2.3669

-

\_

-

298 BEECH AVENUE • TORONTO, CANADA • M4E 3H3 • Tel. (416) 699-5760



52E08SE0009 2.3669 PHILLIPS

010

RECEIVED

10N 1 0 1981

MINING LANDS SECTION

KENORA GOLD PROJECT COMBINED AREA CLAIMS (TERRELL OPTION) GEOLOGICAL AND TRENCHING REPORT

Phillips Township

District of Kenora, Ontario

for

Sherritt Gordon Mines Limited

Ъy

Robert H. Morse, Ph.D., P.Eng. D. Glenn Harder, B.A., B.Sc.

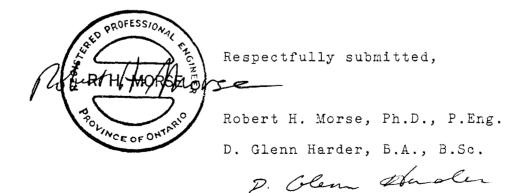
December 23rd 1980

MINERAL EXPLORATION - ENVIRONMENTAL RADIOCHEMISTRY

## SUMMARY

Four claims comprising the Terrell option near the old Combined prospect have been thoroughly prospected and sampled and mapped geologically. The northwest corner of a new claim to the southeast of this group has been similarly examined. The Combined prospect is not on the Terrell claims.

The only values higher than trace are from trench 2 on claim 560585 where two muck samples ran .06 and .02 over a length of 4 metres each for an average of .04 over 8 metres. Chip samples from the bottom of the trench (where the muck came from) ran only trace, however.



December 23rd 1980

#### DESCRIPTION OF CLAIMS

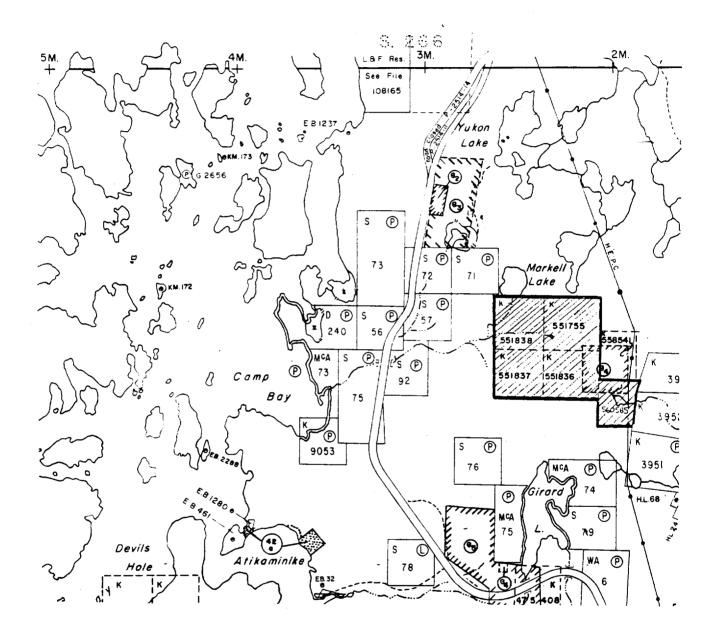
The property consists of five unpatented mining claims in Phillips Township adjacent to the Combined Prospect. The claim numbers are K551836, K551837, K551838, K551755 and K560585. The first four claims were staked by Michael A. Terrell, Skead, Ontario, recorded March 26 and 31, 1980, and optioned to Sherritt Gordon Mines Limited. The option agreement was made on the understanding that the property included the old Combined workings. These workings, however, lie 200 metres to the east of the subject claims on claim number K558541. The fifth claim, to the south of the Combined, was staked for Sherritt Gordon and recorded in October, 1980.

