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HARKNESS HAYS – GOLD RANGE PROPERTY

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K. G. Fenwick

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HARKNESS HAYS - GOLD RANGE PROPERTY

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HARKNESS HAYS - GOLD RANGE PROPERTY

PROPERTY LOCATION:

Mining Division: Thunder Bay Mining Division

Resident Geologist District: Thunder Bay South

Claim Map Area: Priske Township G-0631

NTS Number: 42D 14SE

Latitude and Longitude: 48 48' 87 12'

LOCATION MAP:

See enclosed Claim Map A

ACCESS:

The Harkness Hays – Gold Range Property is 204 km east of the City of Thunder Bay, by Highway 17. Photo #1 shows that the C.P.R. tracks and a hydro line form the southern boundary of the property. Highway 17 cuts north – south through the western section of the property.

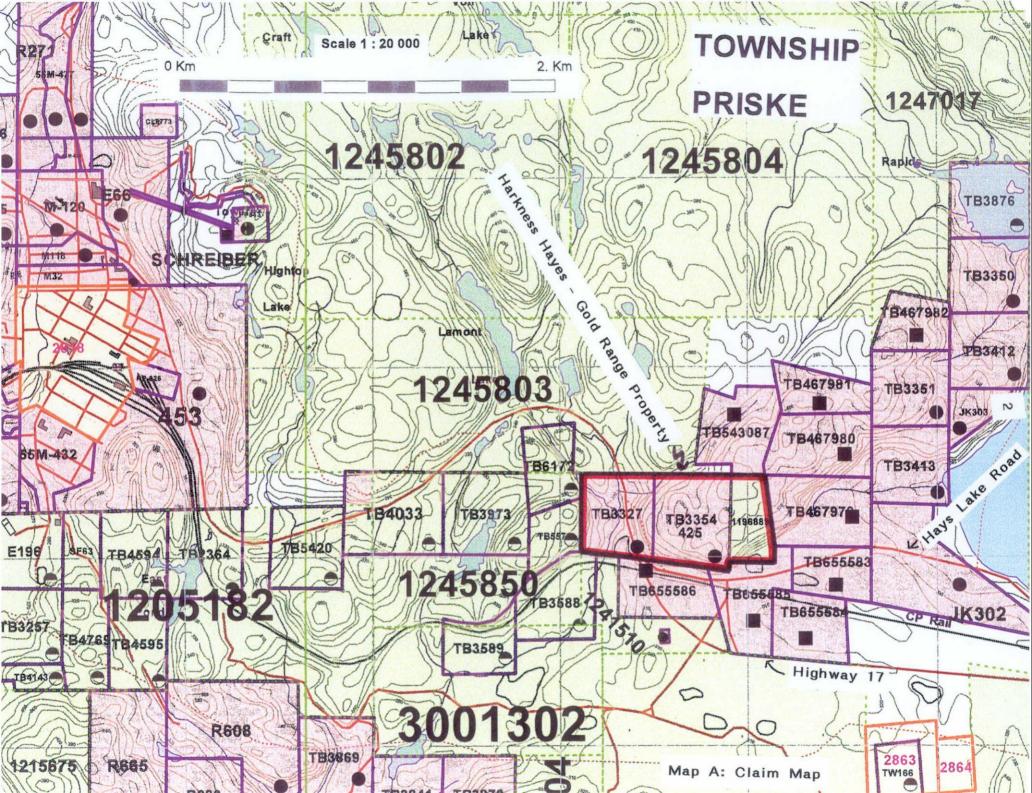
DEVELOPMENT HISTORY AND OWNERSHIP:

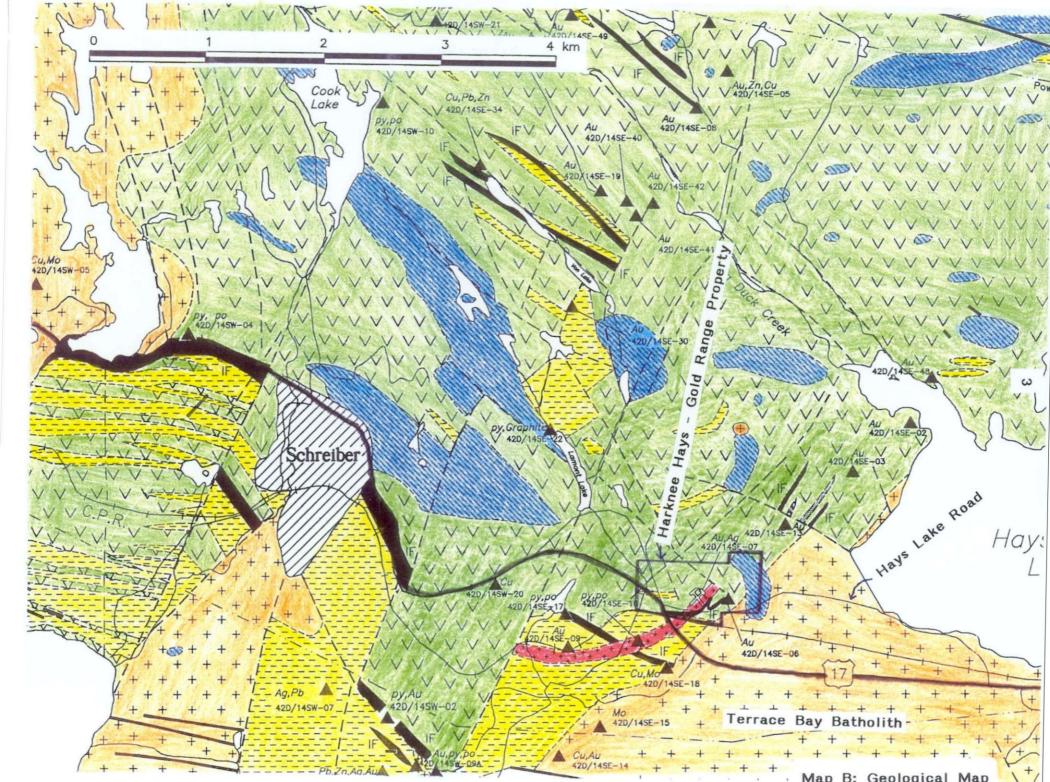
See enclosed write-up (Table A) by Schnieders et al, 1996.

GEOLOGY AND STRUCTURE:

The general geology (Map B) consists of felsic intrusive rocks of the Terrace Bay Batholith, in contact with predominantly mafic metavolcanics. In addition, minor felsic metavolcanics, tuff, iron formation and late felsic to mafic itnrusives are present. Sulphide and oxide iron formations are present. They represent pauses in volcanism or sedimentation, and therefore occur at lithological contacts. Although assays from several of the iron formations indicate anomalous gold values (50 to 100 ppb), only the Ottisse and Harkness-Hays Properties have reported economic gold values.

