic, calcity-bearing, fine grained matrix.							
			207-210' 5% py overall, banded, fine crystal aggregate			19509	207	210		

DIAMOND DRILLING LOG

FILL IN ON EVERY PAGE | HOLE NO. T80-11 | PAGE NO. 2of3

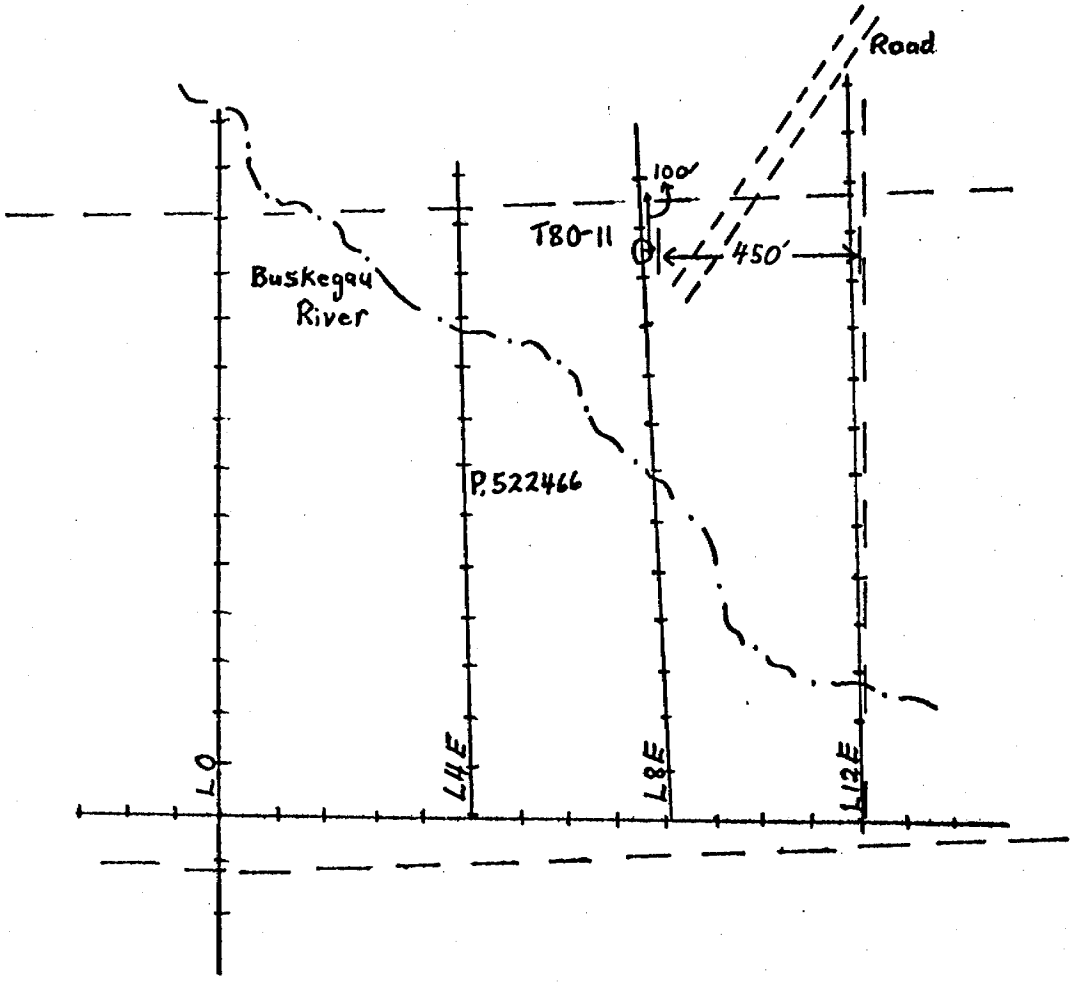
FOOTAGE FROM	FOOTAGE TO	ROCK TYPE	DESCRIPTION Colour, grain size, texture, minerals, alteration, etc.	PLANAR FEATURE ANGLE *	CORE SPECIMEN FOOTAGE +	YOUR SAMPLE NUMBER	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE LENGTH	ASSAYS + Au (ppb)
230	236	VOLCANIC BRECCIA	Homolithic volcanic breccia comprising pale yellowish-green ultramafic looking lcasts cut by numerous dark blue-grey serpentine like veinlets set in a fine grained dark greenish-blue matrix. Rare py, (1-2 mm ø aggregates).							
236	254	GRAPHITIC LAPILLI TUFF	Relatively soft, dark blueish-grey lapilli tuff consisting of greenish-brown, sand-sized clasts in an argillaceous matrix. Apparently graphitic.							
254	320	PYROXENITIC VOLCANIC BRECCIA	Volcanic breccia containing yellow-brown, pyroxenite? clasts with slightly darker altered rims in a fine grained, locally tuffaceous blue-grey, talcose matrix. 254-300' matrix-dominant 300-320' clast-dominant Matrix is calcite-bearing. 281-301' 1-2% cg, euhedral py			19511 19512 19513 19514	281 286 291 296	286 291 296 301		
320	330	UM FLOW-TOP ROCK	Transition from UM tuffs above flows below calcite-rich darker grey argillaceous containing ghost UM clasts.							
330	450	UM FLOW BRECCIA	Volcanic-breccia composed of rounded fist-sized, dark greyish-brown, pyroxenite(?) blocks which tend to lack obvious alteration or chilled rims set in a very distinct dark green greasy talc chlorite matrix. 406' sharp? flow contact (fine grained below 406') 410' 6" spinifex 415-431' very well developed spinifex defined by dark serpentine? filled fractures in otherwise uniformly aphanitic yellowish-brown rock. 431-444' coarse grained. May be cummulate zone 444-450' aphanitic yellowish-brown, chilled flow margin?							

