



**SUMMARY TECHNICAL REPORT  
O.P.A.P. FILE NO. OP93-502  
APPLICANT: MATTI KANGAS  
DATE: AUG. 2, 1993**

PROJECT LOCATION AND ACCESS

The Property consists of 88 claims located approximately 10 miles south-west of the City of Timmins in the Porcupine mining division of North-Eastern Ontario. There are 47 claims in the North-West corner of Price Twp. (claim map plan M-307), 35 contiguous claims in the S. W. corner of Ogden Twp. (claim map no. G-3979), and 6 adjoining claims in N. E. Thorneloe Twp. (claim map no. G-3229). The center of the claim group lies at 48 degrees, 22' N. latitude and 81 degrees, 27' W. longitude. (N.T.S. map sheet 42-A-5/6).

Figure 1 attached is a key map showing the general location of the property. The envelope attached to this proposal contains claim map excerpts upon which the property boundaries and specific project areas are marked. Figure 2 is a list of claims for the property.

The westerly continuation of Dalton Road from Timmins (along and south of the Mattagami River) crosses the extreme N. W. corner of Price Twp. en route to the Wawaitin Falls power installation and Kenogamissi Lake. (see Fig. 3) About 100 metres south of the Price-Ogden common Twp. boundary along this road, a side-road known as the "Musgrove (timbering access) Road" branches to the south-east then turns southward and parallel to, but a half mile west of, the Grassy River. The (south)east boundary of the Price claims lies approximately midway between the Grassy River and the Musgrove Road. Numerous logging roads branch from both the above roads providing excellent property access.

GEOLOGY

a) General Geology: (refer to geological sketch map in Fig.3)

A December 1988 geological report and map by D. Mullen, consulting geologist on the Chevron Canada Exploration Program, indicates that favourable geology and structure exist on the Price Twp. claims. Intensely deformed and altered volcanic and sedimentary rocks straddling the Deloro-Tisdale supergroup boundary on the claims are believed to be the distal equivalent sequence to that in the southern part of the Porcupine Gold Camp 10 miles to N. E. (i.e. host rocks for the Aunor, Delnite, Kenilworth, DeSantis Mines).

A south to north sequence of komatiitic, tholeiitic, and calcalkalic volcanics and argillitic / graphitic metasediments is underlain to the south by a broad band of chert-magnetite-sulphide-iron formations.

A number of parallel I.P. chargeability targets were identified in the volcanic portions of the above sequence. Some of these were found to coincide with zones of anomalous copper-zinc soil samples. A number of anomalous gold soil samples also correlate well with some I.P. zones (or apparent airborne V.L.F. extensions of these I.P. zones) and the ultramafic rocks.

#### b) GEOLOGY BASED ON O.P.A.P. DRILL PROGRAM

The diamond drill program confirmed the presence of komatiitic ultramafic flows immediately adjacent to the north, and stratigraphically above, the widely exposed band of metasediments and iron formations which traverse the southern portion of the claim group.

The drilling further confirmed variably sheared and altered mafic volcanic flows overlying the komatiitic flows.

In general, the drill program findings co-incide with Chevron Canada's 1988 geological report & mapping. Chevron had concluded that altered felsic dikes should be the focus in the next exploration phase on the property based on their discovery of gold associated with them on the northern part of the Price Twp. claims. A few narrow felsic dikes were encountered in the 1993 drilling, but no associated gold mineralization was detected.

#### WORK PROGRAM

Three diamond drill holes totalling 774 feet were completed using the 1993 O.P.A.P. Grant funds. A total of 600 feet was planned in the March 29/93 proposal, but, because the core contained extensive widths of sheared & altered volcanics mineralized with pyrite, it was decided in the field to extend the drilling.

Two holes (MK933A & MK933B) were designed to test a very wide I.P. target located by Chevron in the mafic volcanics. The third & longest hole was designed to test a 5-point gold anomaly in the soil above a faulted contact between metasediments & komatiitic flows.

## RESULTS OF DRILL PROGRAM

A plan & cross section & log for each of the three holes drilled are appended to this report.

### DRILL HOLES MK 933A & MK 933B

These holes were drilled to test an I.P. anomaly whose surface expression gave a 375 ft. width when measured along Chevron's crossline No.22 west (centered about 450 meters north of their baseline). A magnetic, linear east-west feature, centrally located in, and sub-parallel to the I.P. anomaly had been interpreted as a diabase dike by Chevron, but was found to be caused by magnetite-bearing portions of the volcanic flows.

Drill hole MK 933A intersected chloritic volcanics in the upper part of the hole with decreasing chlorite & increasing sericite & shearing as the hole deepened. A background of disseminated pyrite estimated to range up to 1% occurs in the upper section of the hole & increases to 2% to 3% with depth. Narrow quartz-ankerite stringers & locally silicified sections of the core contain from 5% to 15% disseminated pyrite. Between 117 and 130 feet in the hole, chalcopyrite occurs occasionally as 1 to 2 millimeter wide stringers or is contained within narrow quartz-ankerite veinlets.

Drill hole MK 933B intersected sheared chloritic volcanics over its entire length. The flows in the upper two-thirds portion of the hole are carbonatized with extensive sections of calcite stringers & bands ranging from 30% to 70% of the rock. Hard, narrow, silicified sections locally contain 5% to 15% disseminated pyrite & rarely up to 25%. Background disseminated pyrite content is 1% to 2%. This zone is immediately followed by a 41 ft. length of core 70% of which contains four different dikes—a 9.4 ft. sheared, foliated syenitic dike; a 9.7 ft. quartz porphyry dike; a sheared & foliated 3.3 ft. quartz-poor granitic dike; and (after an 11.6 ft. variolitic flow) a 6.4 ft. sheared, foliated tonalitic dike. The syenitic dike contains 5% to 10% disseminated pyrite & two quartz-tourmaline stringers totalling about 9 inches width. The quartz-prophyry contains sections with up to 30% pyrite and two quartz-tourmaline stringers (one containing 10% sphalerite) totalling 5 inches width. The granitic dike contains two quartz stringers totalling 12 inches width - one containing 2% to 5% pyrite, the other ankerite & tourmaline. The tonalitic dike is quartz-calcite altered with 10% to 15% pyrite.

Drill hole MK-931 After 85 ft. of casing, the drill cored 175 ft. of ultramafic, komatiitic volcanic flows, then 150 ft. of medium-to-coarse grained, sheared mafic volcanic flows.

Numourous examples of spinifex texture occur throughout the ultramafic unit. The first 60 ft. of the unit consists of very soft talc-carbonate altered matteral which is frequently rusted and vuggy while the remainder appears fresh and unweathered. Over 95% of the underlying mafic section is sheared and carbonatized (predominantly calcite). The upper 80 to 90 ft. of it is very well mineralized with disseminated pyrite reaching to 30% of the core in the more silicified & sericitic sections. The more chloritic green/white banded sections contain only 2% to 3% disseminated pyrite. The bottom 44 ft. of the hole is chloritized & sericitized & contains up to 50% quartz-carbonate stringers and 5% fuchsite. Two 12 ft. sections of this unit contain 2% to 3% disseminated pyrite. A 1.5 ft magnetic syenite dike with 5% to 10% disseminated pyrite was cut at 360 ft. down the hole. This was followed by 6 inches of 80% quartz-carbonate-fuchsite stringers, then about 7 ft. of quartz-augen schist averaging 5% disseminated pyrite but including sections of silicified brown material with quartz-ankerite veins containing 15% to 25% pyrite.

#### RECOMMENDATIONS

1) The alteration, mineralization, and rock sequences encountered in this initial drill program are considered to represent a favourable environment for the occurrence of gold and as such, require additional work.

2) Proposed drill holes MK-932, MK-934 & MK-935 (1993 O.P.A.P. proposal) should be drilled to test the three remaining Chevron Canada I.P. targets on the southern half of the Price Twp. claims.

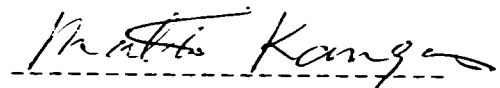
3) The presence of gold mineralization in quartz-feldspar porphyry dikes in strongly fractured & hematized sediments in Chevron holes 2 and 4 (northern half of Price Twp. claims) should be followed up by drilling their proposed holes 5 and 6 along the zone to the east. Their proposed hole 7 should also be drilled to test for a parallel zone to the south of the so-called "mafic intrusive".

4) Finally, consideration should be given to further evaluation of the ring-shaped magnetic feature on the north half of the Price Twp. claims (so-called "mafic intrusive"). The shoulders of this feature were penetrated by Chevron holes 2 and 4 and core samples were verified as fenitized, rare-earth-bearing rock suggesting the possible presence of a nearby carbonatite. The over-looked potential for a number of commodities such as rare-earths, phosphates, niobium, uranium, beryllium, zirconium etc. is attested to by a series of letters from K. Barron\* to the Timmins resident geologist in early 1992.

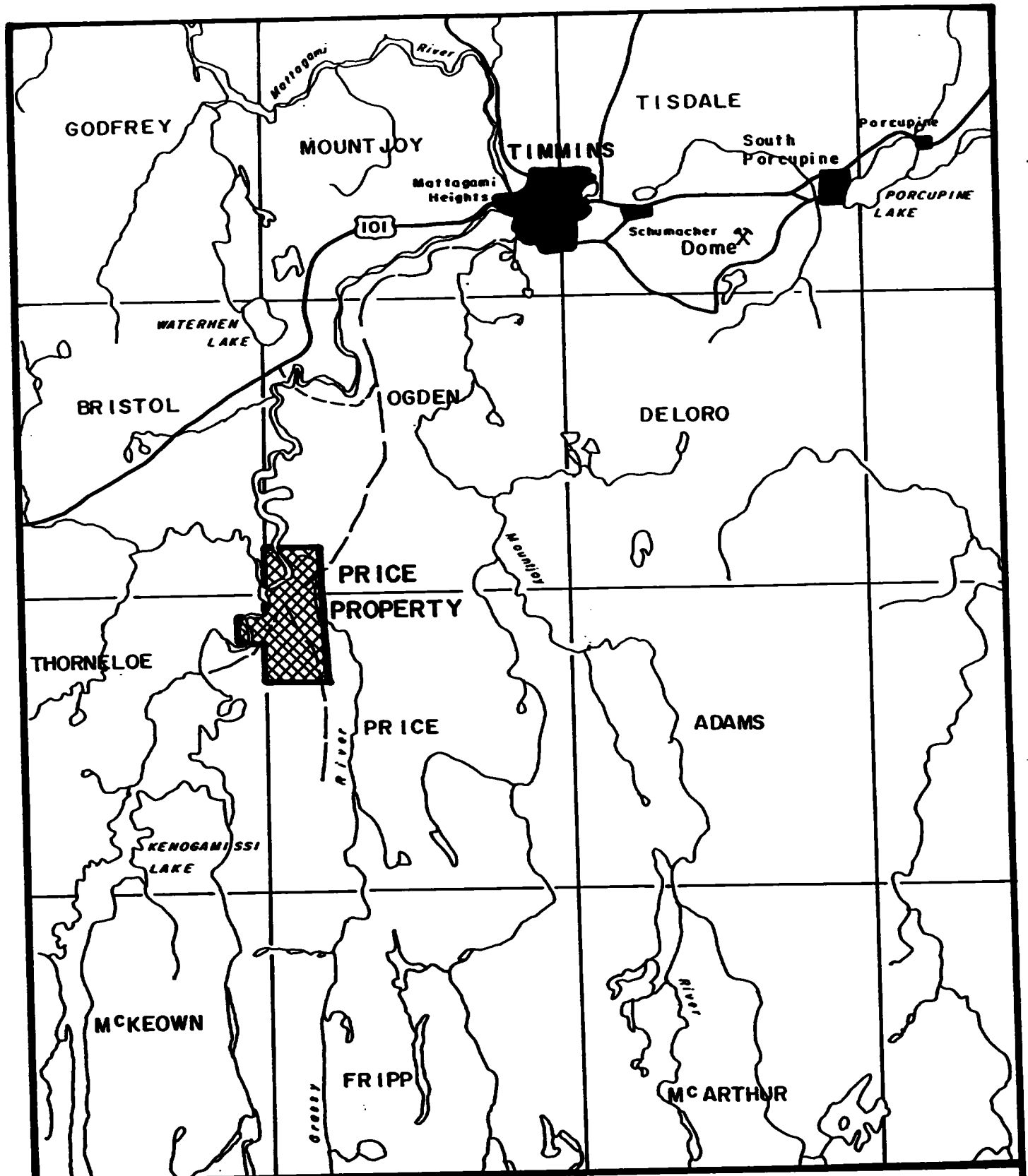
CONCLUSION

This report is believed to fulfill the requirements of the final O.P.A.P. submission & is hereby submitted to procure the final \$5000 grant payment.

K. Barron\*--Ph.D. candidate, University of Western Ontario

A handwritten signature in cursive script that reads "Matti Kangas". The signature is written in dark ink and is positioned above a horizontal dashed line.

