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Report on Mapping At the Madsen Mine (Owned by Claude Resources, Saskatoon Manitoba) By Placer Dome Canada Ltd. for Purposes of Assessment Filing 2001



Scott Petsel - Geologist Tuesday, August 8th, 2000





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Introduction

This report documents the 1" = 100' scale mapping of the Madsen Mine's Central Deformation – Iron Carbonate zone as completed between July 6th and August 8th, 2000 by consulting geologists, Scott Petsel and Peter Read. The evaluation was completed with the help and support of the geology department at the Campbell Mine for the benefit of the Placer Dome's regional exploration program in the Red Lake District. Stuart Morris, Placer Dome's Chief Geologist, at the Campbell Mine was responsible for defining the objectives of the evaluation and supervised the evaluation team.

The Madsen Mine is the Red Lake District's 3rd largest producer, having produced 2.5 million ounces (moz) historically. The Madsen property is sizeable with 224 patented claims covering over 10,000 acres. Although improving with the recent work of the Ontario Geologic Survey, the geology of the mine property remains poorly understood but highly prospective. <u>Claude Resources, the Saskatchewan based junior</u> company and operator of the Seabee mine, is currently owner of the Madsen property. The evaluation was completed entirely under a confidentiality agreement between Placer Dome Canada Limited (PDCL) and Claude Resources with no financial responsibility between either party.

Property and Location

The Madsen Mine is located in northwestern Ontario, Canada approximately 10 kilometers from the town of Red Lake and 25 kilometers from Placer Dome's Campbell Mine (Figure 1). The mine property is fully accessible and crosscut by a 2-lane, paved highway (Hwy. 216). The property straddles the Baird and Heyson Township boundary. The UTM coordinates of the #2 Shaft, Madsen's main production shaft, are 435,519E, 5,646,326N. The claims are located on the Ministry of Natural Resources claim map plan G-3739.

The topography, fauna and flora are typical of the Canadian Shield, characterized by small hills with pine and deciduous forest cover and locally intermittent swamps. Lakes cover 20-30% of the property and limit access to those areas not currently accessible by road.

History

The history of the Madsen Mine provides an understanding of the difficulties in evaluating the potential of the property. A brief account follows:

Madsen Red Lake Gold Mines Ltd. (MRLGM) was incorporated in 1935 and began working the #1 Vein to the 5th level from the #1 Shaft. In 1936, a company geologist, Austin McVeigh, found mineralization approximately 3000 feet to the west of the #1 Shaft. In 1938 the #2 shaft was sunk on the mineralized units that now bear his name and production began at 300 ton per day (tpd). This was later increased to 800 tpd. In 1962 the shaft was enlarged and this shaft is still used by current owner, Claude Resources.

In the early 1970's, after more than 30 years of continuous production, MRLGM began to struggle with an orebody that was becoming increasingly deep and laterally far from the shaft. The shaft bottom, 4300 feet from the collar, was set within an ultramafic unit. A stockholder dividend program that funneled profits away from the mine was limiting exploration funds and the known ore was gradually being mined out. A last ditch effort to review exploration opportunities led to the discovery of a high-grade vein now named the #8 Zone. Drifts were driven west from the shaft, through the ultramafic package, to reach the zone. Severe ground control problems were encountered in the ultramafics. The ore was developed from more competent andesitic rocks found within the footwall of the ore. Before production commenced the mine closed. The closure of the mine was largely due to the problems mentioned above, but a labor dispute appears to have been the final blow. The threat of an on-coming strike caused the management to sell the mine to another company with the #8 Zone reserves largely intact. MRLGM sold the property to Bulora Mining Co. in 1974. In 1976, having pillaged the #8 Zone without leaving detailed geologic or production records of current standards, Bulora went bankrupt.

A former MRLGM employee formed Madsen-Rowland Mines and revived the property in late 1976. Madsen-Rowland Mines was able to consolidate the Starrat Mine into the property land package in the late 70's, otherwise the project sat idle for a period of years. From 1980 to 1983, Noranda optioned the property and attempted to recompile records while recalculating the reserves based on 6-foot mining widths. They briefly drilled and explored an area of the McVeigh tuff and a few extensions of the mine before reverting the property to its owner. In 1988, the Madsen Gold Corporation acquired the property and added the Aiken-Russet ground to its holdings.