DIAMOND DRILLING LOG

FILL IN ON EVERY PAGE

HOLE NO. T80-11 | PAGE NO. 3 of 3

FOOTAGE FROM	FOOTAGE TO	ROCK TYPE	DESCRIPTION Colour, grain size, texture, minerals, alteration, etc.	PLANAR FEATURE ANGLE °	CORE SPECIMEN FOOTAGE +	YOUR SAMPLE NUMBER	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE LENGTH	ASSAYS + Au oz.
						13595	100	130	30	tr
						13596	130	160	30	tr
						13597	160	190	30	tr
						13598	190	220	30	tr
						13599	220	250	30	tr
						13600	250	260	10	tr
						13601	260	270	10	tr
						13602	270	280	10	tr
						13603	280	290	10	.002
						13604	290	300	10	tr
						13605	300	310	10	.002
						13606	310	320	10	tr
						13607	320	330	10	tr
						13608	330	340	10	tr
						13609	340	350	10	.002
						13610	350	360	10	tr
						13611	360	370	10	tr
						13612	370	380	10	.002
						13613	380	390	10	tr
						13614	390	400	10	tr
						13615	400	410	10	tr
						13616	410	420	10	tr
						13617	420	430	10	tr
						13618	430	440	10	tr
						13619	440	450	10	tr
			END OF HOLE							