The contact zone rocks have undergone amphibolite facies metamorphism, (hornblende-hornfels, Marmont (1984), within a 300 to 500 m halo of the Terrace Bay Batholith. Recrystallization has destroyed many of the primary textures in the





LEGEND

PROTEROZOIC



Mafic Intrusive Rocks (diabase, lamprophyre, etc.)

ARCHEAN



Quartz Porphyry



Felsic Intrusive Rocks (granite, syenite, tonalite etc.)



Mafic Intrusive Rocks



Metasedimentary Rocks (IF: Iron Formation - sulphide and oxide facies)



Felsic to Intermediate Metavolcanic Rocks



Mafic to Intermediate Metavolcanic Rocks

SYMBOLS



Geological Contact (defined and assumed)



Fault (defined and assumed)



Powerline



Township Boundary



Mineral Occurrence



Town

Road

Highway

Railway Line



Past Producing Mine

Schnieders, B.R., Smyk, M.C., Speed, A.A. and McKay, D.B. 1996. Mineral occurrences in the Nipigon-Marathon area, Volumes 1 and 2; Ontario Geological Survey, Open File Report 5951, 912p.

metavolcanics. Outside of this contact metamorphic aureole, the metavolcanics display greenschist facies metamorphism.

Airphoto interpretation and detailed mapping indicate a complex structural pattern in the Gold Range – Harkness Hays area. A conjugate set of northeast and northwest-trending faults dominate the area. The Gold Range Ridge represents a large (4 x 1.5 km) northeast-trending fracture zone, containing an intricate system of northeast-, east-, and northwest-trending faults and shears. The intersection of a number of northeast- and northwest-trending structures occur in the Gold Range – Harkness-Hays Lake area.

(Patterson et al, 1987)

MINERALIZATION:

In the Gold Range – Hays Lake area, gold mineralization is concentrated in quartz veins, composite veins, breccias, stockworks, and hydrothermally alterered metavolcanics occurring predominantly within the metamorphic aureole of the Terrace Bay Batholith. Accessory metallic minerals include disseminated pyrite, chalcopyrite, sphalterite, galena, molybdenite, and tellurides. The mineralized zones strike predominantly to the northeast and to a lesser extent to the northwest, generally reflecting the main structures.

Hydrothermal alteration of the metaolvanics consists of sericitization (potassic enrichment), carbonatization, silicification, pyritization, and sodium depletion. Marmont (1984) describes a silicified-carbonatized rim near the veins and a potassic alteration zone on the periphery. Evidence for several mineralizing events is present, including a suggested relationship between late intrusives and the concentration of auriferous solution. (Patterson et al, 1987)

WORK DONE:

Three days were spent in the field with an assistant, on the Harkness Hays – Gold Range Property. No exploration work has been done on the Harkness Hays portion of the property (western two patented claims) since 1939. Fenwick (2001) relocated the three adits and one shaft and did minor assaying in 2000 on the Gold Range portion of the property. No exploration company has done any work here since 1991. In fact, this is the first time that the two properties were joined as one, and the veins on one property were followed onto the other.

Using Schnieders' 1986 map and a 1947 aerial photograph as reference, the trenches of Harkness Hays vein #3 were located and sampled. In total, sixteen (16) samples were taken from the property and gave some encouraging rassays (see Sample Table and Map C for results and location). Map C is a revised version of Schnieders' 1986 map. We blue-flagged the way to GR Adit #1, GR Adit #2, HH Adit #2, the trenches north of GR Adit #1 and four trenches of HH Vein #3.

Several old assays located in the literature (Assessment Files, Assay file, etc. located in the Thunder Bay Resident Geologist's office) were plotted on Map C.

Photographs taken of the property (samples, trench, etc.) are found at the end of this report.

CONCLUSION:

There are at least eight (8) gold-bearing veins on the property.

There does not appear to be wide quartz veins, but quartz breccia zones (Photo 6) and gold-bearing alteration envelopes (Photo 3).

RECOMMENDATIONS:

- 1. G.P.S. in all adits, shaft, veins and trenches.
- 2. Clean out entrances to HH Adit #2 and GR Adit #3. Re-sample workings and compare to old assay sketches.
- 3. Clean out trenches on HH Vein #3. Re-sample and compare to old assay sketch.
- 4. Check to see if HH Vein #4 is where I have shown it on Map C (from 1947 aerial photograph)
- 5. All veins strike northeast to north 60 degrees east plus dip approximately 75 degrees northwest. Several drill holes, from the top of the ridge striking approximately 135 degrees, would cut nearly all the veins and give an idea of the veins width and depth.

REFERENCES:

Patterson, G. C., Scott, J. F., Mason J. K., Schnieders, B. R., MacTavish, A. D., Dutka, R. J., Kennedy, M. C., White, G. D. and Hinz, P.

1987:

Thunder Bay Resident Geologist's Area, North Central Region: in Report of Activities, 1986, Regional and Resident Geologists, edited by C. R. Kustra, Ontario Geological Survey.

Schnieders, B. R.

1986:

Geological Map of Harkness Hays – Gold Range Property; located in

Thunder Bay

South Resident Geologist's Files, Scale 1:2000.

Schnieders, B. R., Smyk, M.C., Speed, A. A. and MacKay D. B.

Mineral Occurrences in the Nipigon-Marathon area, Volumes 1 & 2, 1996:

Ontario Geological Survey, Open File Report 5951, 912 p.

Sample Table (see Map for locations)

Harkness Hays - Gold Range Property

Sampe Number	hocation	Description	Alteration / Minciplization	Assay Resul
	west of	narrow quarte stringers	- speak of molyaderum	The sale for some first property areas, and some any 47 Adries.
F-14-02	shaft area	in fine-grained fubic	-abundant dissensented	834 pp 6 Au
		rock	proite	3 ppm Ag
			- onkerite	•
	east edge	small blub of bull		
F-18-02	of shaft	quartz in mafic	disseminated printe	20 pp 6 A4
		medium grained		1 ppm Ag
		metavolcania rock		
	s 30 m north	Marrow goals ucin		
F-16-02	of Gold Range	in granitic rook	- disseminated proits	15867 pp Ac
	Aat # 2	· ·	- some cubes	17 ppm Ag
	top of nage	- quarte stringers	-abundant disseminated	
F-17-02	above Gold	in granitie	prete	4729 ppb Ay
	Range Adit #2	rock	- well formed	4 ppm Ag
			quartz czystals	
			- Alteration envelops	
	just above	-narrow questz		
F-18-02	Harkness Hoys	vein (15 cm) 17	- lots of prite	6762 ppb A
	Aa.t # 2	matic metadoleanies	- white bull guartz	17 ppm Ag
	iom above	small quartz vein		
F-19-02	Harkness Itays	1	-lots of prests	658 ppb Au
	Hait # 2		-matic inclusions	2 ppm Ag
	- small adit		fine grain ed	