The property is located in the north central part of Phillips Township, about a mile east of Highway 71 (see Figure 1). A bush road from Highway 71 provides access by car to the centre of the property

## PREVIOUS WORK

To the writers' knowledge no record exists of any previous exploration on the property. No doubt some prospecting was carried out around the turn of the century in connection with developments at the Combined. Recent logging has resulted in new rock exposures including quartz

# Figure 1 Location Map



Phillips Township

R. H. Morse & Associates Ltd.

veins that had never been sampled.

Two shafts were sunk at the Combined, one to 101 feet and one to 45 feet, together with 316 feet of drifting. Milling of 37 tons reportedly gave a recovery of 0.33 cunces per ton. Evidently no work has been carried out on the Combined since the early part of the century.

# PRESENT WORK

Work on the property by R.H. Morse & Associates Ltd. on behalf of Sherritt Gordon Mines Limited began October 20 and terminated November 3, 1980. The work consisted of geological mapping, prospecting, rock trenching and sampling.

Control for the exploration surveys was by reference to air photos and to a new system of cut lines. The latter comprises an east-west base line chained in segments along the road for a distance of 415 metres and cross lines totalling 370 metres. More detailed control was by pace and compass.

#### GEOLOGY

The area was mapped geologically by Fraser in 1937 (O.D.M. vol. LII, Part IV, 1943, Map No. 52c). The property is underlain mainly by Keewatin intermediate to basic

---

R. H. Morse & Associates Ltd.

Page 4

volcanic rocks of the Whitefish Bay Greenstone Belt. Detailed mapping in 1980 by D.G. Harder revealed these volcanic rocks to be intruded by a granite-felsite unit and by diabase.

The oldest rocks on the property, the Keewatin, comprise dark green meta-basalt, mainly pillowed and locally schistose. The strike is 020° and the dip vertical. Pillow tops, where observed, point to the west.

Intrusive into the Keewatin basalt is a granite unit, medium grained, mainly pinkish feldspar with lesser amounts of quartz and minor mafic minerals. A very fine grained pink to gray felsite consisting of feldspar and quartz is associated with the granite intrusions.

Quartz veins, up to 10 metres wide, are common on the southeast portion of the claim group. The vein material is mainly bull quartz. At trench 2 minor pyrite occurs, along with chalcopyrite, iron carbonate, fine grained gold coloured mica and local malachite stain. Small lenses and veinlets of quartz are common elsewhere on the property.

A magnetic diabase dyke, 50 metres wide, trends northwesterly across claim 551837.

----

~

Page 5

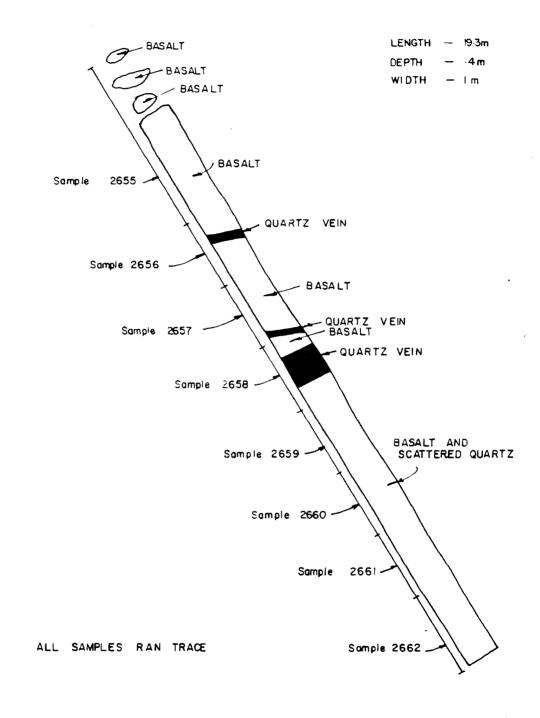
### TRENCHING, SAMPLING AND ASSAYING

Trenches were blasted into rock at five locations (see Figures 2 to 7). Sampling these trenches as well as other locations on the claims resulted in 52 samples. All the samples were assayed for gold and the results are presented on Figures 2 to 7.