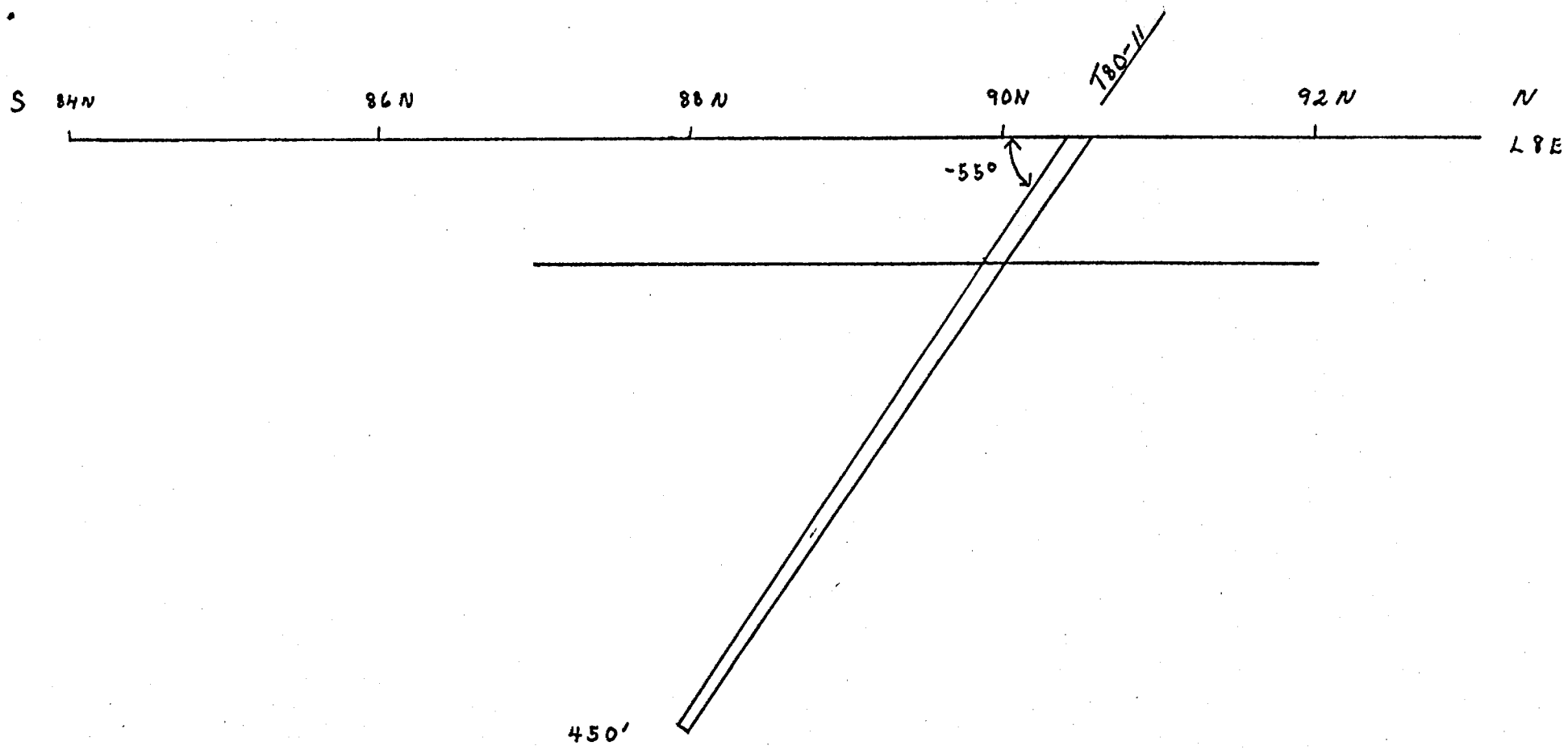


ROSARIO RESOURCES CANADA LTD

T80-11

1"-400'

Tully Twp.



ROSARIO RESOURCES CANADA LTD.

Tully Twp.

T80 - 11

1" - 100'

DIAMOND DRILLING LOG

Start a new page for every new hole, but fill in top portion of form only on first page for each hole.

FILL IN ON EVERY PAGE ▶ HOLE NO. T 80-12 | PAGE NO. 1of6

DRILLING COMPANY: NOREX DRILLING	COLLAR ELEVATION:	BEARING OF HOLE FROM TRUE NORTH: 180	TOTAL FOOTAGE: 502	DIP OF HOLE AT: collar | -55	LOCATION OF HOLE IN RELATION TO A FIXED POINT ON THE CLAIM: L 40 + 00E, 40 + 20N
DATE HOLE STARTED: October 3, 1980	DATE COMPLETED: October 8, 1980	DATE LOGGED: Oct. 23/80	LOGGED BY: Bruce Durham	200 ft | -51	MAP REFERENCE NO.:
EXPLORATION CO., OWNER OR OPTIONEE: ROSARIO RESOURCES CANADA LTD.		DATE SUBMITTED: 25 September	SUBMITTED BY (Signature): [signature]	500 ft | -42	CLAIM NO.: P. 522438, P. 522431
				ft |	LOCATION (Tp., Lot, Con. OR Lat. and Long.): NE¼, N½, lot 5, Con. I, Tully Twp.
				ft |	PROPERTY NAME: Tully

FOOTAGE FROM	FOOTAGE TO	ROCK TYPE	DESCRIPTION (Colour, grain size, texture, minerals, alteration, etc.)	PLANAR FEATURE ANGLE °	CORE SPECIMEN FOOTAGE ↓	YOUR SAMPLE NUMBER	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE LENGTH	ASSAYS ↓ Au ppb
0	138	Casing								
138	182	Massive Periodotite	Medium to coarse grained altered ultramafic. Now largely composed of magnesite, ankerite talc & chlorite (+ minor serpentine minerals).							
			½" qtz vein at 30° to CA at 161.6			13784	161.5	165	3.5	19
			½" + ½" + 3" qtz ankerite veins at 163.3 - 164.3	40						
			½" qtz ankerite vein at 164.6 at 40°							
182	300.5	Ultramafic tuff or fragmental + minor argillite	The contact with the above unit is very poorly defined or is gradational but by 487 fragments 0.3 x 1" are discernible. Fragments account for < 20% of the unit and in some places none are visible. Ankerite is present throughout. The rock is almost black in colour.							
			½" qtz vein at 187.5 at 40° to AA			13785	187	192	5	12
			2" qtz vein at 201 at 30° to CA			13786	200.5	201.5	1	14
			2" banded qtz ankerite zone at 212.5 at 55° to CA			13787	212	213	1	41
			214.8 - 215.9 argillaceous section massive fine grained grey black sediment.							
			221 - 224 Argillaceous section							
			½" qtz vein at 226.5 at 20° to CA							
			250.5 - 254 10% qtz + ankerite veins including 2" qtz vein at 253.7. Veins are broken & discontinuous.			13788	250	255	5	30
			½" qtz ankerite vein at 260.3 at 40° to CA							
			261.5 - 265 Ultramafic looking section tan to slightly olive coloured (ultramafic carb rock).							
			270 - 281 Argillaceous - fine grained black sediment							
			270 - 275 Numerous ¼ - 2" white qtz veins (25% qtz) + minor ankerite & py.			13789	270	275	5	36
			275 - 278 2 - 2" qtz veins + ankerite + 9" qtz ankerite vein (276 - 276.8)							

DIAMOND DRILLING LOG

Start a new page for every new hole, but fill in top portion of form only on first page for each hole.