MATTI KANGAS, APPLICANT



CHEVRON - UMAX J V

CROXALL - KANGAS OPTION  
PRICE TOWNSHIP

**PROPERTY MAP**

Date : Mullen

Date : 21/06/88

Drawn : L

Figure 1



-FIGURE 2-

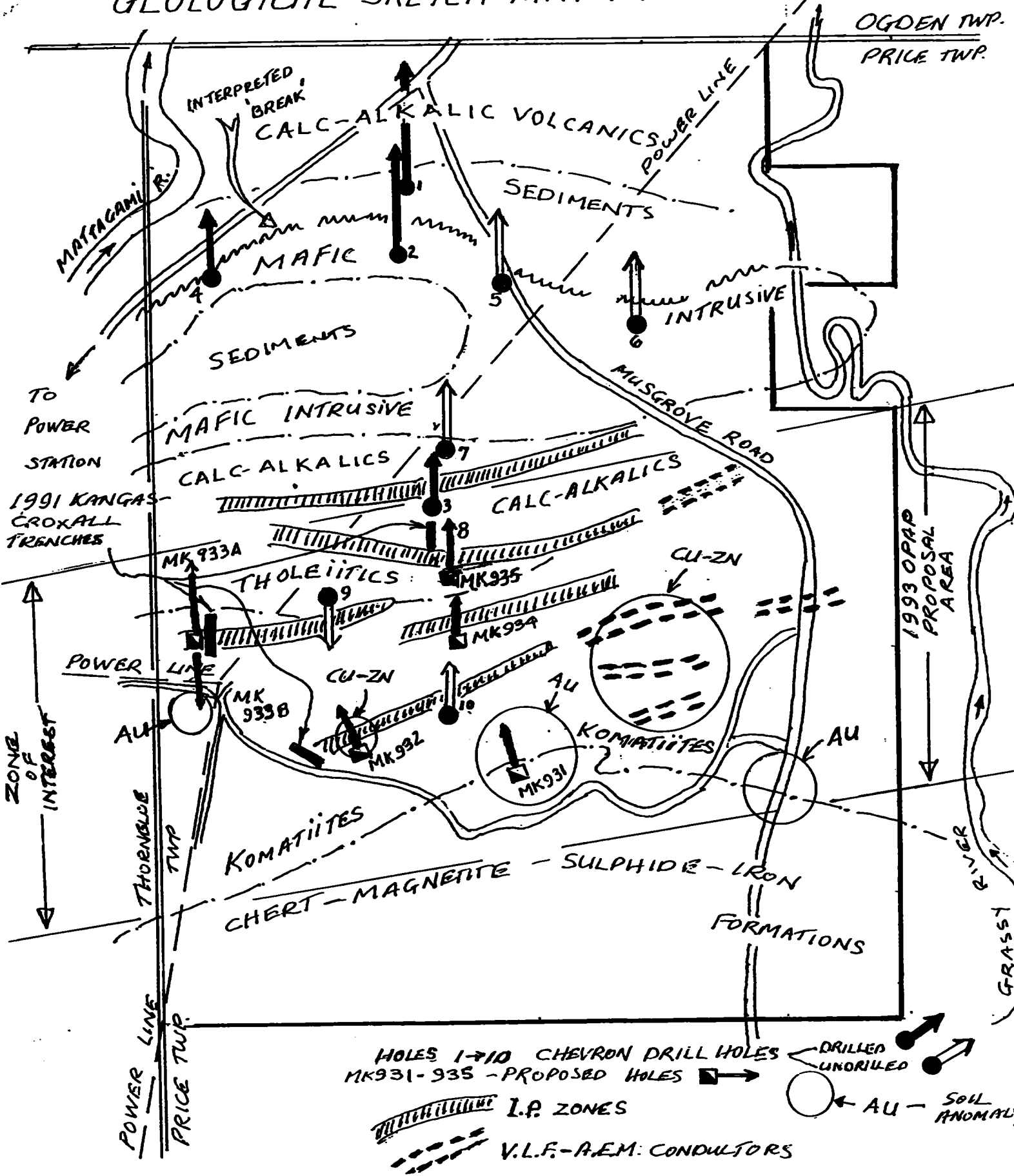
PRICE / OGDEN / THORNELOE PROPERTY CLAIM LIST

P 1159645	P 998263	P 900409	P 880309
P 1033734	P 998264	P 988131	P 880310
P 1033736	P 998265	P 988133	P 871790
P 1033737	P 998266	P 998024	P 871791
P 988134	P 998267	P 849065	P 871792
P 998246	P 998268	P 849066	P 871793
P 998247	P 998269	P 849067	P 871794
P 998248	P 998017	P 849068	P 889259
P 998249	P 998018	P 880296	P 889262
P 998250	P 998019	P 880297	P 889263
P 998251	P 998020	P 849069	P 889264
P 998252	P 998021	P 880298	P 871795
P 998253	P 998022	P 880299	P 871796
P 998254	P 998023	P 880300	P 871797
P 998255	P 998025	P 880301	P 900410
P 998256	P 998026	P 880302	P 900411
P 998257	P 1025201	P 880303	P 900412
P 998258	P 1159644	P 880304	P 900413
P 998259	P 889260	P 880305	P 988132
P 998260	P 889261	P 880306	P 905587
P 998261	P 900414	P 880307	P 905586
P 998262	P 900415	P 880308	P 905588

TOTAL NUMBER OF CLAIMS 88

— FIGURE 3 —

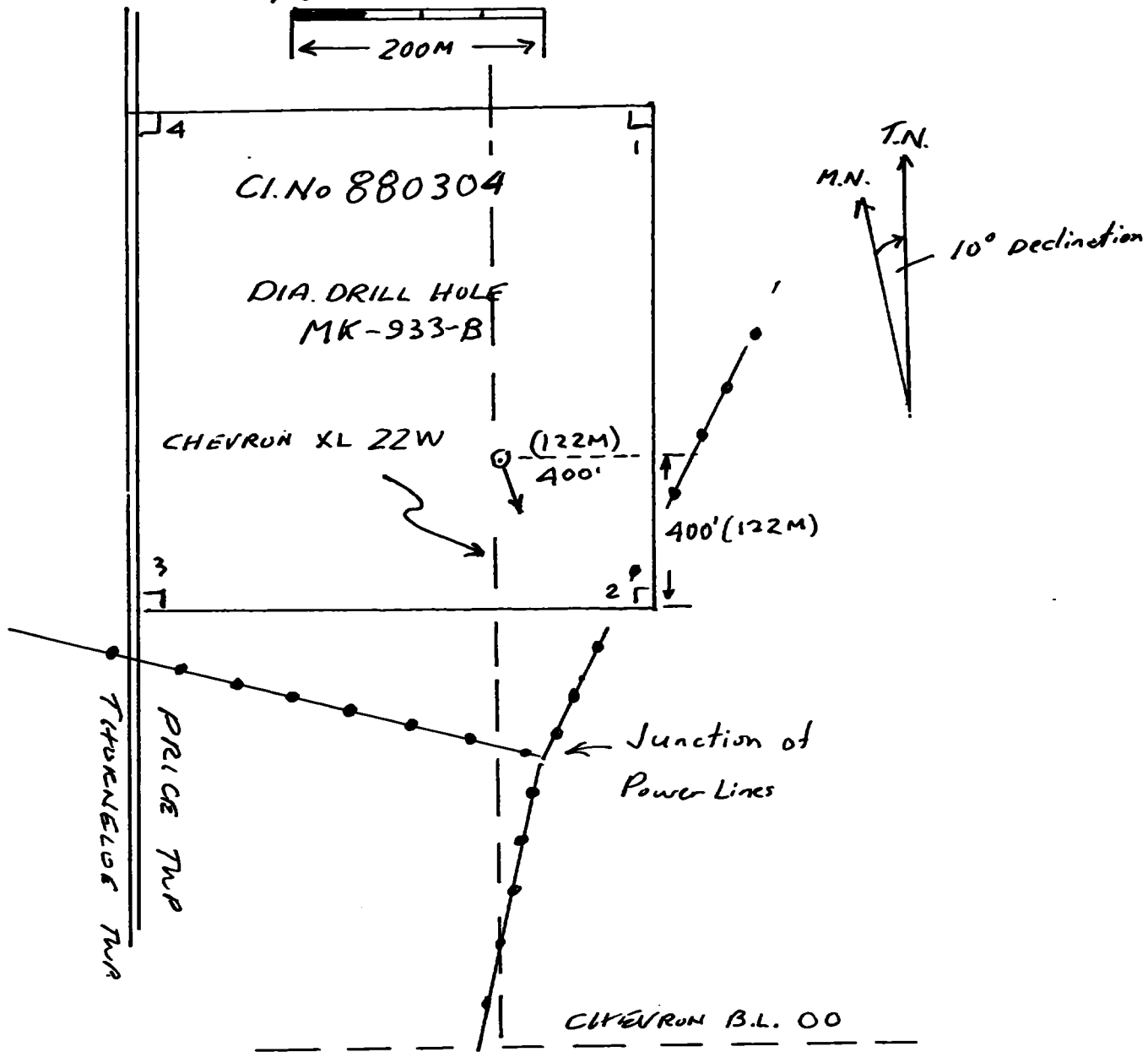
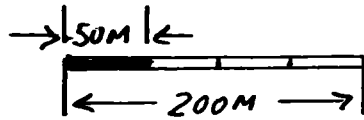
# GEOLOGICAL SKETCH MAP-PRICE TWP CLAIMS





# DRILL HOLE PLAN MAP

SCALE: 1CM = 50M



**MK-933-B**

LENGTH OF HOLE - 222 FT. ( 0' → 15' = OVERBURDEN )

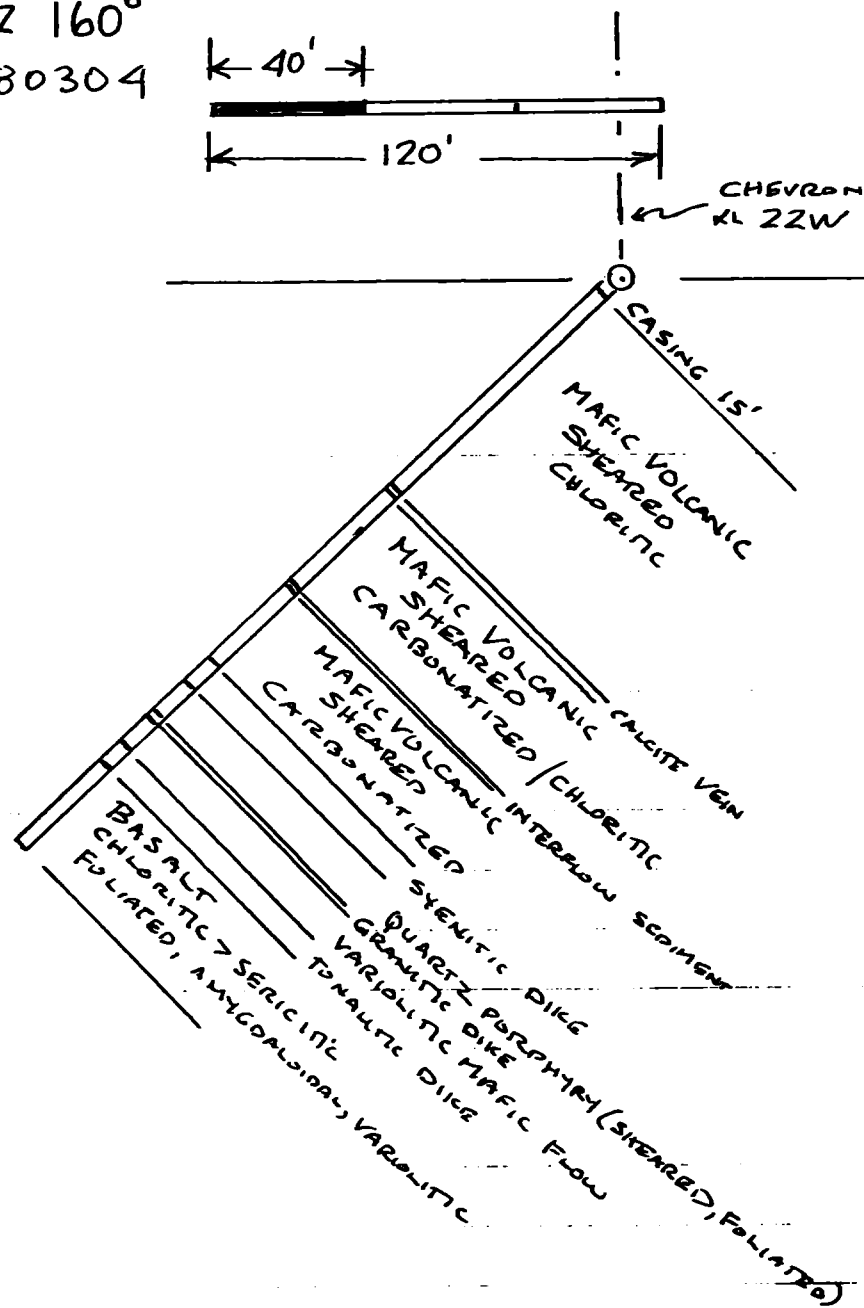
DIRECTION OF HOLE - S20°E ( Az. 160° )

DIP OF HOLE - -45°

CORE φ - 1 3/16"

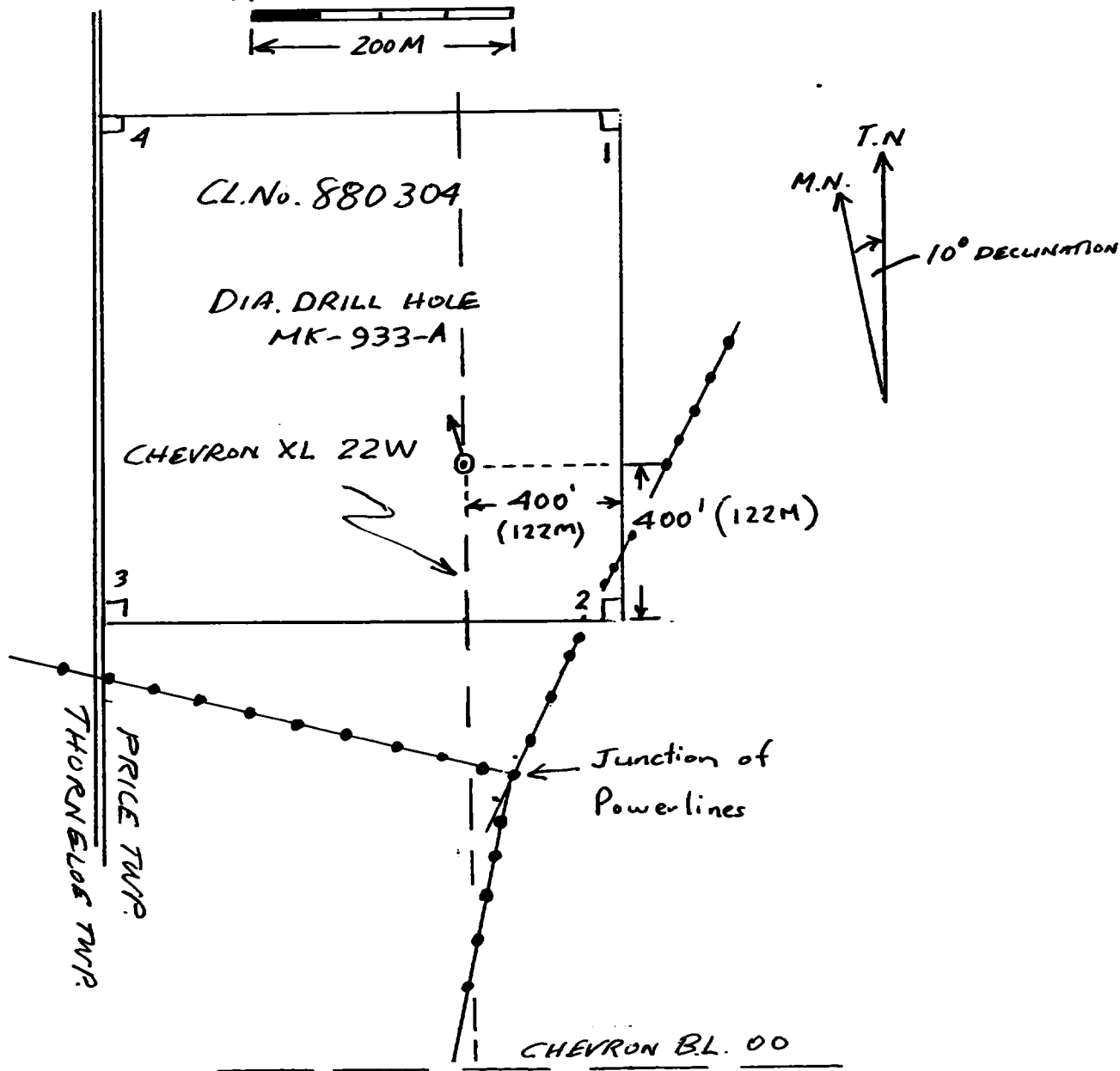
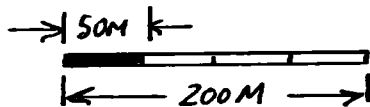
4/8

CROSS SECTION MK-933B FACING W20'S  
DIP - 45° AZ 160°  
CLAIM No. P-880304



# DRILL HOLE PLAN MAP

SCALE: 1CM = 50M



**MK-933-A**

LENGTH OF HOLE - 139.6 FT (0'-17' = OVERBURDEN)

DIRECTION OF HOLE - N 20° W (Az. 340°)

DIP OF HOLE - -45°

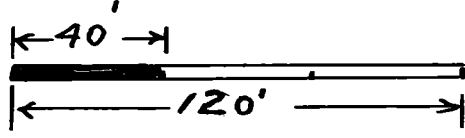
CORE  $\phi$  - 1 3/16"

648

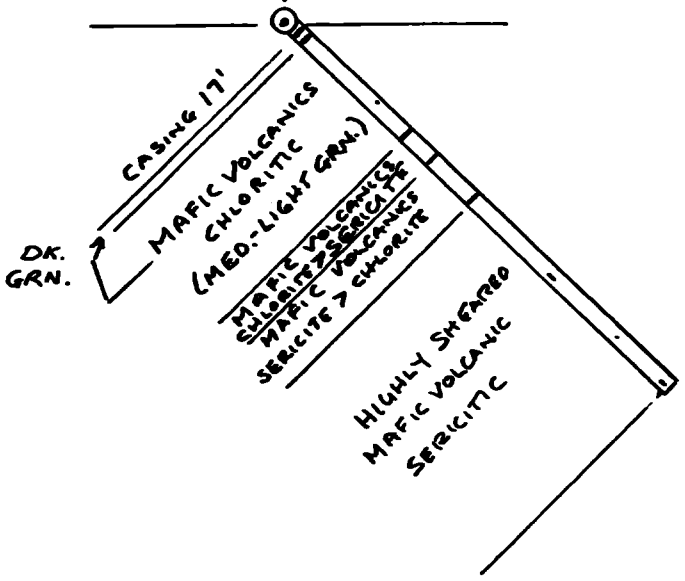
# CROSS SECTION MK-933A FACING W. 20° S.