infit Number	Location	Description	Alteration / Mineralization	Assay Result
F-20-02	near Hwy 17	Iron formation	bands of	16 ppb Au
a territoria de la compania de la constanta de	on Hays Lake	well banded	p71st c	1 ppm Ag
	road	fine grained chest		
F-21-02	same outerop	fine grained folsic	bangs of	14 ppb Au
	as abose	rock (chert)	prehotic (magnetic)	
		- very magnetic		
F-33-02	just west of	matic rock	-pyrite, molybokaun	1191 pp6 Au
	shaft	- nerrow quartz vein	and chalcopy este	4 ppm Ag
F-34-02	20 m north	- gonitz uch with	- no sulphides	· *
	of Gold Range	rim of fublishes		32 ppb Au
	part #3	matic metavolcanics	•	
F-35-02	100 m uphill	gaartz with	lots of printe in	
	from Gold Ragi	· ·	quartz and rim	1192 ppb Au
	Adit #1	inclusion 13 cm wide vein	of mafic metavoknie	3 pp A
		13 5.04		
	145m uphill	quatz vein	pyrite within	
F-36.02	from Gold Range	with lots of	matic metavolueus	7000 ppb Au
	Adit #1	masic metauoleanes	Inclosur	5 ppm Ag
		inclusion		
· · · · · · · · · · · · · · · · · · ·				

sample Number	Location	Description	Alteration / Mineralization	Assay Result
F-37-02	weetern most	- breceinted	- late of printe	and the second s
	trench on	- queste voin		1400 ppb Au
	Harkness Hags	with matic mitavolegasis		Зррт Ад
	Vein # 3	clasts		
= 00	first trench east	very narrow quests	- some pyrite	Cust I As
F-38-02	1 about	veins eating mate	in meatic metavoleonics	
	trench	meteroleanes	inclusions	3 ppm Ag
	second trinih	- very narrow quartz	- alteration	
F-39-02	cut of F-37-02	veins cutting matic		377 ppb Au
		netavolcanis	-silkifyeation and	عرام م
			pyrito	•
			- dark yellow proste	
F-40-02	near Hwy 17	graphitic seem	+ lighter yellow	45 ppb An
	on Huny 17		printe cabes	2 ppm Ag
			-some presti modules	
				t
errian madaluus – makan rakusuurinne – e- skuuspaan – makku s				
angan antikan susuning at kalangan su dan susuning an anah susuning an anah susuning an anah susuning an anah				
ng Nitribungan kan kalikat di kananakin Nitribungan kan di sebagai kan				

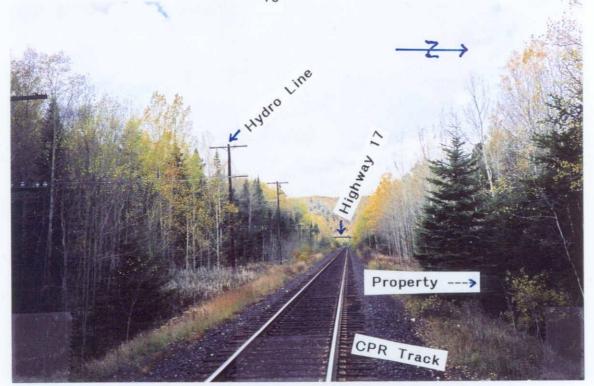


PHOTO #1: CPR Track and Hydro line forms the southern boundary of the property.



PHOTO #2: Breccia noted just west of shaft. Angular mafic intrusive clasts in Feldspar porphyry.



PHOTO #3: Very narrow quartz veins with brown pyritized, silicified alteration envelope. (Assayed 1191 ppb Au).

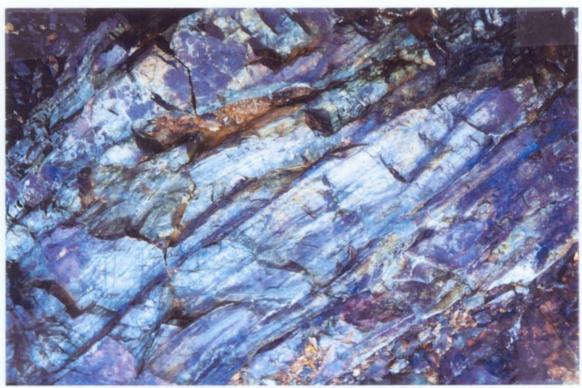


PHOTO #4: Banded iron formation – west end of property.



Photo 5: High Grade Au sample - Polished Slab – large pyrite cubes in quartz Matrix - fine wire gold within fractured pyrite cubes (sample assayed 25 oz Au per ton).



Photo 6: Quartz breccia vein – mafic angular metavolcanic clasts – assayed 7000 ppb Au.



Photo #7: Filled-in trench on Vein #3.

GOLD RANGE PROPERTY

DEVELOPMENT HISTORY AND OWNERSHIP:

PAST:	1917-1919	Claims TB 3326, 3411, 3413, 3588, 3589, 3783, 3795 and 3815 were staked by W.S. Jackson, Harkness, Russell, and Hunt.
		Surface work, including stripping, trenching and shallow test pitting, was undertaken, revealing several auriferous quartz veins, mostly on TB 3326.
	1920	A one-ton bulk sample was taken from TB 3354 and assayed, giving encouraging results.
	1921	In December, the Jackson Development Co. Ltd. was incorporated and transferred and patent licensing procedure began on aforementioned claims.
	1922	Work began on TB 3326; two adits were driven into the hillside to test underground vein extensions.
	1924	All claims were patented and belonged to Jackson Development Co. Ltd.
	1933	The lengths of 1 adits No. 1 & No. 2 were 21 m and 37 m, respectively.
	1934	Newly incorporated Gold Range Mines Ltd. acquired the assets of the Jackson Development Co. Ltd.
		An additional 14 m of drifting was carried out on the No. 2 adit.
		H.R. Turner, consulting engineer, recommended the installation of a sluice to recover placer gold from sand and gravel near the veins.
	1935 _.	Underground exploration was temporarily discontinued in favour of exploiting a placer deposit at the base of the workings using a pit and sluice box with a small pulverizer and amalgamation plate treatment.
	1936	Four shafts (pits) sunk in the overburden sands were systematically sampled; to a depth of 2.7 m in shaft No. 1, values averaged \$13.40 (0.30 ounce per ton Au), those from shaft No. 2 averaged \$11.40 (0.32 ounce per ton Au) to a depth of 5.2 m.

Consulting geologist J. Crookston examined and wrote a report on the property.

Limited development was undertaken on a vein discovered near the granite contact; channel sampling across 1.7 m returned average values of \$12.40 (0.354 ounce per ton Au).

First gold brick of 22 ounces, representing 40% of the total gold concentrates processed to date, was poured on May 31.

Placer operations were temporarily abandoned in August in favour of underground development.