FILL IN ON EVERY PAGE ▶ HOLE NO. T 80-12 | PAGE NO. 2of6

DRILLING COMPANY		COLLAR ELEVATION	BEARING OF HOLE FROM TRUE NORTH	TOTAL FOOTAGE	DIP OF HOLE AT	LOCATION OF HOLE IN RELATION TO A FIXED POINT ON THE CLAIM	MAP REFERENCE NO.	CLAIM NO.
DATE HOLE STARTED	DATE COMPLETED	DATE LOGGED	LOGGED BY		collar ft ft ft ft		LOCATION (Tp., Lot, Con. OR Lat. and Long.)	
EXPLORATION CO., OWNER OR OPTIONEE		DATE SUBMITTED	SUBMITTED BY (Signature)				PROPERTY NAME	

FOOTAGE FROM	FOOTAGE TO	ROCK TYPE	DESCRIPTION Colour, grain size, texture, minerals, alteration, etc.	PLANAR FEATURE ANGLE °	CORE SPECIMEN FOOTAGE +	YOUR SAMPLE NUMBER	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE LENGTH	ASSAYS + Au ppb
			280.5 - 297 Ultramafic carb rock - tan to slightly olive coloured. This section appears to contain 10 - 15% grey ankerite.							
			6" irregular qtz ankerite vein at 290.8'			13790	290	292	2	96
			292.5 minor interstitial argillitic material							
			½" Qtz ankerite vein at 295.8' at 45°			13791	298.5	301	2.5	49
			2" qtz vein + ankerite at 299'							
300.5	322.5	Argillite	Massive fine grained black weakly graphitic argillite. Narrow sections are conductive as are graphitic slips. Pyrite is weakly disseminated throughout and rarely exceeds 2%. Frequent qtz and qtz ankerite veins from ½ to 3" occur throughout.							
			3/4" qtz ankerite vein at 301.5			13792	301	305	4	26
			2.5" qtz ankerite vein at 302.5							
			1" qtz ankerite vein at 304.2							
			3.3' qtz ankerite zone (80%) 305.5 - 308.8 scattered 1/8 - ½" qtz ankerite veinlets 311 - 313			13793	305	309	4	16
			314 - 315 10% fine & coarse py			13794	309	314	5	27
			1' 50% qtz ankerite 315.3 - 316.3'			13795	314	318	4	15
			4.1' 90% slightly cherty grey - white massive qtz vein + minor ankerite & argillitic material (tr py) 318.4 - 321.5			13796	318	321	3	15
						13797	321	324	3	15
			322.5 - 323.5 10% py + minor qtz ankerite veining							
322.5	357.5	Gabbroic sill or flow?	If this unit is in fact a volcanic or intrusive it has assimilated significant quantities of the nearly argillites. If the Rock is not gabbroic it would have to be considered to be a mafic tuff. The unit is dark grey in colour and is fairly massive and uniform throughout. The rock has a somewhat granular appearance. Some graphitic slips are conductive. The amount of graphite appears to decrease down the hole. Py content < 1%. Very little qtz or ankerite veining is present. The granular appearance seems to be due to the minor graphite component of the ground							

DIAMOND DRILLING LOG

Start a new page for every new hole, but fill in top portion of form only on first page for each hole.

FILL IN ON EVERY PAGE ▶ HOLE NO. T 80-12 | PAGE NO. 3of6

DRILLING COMPANY		COLLAR ELEVATION	BEARING OF HOLE FROM TRUE NORTH / TOTAL FOOTAGE	DIP OF HOLE AT collar / ft / ft / ft	LOCATION OF HOLE IN RELATION TO A FIXED POINT ON THE CLAIM
DATE HOLE STARTED	DATE COMPLETED	DATE LOGGED	LOGGED BY		MAP REFERENCE NO. / CLAIM NO.
EXPLORATION CO., OWNER OR OPTIONEE		DATE SUBMITTED	SUBMITTED BY (Signature)		LOCATION (Tp., Lot, Con. OR Lat. and Long.) / PROPERTY NAME