DIP - 45° Az. 340°

CLAIM No. P-880304



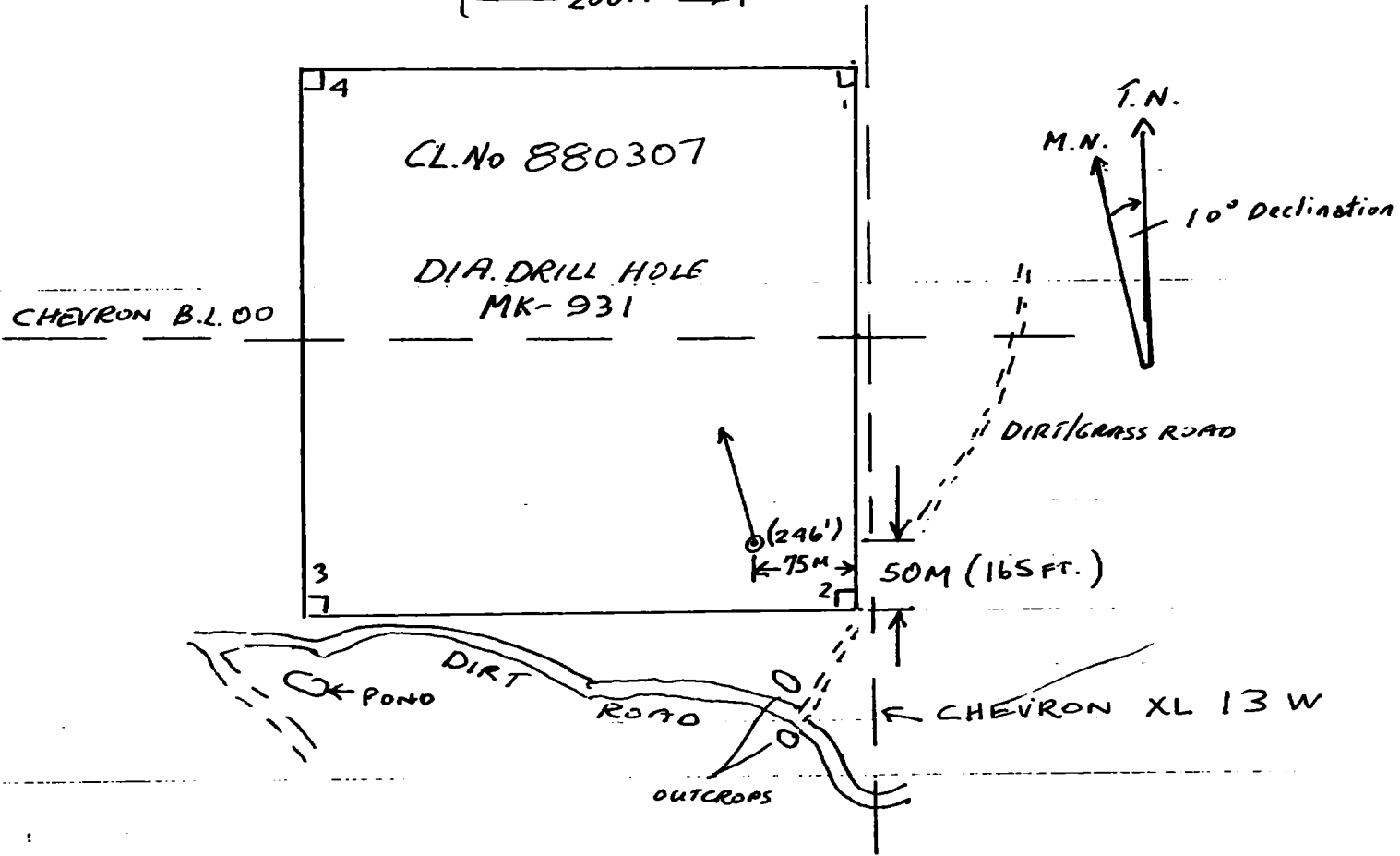
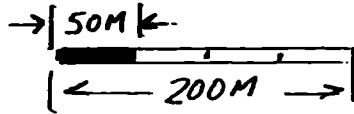
CHEVRON XL. 22W



E.O.H. 139.6

# DRILL HOLE PLAN MAP

SCALE: 1CM = 50M



**MK-931**

LENGTH OF HOLE - 412 FT (0'-85' = OVERBURDEN)

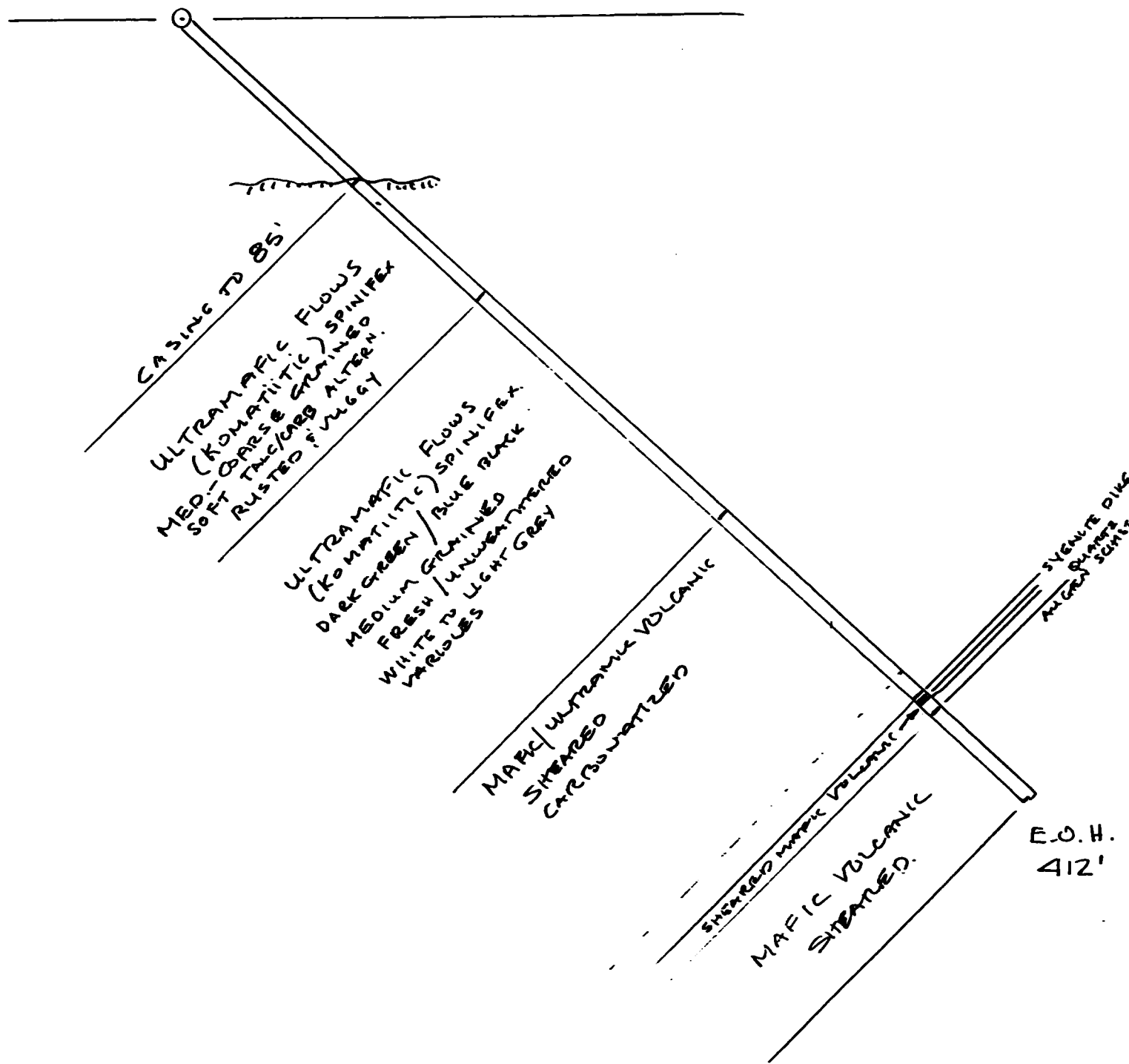
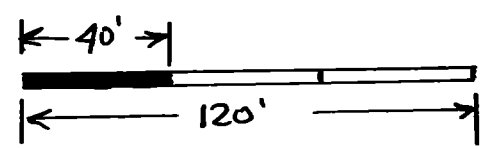
DIRECTION OF HOLE - N 20°W (Az-340°)

DIP OF HOLE - 45°

CORE  $\phi$  - 1 3/16"

SJS

CROSS SECTION MK-931 FACING W20°S  
DIP -45° A2 340°  
CLAIM No. P-880307





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Assaying - Consulting - Representation

Page 1 of 3

3W-1852-RA1

## Assay Certificate

Company: **MATTI KANGAS**

Date: JUN-24-93

Project:

Attn: J Croxall

We hereby certify the following Assay of 67 SAWN CORE samples submitted JUN-21-93 by J Croxall.

Sample Number	Au g/tonne	Au oz/ton	Au Ck g/tonne	Au Ck oz/ton
401	NIL			
402	NIL			
403	0.01	.001		
404	0.02	.001	0.01	.001
405	0.01	.001		
406	NIL			
407	NIL			
408	NIL			
409	NIL			
410	NIL			
411	NIL			
412	NIL			
413	NIL			
414	NIL			
415	NIL			
416	NIL			
417	NIL			
418	NIL			
419	NIL			
420	0.02	.001		
421	0.02	.001		
422	0.22	.006	0.21	.006
423	NIL			
424	NIL			
425	NIL			
426	NIL			
427 NOT RECEIVED				
428	0.01	.001	0.01	.001
429	NIL			
430	NIL			

Certified by Denis Chantre



Established 1928

# Swastika Laboratories

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Assaying - Consulting - Representation

Page 2 of 3

3W-1852-RA1

## Assay Certificate

Company: **MATTI KANGAS**  
Project:  
Attn: **J Croxall**

Date: JUN-24-93

We hereby certify the following Assay of 67 SAWN CORE samples submitted JUN-21-93 by J Croxall.

Sample Number	Au g/tonne	Au oz/ton	Au Ck g/tonne	Au Ck oz/ton
431	0.01	.001		
432	0.01	.001	0.02	.001
433	NIL			
434	0.01	.001		
435	0.02	.001		
436	NIL			
437	NIL			
438	0.01	.001		
439	NIL			
440	NIL			
441	NIL			
442	NIL			
443	0.01	.001		
444	NIL			
445	NIL			
446	NIL			
447	NIL		NIL	
448	NIL			
449	NIL			
450	NIL			
451	NIL			
452	NIL			
453	NIL			
454	NIL			
455	NIL			
456	NIL			
457	NIL			
458	NIL			
459	NIL			
460	0.31	.009	0.32	.009

Certified by *Demi Chante*





Established 1928

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Assaying - Consulting - Representation

Page 3 of 3

3W-1852-RA1

Date: JUN-24-93

## Assay Certificate

Company: **MATTI KANGAS**  
Project:  
Attn: **J Croxall**

We hereby certify the following Assay of 67 SAWN CORE samples submitted JUN-21-93 by J Croxall.

Sample Number	Au g/tonne	Au oz/ton	Au Ck g/tonne	Au Ck oz/ton
461	NIL			
462	NIL			
463	0.01	.001		
464	0.02	.001		
465	NIL			
466	NIL			
467	NIL		NIL	
468	NIL			

Certified by Denis Chantre

1/2 (M 305)

# PROJECT AREA



Ogden Twp. (M. 305)