Hammer mill, crusher and vertical steam engine were shipped to the property.

Surface work was carried on throughout the year. Underground work, consisting of about 30 m of drifting and cross-cutting in the two adits was carried out on from August until the end

of the year. Seven veins were reported uncovered up to this time, the most important ones being the No. 2 and No. 3, in the hillside, and No. 7, 152 m south of the No. 2 adit close to the contact of the syenite intrusion. The old 8 m deep shaft on this vein was dewatered this year, samples were taken and three shallow holes were drilled to try to pin down the overburden covered syenite/metavolcanic contact.

A 31.8 kg sample of high grade ore was shipped to the Canadian Allis Chalmers Company for recovery tests. The average head assay was 6.99 ounce per ton Au, with the total gold recovery expected estimated at 99.4 to 99.7%.

A new high-grade vein was discovered during resumption of underground tunnelling; a new adit, the No. 3, was driven a total of 10 m into the hill at a north-westerly angle about 46 m east of the No. 1 adit.

Small test mill remained in operation; diamond drilling was planned.

Forty tons (36.3 tonnes) of ore was reportedly excavated during the year, but little of it was milled.

	17
1937	No underground work was carried out during the year; operations were largely suspended except for camp maintenance.
	Further surface work was undertaken on newly discovered (1936?) massive ore zone on property's eastern boundary which yielded encouraging gold values.
	J.A. Cole examined and recommended the Gold Range property.
	The inspector of Mines, S.A. Bayne inspected the property and requested numerous changes.
1938	No recorded activity.
1939	Systematic examination and sampling program undertaken by Sylvanite Gold Mines Limited; report submitted by G.L. Holbrooke did not favour optioning the property.
1940	Bayrich Gold Mines Ltd. planned to acquire assets of Gold Range Mines Ltd., but these plans were not proceeded with.
1941	Rolac Mines negotiated funding for diamond drilling of 8 patented claims; drilling was reported but no results were mentioned.
	A total of 38.975 tons (35.36 tonnes) of ore from the Gold Range property was treated by custom milling at Magnet Consolidated Mines Ltd. near Geraldton.
1941-1946	No recorded activity.
1946	Rolac Mines reportedly sought further financing.
1947	Company became idle; no development work ensued.
1952	Mining rights to the claims were forfeited to the Crown due to non-payment of taxes.
	Property partially restaked by M.W. Barnes; no work was recorded.
1956	Main showings (formerly claim TB 3326) restaked by J. Allard as TB 77902.
1957	All interest was transferred to Thorncrest Explorations Ltd., no work was recorded.

1964	TB 77902 restaked by R.V. Hangman as TB 110699; all interest was transferred to Hannam Explorations Ltd.
1967	Claim(s) lapsed; restaked by Hannam as TB 132339.
1968	All interest was again transferred to Hannam Explorations Ltd.
1969	Claim(s) lapsed; restaked by R.W. Pitkanen as TB 139094.
1971	Claim lapsed and was restaked by Pitkanen as TB 286592.
1972	Pitkanen's claim lapsed and was restaked by J.E. Halonen as TB 335767; all interest was transferred to W. Acker.
1973	Acker's claim lapsed and he restaked it as TB 350062.
1974	W. Acker restaked TB 350062 as TB 405571.
1975	Fifty percent interest was transferred to J. Santoro.
	Claim lapsed and was restaked by W. Acker as TB 434193.
1977	W. Acker restaked lapsed claim TB 434193 as TB 4595889.
1978	Claim TB 465332 was restaked by W. Acker (former TB 459589).
1980	Mechanical work was carried out on TB 465332.
	Lormac Explorations Ltd. acquired the northern part of former Gold Range property from J.C. Archibald and carried geophysical and geological surveys.
1983	Morgain Minerals Inc., had acquired an option on 7 claims (Gold Range group), including TB 465332, conducted geological mapping and examined the old workings.

1984	Phantom Exploration Services Ltd. was contracted to conduct a ground magnetometer survey over six claims (excluding TB 465332) by Morgain Minerals Inc.
1985	The Gold Range property was held by W. Acker and R. Otto.
1988	Beardmore Resources Ltd. conducted diamond drilling and sampling on the Gold Range and Hays Lake properties. Stripping was conducted on the No. 7 vein.
1991	W. Acker and R. Otto dewatered the No. 7 vein shaft and conducted sampling.
1994	K. Fenwick and D. Leishman staked the Gold range property.
1995	The Gold Range property was optioned by RJK Explorations Ltd.
	No work was performed by RJK
	Explorations Ltd on the Gold Range
	Property.

(schnieders et al., 1996)

HARKNESS HAYS PROPERTY

DEVELOPMENT HISTORY AND OWNERSHIP:

PAST:	1917	H. Harkness restaked two abandoned surveyed claims, 500X and R425 as TB 3327 and 3354 (Vimy Ridge gold property)
1917	-1920	Surface exploration and development work undertaken.
	1920	Bulk sampling of the ore and subsequent testing was carried out at Queen's University, Kingston with encouraging results.
	1921	Claims TB 3327 and 3354 were transferred to M.R. Jackson. The Jackson-Russel claims (TB 3326, etc.) were also acquired. The claims were patented in December.
	1922	Some trenching, tunnelling and sampling was carried out by W.S. Jackson (Jackson Gold Mining Company).
	·	Harkness claims were optioned to C.A. Foster and Glendenning; the Jackson claim (TB 3326?) was taken over by a Detroit interest (to later become part of Gold Range property). A reported \$20,000 was spent on buildings and prospecting.
		Two tunnels, 152.4 m apart, were driven into the hillside for 15.2 m and 30.2 m respectively, exposing two parallel veins on which a small amount of drifting was done.
		A 4.6 m test shaft was sunk on a small stockwork.
	1923	A 76 cm vein was discovered in October and was stripped and trenched over two claims.
	1924	The Tonopah Mining Company were under engagement to examine the Harkness-Jackson property with view to purchase.
·	1925	Harkness-Hays Gold Mining Company was incorporated to acquire and develop the property consisting of claims 3327 and 3354.

Surface exploration was conducted during the summer.

1926 Buildings, including a blacksmith shop, powder magazine, cook camp and sleep camp were erected during the spring.

> Driving of an adit crosscut started on May 20 with hand steel.

Expenditures to date amounted over \$125,000 spent on underground and surface work on eight veins.

Bulk sampling of the No. 1 vein returned values of \$115 (5.56 ounce per ton Au); a 13.7 m tunnel had been driven on this vein.

Vein No. 3 had been stripped for about 152 m displaying a rich, (1.21 ounce per ton Au) ore shoot 53.3 m long and 84 cm wide.

1927 In January, a gasoline-driven compressor, a drill sharpener and rock drills were added.

> The east and west drifts intersected the No. 3 and Nos. 4 and 5 veins respectively, 76.2 m below the surface outcrops. Tunnelling on the No. 1 vein continued.