FOOTAGE FROM	FOOTAGE TO	ROCK TYPE	DESCRIPTION Colour, grain size, texture, minerals, alteration, etc.	PLANAR FEATURE ANGLE °	CORE SPECIMEN FOOTAGE †	YOUR SAMPLE NUMBER	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE LENGTH	ASSAYS † Au ppb
			mass. There is a little leucoxene & 1 - 4% calcite developed from 350 - 357.5.							
357.5	448	Andesite & Andesite fragmental	Grey (minor pervasive graphite) grading to tan green (by andesite & minor interflow fragmental zones as noted. Minor graphitic streaks are present in the volcanic parts. Argillitic material & calcite constitute the ground mass of the fragmental sections.							
			2" qtz epidote (yellowish) calcite vein at 360'			13798	359.5	361.5	2	23
			6" qtz epidote (yellowish) calcite vein at 361.5 - 362							
			5" qtz carb epidote vein at 375.5			13799	375	376	1	10
			374 - 375.7 poorly developed fragmental zone							
			375.7 - 383.5 Massive tan carb rock (calcite alteration)							
			383.5 - 386 Well developed fragmental. Fragments from 0.1 to 3" in diameter. Possibly tops down hole? 0.5% py							
			386 - 396 massive somewhat fractured weakly carbonated tan andesite (probably pillowed). fractures and pillow intersticies are filled with a calcite - argillite mixture.							
			396 - 407.1 Coarse fragmental zone with an erratic gradation to argillite which is capped? by a 1.5" band of 50% py. This would indicate tops down hole.							
			Bedding 406'	70						
			407.1 - 448 massive to moderately fractured weakly carbonated andesite with rare 2 - 12" fragmental sections.							
			2" calcite vein at 437'							
			1" qtz vein at 446.1'							
			5" contorted qtz vein at 447.5'			13800	446	448	2	38
448	[illegible]3.3	Massive Medium grained basalt	Grey green fine to coarse grained bleached weakly carbonated thick flow. The coarser grained nature of the flow from 450 - 460 may indicate tops down hole. Calcite is present throughout (1 - 2%). Leucoxene accounts for 2% of the rock.							

DIAMOND DRILLING LOG

Start a new page for every new hole, but fill in top portion of form only on first page for each hole.

FILL IN ON EVERY PAGE

HOLE NO.	PAGE NO.
T 80-12	4 of 6

DRILLING COMPANY		COLLAR ELEVATION	BEARING OF HOLE FROM TRUE NORTH	TOTAL FOOTAGE	DIP OF HOLE AT collar	LOCATION OF HOLE IN RELATION TO A FIXED POINT ON THE CLAIM	MAP REFERENCE NO. / CLAIM NO.
DATE HOLE STARTED	DATE COMPLETED	DATE LOGGED	LOGGED BY		ft / ft / ft / ft		LOCATION (Tp., Lot, Con. OR Lat. and Long.)
EXPLORATION CO., OWNER OR OPTIONEE		DATE SUBMITTED	SUBMITTED BY (Signature)				PROPERTY NAME

FOOTAGE FROM	FOOTAGE TO	ROCK TYPE	DESCRIPTION Colour, grain size, texture, minerals, alteration, etc.	PLANAR FEATURE ANGLE °	CORE SPECIMEN FOOTAGE +	YOUR SAMPLE NUMBER	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE LENGTH	ASSAYS +
483.3	502	Andesite	Rather abrupt change to a very fine grained pale green andesite which is in places fragmental.							
			END OF HOLE							
			Core stored in Timmins							
			Casing pulled.							

DIAMOND DRILLING LOG

Start a new page for every new hole, but fill in top portion of form only on first page for each hole.

FILL IN ON EVERY PAGE ▶ HOLE NO. T 80-12 | PAGE NO. 5 of 6

DRILLING COMPANY		COLLAR ELEVATION	BEARING OF HOLE FROM TRUE NORTH	TOTAL FOOTAGE	DIP OF HOLE AT collar ° / ft ° / ft ° / ft °	LOCATION OF HOLE IN RELATION TO A FIXED POINT ON THE CLAIM
DATE HOLE STARTED	DATE COMPLETED	DATE LOGGED	LOGGED BY			
EXPLORATION CO., OWNER OR OPTIONEE		DATE SUBMITTED	SUBMITTED BY (Signature)			

MAP REFERENCE NO.	CLAIM NO.
LOCATION (Tp., Lot, Con. OR Lat. and Long.)	
PROPERTY NAME	

FOOTAGE FROM	FOOTAGE TO	ROCK TYPE	DESCRIPTION Colour, grain size, texture, minerals, alteration, etc.	PLANAR FEATURE ANGLE °	CORE SPECIMEN FOOTAGE +	YOUR SAMPLE NUMBER	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE LENGTH	ASSAYS + Au oz.
			Sludge Samples			13620	138	150	12	tr
						13621	150	160	10	tr
						13622	160	170	10	tr
						13623	170	180	10	tr
						13624	180	190	10	tr
						13625	190	200	10	tr
						13626	200	210	10	tr
						13627	210	220	10	tr
						13628	220	230	10	0.005
						13629	230	240	10	tr
						13630	240	250	10	tr
						13631	250	260	10	tr
						13632	260	270	10	tr
						13633	270	280	10	0.002
						13634	280	290	10	0.002
						13635	290	300	10	0.002
						13636	300	310	10	0.002