File 13543  
Dec 10 1972

4M 3M

P	100001
P	100002
P	100003
P	100004

Original Map No. 100001

F1

F2

BRISTOL TV

10

5360000M

90

80

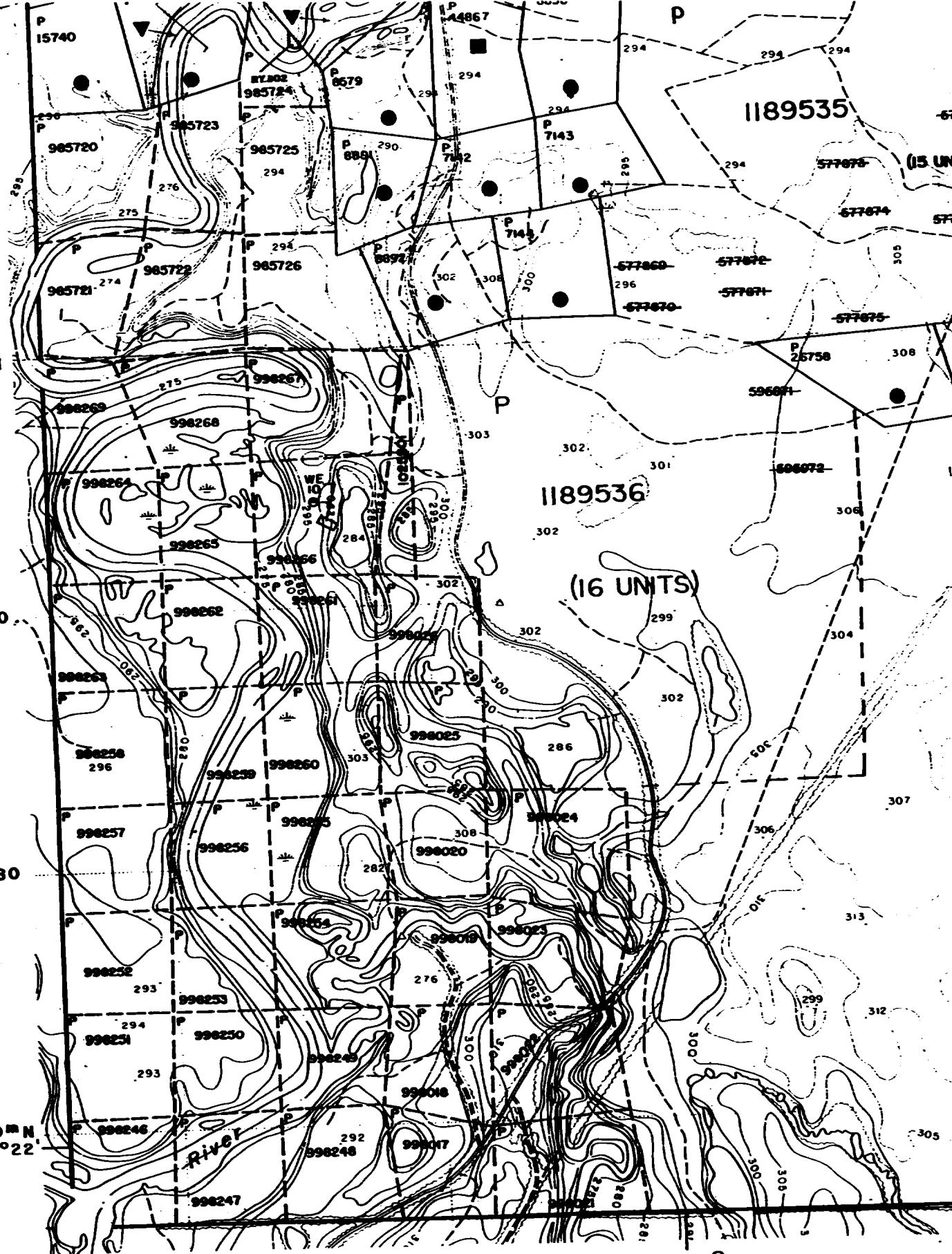
535700M  
48°22'

4660000M

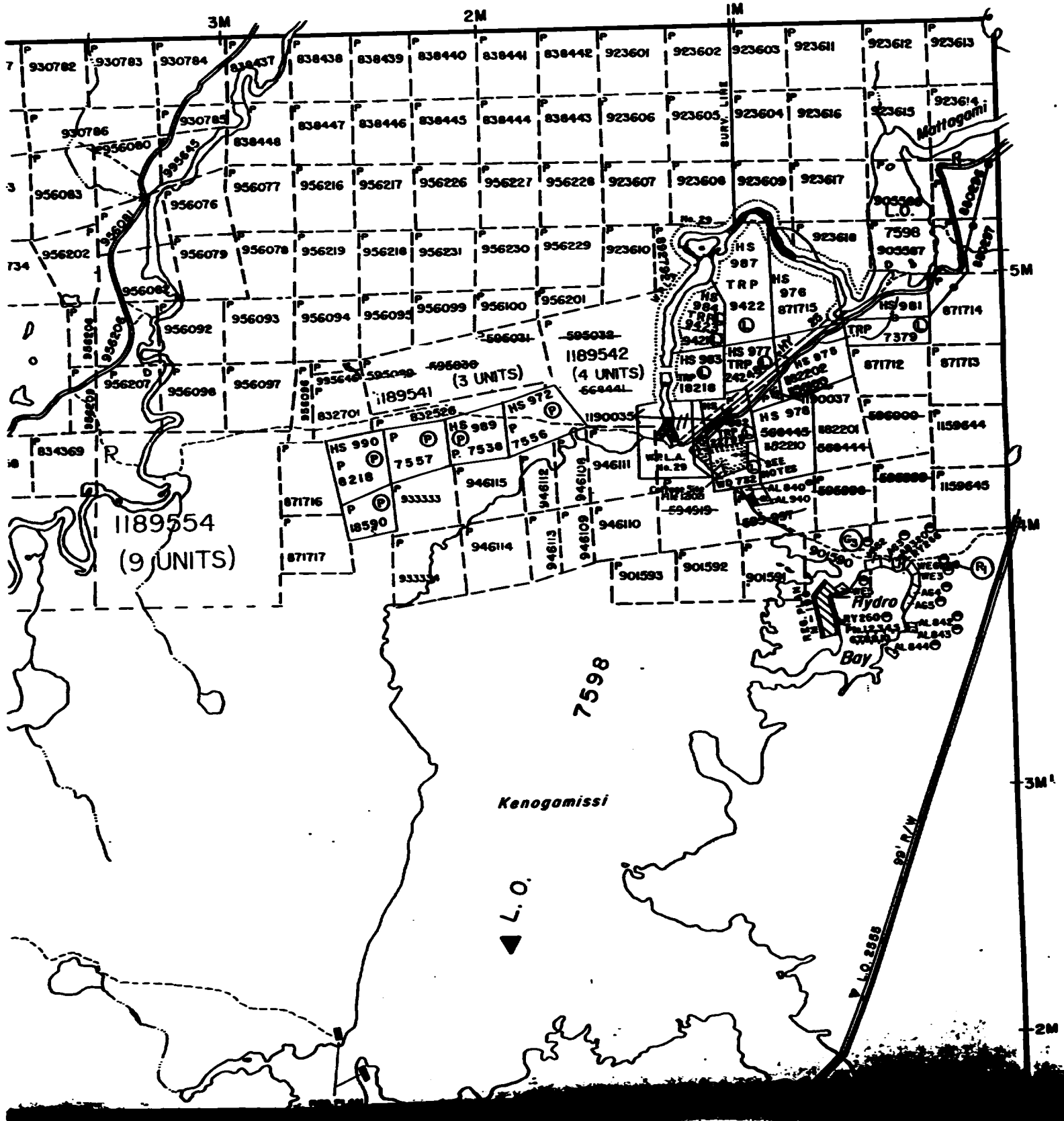
70

61026

80



# Bristol Twp.





THE MINING ACT - MINISTRY OF NATURAL RESOURCES  
DIAMOND DRILLING LOG

Start a new page for every new portion of form only on first page

42A068W0011 0993-602 PRICE

- IN ON RY PAGE  
020  
PRICE TWP.  
HOLE NO. MK-931  
PAGE NO. 1

DRILLING COMPANY SPRINTA (L. SAUB) DRILLING	DATE HOLES STARTED JUNE 1993	DATE COMPLETED JUNE 10 1993	ELEVATION JULY 3/93	PLANNING OF HOLE N 20° W	TOTAL FOOTAGE 412 FT.	DIP OF H.C. 1 3/4°	COLLAR JULY 12/93	LOGGED BY T.K. O'CONNOR	FIXED POINT ON THE CLAIM A2 340°	LOCATION (Twp., Lot, Con. OR Lot. and Long.) PRICE TWP.
EXPLORATION CO., OWNER OR OPTIONEE MATTI KANGAS & JIM CROXALL	DATE SUBMITTED JULY 12/93	LOGGED BY (Signature) Matti Kangas	LOGGED BY (Signature) T.K. O'CONNOR	PROPERTY NAME KANGAS-CROXALL PARTY.	INCE NO.	CLAIM NO. P-880307	ASSAYS + AU			

FOOTAGE FROM TO	ROCK TYPE	DESCRIPTION Colour, grain size, texture, minerals, alteration, etc.	PLANAR FEATURE ANGLE	CORE SPECIMEN FOOTAGE +	YOUR SAMPLE NUMBER	SAMPLE FOOTAGE FROM TO	SAMPLE LENGTH	02/7 ASSAYS +
0 TO 85'	OVERBURDEN	NO CORE						
85' TO 146.5'	ULTRAMAFIC KOMATIITIC FLOWS	MEDIUM TO COARSE GRAINED, VERY SOFT TO GREASY RUSTED ORANGE, UGGY TALC/CARBONATE ALTERED ULTRAMAFIC WITH SPINIFEX TEXTURES - PERIODIC 'FESHER' UNWEATHERED SECTIONS. - MODERATE AMPHIBOLIC ALTERATION WITH RARE CALCITE ALTERATION AROUND CALCITE + CHLORITE +/- TRONCARNITE VEINS			437	86.0 87.0	1.0'	NIL
		SPINIFEX TEXTURES FINING. DOWNHOLE = FINE TO RS DOWNHOLE @ 101.3'; 102.2'; 102.9'; 103.6' → 105						
		@ 133.8' → ASSOCIATED SPINIFEX FRAGMENTS WITH SERPENTINE MATRIX (FIBROUS REASSOCIATED)						
		136.2' → 138.9' - SPINIFEX FINING DOWNHOLE						
146.5 TO 260.6'	ULTRAMAFIC KOMATIITIC FLOWS	"FRESH" / UNWEATHERED DARK GREENISH TO BLUE-BLACK TALC / CARBONATE ALTERED SPINIFEX TO MEDIUM-GRAINED ULTRAMAFIC WITH WHITE TO LIGHTER GREY VARIOLAS			438 439 440 441	158.0 205.0 215.0 258.4	1.0' 1.5' 1.7' 3.0'	0.001 NIL NIL NIL
		@ 148.5' → 151' - CARB. VEIN WITH CHLORITE & GREEN SERPENTINE (SOAPSTONE) AT IN/CONTACT TO TALC / CARBONATE SPINIFEX FINING DOWNHOLE TO FINELY LAMINATED FOR LARGE SPINIFEX CRYSTAL ALIGNMENT FLOW @ 25° CORE AXIS						
		@ 153.2' → 158.6' - FRACTURE RUNNING PARALLEL TO THE CORE-AXIS INFILLED BY SHORT FIBRE ASBESTOS GRAIN PERPENDICULAR TO FRACTURES						

\* Additional credit available. See Assessment Work Regulations.



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. MK-931  
PAGE NO. 2

DRILLING COMPANY SPARTA (L. SALO) DRILLING	DATE HOLE STARTED JUNE 6/93	DATE COMPLETED JUNE 10/93	DATE LOGGED JULY 3/93	DATE SUBMITTED	LOGGED BY T.K. O'CONNOR	SUBMITTED BY (Signature)	PROPERTY NAME CROYAC - KANIGAS PRY
EXPLORATION CO., OWNER OR OPTIONEE	ELEVATION 412		PERMITS OF HOLDING FROM THE NORTH N20°W	TOTAL FOOTAGE 412	DIP OF HOLE AT 13° dip collar - 45°	LOCATION OF HOLE IN RELATION TO A FIXED POINT ON THE CLAIM A 2 340°	
MAP REFERENCE NO.		LOCATION (Twp., Lot, Con. OR Lot, and Leng.) PRICE TWP.		PROPERTY NAME CROYAC - KANIGAS PRY			

FOOTAGE FROM TO	ROCK TYPE	DESCRIPTION Colour, grain size, texture, minerals, alteration, etc.	PLANAR FEATURE ANGLE	CORE SPECIMEN FOOTAGE +	YOUR SAMPLE NUMBER	SAMPLE FOOTAGE		SAMPLE LENGTH	ASSAYS +
						FROM	TO		
146.5	260.6	ULTRAMAFIC KOMATIITIC FLOWS (CONTINUED)							
		@ 158.8 -> 159.3' - SPINIFEX FINING DOWNHOLE TO RECCAIATED FLOW TOP							
		@ 160.1' -> 1.2 cm CARBONATE + CHLORITE AXIS							
		@ 165.2' -> 1.3 cm CARBONATE + CHLORITE VEIN @ 35° TO CORE AXIS							
		@ 176.6 -> 178' - SPINIFEX FINING DOWNHOLE WITH 5mm CHLORITE VEIN @ OMT / CONTACT							
		@ 180' -> CHLORITE VEIN @ IN/CONTACT TO 20 cm MEDIUM GRAINED SPINIFEX SECTION							
		@ 185.2' -> 190.8' - 10 cm CHLORITE BAND WITH THIN ANKERITE STRINGS AT IN/CONTACT TO MEDIUM GRAINED RECCAIATED "PILLOVED" MATT WITH GRADED PILLOW SELVAGES <i>ULTRAMAFIC MATT: CARBONATE SPINIFEX</i>							
		@ 190.8' -> 193.3' - DOUBLY GRADED SPINIFEX SECTION WITH MEDIUM TO COARSE GRAINED SPINIFEX, FINING DOWNHOLE							
		@ 193.3' -> 194.4' - RECCAIATED FLOW TOP							
		@ 194.4' -> 205.2' - MASSIVE MEDIUM GRAINED ULTRAMAFIC WHICH IS VOLCANIC, PILLOVED & RECCAIATED IN PLACES							

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

+ Additional credit available. See Assessment Work Regulations.



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

DRILLING COMPANY SPARTEL (L.S.M.L.O) DRILLING	ELEVATION	BEARING OF HOLE N 20° W	TOTAL FOOTAGE 412	DIP OF HOLE AT 1 3/16" collar - 45°	LOCATION OF HOLE IN RELATION TO A FIXED POINT ON THE CLAIM A 2 = 340°	MAP REFERENCE NO. PRICE TWP.	PROPERTY NAME KINGAS - CROWELL PPTY.
DATE HOLE STARTED JUNE 6/93	DATE COMPLETED JUNE 10/93	DATE LOGGED JULY 3/93	LOGGED BY T.K. O'CONNOR				
EXPLORATION CD., OWNER OR OPTIONEE	DATE SUBMITTED	SUBMITTED BY (Signature)					

FOOTAGE FROM TO	ROCK TYPE	DESCRIPTION Colour, grain size, texture, minerals, alteration, etc.	PLANAR FEATURE AREL *	CORE SPECIMEN FOOTAGE +	YOUR SAMPLE NUMBER	SAMPLE FOOTAGE		SAMPLE LENGTH	ASSAYS +
						FROM	TO		
146.5	260.6' ULTRAMAFIC	EDMUNDITIC FLOWS (CONT'D)							
		MINOR CALCITE + 15% CHLORITE @ 30° CLASIS & DIT/CONTACT @ 25° TO CORE AXIS (COPPOSITE SENSE)							
		207.4 → 207.7 - 2 CIRCULAR AREAS (LARGEST 20.8cm) OF QUARTZ + PYRRHOTITE +/- CHALCOPHYLITE							
		208.3 → ACCUMULATION OF CREAMY PINKISH-BROWN COARSED SULPHIDE THAT IS NON-MAGNETIC YET <del>MINOR</del> METALLIC (ALTERED PYLITE OR NICKEL SULPHIDE?) ALONG A CARBONATE +/- QUARTZ - FILLED FRACTURE							
		208.5' → 209.2' - SAME AS ABOVE WITHIN 15cm FRACTURED CARBONATE VEIN WITH RUSTY & VUGGY FRACTURES DUE TO GROUNDWATER INFILTRATION.							
		214.8 → 217' - 2.5cm VEIN OF CARBONATE + GREEN TOURMALINE + MINOR QUARTZ AT IN/CONTACT TO ULTRAMAFICS WITH 3-5% DISPERSED PYLITE							
		235.7 → 244' - SECTION OF DIFFERENT COLOURED ULTRAMAFIC; ALTERATION IS MORE DARK BROWNISH TO YELLOWISH GREEN (KHARKE) CHLORITE-DOMINANT. POSSIBLY DUE TO SLIGHT INCREASE IN SERICITE CONTENT OR COULD BE DUE TO AN OLD RUSTY DRILL ROD AFFECTING CORE COLOUR (THIS SECTION IS ~10 FEET OF CORE WITH IDENTICAL TEXTURES - JUST DIFFERENT COLOUR)							

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

+ Additional credit available. See Assessment Work Regulations.