Work on the adit level was temporarily suspended on August 1, but 366 m of drifting and crosscutting had been completed and surface work continued.

1928 Very little work was reported; the property was idle when visited in August and the past year's accomplishments could not be ascertained.

1929 Following an examination of the 6-claim property, a report was submitted by J.C. Huston, consulting engineer, favouring further development. Based on the encouraging results, management pursued further financing.

1930 W.D. Hays patented TB 5420 and staked TB 9592.

> A total of 0.71 tons (0.64 tonnes) of ore was shipped to Noranda, returning \$71 (4.83 ounce per ton Au).

1932 32 tons (29 tonnes) of ore were milled (location unknown), yielding 71.28 ounces of gold.

1933 Exploration and development resumed during the summer following good assay results.

Harkness-Hays Gold Mines Limited was incorporated in July and acquired the assets of the Harkness-Hays Gold Mining Co. Ltd.

The property consisted of 5 patented claims, TB 3327, 3354, 5420, 6172 and 9592.

Newly incorporated Gold Range Mines Ltd. acquired the assets of the Jackson Development Company Limited, including claim TB 3326.

Preparation for a 25 ton/day mill construction commenced in November with site excavation.

1935 Work carried on from January to mid-April and from mid-July to the end of the year.

A total of 33.5 m of drifting were completed. Approximately 500 tons (453 tonnes) of rock was mined, 119 tons (108 tonnes) were milled and 17 tons (15 tonnes) was sent to Ontario Refining Commission for testing. The test results indicated \$106 gold per ton (3.01 ounces gold per ton; 103.43 grams gold per tonne).

A chute 67 m long was built to conduct ore from the hilltop to the mill and a fifty ton bin was built at the top of the hill for coarse ore storage.

Milling was temporarily discontinued in October to allow alterations to be made to the flow sheet in order to enhance recovery of gold lost in the concentrates.

Operations were largely confined in the stoping of ore from the veins in the hill of which 27 tons (24.5 tonnes) were shipped to Ontario Refining Commission, yielding \$75 gold per ton (2.14 ounces gold per ton; 73.43 grams gold per ton).

Underground work consisted of about 7.6 m of raising and 50 tons (45.4 tonnes) of slashing near the mouth of No. 2 adit.

Kay-Hays Mines Limited was incorporated 1937 in July to succeed Harkness-Hays Gold Mines Ltd. The property consisted of 5 patented claims: TB 3327, 3354, 5420, 7715 and 9592. No work was reported on the property during 1937. 1938 Reports circulated that operations would resume in the spring, including further exploratory work with backing by American financial interests. An official report noted that the company had funds for current needs. 1939 Sylvanite Gold Mines Limited examined the property and conducted a systematic channel sampling program of the veins. According to a report submitted by G.L. Holbrooke, only the No. 3 vein merited interest and the property as a whole was not recommended for optioning. 1940-1948 The company was largely inactive. 1948 The company's Ontario charter was cancelled. Mrs. M.R. Jackson transferred the claims 1965 to Hannam Exploration (1960) Ltd., no work was recorded. 1970 Hacquoil Construction Ltd. of Thunder Bay acquired the patented claims for the gravel contained on them. 1981 Area studied by S. Marmont for the Ontario Geological Survey. 1985 Claims were held by Hacquoil Construction Ltd. who excavated gravel from the old site for construction purposes. The property was optioned by RJK 1995 Explorations Ltd. No work performed on the Harkness Hays property .

ASSAY RESULTS

Number 1 vein sampled during driving of 40 feet tunnel on the vein and channeled at 5 feet intervals gave the following over an average of 32 feet wide.

	u.	6 \$20.67 per oz.	6 \$34.00 per oz.	wide	g/t	m
24	51	\$ 73.80	\$ 121.55	31	122.6	0.91
	10!	49.60	81,26	3151	81.9	1.07
	20	5.60	9.21	3.751	9.3	1.14
	25	44.80	73.69	3.00	74.3	0.91
	201	12,00	19.78	2.75	19.9	0.84
•		5.20	8.55	3.5°	8.6	1,07
	359	22,00	36,18	4.0	36.5	1.22
	40'	29.60	48.67	3.0	49.1	0.91
	45'	9.00	14.80	3.25	14.9	0.99

Houston, J, C., 1929 - Assessment Files

Table 1: Assays of vein #1 - Harkness Hays

Houston, J, C., 1929 - Assessment Files

The outcrop of number 3 voin was sampled at 5 feet intervals and Cave the following results:

	width	\$34.00 per oz.	g/tonne	cm
		•		
1	12 in.	\$ <u>3</u> 0.28	30.5	30.5
2	12 " 12 "	5.26	5.3	30.5
3	4, €	5.92	6.0	30.5
4	-	5.95	4.0	61.0
5	36 "	_7.24	7.3	91.4
6	30 "	_5,92	6.0	76.2
7	7 1	44.76	<u>45.1</u>	17.8
8	14 "	217.88	219.7	35.6
9	12 "	7.89	8.0	30.5
10	7.2 "	5.26	5.3	30.5
11	" s.c	_9.21	9.3	30.5
12	15 "	8.56	8.6	38.1
13	15 "	_10.53	10.6	38.1
14	70 "	2.63	2.7	25.4
15	10 "	7.24	7.3	25.4
16	15 "	5.26.	5.3	38.1
17	· · 12 "	4.60	4.6	30.5
18	15 "	2.96	3.0	38.1
19	15 "	3.95	4.0	38.1
20	ī8 "	. 4.60	4.6	45.7
21	24 "	3.96	4.0	61.0
22	. 12 "	18.43	18.6	30.5
23	. 12 "	61.22	61.7	30.5
24	' 12 "	409.45	412.9	30.5
25	. 24 "	556.79	359.8	61.0
26	18 "	670.13	675.8	45.7
27	10 "	1385.05	1396.7	25.4
28	` 12 "	7.83	8.0	30.5
29	18 "	142.19	143.4	45.7
30	24 ".	. 21.00	21.2	61.0
31	. 36 "	64.51	65.1	91.4
,32	50 . "	23.7.89	219.7	127.0
33	72 "	214.53	216.4	182.9
34	72. "	1.54.04	155.3	182.9
35	60 "	106.64	107.5	152.4
36	36 "	1.05.38	106.9	91.4
37	_ 56 . ^H	13. • 85	11.9	91.4
38	12 "	_ 9 <u>.2</u> 1	9.3	30.5
39	12 "	50J. • 1J. :	505.3	30.5
40	i2 "	75.04	75.7	30.5
41	24 "	95.12	95.9	61.0
42	ız "	222.39	224.3	30.5
43	12 "	222.49	224.4	30.5
-14	14 "	26.99	27.2	35.6
45	10"" 30"	56. <u>61</u>	57.1	25.4
46	. 30 "	22.35	22.5	76.2
47	1.0 "	25.01	25.2	25.4
48	12 "	22.30	22.6	30.5
49	le "	17.12	17.3	30.5
50	14 "	48.71	49.1	35.6