DIAMOND DRILLING LOG

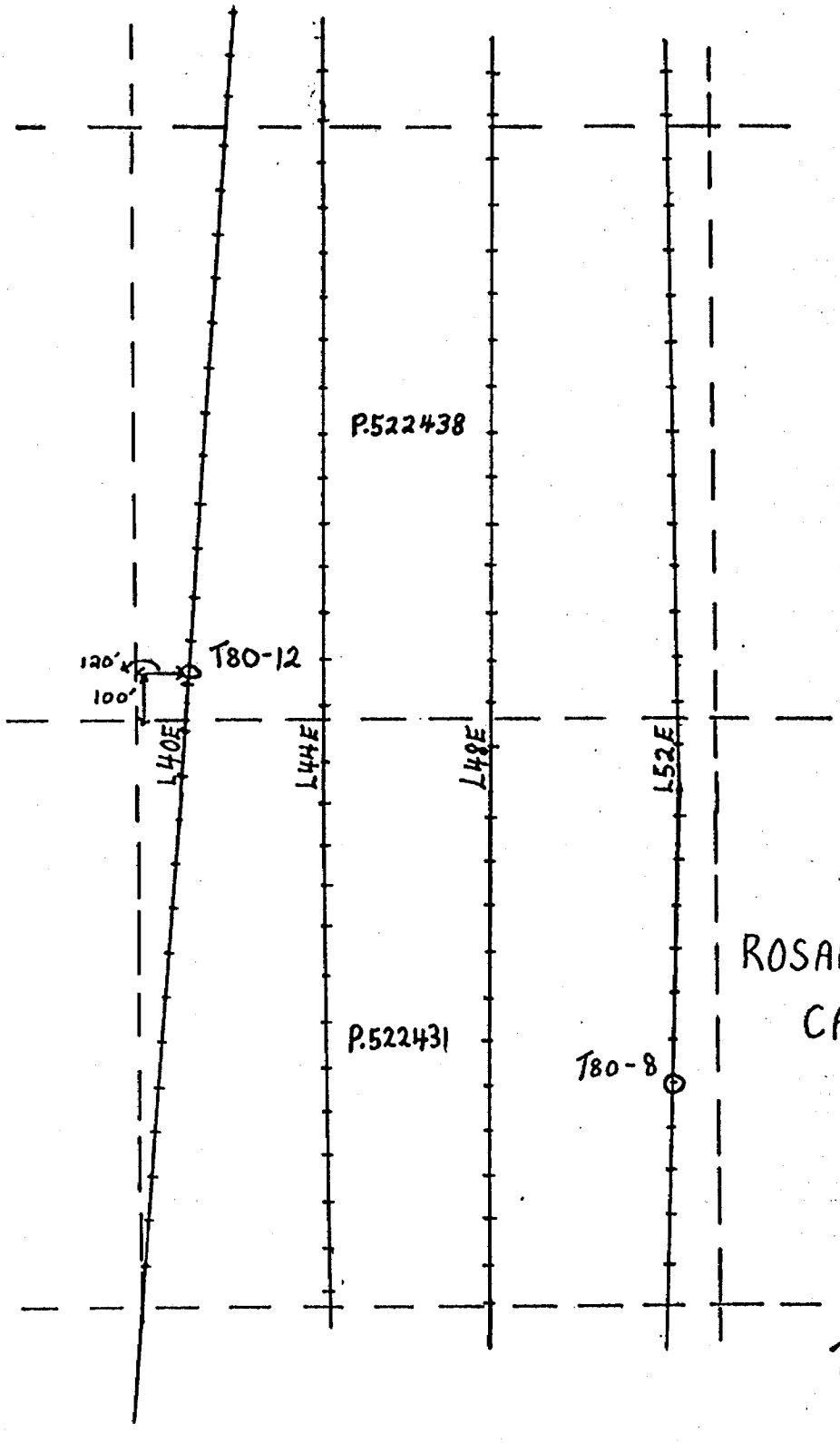
Start a new page for every new hole, but fill in top portion of form only on first page for each hole.