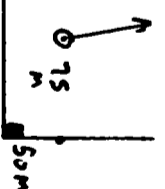
Start a new page for every new hole, but fill in top portion of form only on first page for each hole.

DIAMOND DRILLING LOG

DRILLING COMPANY SPARTA (S&P) DRILLING  
DATE HOLE STARTED JUNE 6 1993 DATE COMPLETED JUNE 10 1993  
ELEVATION FROM TRUE NORTH N 20° W 412'  
DIP OF HOLE AT 13° 46' collar - 45°  
EXPLORATION CO., OWNER OR OPTIONEE DATE LOGGED JULY 31 1997 LOGGED BY T.K. O'CONNOR  
DATE SUBMITTED DATE SUBMITTED BY (SIGNATURE)

LOCATION OF HOLE IN RELATION TO A FIXED POINT ON THE CLAIM  
PROPERTY NAME KNOX GATE - CRYSTAL PROPERTY.  
LOCATION (Twp., Loc., Con. OR Lot, and Long) PRICE TWP.

FOOTAGE FROM TO	ROCK TYPE	DESCRIPTION Colour, grain size, texture, minerals, alteration, etc.	PLUMMER FEATURE MELE	CORE SPECIMEN FOOTAGE +	YOUR SAMPLE NUMBER	SAMPLE FOOTAGE		SAMPLE LENGTH	0217 / ASSAYS + RW
						FROM	TO		
260.6	359.2	SHEARED CARBONATED MATIC VOLCANIC VOLCANIC FINE GRAINED MEDIUM GREEN CHLORITIC BANDS WITH LIGHT GREY (CALCITE) BANDS THAT ARE OVERALL PLAIN BUT HAVE BEEN SUITED TO LAKES & SMALL SCABS (CHEVONS) ENDING. * UP TO 30% PYRITE IN LOCALIZED SECTIONS CORRESPONDING TO AREAS OF SILICA INFUS AS QUARTZ - VEINS + VEINETS AND GREATER SERICITIC ALTERATION - BANDING PROXIMAL TO THE IN/CONTACT IS ERODED AND RUNS CRUDELY PARALLEL TO THE CORE AXIS @ 15° TO CORE AXIS @ 319.2 -> 324.4 - HARDER MORE SILICIFIED BROWNISH DYKE WITH LARGE 5-8mm PYRITE CUBES (10% OF CORE) & DISSEMINATED FINE GRAINED PYRITE (5%) * DYKE IS MICROCRYSTALLIC IN PLACES * IN/CONTACT & OUT/CONTACT OF DYKE ARE @ ~35° TO CORE AXIS @ 324.4 -> 359.2 - ALTERATING DARK GREEN & WHITE FINE GRAINED CHLORITE (+ MINOR SERICITE) ALTERED + CALCITE CARBONATE ALTERED HIGHLY SHEARED, FOLDED & EQUATED MATIC VOLCANICS WITH A MORE PROMINENT EQUATION ORIENTATION OF 50° TO CORE AXIS * FOLIATION DEFINED BY PINKISH WHITE CALCITE & WHITE QUARTZ VEINS WITH RED CRYSTALS + GREEN TRIDIMORPHIC + 3% DISSEMINATED PYRITE @ 349.7 - EACHSITE ALTERED SECTION ASSOCIATED WITH 3 X 1cm PINK CALCITE + QUARTZ VEINS @ 50° TO CORE AXIS			442	265.6	270.0		NIL
					443	270.0	275.0		0.001
					444	275.0	280.0		NIL
					445	280.0	285.0		NIL
					446	285.0	290.0		NIL
					447	290.0	295.0		NIL
					448	295.0	300.0		NIL
					449	300.0	305.0		NIL
					450	305.0	310.0		NIL
					451	310.0	315.0		NIL
					452	315.0	319.2		NIL
					453	319.2	324.2		NIL
					454	324.2	330.0		NIL
					455	330.0	335.0		NIL
					456	338.1	341.6		NIL
					457	341.6	345.0		NIL
					458	349.5	354.2		NIL



\* For features such as foliation, bedding, schistosity, measured from the long axis of the core.  
+ Additional credit available. See Assessment Work Regulations.





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

DRILLING COMPANY: SPARTA (SRL) DRILLING  
 DATE HOLE STARTED: JUNE 6/93  
 DATE COMPLETED: JUNE 10/93  
 DATE LOGGED: JULY 3/93  
 DATE SUBMITTED: [blank]  
 LOGGED BY: T.K. O'CONNOR  
 SUBMITTED BY (Signature): [blank]

EXPLOURATION CO., OWNER OR OPTIONEE: [blank]

ELEVATION: [blank]  
 DEPTH OF HOLE AT TOTAL FOOTAGE: 412  
 DIP OF HOLE AT 13/16 collar - 45°

LOCATION OF HOLE IN RELATION TO A FIXED POINT ON THE CLAIM: A2 340  
 MAP REFERENCE NO.: [blank]  
 LOCATION (Twp., Lot, Con. OR Lot, and Long): PRICE TWP.

PROPERTY NAME: CARNGERS - GRAYNE PROPERTY.

FOOTAGE FROM TO	ROCK TYPE	DESCRIPTION Colour, grain size, texture, minerals, alteration, etc.	PLANAR FEATURE ANGLE*	CORE SPECIMEN FOOTAGE +	YOUR SAMPLE NUMBER	SAMPLE FOOTAGE		SAMPLE LENGTH	GZF ASSAYS + DW
						FROM	TO		
359.2 - 360.7	SYENITIC DYKE	FOLIATED SYENITE DYKE WITH MAGNETITE STRAGGLES & 5-10% DISSEMINATED PYRITE			459	358.1	362.0		NIL
360.7 - 361.2	HIGHLY SHEARED MAGIC VOLCANIC	UP TO 80% CARBONATE + QUARTZ VEINS & 20-30% CHLORITE + FUCHSITE + <del>pyrite</del> TO 58° CORE AXIS							
361.2 - 368.1	QUARTZ ANGEN SCHIST	HARD SILICIFIED WELL FOLIATED QUARTZ ANGEN SCHIST WITH 5% DISSEMINATED & UP TO 3mm CURBS OF PYRITE * SECTIONS OF BLUE GREY TO BROWNISH HARD MASSIVE SILICIFIED ROCK WITH LATE QUARTZ + ANKERITE VEINS & 15-25% PYRITE.	65°		460 461	362.0 365.4	365.4 368.2		0.009 NIL
368.1 - 412.2 (E.O.H.)	SHEARED MAGIC VOLCANIC	CHLORITIC & SERICITIC (WITH 5% FUCHSITE) ALTERED, SHEARED MAGIC VOLCANIC WITH UP TO 50% CARBONATE + QUARTZ STRAGGLES @ 35° TO CORE AXIS (WITH MINOR ANKERITE)	35°		462 463 464 465 466 467 468	368.2 371.6 375.0 380.0 392.6 395.0 398.6 402.5	371.6 375.0 380.0 395.0 398.6 402.5 404.8	11.8'	NIL 0.001 NIL NIL NIL NIL NIL
		① @ 394.8 -> 398.1 - VARIABLY SHEARED "FRESHER" QUARTZ/ANITE PORPHYRY WITH UP TO 1cm QUARTZ PSEUDOCRYSTALS							
		② @ 399 -> 402.5 - VARIABLY SHEARED QUARTZ BROWNISH <del>PROBABLY</del> RECRYSTALLIZED TO MASSIVE QUARTZ + LARGE (3x5mm) SERICITE CRYSTALS							
		③ @ 403.7' -> 404.3' - SAME AS ①							

\* For features such as foliation, bedding, schistosity, measured from the long axis of the core.  
 + Additional credits available. See Assessment Work Regulations.



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

DRILLING COMPANY <b>SPARTA DRILLING - L. SAALO</b>	DATE HOLE STARTED <b>MAY 30/93</b>	DATE COMPLETED <b>JUNE 3/93</b>	DATE LOGGED <b>JUNE 22/93</b>	DATE SUBMITTED <b>JULY 12/93</b>	LOGGED BY <b>T. K. O'CONNOR</b>	SUBMITTED BY (Signature) <i>Matti Kangas</i>	
EXPLORATION CO., OWNER OR OPTIONEE <b>MATTI KANGAS &amp; J. CROXALL</b>	PROVIDE OF HOLE FROM TRUE NORTH <b>N 20° W</b>	TOTAL FOOTAGE <b>139.6 FT</b>	DIP OF HOLE AT 1 1/2" DIAMETER <b>-45°</b>	LOCATION OF HOLE IN RELATION TO A FIXED POINT ON THE CLAIM <b>A2. 340°</b>			MAP REFERENCE NO. <b>PRICE TWP.</b>
PROPERTY NAME <b>KANGAS-CROXALL PROPERTY</b>			HOLE NO. <b>MK-933-A</b>		PAGE NO. <b>1</b>		

FOOTAGE FROM TO	ROCK TYPE	DESCRIPTION	PLUMMER FEATURE ANGLE	CORE SPECIMEN FOOTAGE +	TOWN SAMPLE NUMBER	SAMPLE FOOTAGE FROM TO	SAMPLE LENGTH	AU ASSAYS +
0 TO 17'	<b>OVERBURDEN</b>	(TRUE DEPTH OF DIA - 12 FT.) Colour, grain size, texture, minerals, alteration, etc.						
17' TO 31.9'	<b>MAFIC VOLCANIC (CHLORITIC) ALTERATION</b>	DARK TO MEDIUM GREEN; SOFT; FINE GRAINED MAFIC VOLCANICS WITH VARIABLY SPACED FOLIATION PLAVES @ 30° TO CORE AXIS - LOCAL NARROW AREAS WITH MINOR VARIETIES/LAMINAE ELONGATED PARALLEL TO FOLIATION - SMALL SCALE FOLDING OF FOLIATION PLAVES IS EVIDENT - ALTERATION IS DOMINANTLY CHLORITIC WITH LESSER ANKERITIC AND SERICITIC ALTERATION LOCALLY - MINOR CALCITE AS TWIN, CLOSELY SPACED NEEDLES PARALLEL TO AS WELL AS DEFINING THE FOLIATION - TRACE DISSEMINATED PYRITE AS SMALL ANKERAL CRYSTALS @ 26.2 - 7mm → 1.0cm GREY QUARTZ VENEER ASSOCIATED WITH A SERIES OF WHITE ANKERITE VEINS WITHIN A LOCALIZED ZONE OF SERICITE DOMINATED ALTERATION RUSTY & WAGGY CORE DUE TO GROUNDWATER LEACHING OF FERROXYDRATE + PYRITE @ 21'; 26'; 30.1'; 31.9'	30°					
31.9' TO 46.7'	<b>MAFIC VOLCANIC (CHLORITIC) ALTERATION</b>	MEDIUM TO LIGHT GREEN; SOFT; MEDIUM GRAINED MAFIC VOLCANIC ROCK WITH WEAKER FOLIATION & PROMINENTLY CHLORITIC ALTERATION - 1% PYRITE AS UP TO 3mm CUBES + DISSEMINATED AS ABOVE						
46.7' TO 35.5'	<b>MAFIC VOLCANIC (CHLORITIC) ALTERATION</b>	③5.5' - ROTATED + SHEARED PYRITE CLUSTERS WITH ORANGE ANKERITE PRESSURE SHADOWS PYRITE + PRESSURE SHADOW DOWNHOLE FOLIATION AT 65° TO CORE AXIS						
401 TO 402					401	33.2 TO 40.1	3.3 TO 5.8	NIL

\* NOTE: DIAGRAM NOT TO SCALE



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

DRILLING COMPANY <b>SPARTA DRILLING - L. SMOLO</b>	DATE HOLE STARTED <b>MAY 30/93</b>	DATE COMPLETED <b>JUNE 3/93</b>	DATE LOGGED <b>JUNE 22/93</b>	DATE SUBMITTED <b>T. K. O'CONNOR</b>	LOGGED BY <b>T. K. O'CONNOR</b>	SUBMITTED BY (Signature)	PROPERTY NAME <b>KANIGAS - CROKALL PROPERTY</b>
EXPLORATION CO., OWNER OR OPTIONEE <b>MATTI KANIGAS &amp; JIM CROKALL</b>	ELEVATION <b>139.6m</b>		DIP OF HOLE AT <b>1 1/2° dip collector - 45°</b>		LOCATION OF HOLE IN RELATION TO A FIXED POINT ON THE CLAIM <b>A 2. 340°</b>		
TOTAL FOOTAGE <b>139.6m</b>		MAP REFERENCE NO. <b>PRICE TWP.</b>		LOCATION (T.P., Lot, Con. OR Lot, and Long.)		FILL IN ON EVERY PAGE EVERY PAGE MAP REFERENCE NO. CLAIM NO. HOLE NO. PAGE NO.	
HOLE NO. <b>MK-993-A</b>		CLAIM NO. <b>P-880504</b>		HOLE NO. <b>MK-993-A</b>		PAGE NO. <b>2</b>	

FOOTAGE FROM TO	ROCK TYPE	DESCRIPTION Colour, grain size, texture, minerals, alteration, etc.	PLUMMER FEATURE AMBLE	CONC SPECIMEN FOOTAGE +	YOUR SAMPLE NUMBER	SAMPLE FOOTAGE FROM TO	SAMPLE LENGTH	ASSAYS + G/T
31.9	46.7	(CONTINUED)						
		① 39' → 41' ZONE OF FOLDED & FRACTURED MAFIC VOLCANIC ROCK WHERE CALCITE GASH VEINS ARE NOW PRESENT						
		② 44' → 45' PASTURES OF PEACH COLOURED MICRO-PHENOCLASTS WITH RHOMBIC CRYSTAL SHAPE (LEUCOXEN?) THAT ARE PREFERENTIALLY DISTRIBUTED PARALLEL TO FOLIATION						
46.7	54.4	MAFIC VOLCANIC (CHLORITIC SERICITIC) ALTERATION			403	47.0	51.9	4.9
		- CONTACT MAKES THE FIRST APPEARANCE OF BUFF GREY/BEIGE; HARDER; MAFIC VOLCANIC DOMINATED BY SERICITIC ALTERATION & MILD SILICIFICATION. THESE AREAS HAVE ASSOCIATED QUARTZ - CARBONATE-PHYLITE STRIPPER VEINLET WITH LOCALLY UP TO 15% PHYLITE			404	51.9	56.8	4.9
		- THE ABOVE ROCK ALTERATES WITH LARGE AREAS OF SOFT; GREENISH GREY MAFIC VOLCANIC ROCK (AS BEFORE) WITH CHLORITIC & LESTER SERICITIC ALTERATION AND ~ 1% DISSEMINATED PHYLITE.						
		③ 47.7' → 49.3' - ZONE OF SHEARED; RECCAIATED AND BOUNDARIED (SEGMENTED) ANKERSITIC VEINLETS WITH ANASTOMOSING SERICITE FOLIATIONS THAT ARE LOCALLY FOLDED. QUARTZ ENTERS THIS VEIN SYSTEM LATER AS MATRIX TO CARBONATE FRAGMENTS IN ASSOCIATED VEINLETS						
		④ 52.7' → 53.3' AREA OF SHEARED CARBONATE + OR VEINING WITH CHLORITIC - FUCHSITIC - SERICITIC CRACK-SEAL FEATURES						
* NOTE: THE ABUNDANCE & SIZE OF SERICITIC ALTERED SECTIONS OF CORE INCREASE DOWNHOLE; THE AMOUNT & INTENSITY OF "SHEARINGS" INCREASES DOWNHOLE								



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

DRILLING COMPANY: SPARSA DRILLING - L. SALO  
DATE HOLE STARTED: MAY 30/93  
DATE COMPLETED: JUNE 3/93  
EXPLORATION CO., OWNER OR OPTIONEE: M. KANGAS & J. CROFTALL

COLLAR ELEVATION: 1208 W  
DATE LOGGED: JUNE 22/93  
DATE SUBMITTED: T.K. O'CONNOR  
LOGGED BY: T.K. O'CONNOR  
SUBMITTED BY (Signature):

BEARING OF HOLE FROM TRUE NORTH: N20°W  
TOTAL FOOTAGE: 139.6 FT  
DIP OF HOLE AT COLLAR: 1 3/4° φ  
DIP OF HOLE AT: -45°

LOCATION OF HOLE IN RELATION TO A FIXED POINT ON THE CLAIM: A.z. 340°

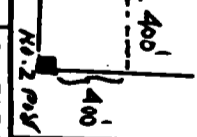
MAP REFERENCE NO.: PRICE TWP.