In 1997, Claude Resources acquired the property from Madsen Gold Corporation and consolidated the Buffalo Mine into the Madsen-Starrat land package completing the 10,000-acre total. They rehabbed portions of the upper levels of the mine, mined pillars, drilled shallow targets and open-cast mined for bulk sampling purposes on several narrow veins (DeVilliers and #1 Zone). A ramp was also driven on the McVeigh mineralized "tuff" and small stopes produced minor amounts of gold. A more accurate historical account can be found in the Madsen Gold Corp., Feasibility Report, 1993.

2001 Mapping and Traverses

Several surface traverses were executed during the summer of 2001 to assist in the evaluation of the Maficultramafic contact in the "Central Deformation – Iron Carbonate Zone" of the Madsen Property. The preexisting 1"= 400'scale map constructed from historic data and field outcrop mapping was used to confirm gross lithologies. Many of the significant outcrops thought to be important to the overall geologic picture were visited. The traverses were accompanied by the completion of the 1" = 200' scale map that is enclosed with the report. An existing local grid was used for location in the field. Mapping was completed on claims 11509, 12821, 12820, 12522, 12527a (figure 2). Within the mapped areas there are large stripped outcrops known as the Upper and Lower Stripped Areas on sections 13100E and 13400E. These outcrops expose the contact relationship between tholeiitic pillow basalts and an ultramafic flow and represent a focal point of the 1"=200' mapping.

During the traverses, structural observations, lacking on most previous Madsen work, were recorded in a field notebook for future plotting in stereographic projection. A copy of the field notes has been kept with the Madsen data files.

General Geology

The property lies in the northeast corner of the east-west trending Red Lake greenstone Belt of the Uchi Subprovince of the Archean Superior Province of the Canadian Shield. In the Red Lake area the belt consists mainly of volcanic rocks and lesser amounts of clastic sedimentary and is bounded on all sides by large batholiths.

Property Geology

Elements of the regional geology required to place the Madsen Mine in a regional context were gathered from existing articles (Sandborn-Barrie et al., 2000 and others) and knowledgeable Placer Dome staff. At the Madsen Mine many qualified geologists have written detailed geologic descriptions of lithologic units over the years. More recent reports with which to get a more encompassing picture of the geology at Madsen are provided by, Dube' et al., 2000 and Zhang, 1996. The following geologic description will attempt to provide a brief summary of the general geologic setting.

The Madsen property is underlain by the Archean age, Balmer and Confederation Assemblages of weakly to moderately metamorphosed volcanic dominated sequences. The two assemblages are separated by an angular unconformity that represents a minimum 200 million-year time gap.

The Balmer Assemblage ranges in age between 2.99 Ga and 2.96 Ga and is characterized by tholeiitic pillowed to massive basalts interlayered with subvolcanic intrusions and ultramafic flows of komatilitic affinity.

The Confederation assemblage has been dated on the Madsen property in two locations and shows ages of 2.744 +/-1 Ga 2.746 +36/-17 Ga., respectively. Rocks of the Confederation package are more felsic in nature. The assemblage contains mafic volcaniclasitc rocks, gabbros, dacites, spherulitic rhyodacites, rhyolites and quartz or quartz-feldspar, porphyritic, crystal lapilli tuffs.

Recent work by Dube' et al., 2000 and Sandborn-Barrie et al., 2000, have identified a polymictic conglomeratic unit basal to the confederation assemblage and define it's lower contact as the unconformity between the Balmer and Confederation rocks. A recent date taken from the conglomerate show detrital zircons of Ball age (2.94 Ga) within the unit and hydrothermally reset zircons coincident with intrusive activities, namely the Killala-Baird Batholith (2.708 Ga). This unit lies just above the Austin mineralized "tuff" and its true age is unknown. The conglomeratic unit displays the effects of moderate deformation characterized as D2 by Dube' et al., 2000. A bedding parallel S1 (N030/65°) foliation in an elongate clast is locally crenulated by S2 (N087/70°).

The corridor of weak to moderate deformation which characterizes the structural features of the polymictic conglomerate mentioned above and the Madsen mineralization is known as the "Howey Bay-Flat Lake Deformation Zone"(HBFL). The corridor of heterogeneous, weak to moderate, differential strain exhibits minor tight folds with a consistent SW vergence, flattening features, rotated grains with strain tails indicating left lateral motion or SW vergence, weak C-S fabrics locally, elongation lineations (2:1) and a variably exposed SW-NE axial planar (S2) cleavage. The corridor, where observed, is no more than several hundred feet wide. Outside of the corridor the structural features that characterize the HBFL are difficult to recognize. A high strain gradient is indicative of the rapid change from highly deformed to undeformed pillows noted in the detailed mapping of the Central Iron-Carb Zone completed during this evaluation and at the 8600 Zone near Starrat.