The only significant assays on the claims are from two muck samples from trench 2 on claim 560585 (Figure 4). These two samples ran .06 and .02 oz/T. Each is representative of 4 metres along the muck pile giving an average of .04 oz/T over a length of 8 metres. Chip samples from the bottom of the trench where the muck came from ran only trace, however. All the other samples on the property ran trace.

### CONCLUSIONS

No economic concentrations of gold were found on the property. Potential for discovery of an orebody is best in the northwest corner of claim 560585 where some significant values were found in trench 2. Stripping with a bulldozer as well as further trenching in this area may be warranted.

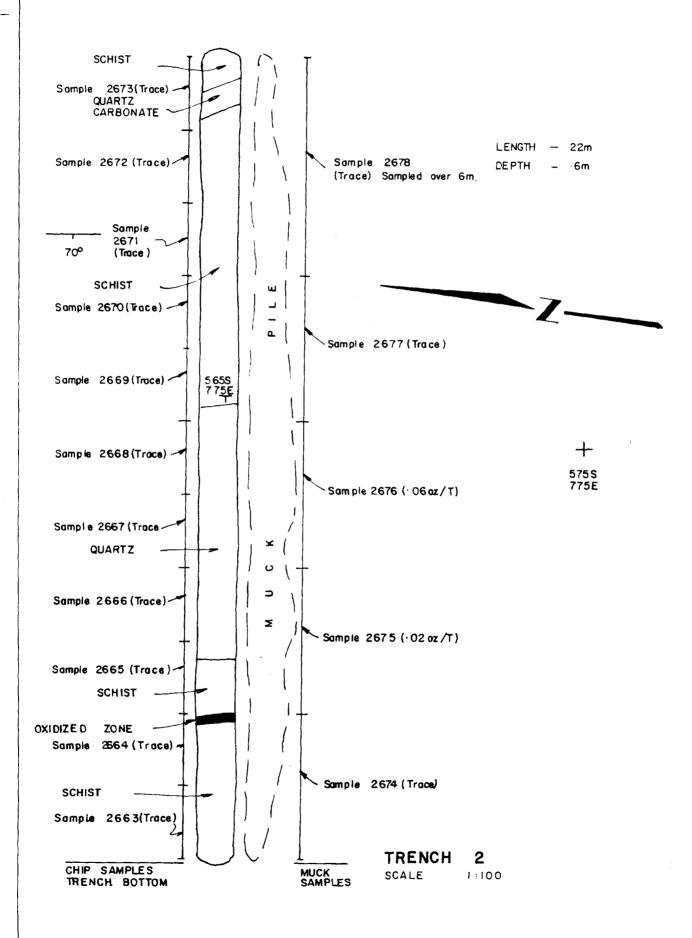


.....

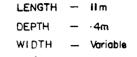
.....