PROPERTY NAME: KANGAS-CROFTALL PROPERTY

LOCATION (Twp., Lot, Con. OR Lot. and Long.):

FOOTAGE FROM TO	ROCK TYPE	DESCRIPTION Colour, grain size, texture, minerals, alteration, etc.	PLANAR FRACTURE AREAS	CORE SPECIMEN POSITION #	YOUR SAMPLE NUMBER	SAMPLE FOOTAGE		SAMPLE LENGTH	ASSAYS + OZ/T
						FROM	TO		
54.4'	68.3'	MAFIC VOLCANIC (SERICITIC ALTERATION)			405	56.8	61.8	5.0	0.001
		CONTACT REVEALS JOINT WHERE HARDER BUFF GREY SERICITIC ALTERATION DOMINATES OVER MUCH LESS ABUNDANT CHLORITE ALTERED MAFIC VOLCANIC ROCKS			406	61.8	67.0	5.2	NIL
		- 2-3% DISSEMINATED PYRITE ASSOCIATED WITH BUFF SERICITE ALTERED ROCK			407	68.0	71.0	3.0	NIL
		- PYRITE ALSO AS BLEB-LIKE CRYSTALS & CRYSTAL AGGREGATES DISTRIBUTED PREFERENTIALLY PARALLEL TO FOLIATION WHERE QUARTZ - CARBOVATE VESICLES & SHEARS ARE MOST INTENSE							
		@ 54.4' -> 55.8' - SMALL 2/mm CRYSTALS OF MAGNETITE IN BUFF, SERICITE + Fe-RICH AREA							
		* CORE IS BOTH MAGNETIC & RESISTERS INTENSE MAGNETIC SUSCEPTIBILITY READINGS UP TO 1700 SI UNITS (X10 <sup>-3</sup> ) ON METER							
68.3'	139.6'	HIGHLY SHEARED MAFIC VOLCANIC (SERICITIC ALTERATION)			408	77.0	80.5	3.5	NIL
		INTERMEDIATE TO MAFIC VOLCANIC THAT IS EITHER HIGHLY SHEARED OR TUFFACEOUS			409	84.3	87.0	2.7	NIL
		FOLIATION IS AT 62° TO THE CORE AXIS	62°		410	87.0	90.2	3.2	NIL
		- CONTACT @ 68.3' IS MARKED BY A 19CM QUARTZ CARBOVATE (ANKERITE) VEIN WITH SERICITIC CORE-SPAL TEXTURES - IN/CONTACT IS @ 87° TO CORE AXIS			411	94.7	99.9	5.2	NIL
		- OUT/CONTACT IS @ 78-80° TO CORE AXIS			412	99.9	105.1	5.2	NIL
		- PROMINENTLY DISPLAYED TIGHT FOLDING OF THE SERICITE ALTERED ROCK & QUARTZ-ANKERITE VESICLES REVEALS THAT THIS ROCK HAS BEEN SUBJECTED TO DUCTILE (PSEUDO-PLASTIC) DEFORMATION			413	105.1	110.2	5.1	NIL
					414	110.2	115.4	5.2	NIL
					415	115.4	120.4	5.0	NIL
					416	120.4	125.4	5.0	NIL
					417	125.4	129.0	3.6	NIL
					418	129.0	133.0	3.0	NIL
					419	134.7	139.6	4.9	NIL

- THIS ROCK CONSISTS OF ALTERNATING BANDS OF:  
 ① LIGHT SERICITIC ALTERATION ② THICK CHLORITIC ALTERATION  
 ③ QUARTZ-ANKERITE-RICH AREAS WITH A FINELY LAMINATED/TIGHTLY SPACED FOLIATION





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

DRILLING COMPANY SPARTEA DRILLING - L. SALO	DATE HOLE STARTED MAY 30 1993	DATE COMPLETED JUNE 3 1993	DATE LOGGED JUNE 22 1993	LOGGED BY T.K. O'CONNOR	PROPERTY NAME KANGAS - CROXALL PROPERTY
EXPLORATION CO., OWNER OR OPTIONEE M. KANGAS & J. CROXALL	DATE SUBMITTED	SUBMITTED BY (Signature)	LOCATION OF HOLE IN RELATION TO A FIXED POINT ON THE CLAIM A. Z. 340°	MAP REFERENCE NO.	LOCATION (Twp., Lot, Con. OR Lot. and Long.) PRICE TWP
DRILLING COMPANY	DATE HOLE STARTED	DATE COMPLETED	DATE LOGGED	LOGGED BY	PROPERTY NAME
SPARTEA DRILLING - L. SALO	MAY 30 1993	JUNE 3 1993	JUNE 22 1993	T.K. O'CONNOR	KANGAS - CROXALL PROPERTY
EXPLORATION CO., OWNER OR OPTIONEE	DATE SUBMITTED	SUBMITTED BY (Signature)	LOCATION OF HOLE IN RELATION TO A FIXED POINT ON THE CLAIM	MAP REFERENCE NO.	LOCATION (Twp., Lot, Con. OR Lot. and Long.)
M. KANGAS & J. CROXALL			A. Z. 340°		PRICE TWP

FOOTAGE FROM TO	ROCK TYPE	DESCRIPTION Colour, grain size, texture, mineral, alteration, etc.	PLANAR FEATURE METER	SORE SPECIMEN FOOTAGE	YOUNG SAMPLE NUMBER	SAMPLE FOOTAGE FROM TO	SAMPLE LENGTH	AV ASSAYS + OBT
68.7' - 139.6'	(CONTINUED)	@75.0' - 76.0' - 30 cm QUARTZ WITH MINOR AMBERITE VEIN		NOTE 2	401-412	33.2	139.6	
		THAT IS FRACTURED WITH SERICITE OCCUPYING THE FRACTURES						
		@84.6' - 85.1' - GREY-WHITE QUARTZ VEIN WITH LOCALLY UP TO 30% REPLICATED AMBERITE CRYSTALS						
		- SMALL SCALE "CHEVRON" FOLDING APPROXIMATELY WITH WALL ROCK S <sub>1</sub> FOLIATION ~ 40° TO CORE AXIS						
		S <sub>2</sub> = CLEAVAGE (AXIAL PLANE) TO FOLDING = PERPENDICULAR TO THE FOLIATION						
		PYRITE INCREASES TO 5% DISSEMINATED CRYSTALS & AS THIN FOLDED BANDS PARALLEL TO FOLIATION S <sub>1</sub>						
		@91.7' - 2-4cm QUARTZ VEIN IN/CONTACT @70° TO CORE AXIS; OUT/CONTACT IS 120° TO CORE AXIS						
		<del>QUARTZ</del> QUARTZ → DOWN HOLE						
		* FOLIATION WRAPS AROUND THE QUARTZ VEIN. THIS IMPLIES THAT S <sub>1</sub> IS INDEXED A TECTONIC FABRIC NOT PRIMARY TUBEFACIOUS BEDDING.						
		@112' - 112' - WHITE QUARTZ VEIN WITH 5-10% AMBERITE CRYSTALS IN/CONTACT & OUT/CONTACT @77° TO CORE AXIS						
		@113.6' - THIN VENUST OF STRAINED CHALCOPHYRITE PARALLEL TO FOLIATION PLACES CRYSTAL						
		@118.3' - 2mm x 4mm CHALCOPHYRITE CRYSTALS IN/CONTACT & OUT/CONTACT @77° TO CORE AXIS						
		VENUST 2mm WIDE - FOLIATION IS 85° TO CORE AXIS - VENUST IS 58° TO CORE AXIS						
		@125.6' - MASSIVE STRIPES OF CHALCOPHYRITE PARALLEL TO FOLIATION						
		@126.7' - CONCENTRATION OF CHALCOPHYRITE ALONG A FOLDED FOLIATION PLANE						
		@128.9' - CONCENTRATION OF CHALCOPHYRITE IN A QUARTZ-AMBERITE VENUST						
		@130.1' - CHALCOPHYRITE IN CROSS-CUTTING QUARTZ VENUST						
		* ENDS *						



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

DRILLING COMPANY SPARKTA (L.S.A.S.) DRILLING	ELEVATION	BEARING OF HOLE FROM NORTH S 20° E	TOTAL FOOTAGE 222	DIP OF HOLE AT COLLAR 1 3/4°	LOCATION OF HOLE IN RELATION TO A FIXED POINT ON THE CLAIM	MAP REFERENCE NO.	LOCATION (Twp., Lot, Con. OR Lot, and Long)	PROPERTY NAME KANSAS - CROXALL PROPERTY
DATE HOLE STARTED MAY 27/93	DATE COMPLETED MAY 30/93	DATE LOGGED JULY 3/93	LOGGED BY T.K. O'CONNOR		42.160°		PRICE TWP.	
EXPLORATION CO., OWNER OR OPTIONEE MATTI KANSAS & JIM CROXALL	DATE SUBMITTED JULY 12/93	SUBMITTED BY (Signature) Matti Kansas			400'			

FOOTAGE FROM TO	ROCK TYPE	DESCRIPTION Colour, grain size, texture, minerals, alteration, etc.	PLANAR FEATURE ANGLE *	CORE BECIMENT FOOTAGE +	YOUR SAMPLE NUMBER	SAMPLE FOOTAGE		SAMPLE LENGTH	GZ/T	ASSAYS + A-U
						FROM	TO			
0	15'	OVERBURDEN								
15'	83.2'	SHEARED MAFIC VOLCANIC (CHLORITIC ALTERATION)	30°		420	20.0	23.3	3.3'		0.001
		SOFT FINE GRAINED DARK TO MEDIUM GREEN CHLORITIC ALTERED MAFIC VOLCANIC WITH ~20-30% CALCITE STAINERS PARALLEL TO THE FOLIATION @ 30° TO CORE AXIS & PERVASIVE CALCITIC ALTERATION			421	38.5	410	5.5'		0.001
		- TRACS TO 1% PYRITE WITH MINOR SERICITE AND WEAK ANSERITIC ALTERATION			422	53.0	57.4	4.4'		0.006
		- SOME SECTIONS OF CORE CONTAIN UP TO 30% CALCITE +/- QUARTZ STAINERS WITH THE REMAINING 30% = CHLORITIC +/- SERICITE.								
		@ 15.6-17' - BRECCIATED ANSERITIC VEINS WHICH ARE CRUDELY PARALLEL TO THE CORE AXIS; THESE ARE FOLDED & ABUNDANT WITH CALCITE & QUARTZ IN THE VOIDS.								
		@ 19.8-23.1' - LIGHTER GREEN MAFIC VOLCANIC WITH LESS CHLORITIC & MORE SERICITE; MINOR QU - CARBONATE VEINETS ALONG THE NOW FOLDED FOLIATION; MASSIVE PYRITE UP TO 25% OF CORE DISTRIBUTED PREFERENTIALLY ALONG FOLIATION PLANES								
		@ 26.2' & 35.7' - RUSTED VUGGY CORE DUE TO SUBWATER LEACHING OF FERRIC CARBONATE								
		@ 29.8-31.5' - 1-2.5cm WIDE CALCITE WITH LATER QUARTZ "LANDERS" IN VEIN THAT IS FOLDED AND RUNS ALONG CORE AXIS FOR ~1.7'								

\* For features such as foliation, bedding, schistosity, measured from the long axis of the core.  
+ Additional credit available. See Assessment Work Regulations.



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

DRILLING COMPANY: SPARTRA (L.S.M.L.O) DRILLING  
 DATE HOLE STARTED: MAY 27/93  
 DATE COMPLETED: MAY 30/93  
 DATE LOGGED: JULY 3/93  
 DATE SUBMITTED: T.K.O'CONNOR  
 ELEVATION: 222  
 BEARING OF HOLE: S 20° E  
 TOTAL FOOTAGE: 222  
 DIP OF HOLE AT 13' 10" COLLAR: -45°  
 LOCATION OF HOLE IN RELATION TO A: Az 160°  
 FIXED POINT ON THE CLAIM: 400' } 400'  
 MAP REFERENCE NO.:  
 LOCATION (Twp., Lot, Con. OR Lot, and Long): PRICE TWP.  
 PROPERTY NAME: KIRWAN'S CRYSTAL RESERVE

FOOTAGE FROM TO	ROCK TYPE	DESCRIPTION <small>Colour, grain size, texture, minerals, alteration, etc.</small>	PLANAR FEATURE ANGLE*	CORE SPECIMEN FOOTAGE +	YOUR SAMPLE NUMBER	SAMPLE FOOTAGE		SAMPLE LENGTH	G/F*	ASSAYS +	A <sub>v</sub>
						FROM	TO				
15' TO 83.2	SHOWNED MAFIC (VOLCANIC CONTINUED)	GREEN SERICITE ALTERED, MODERATELY SILICIFIED SECTION; WITH PLAIN ACCUMULATIONS OF PYRITE (~15% OF CORE)									
		52.3' → 53.4' - SAME AS ABOVE EXCEPT CORE IS MAGNETIC AND POSITIVELY MAGNETICALLY SUSCEPTIBLE DUE TO THIN PLAIN WISPS OF MAGNETITE CRYSTALS - 15 → 20 SMALL CHALCOPYRITE CRYSTALS IN A LATE CROSS-CUTTING QUARTZ STRINGER @ 53.2'									
		* SEVERAL SECTIONS OF MAGNETIC, MAGNETITE-BEARING CORE AT 59.4' → 60.2' ; 61.5' → 63.1' ETC.									
		@ 64.8' → 65' - CHALCOPYRITE IN CROSS-CUTTING QUARTZ STRINGERS SUBPARALLEL TO FOLIATION @ 30° TO CORE AXIS; FOLIATION = 28° TO CORE AXIS									
		* UP TO 5cm BANDS OF CALCITE OCCURRING @ 230'; BOTH FREQUENCY & SIZE OF THESE BANDS INCREASE DOWNHOLE TO THE QUIT/CONTACT									
83.2' TO 86.2'	CALCITE VEIN	MASSIVE RECRYSTALLIZED CALCITE WITH MINOR INTERSTITIAL QUARTZ; ASSOCIATED IN SECTIONS WITH ABUNDANT SERICITE > CHALCITE FOLIATION PLATES/ OR CRACK-SEAL TEXTURES			423	83.3	87.2	3.9'			NIL
86.2' TO 120.4	SHOWNED & CALAMITATED MAFIC VOLCANIC (SERICITE ALTERED)	MEDIUM TO FINE GRAINED WHITE GREY CALCITE-RICH BANDS (50-60% OF CORE) AND DARK GREEN CHALCITE + MINOR SERICITE BANDS (40-50% OF CORE). AMOUNT OF LIGHT CALCITE/CALAMITATED-RICH SECTIONS INCREASES DOWNHOLE. NEAR QUIT/CONTACT CALAMITATED CHANGES FROM CALCITE TO PINKISH BEIGE ANDERITE									
		* LAST 10' OF CORE APPEARS VAGUELY TO AMYGDALOIDAL									

\* See footnote with re foliation bedding schistosity mentioned from the logs at the core  
 \* Additional credit available. See Assessment Work Regulations.