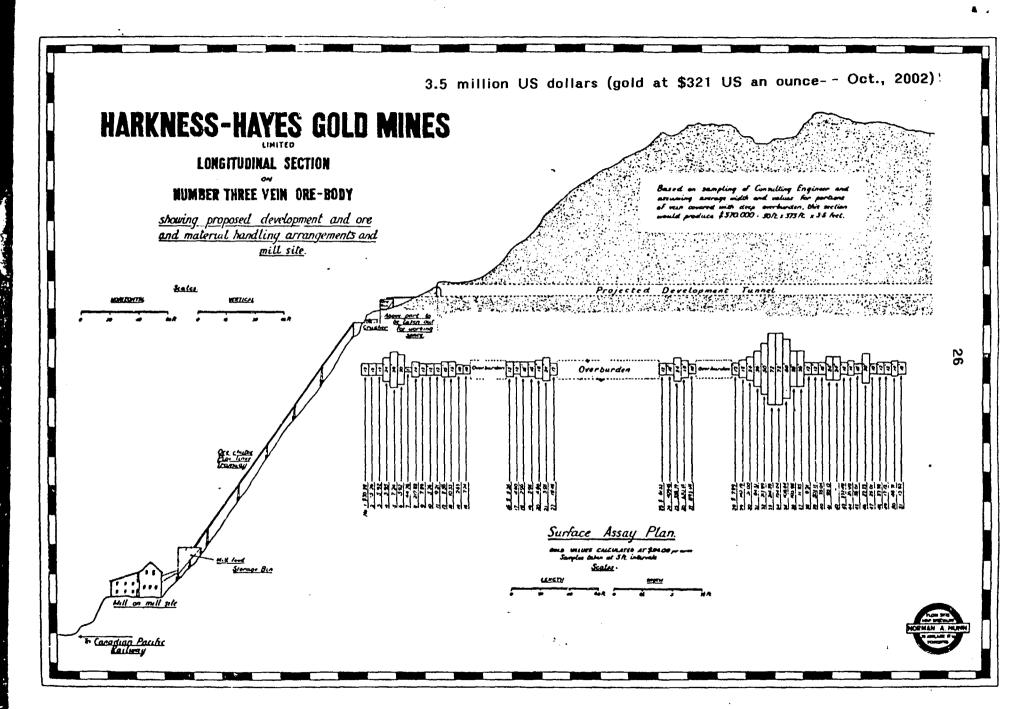
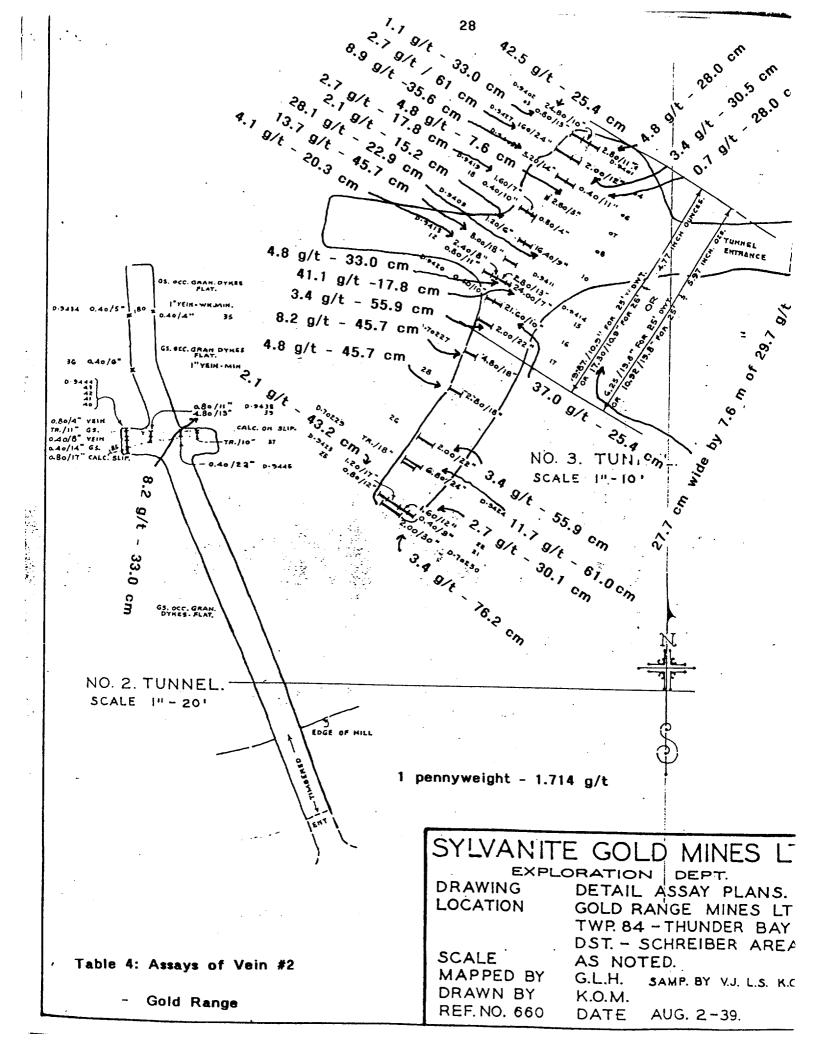


Table 2b: Vein #3 Ore Reserves

YEIN HO: 4.

ASSAY RESULTS

		@ \$20,67 per oz.	0 \$34,00 per os	g/t	cm
7-D	8 in.	\$ 100.80	\$ 165.80	167.2	20.3
8-D	4 in.	128.80	211.86	213.6	10.2
24-D	24 in.	407.20	669.80	675.3	61.0
2 5- D	8 in.	347,20	871.10	575.8	20.3
26-D	18 in.	248.80	409.25	412.6	45.7
27-D	10 in.	37.20	61.19	61.7	25.4
28-X	18 in.	80.80	50.66	51.1	45.7
29-D	13 in.	12.40	20.39	20.6	33.0
~ 30mD	le in.	9.60	15.79	15.9	30.5
31-D	10 in.	14.40	23.58	23.9	25.4
35-D	12. in.	440.40	724.41	730.4	30.5
86-D	12 in.	3.60	5.91	6.0	30.5
87-D	12 in.	8.20	5.16	5.2	30.5
38-D	12 in.	5.60	9.21	9.3	30.5
30 -D	6 in.	8.40	15.81	13.9	15.2
40-D	6 in.	19.40	31,91	32.2	15.2
41-D	6 in.	13.60	28.37	22.6	15.2
42-D	6 in.	14.40	23.68	23.9	15.2
45-D	10 in.	8.80	14.47	14.6	25.4
44-D	6 in.	9.60	15.79	15.9	15.2