FILL IN ON EVERY PAGE ▶ HOLE NO. T 80-12 | PAGE NO. 6 of 6

DRILLING COMPANY		COLLAR ELEVATION	BEARING OF HOLE FROM TRUE NORTH	TOTAL FOOTAGE	DIP OF HOLE AT collar	LOCATION OF HOLE IN RELATION TO A FIXED POINT ON THE CLAIM
DATE HOLE STARTED	DATE COMPLETED	DATE LOGGED	LOGGED BY		° ft	
EXPLORATION CO., OWNER OR OPTIONEE		DATE SUBMITTED	SUBMITTED BY (Signature)		° ft	
					° ft	
					° ft	

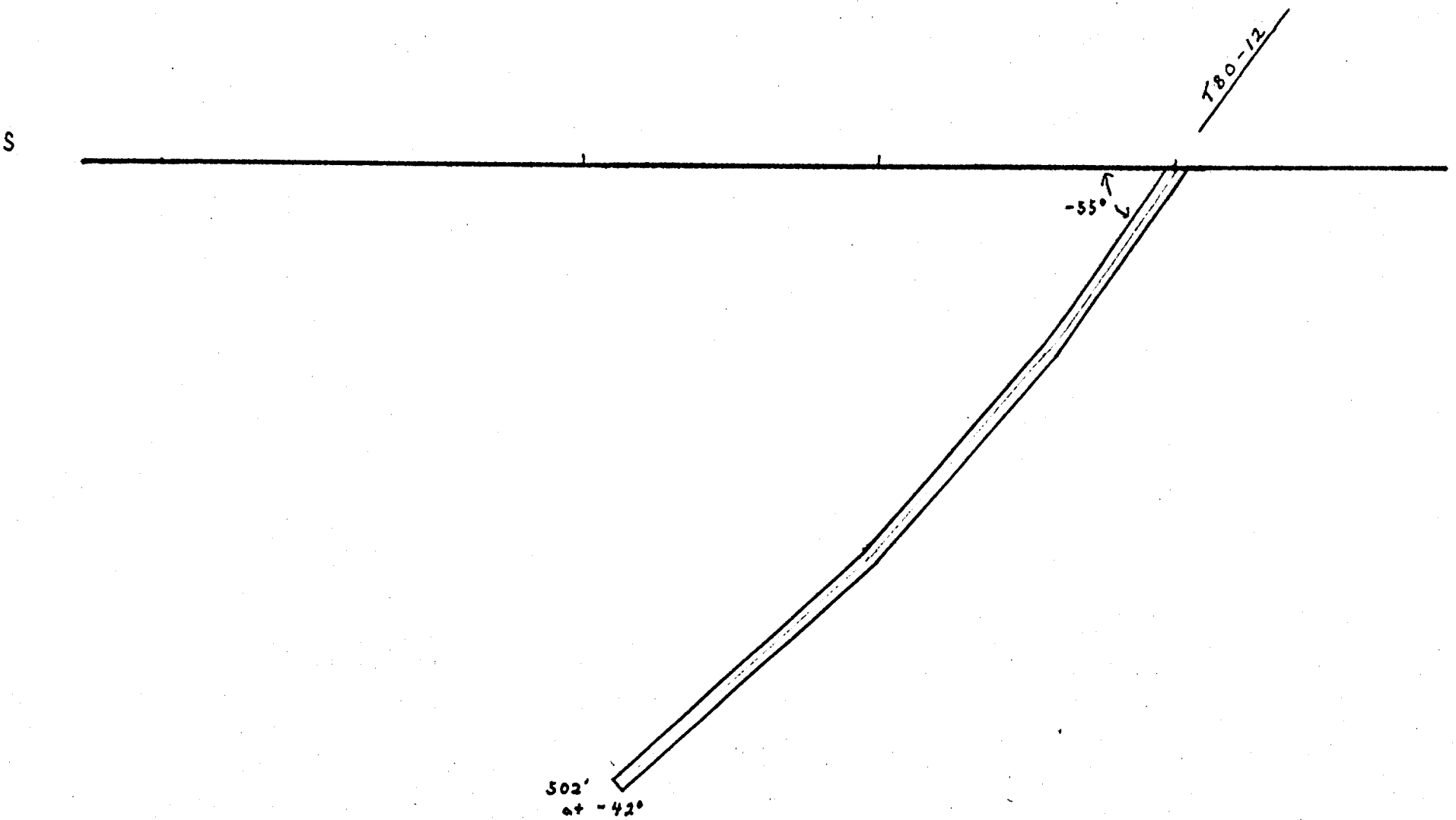
MAP REFERENCE NO.	CLAIM NO.
LOCATION (Tp., Lot, Con. OR Lat. and Long.)	
PROPERTY NAME	

FOOTAGE FROM	FOOTAGE TO	ROCK TYPE	DESCRIPTION Colour, grain size, texture, minerals, alteration, etc.	PLANAR FEATURE ANGLE °	CORE SPECIMEN FOOTAGE +	YOUR SAMPLE NUMBER	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE LENGTH	ASSAYS + Au oz.
			Sludge Samples			13637	310	320	10	0.002
						13638	320	330	10	tr
						13639	330	340	10	tr
						13640	340	350	10	tr
						13641	350	360	10	tr
						13642	360	380	20	tr
						13643	380	400	20	tr
						13644	400	430	30	0.002
						13645	430	440	10	0.002
						13646	440	450	10	0.002
						13647	450	460	10	0.005
						13648	460	470	10	0.002
						13649	470	480	10	tr
						13650	480	490	10	0.002
						13651	490	500	10	0.002



ROSARIO RESOURCES
CANADA LTD.