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

DRILLING COMPANY: SPARTA (L. Spore) DRILLING  
DATE HOLE STARTED: MAY 27/93  
DATE COMPLETED: MAY 30/93  
DATE LOGGED: July 3  
LOGGED BY: T.K. O'Connor  
EXPLORATION CO., OWNER OR OPTIONEE: [Blank]  
DATE SUBMITTED: [Blank]  
SUBMITTED BY (Signature): [Blank]

PROPERTY NAME: KANIGAS-CROOKAL PROPERTY  
LOCATION (T.P., Lot, Con. OR Lot. and Long): PRICE TWP.  
MAP REFERENCE NO.: P-880304  
CLAIM NO.: [Blank]

PLANNING OF HOLE TOTAL FOOTAGE: 222  
FIXED POINT ON THE CLAIM: A 2  
DIP OF HOLE AT 1 3/4" collar: -45°  
DIP OF HOLE AT 4 1/2": 16°  
DIP OF HOLE AT 4 1/2": 46°  
DIP OF HOLE AT 4 1/2": 46°

FOOTAGE FROM TO	ROCK TYPE	DESCRIPTION Colour, grain size, texture, minerals, alteration, etc.	PLANAR FEATURE ANGLE	CORE SPECIMEN FOOTAGE +	YOUR SAMPLE NUMBER	SAMPLE FOOTAGE		SAMPLE LENGTH	02/r	ASSAYS +	A/A
						FROM	TO				
120.4	122.3	INTRACRYSTALLINE SHALEY SEDIMENT			424	120.4	122.3	1.9'			
122.3	150.8	VERY FINE GRAINED, BANDED DARK GREEN TO BLACK CHLORITIC OR GRAPHITIC & YELLOWISH BROWN SERICITIC & PYRITIC INTERBEDDED SEDIMENTS.			425	126.5	131.7	4.8'			
		SAME AS 86.2 - 120.4 WITH NARROW MAGNETIC SECTIONS OF MAGNETITE - BEARING FOLIATION PLANES @ ~25° TO CORE AXIS & TRACE PYRITE			426	131.7	133.0	1.3'			
		126.4 - 131.3 SLIGHTLY HARDER, PYRITIC (15% OF CORE) DARK GREEN SECTION									
		131.3 - 133 - VERY HARD SILICIFIED SECTION OF LIGHT BROWN TO BEIGE ALTERED AEGIC VOLCANIC TUFFS WEARILY MAGNETIC WITH 5% DISSEMINATED PYRITE AND TRACE PYRROPHOTITE									
150.8	160.2	SHEARED/FOLATED SYENITIC DYKE			428	150.9	155.2	4.3'			0.001
		WELL FOLATED (MAGNETITE + MUCAS) MEDIUM TO COARSE GRAINED ORANGE SYENITIC DYKES WITH BLUE NEPHELINE OR QZ AT TAIL CONTACT - VERY HARD ORANGE K - FELDSPAR WITH ABUNDANT LARGE MAGNETITE & Biotite (SMALL) CRYSTALS WITH A WEAK SERPENTINE ALTERATION & 5-10% DISSEMINATED PYRITE			429	155.2	156.7	1.5'			NIL
		157.2 - 20 cm QUARTZ + GREEN TOURMALINE VEIN WITH 5% CARBONATE CRYSTALS & MINOR HYDRO-MUSCOVITE			430	156.7	159.5	2.8'			NIL
		160.1 (CONTACT) - 2.5 cm QUARTZ VEIN WITH GREEN TOURMALINE + HYDROMUSCOVITE									

\* For features such as foliation, bedding, schistosity, measured from the long axis of the core.  
+ Additional credit available. See Assessment Work Regulations.





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

DRILLING COMPANY: SPARAT (L.S.M.S.) DRILLING  
 DATE HOLE STARTED: MAY 27/93  
 DATE COMPLETED: MAY 30/93  
 DATE LOGGED: JULY 3/93  
 DATE SUBMITTED: T.K. O'CONNOR  
 LOGGED BY: T.K. O'CONNOR  
 SUBMITTED BY (Signature):

MEANING OF HOLES TOTAL FOOTAGE: 222  
 FROM TRUE NORTH: S20°E  
 DIP OF HOLE AT: 1 3/4° dip - 45°

LOCATION OF HOLE IN RELATION TO A FIXED POINT ON THE CLAIM: A2 160°

PROPERTY NAME: KNUGHS-CAMRAN PROPERTY

LOCATION (T.P., Lot, Con. OR Lot, and Long): PRICE TWP.

MAP REFERENCE NO.: P 880309

FOOTAGE FROM TO	ROCK TYPE	DESCRIPTION Colour, grain size, texture, minerals, alteration, etc.	PLANAR FEATURE ANGLE	CORE SPECIMEN FOOTAGE †	YOUR SAMPLE NUMBER	SAMPLE FOOTAGE		SAMPLE LENGTH	0.2/† ASSAYS †	A <sub>v</sub>
						FROM	TO			
160.2	169.9	SHEARED/FOLIATED QUARTZ PORPHYRY			431	159.5	164.0	4.5'	0.001	
		VERY HARD, FOLIATED, LIGHT GREENISH YELLOW CORE WITH UP TO 5mm SUB-ROUNDED QUARTZ AUGENS IN A SERICITIC SUB-CALCITIC MATRIX - SERICITE (30%) REPRESENTS A NETWORK OF ANASTOMOSING FOLIATION PLANES "WRAPPING AROUND" QUARTZ AUGENS (50% TO 30%)			432	164.0	169.0	5.0'	0.001	
		- UP TO 30% PYRITE IN SECTIONS † MINOR CHLORITOID - RARE 3-5mm PURE DARK GREEN CHLORITE BANDS.								
		② 161.8' - 8cm (TRUE WIDTH) QUARTZ VEIN WITH MINOR GREEN TOURMALINE † 10% SPHALERITE (REARLY GROWN ZNS)								
		② 165.2' - 5cm QUARTZ VEIN WITH GREEN TOURMALINE + HYDROMUSCOVITE								
169.9	173.2	SHEARD/FOLIATED QUARTZ - POOL GRANITIC DYKE			433	169.0	173.5	4.5'	NIL	
		10cm PURE DARK GREEN CHLORITE BAND WITH 5cm QUARTZ VEIN (10% PYRITE) AT IN/CONTACT TO FOLIATED GRANITIC DYKE WITH K-FELD SPAR (55%) QUARTZ (15%) MAGNETITE (10%) ROTITE (5-6%) † PYRITE (2-3%)								
		② 172.1' - 20cm QUARTZ VEIN WITH MINOR ANKERITE, GREEN TOURMALINE, DARK BLACK TO BROWN DEALITE TOURMALINE † HYDROMUSCOVITE								
173.2	184.8	MAGNETIC FLOW								
		MEDIUM TO DARK FOREST GREEN CHLORITIC MATRIX TO COARSE (5mm) CALCITE-FILLED VARIOLAS								

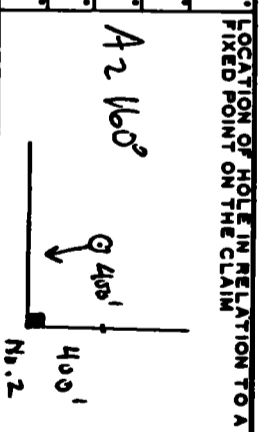
† Additional credit available. See Assessment Work Regulations.



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

DRILLING COMPANY SPARKS (L. SMO) DRILLING	ELEVATION	PLANING OF HOLE	TOTAL FOOTAGE	DIP OF HOLE AT	LOCATION OF HOLE IN RELATION TO A	MAP REFERENCE NO.	PROPERTY NAME
DATE HOLE STARTED MAY 27/93	DATE COMPLETED MAY 30/93	DATE LOGGED JULY 3/93	LOGGED BY T.K. O'CONNOR	13° 40' collar - 45°	FIXED POINT ON THE CLAIM	PRICE TWP.	CRUXAN PROPERTY.
EXPLORATION CO., OWNER OR OPTIONEE	DATE SUBMITTED	SUBMITTED BY (Signature)					

FOOTAGE FROM	TO	ROCK TYPE	DESCRIPTION Colour, grain size, texture, minerals, alteration, etc.	PLANAR FEATURE ANGLE*	CORE SPECIMEN FOOTAGE +	YOUR SAMPLE NUMBER	SAMPLE FOOTAGE		SAMPLE LENGTH	GZ/ASSAYS +
							FROM	TO		
184.8	191.2	SHEARED/FOLIATED TONALITIC DYKE	SILICIFIED & CALCITE ALTERED SHEARED QUARTZ - TONALITIC DYKE WITH QZ + WHITE FELDSPAR (CALCITE) WITH 15% PYRITE.			434	185.4	188.7	3.3'	0.001
						435	188.7	191.0	2.3'	0.001
						436	193.7	198.7	5.0'	NIL
191.2	222	(EOH)	5cm CHLORITE BAND w/ 10% PYRITE @ OHT/CONTACT							
			CHLORITE & SERICITIC ALTERED FOLIATED AMYGDALOIDAL TO VARIOLITIC BASKET WITH CALCITE-FILLED AMYGDALOIDES & VARIOLITES & QZ - CARB VESICLES PARALLEL FOLIATION @ 32° TO CORE-AXIS							
			@ 196.3 - CHALCOPHYTE IN FRACTURE PERPENDICULAR TO CORE AXIS							
			* END OF HOLE *							



\* Additional credit available. See Assessment Work Regulations.

MAP SYMBOLOLOGY

Aerial Cableway	Pipeline (above ground)
Boundary	Railroad
International	Single Track
Provincial	Double Track
District, Township	Abandoned
Indian Reserve	
Approach	Yachtie
Lot, Concession	Road
Approach	Highway County
Para Boundary	Township
Bridge	Atroad (road at depth of
Base, Railroad	subgrade or
Building	superficial driveway)
Chimney	Trail, Back Road
Cliff, Pit, Pile	(storage area)
Contours	Rapids
Interpreted	Double line river
Approximate	with multiple rapids
	Reservoir
	River, Stream, Canal
	Approximate
	Direction of flow
Control Points	Mark
Horizontal	Vertical
Vertical	Culvert
Culvert	Falls
Falls	Double line river
Double line river	Fence, Mound,
Fence, Mound,	Wall
Wall	Feature Outline
Feature Outline	(Construction features,
(Construction features,	1:50)
1:50	Flooded Land
Flooded Land	Lock
Lock	Marsh or Swamp
Marsh or Swamp	Moat
Moat	Mine Head Frame
Mine Head Frame	Outcrop
Outcrop	

REFERENCES

L.Q. 6613 - BOOMING GROUNDS - COVERS THE WESTERLY HALF OF THE BED OF THE MATTAGAMI RIVER FLOWING THROUGH THE TOWNSHIP FILE 73543

AREAS WITHDRAWN FROM DISPOSITION

M.R.O. - MINING RIGHTS ONLY  
S.R.O. - SURFACE RIGHTS ONLY  
M. & S. - MINING AND SURFACE RIGHTS

Description Order No. Date Disposition File

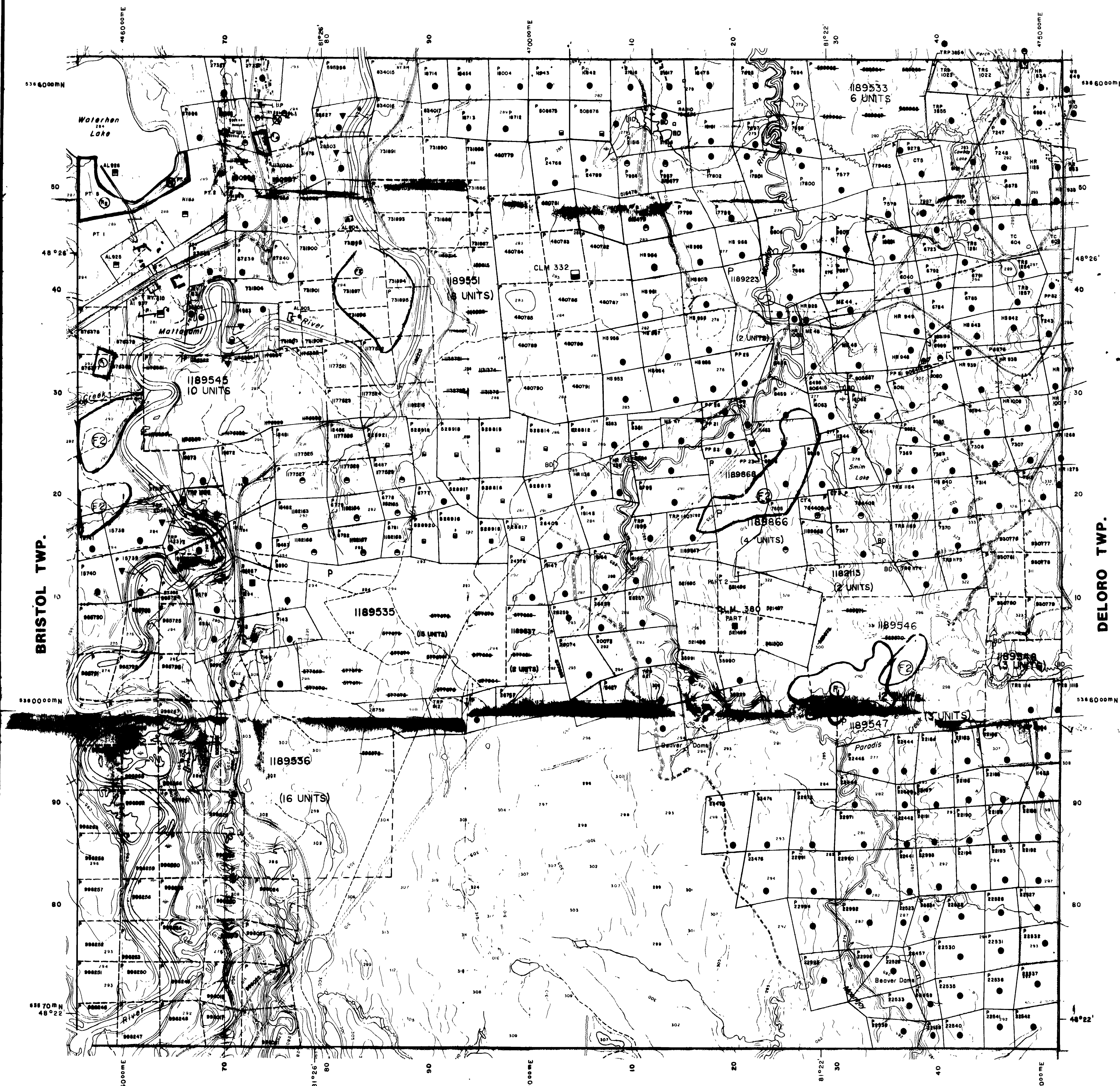
- 1) BONA FIDE APPLICATION UNDER P.L.A. FOR SURFACE RIGHTS
- 2) NRW 5178, 2/11/79 S.R.O.
- 3) BONA FIDE APPLICATION UNDER P.L.A., MAY 0, 1988
- 4) BONA FIDE APPLICATION UNDER P.L.A., PLOTTED JUNE 4, 1988

THIS TWP. IS SUBJECT TO FORESTRY ACTIVITIES IN 92/93. FURTHER INFORMATION AVAILABLE ON FILE.