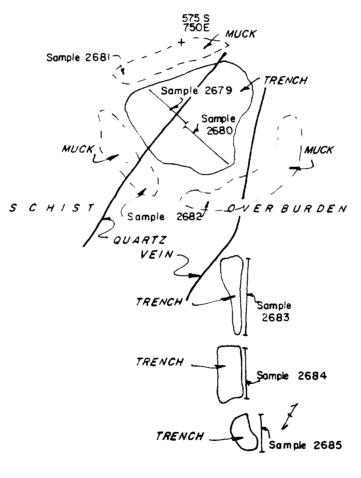
1

TRENCH I SCALE 1:100



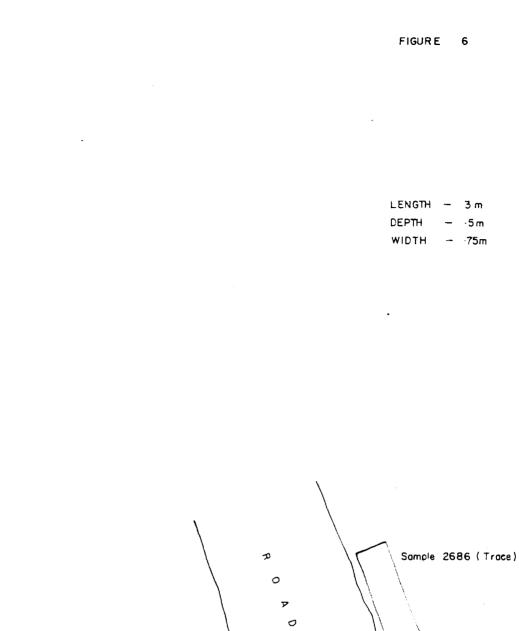
-291/





ALL SAMPLES RAN TRACE

TRENCH 3 SCALE 1:100





----

----

---

\_

TRENCH 4 SCALE F: 100 .

LENGTH - 2 m DEPTH - 4 m WIDTH - 1 m





$\frown$		File		
Ontario	09 2.3669 PHILLIPS	900	ECEIVED	
FACTS SHO	CHED AS AN APPENDIX TO TECHNIC WN HERE NEED NOT BE REPEATED MUST CONTAIN INTERPRETATION,	IN REPORT	C. AN 1 & 1981 NING LANDS SECTION	
C Type of Survey(s) <u>Geological</u>	OMBINED AREA	WII	NING LAND	
Township or AreaPhillips				
Claim Holder(s) Michael A. Terrel	1 optioned to Sherritt	1	AIMS TRAVERSED numerically	
Gordon Mines Limited	-	<b> </b>		
Survey Company R. H. Morse & As	sociates_Ltd			
Author of Report R. H. Morse	D. G. Harder	(prefix)	(number)	
Address of Author 298 Beech AVe.	Box 1360	K	551836 🧹	
Address of Author <u>298 Beech AVe.</u> Toronto Covering Dates of Survey Oct. 20 th	Deep River, Ont.			
Total Miles of Line Cut			551837	
		К	551838	
SPECIAL PROVISIONS	DAYS	K	551755	
CREDITS REQUESTED	Geophysical per claim		······	
	-Electromagnetic		551755	
ENTER 40 days (includes line cutting) for first	Magnetometer		بر ا	
	-Radiometric	•	ļ.	
	Other			
•	Geological40			
same orid	Geochemical			
AIRBORNE CREDITS (Special provision of	redits do not apply to airborne surveys)			
MagnetometerElectromagnetic				
(enter days p				
DATE:	RE: Robert H. Morn			
Res. Geol Qualificat Previous Surveys	ions 1, 1260			
Previous Surveys	2,2279			
File No. Type Date	Claim Holder			
	. <i>D</i> .			
	V			
		TOTAL CLAI	 MS 4	
		I IUIAL ULAI	11.7	

# GEOPHYSICAL TECHNICAL DATA

Number of Stations		Number o	Number of Readings		
Station interval Line spacing					
		-	-		
			•		
Instrument			• • • • • •		
Accuracy – Scale co	onstant		· · · · · · · · · · · · · · · · · · ·		
	nethod				
Base Station check-i	n interval (hours)				
Base Station Location	n and value		. • • •		
base Station location			 		
	n and value			······································	
	· · · · · · · · · · · · · · · · · · ·				
Ū.					
-					
•				🗆 Parallel lin	
Method:	Fixed transmitter	Shoot back			
Frequency		(specify V.L.F. station)		· · ·	
	l				
Instrument					
Scale constant					
Corrections made					
Base station value ar	nd location				
Elevation accuracy					
Instrument					
Method  Time 1			equency Domain		
Parameters – On time			Frequency		
	ne				
	time		<u>s</u> c		
Ū.	ation time				
	· ·				
•					
Type of electrode _					

INDUCED POLARIZATION