T80-12
1" - 400'
Tully Twp.

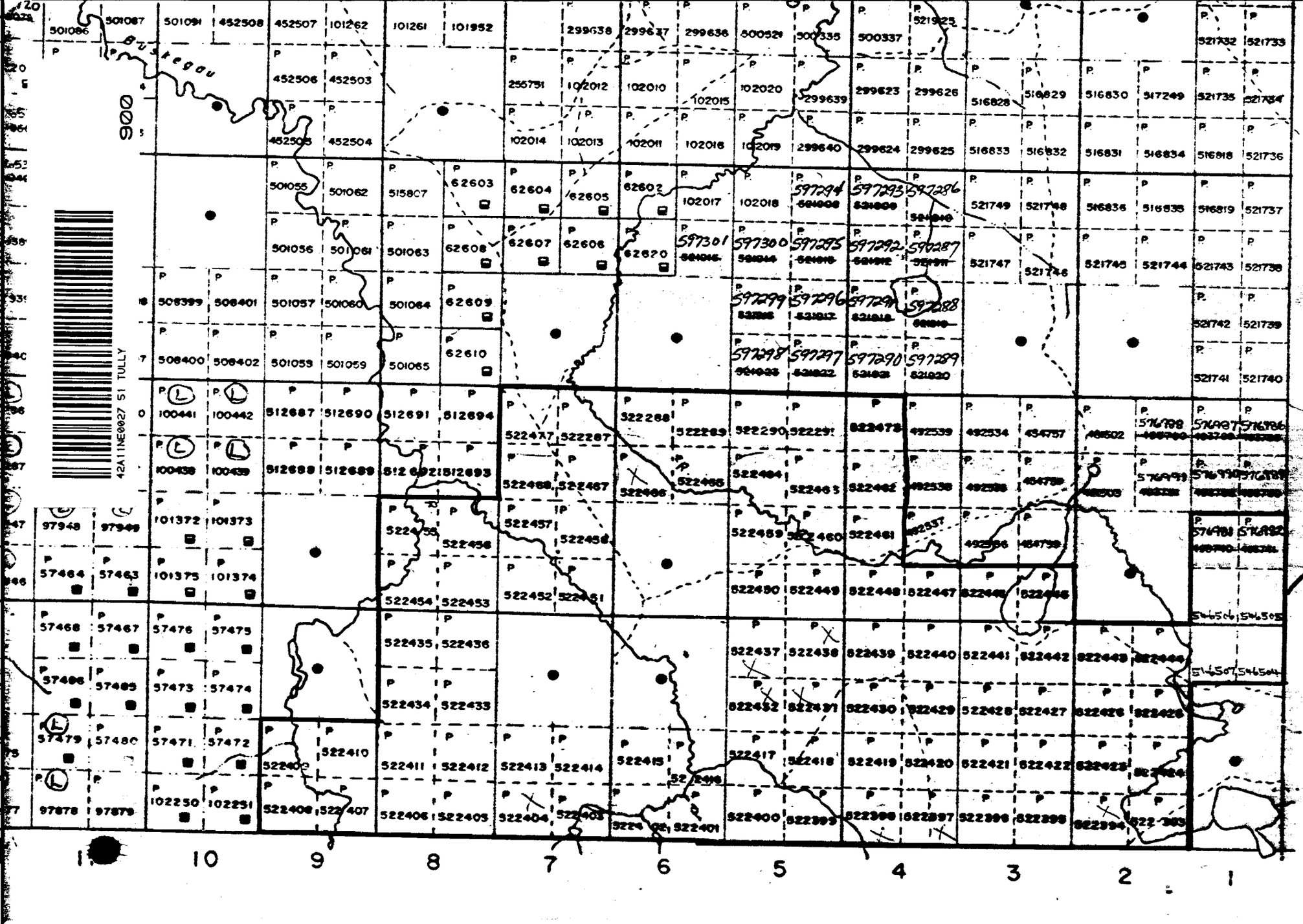


ROSARIO RESOURCES CANADA LTD.

Tully Twp.

T80-12

1" - 100'


LITTLE Tp. M.535
IV
III
II
I
900
Tully Twp
#400-81
LACANA MIN
42A11NE0027 S1 TULLY
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