THIS TWP. SUBJECT RIGHTS TO FOREST ACTIVITY IN 1993/94. FURTHER INFORMATION AVAILABLE ON FILE.

THE INFORMATION THAT APPEARS ON THIS MAP HAS BEEN COMPILED FROM VARIOUS SOURCES AND ACCURACY IS NOT GUARANTEED. THOSE WISHING TO STAKE MINING CLAIMS SHOULD CONSULT WITH THE MINING RECORDER, MINISTRY OF NORTHERN DEVELOPMENT AND MINES, FOR ADDITIONAL INFORMATION ON THE STATUS OF THE LANDS SHOWN HEREON

MOUNTJOY TWP.



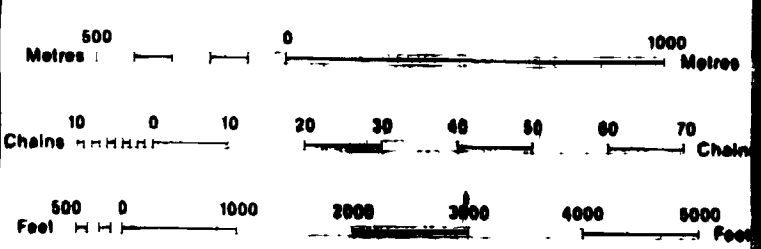
LEGEND

HIGHWAY AND ROUTE No	OTHER ROADS
TRAILS	SURVEYED LINES
TOWNSHIPS, BASE LINES, ETC	LOTS, MINING CLAIMS, PARCELS, ETC
UNSURVEYED LINES	LOT LINES
PARCEL BOUNDARY	MINING CLAIMS ETC
RAILWAY CLAIMS ETC	UTILITY LINES
NON PERENNIAL STREAM	FLOODING OR FLOODING RIGHTS
SUBDIVISION OR COMPOSITE PLAN	RESERVATIONS
ORIGINAL SHORELINE	MARSH OR MUSKEG
MINES	TRAVERSE MONUMENT

DISPOSITION OF CROWN LANDS

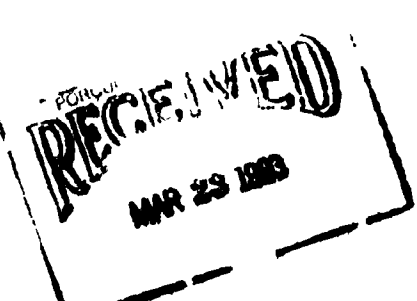
TYPE OF DOCUMENT	SYMBOL
PATENT, SURFACE & MINING RIGHTS	○
SURFACE RIGHTS ONLY	○
MINING RIGHTS ONLY	○
LEASE, SURFACE & MINING RIGHTS	○
SURFACE RIGHTS ONLY	○
MINING RIGHTS ONLY	○
LICENCE OF OCCUPATION	○
ORDER IN COUNCIL	○
RESERVATION	○
CANCELLED	○
SAND & GRAVEL	○

NOTE: MINING RIGHTS IN PARCELS PATENTED PRIOR TO MAY 6, 1913 VESTED IN ORIGINAL PATENTEES BY THE PUBLIC LANDS ACT R.S.O. 1970, CHAP. 500, SEC. 43, SUBSEC. 1

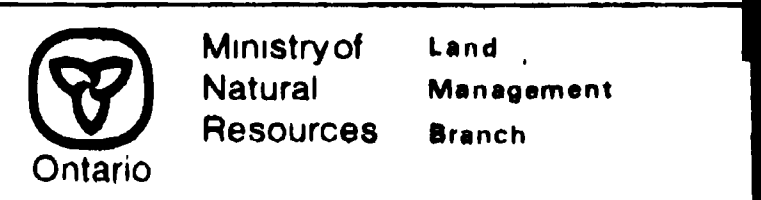


SCALE 1:20 000  
GRID ZONE 17

NOTES



TOWNSHIP  
**OGDEN**  
M.N.R. ADMINISTRATIVE DISTRICT  
**TIMMINS**  
MINING DIVISION  
**PORCUPINE**  
LAND TITLES / REGISTRY DIVISION  
**COCHRANE**



ORIGINAL COMPILED JULY 1984  
ACTIVATED JULY 8, 1988 BY D.C.  
REVISED  
CHECKED BY G.W.  
Number: **G-3979**

PRICE TWP.

**REFERENCES**

**AREAS WITHDRAWN FROM DISPOSITION**

- M.R.O. - MINING RIGHTS ONLY
- S.R.O. - SURFACE RIGHTS ONLY
- M.+S. - MINING AND SURFACE RIGHTS

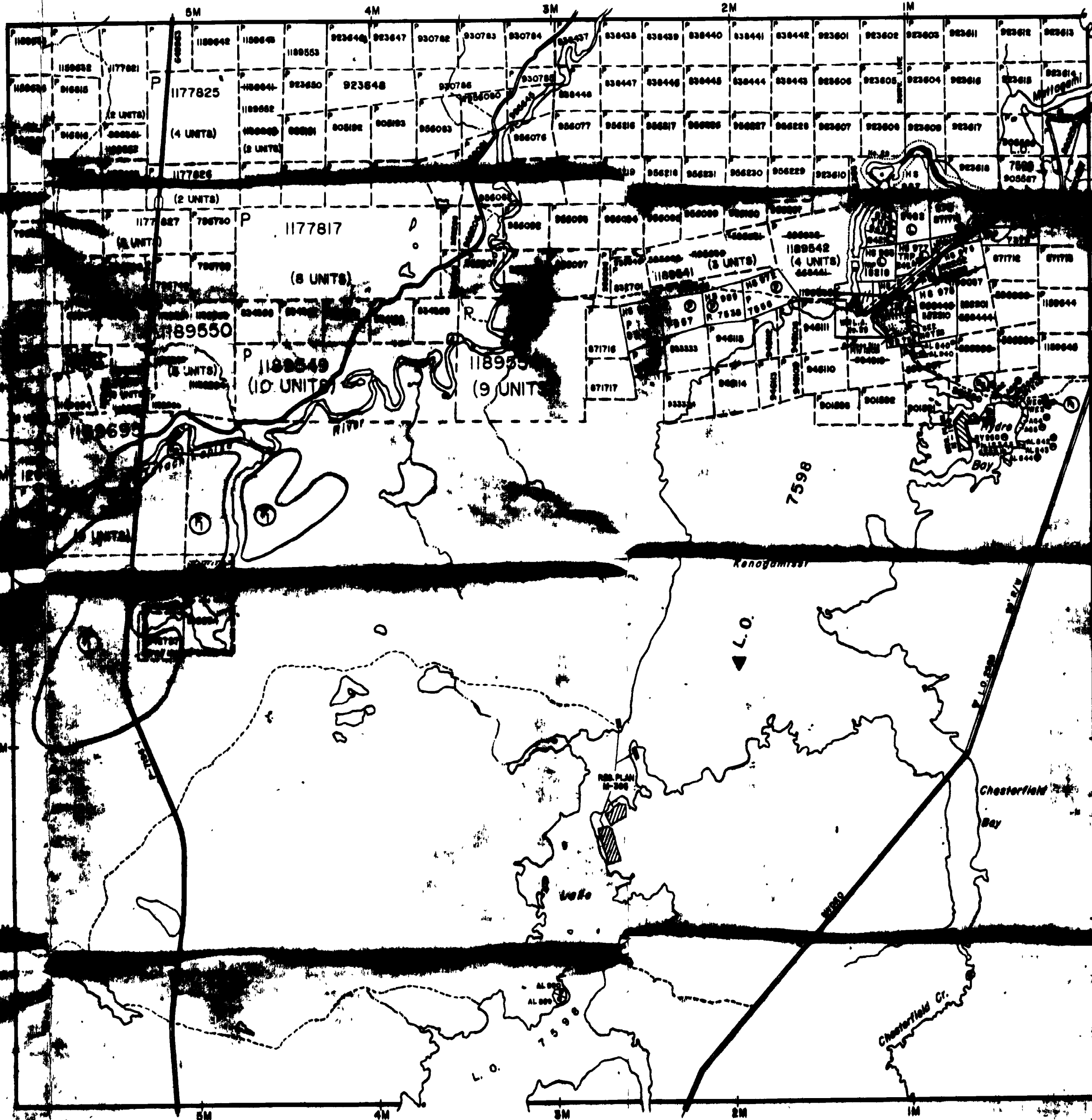
Description	Order No.	Date	Disposition	File
SEC. 43/70		17/5/72	S.R.O.	164584

**SAND AND GRAVEL**

- ① GRAVEL FILE 143334
- ② M.M.R. GRAVEL RESERVE
- ③ M.M.R. GRAVEL PT 238 FILE 8487

Bristol Twp.

Mc Keown Twp.

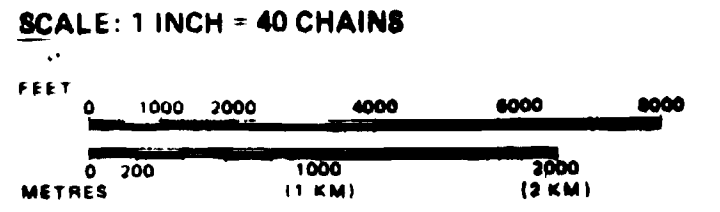


**LEGEND**

- HIGHWAY AND ROUTE No.
- OTHER ROADS
- TRAILS
- SURVEYED LINES
  - TOWNSHIPS, BASE LINES, ETC.
  - LOTS, MINING CLAIMS, PARCELS, ETC.
- UNSURVEYED LINES
  - LOT LINES
  - PARCEL BOUNDARY
  - MINING CLAIMS ETC.
- RAILWAY AND RIGHT OF WAY
- UTILITY LINES
- NON PERENNIAL STREAM
- FLOODING OR FLOODING RIGHTS
- ORIGIN OR COMPOSITE PLAN
- ORIGINAL SHORELINE
- MARSH OR MUSKEG
- MINES
- TRAVERSE MONUMENT

**OWNED LANDS**

TYPE OF DOCUMENT	SYMBOL
PATENT, SURFACE & MINING RIGHTS	●
" SURFACE RIGHTS ONLY	○
" MINING RIGHTS ONLY	○
LEASE, SURFACE & MINING RIGHTS	○
" SURFACE RIGHTS	○
" MINING RIGHTS ONLY	○
LICENCE OF OCCUPATION	○
COUNCIL	○
CANCELLED	○
SAND & GRAVEL	○



TOWNSHIP  
**THORNELOE**  
M.N.R. ADMINISTRATIVE DISTRICT  
TIMMINS

PORCUPINE DIVISION  
LAND TITLES / REGISTRATION  
**COCHRANE**

Ontario Ministry of Natural Resources Branch

Date MARCH 1988 Number  
G-3229

Reservation for Deputy Chief's Headquarters etc shown thus

Flooding Rights on Kenogami Lt. & Mattagami R. are reserved to Ont. Hydro - L.O. 7599. File: 1183 vol. 3

THIS TWP. SUBJECT TO EARTH ACTIVITIES IN...

THE INFORMATION THAT APPEARS ON THIS MAP HAS BEEN COMPILED FROM VARIOUS SOURCES AND ACCURACY IS NOT GUARANTEED. THOSE WISHING TO STATE MINING CLAIMS SHOULD CONSULT WITH THE LANDS RECORDS DIVISION OF THE MINISTRY OF NORTHERN DEVELOPMENT AND MINES FOR ADDITIONAL INFORMATION ON THE STATUS OF THE LANDS SHOWN THEREON.



305

# Ogden Twp. (M.305)

THE TOWNSHIP OF  
OF

# PRICE.

DISTRICT OF  
COCHRANE

PORCUPINE  
MINING DIVISION

SCALE: 1-INCH = 40 CHAINS

### DISPOSITION OF CROWN LANDS

- PATENT, SURFACE AND MINING RIGHTS ..... ●
- " SURFACE RIGHTS ONLY ..... ○
- " MINING RIGHTS ONLY ..... ◐
- LEASE, SURFACE AND MINING RIGHTS ..... ■
- " SURFACE RIGHTS ONLY ..... ◑
- " MINING RIGHTS ONLY ..... ◒
- LICENCE OF OCCUPATION ..... ▨
- ROADS
- IMPROVED ROADS
- KING'S HIGHWAYS
- RAILWAYS
- POWER LINES
- MARSH OR MURKED
- MINES

### NOTES

400' surface rights reservation along the shores of all lakes and rivers.

Areas withdrawn from staking under Section 43 of the Mining Act (R.S.O. 1970)  
Order No. File Date Disposition

~~MINERAL PLANNED REFORESTATION~~  
MAR 12/83

P- THIS TWP. SUBJECT TO FOREST ACTIVITY IN 1992/93  
FURTHER INFORMATION AVAILABLE ON FILE.

② THIS TWP. SUBJECT TO FOREST ACTIVITY IN 1993/94  
FURTHER INFORMATION AVAILABLE ON FILE.

SAND AND GRAVEL

DRAINAGE PERMIT

Rec. Oct. 31/79

This township lies within the Municipality of the CITY of TIMMINS.

PLAN NO. **M-307**

ONTARIO  
MINISTRY OF NATURAL RESOURCES  
SURVEYS AND MAPPING BRANCH

PRICE TWP

Thorneioe Twp. (M.313)

Adams Twp. (M.261)

# Fripp Twp. (M.281)

THE INFORMATION THAT APPEARS ON THIS MAP WAS OBTAINED FROM VARIOUS SOURCES AND ACCURACY IS NOT GUARANTEED. THOSE WISHING TO STAKE MINING CLAIMS SHOULD CONSULT WITH THE MINING RECORDER, MINISTRY OF NORTHERN DEVELOPMENT AND MINES, FOR ADDITIONAL INFORMATION ON THE STATUS OF THE LANDS SHOWN HEREON.