A DIVISION OF ASSAY LABORATORY SERVICES INC. MINERAL ASSAY DIVISION



1070 LITHIUM DRIVE, UNIT 2

THUNDER BAY,

ONTARIO P7B 6G3

FAX (807) 623 6820 PHONE (807) 626-1630

EMAIL accuracy@tbaytel.net

WEB www.accurassay.com

Certificate of Analysis

Thursday, September 12, 2002

Fenwick, Ken, Geological Consultant

84 Velva Avenue

Thunder Bay, ON, CA

P7A6N5

Ph#: (807) 344-6568 Fax#: (807) 345-0916

Email

Date Received: 03-Sep-02 Date Completed: 12-Sep-02

Job# 200240654

Reference:

Sample #: 8

Rock

Accurassay #		Client Id	Au ppb 834	Pt ppb	Pd ppb	Rh ppb	Ag ppm	Co ppm	Cu ppm	Fe ppm	Ni ppm	Pb ppm	Zn ppm
23203		r-14	954				3						
2520 6		F-15	20				1						
25207		F-16	15867				17						
25208		F-17	4729				4						
25209		F-18	6762				17						
25210		F-19	653				2						
25211		F-20	16				ı						
25212		F-21	14				< 1						
25213	Check	F-21	14				< 1						

PROCEDURE CODESTAL BAILS, ALANG

Certified By: AL917-0072-09/12/2002 07:51 PM Page 1 of 1



A DIVISION OF ASSAY LABORATORY SERVICES INC. MINERAL ASSAY DIVISION



1070 LITHIUM DRIVE, UNIT 2 PHONE (807) 626-1630 FAX (807) 523 5820

THUNDER BAY,

ONTARIO P7B 6G3

EMAIL accuracy@tbaytel.net

WEB www.accurassay.com

Certificate of Analysis

Thursday, October 31, 2002

Fenwick, Ken, Geological Consultant

84 Velva Avenue

Thunder Bay, ON, CA

P7A6N5

Ph#: (807) 344-6568 Fax#: (807) 345-0916 Email kicnwick@tbaytel.net Date Received: 16-Oct-02

Date Completed: 30-Oct-02 Job # 200240945

Reference:

Sample #: 4

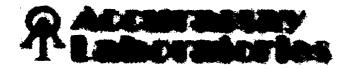
Rock

Accurassay #		Client Id	Au ppb	Pt ppb	Pd ppb	Rh ppb	Ag ppm	Co ppm	Cu ppm	Fe ppm	Ni ppm	Pb ppm	Zn ppm
37046		F-33-02	1191	F 1	F-,	, , , ,	4		F 1	• •	• •	• •	
37047		F-34-02	52				< 1						
37048		F-35-02	1192				3						
37049		F-36-02	6469				6						
37050	Check	F-36-02	7000				5						

PROCEDURE CODES: ALAAUS, ALAAG Certified By:

Page 1 of 1

ALS:7-0072-10/31/2002-04-07-PM



A DIVISION OF ASSAY LABORATORY SERVICES INC. MINERAL ASSAY DIVISION



1070 LITHIUM DRIVE, UNIT 2

THUNDER BAY,

ONTARIO P7B 6G3

PHONE (807) 626-1630 FAX (807) 623 6820 EMAIL accuracy @tbaytel.net

WEB www.accurassay.com

Certificate of Analysis

Saturday, November 02, 2002

Fenwick, Ken, Geological Consultant

84 Velva Avenue

Thunder Bay, ON, CA

P7A6N5

Phili: (807) 344-6568 Facili: (807) 345-0916

Email kilenwick@theytol.net

Date Received: 28-Oct-02

Data Completed: 01-Nov-02

Job # 200240995

Reference:

Sample #: 4

Rock

Accurassay #	Client Id	Au ppb	Pt ppb	Pd ppb	Rh ppb	ppm	Co ppm	Cu ppm	Fe ppm	Ni ppm	Pb ppm	Zn ppm
39613	37	1400				3						
39614	38	644				3						
39615	39	377				2						
39616	40	45				2						
39617 Chec	2k 40	45				2						

PROCEDURE-CODES:OR Certified By:

AL#17-0072-11/02/2002 07:33 PM



Work Report Summary

Transaction No:

W0240.01700

Status: APPROVED

Recording Date:

2002-NOV-06

Work Done from: 2002-AUG-25

Approval Date:

2003-JAN-22

to: 2002-OCT-23

Client(s):

159212

LEISHMAN, DONALD MURRAY

300118

FENWICK, KENNETH GEORGE

Survey Type(s):

ASSAY

GEOL

Work Report Do	<u>etails:</u>								
Claim#	Perform	Perform Approve	Applied	Applied Approve	Assign	Assign Approve	Reserve	Reserve Approve	Due Date
G 4040008	\$1,093	\$1,093	\$0	\$0	\$0	0	\$1,093	\$1,093	
TB 1196889	\$1,200	\$1,200	\$1,200	\$1,200	\$0	0	\$0	\$0	2005-NOV-07
	\$2,293	\$2,293	\$1,200	\$1,200	\$0	\$0	\$1,093	\$1,093	-

External Credits:

\$0

Reserve:

\$1,093

Reserve of Work Report#: W0240.01700

\$1,093

Total Remaining

Status of claim is based on information currently on record.



42D14SE2009 2.24476

PRISKE

900

Ministry of Northern Development and Mines

Ministère du Développement du Nord et des Mines

Date: 2003-JAN-22



GEOSCIENCE ASSESSMENT OFFICE 933 RAMSEY LAKE ROAD, 6th FLOOR SUDBURY, ONTARIO P3E 6B5

Tel: (888) 415-9845

Fax:(877) 670-1555

Submission Number: 2.24476 Transaction Number(s): W0240.01700

KENNETH GEORGE FENWICK **84 VELVA AVENUE** THUNDER BAY, ONTARIO P7A 6N5 CANADA

Dear Sir or Madam

Subject: Approval of Assessment Work

We have approved your Assessment Work Submission with the above noted Transaction Number(s). The attached Work Report Summary indicates the results of the approval.

At the discretion of the Ministry, the assessment work performed on the mining lands noted in this work report may be subject to inspection and/or investigation at any time.

Note, in subsequent submissions that contain assays, please ensure that the sample identification number and sample locations are plotted on one or more plan maps at a scale between 1:100 and 1:5,000.

If you have any question regarding this correspondence, please contact STEVEN BENETEAU by email at steve.beneteau@ndm.gov.on.ca or by phone at (705) 670-5855.

Yours Sincerely,

Ron Gashinski

Senior Manager, Mining Lands Section

mc codal.

Cc: Resident Geologist

Donald Murray Leishman

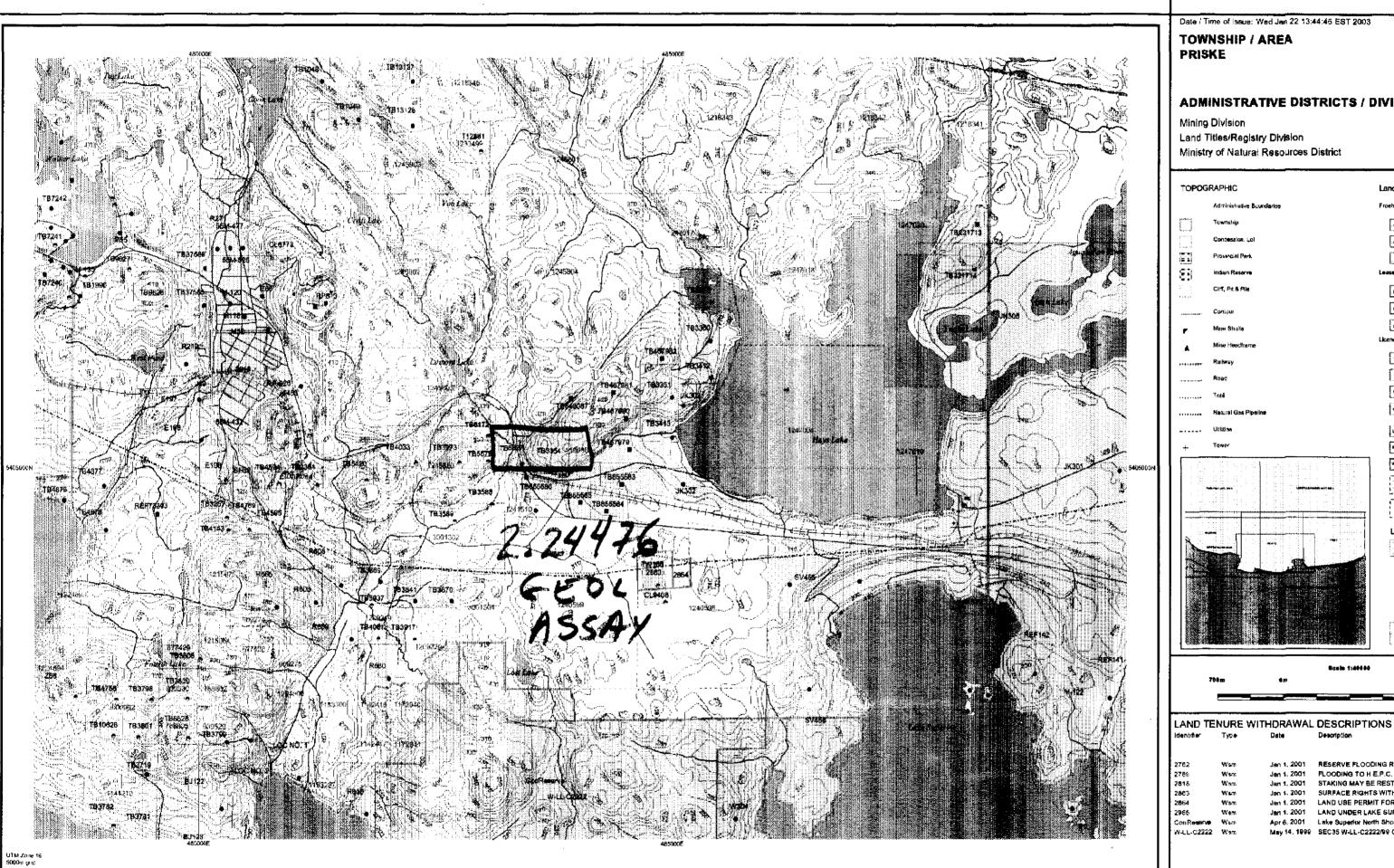
(Claim Holder)

Kenneth George Fenwick (Assessment Office)

Assessment File Library

Kenneth George Fenwick

(Claim Holder)



Those wishing to stake mining claims should consult with the Provincial Mining Recorders' Office of the Ministry of Northern Development and Mines for additional information on the status of the lands shown hereon. This map is not intended for navigational, survey, or land title determination purposes as the information shown on this map is compiled from various sources. Completeness and accuracy are not guaranteed. Additional Information may also be obtained through the local Land Titles or Registry Office, or the Ministry of Natural Resources.

The information shown is derived from digital data available in the Provincial Mining Recorders' Office at the time of downloading from the Ministry of Northern Development and Mines web situ.

General Information and Limitations

Sudbury ON P3E 685 Home Page: www.mndm.gov.on.ca/MNDM/MINES/LANDS/mlsrnnpge.htm

General information and climitations

Contact Information:

Toll Free

Map Datum: NAD 83

Provincial Mining Recorders' Office

Villet Green Miller Centre 933 Remsey Lake Road

Sudbury ON P3E 8B5

Toll Free

Map Datum: NAD 83

Toll Free

Toll Free

Map Datum: NAD 83

Toll Free

Topographic Data Source: Land Information Ontario

Mining Land Tenure Source: Provincial Mining Recorders' Office

This map may not show unregistered land tenure and interests in land including certain patents, leaves, exsements, right of ways, flooding rights, licences, or other forms of disposition of rights and interest from the Crown. Also certain lend tenure and land uses that restrict or prohibit free entry to stake mining datms may not be illustrated.

ONTARIO

Mining Land Tenure Мар

Date / Time of Issue: Wed Jan 22 13:44:45 EST 2003

TOWNSHIP / AREA PRISKE

TOPOGRAPHIC

PLAN G-0631

ADMINISTRATIVE DISTRICTS / DIVISIONS

Mining Division Land Titles/Registry Division Ministry of Natural Resources District Thunder Bay THUNDER BAY **NIPIGON**

Mining Rights Only

Mining Acts Withdrawal Types

IMPORTANT NOTICES

2,1km

Land Tenure

Freehold Pater Administrative Boundaries Provincial Parl oe: **A**. 1234567 1234587 LAND TENURE WITHDRAWALS 1234

Jan 1, 2001 FLOODING TO H.E.P.C. TO CONTOUR 905 ON THE AGUASABON RIVER AND E Wen 2864 2965 Wem

STAKING MAY BE RESTRICTED BY SEVERAL SECTIONS OF MINING ACT - PLE SURFACE RIGHTS WITHDRAWN FROM STAKING PERMANENTLY BUFFER ZO LAND USE PERMIT FOR SLUDGE STORAGE LAND UNDER LAKE SUPERIOR WITHDRAWN FROM STAKING BY O.C. DATED Apr 6, 2001 May 14, 1999 SEC35 W-LL-C2222/99 ONT MAY 14/99 M&S - Notice, this withdrawal area to

42D14SE2009 2.24476

200