Other deformation corridors parallel to the HBFL are apparent and have been documented by Zhang 96'. These include the Central Deformation Zone, trending N010° centered on the eastern shore of and under Russet Lake, and the Western Deformation Zone west of Russet Lake (striking N340°). Faults of significant size were not recognized from the surface mapping.

Alteration

Both the Balmer and Confederation sequences are metamorphosed to varying degrees of greenschist grade. An amphibolite facies metamorphism as a result of metasomatic activity related to plutonism is found along the trend of the mineralized Austin and McVeigh "tuffs" and as a thermal aureole haloing the intrusives.

Hydrothermal alteration proximal to the Madsen ore body is well described by Dube' et al., 2000 as comprising variable portions of andalusite, staurolite, garnet, choloritoid, biotite and quartz. The deposits two alteration facies can be characterized as an aluminous outer zone and an inner zone.

The outer aluminous zone is generally meters to 10 of meters wide. Tholeiitic pillows in the aluminous outer zone are generally replaced by biotite, garnet, and alusite and actinolite. The outer alteration zone is generally barren and exhibits low strain.

The inner alteration zones are characterized a metasomatic layering or banding of biotite and amphibolerich bands that is produced by replacement, impregnations and fracture filling (Dube' et al., 2000). The McVeigh and Austin mineralized zones are located within the inner alteration zone. The inner zone displays depleted sodium and carbonate with high potassium and sulfide.

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Mineralization

Mineralization surrounding the Madsen #2 shaft is contained in altered mafic volcaniclastics known as the Austin and McVeigh "tuffs". Mineralization consists of sulfide replacement-style lenses of laminated, veined and disseminated pyrite, pyrrhotite, and arsenopyrite with occasional chalcopyrite. Sulfide content does not seem to be a characteristic of high-grade mineralization. 10-30% pyrite is generally barren. Better gold values may be found in rocks of 5-10% pyrite. Gold mineralization may have a relationship with silicification and arsenic or antimony. Quartz veining in the ore body is usually small, discontinuous and contains insignificant gold values (Dube' et al., 2000). High-grade mineralization can be found as lenses focused in the nose of F2 folds surrounded by a folded shell of lower grade mineralization. The lenses of mineralization are parallel to foliation and 20° oblique to the strike of the lithologic contacts. Individual lenses are generally elongate in the dip direction. Collectively the lenses rake down the fold nose to the NE at 40-50 degrees. The replacement style mineralization of Madsen is atypical of the Red Lake district.

The Central Iron-Carb Zone Detailed Mapping

The Central Iron-Carb Zone mapping of the upper and lower stripped areas delineates the contact between a thick sequence of relatively undeformed tholeiitic pillow basalts and a gooey talcose/serpentinized ultramafic displaying a high degree of attenuation. The location of the mapped outcrops can be found in Figure 2. The pillow basalts have been chlotitized and sericitized and contain cherty interstitial material. They are not flattened and do not display a foliation. They are however, cut by an alteration/solution channel that displays "hydrothermal karsting" on weathered surfaces, a high degree of foliation, faulting and occasional quartz veining. The solution channels are similar in mineralogy and alteration to the inner alteration zone consisting of banded biotite-chlorite and carbonate and appear in two orientations N120 and N-S to N030. The unit in the layer parallel direction occasionally appears to cut up section. The N120 direction contains localized ore grade intercepts and may have a component of right-lateral offset.

The iron-carb horizon in the Central Iron-Carb Zone is well exposed and traceable in the detailed mapping. This zone appears to be layer-parallel and exists of carbonate and ankerite as latticework veins in (pillow shaped?) lenses of iron oxide. This zone may represent a variation of the hydrothermal karsting

The contact between the ultramafic rocks and the tholeiitic basalts is conformable and locally cut by latestage dioritic intrusives, which exhibit black wall alteration, chill margins and silicification halos on the order of a few feet. The dip of the contact in the surface exposure is moderately steep, 65°. This varies widely from its next known location at depth where mapping of the same interpreted contact through several levels shows a dip of 35-45 degrees.

The ultramafic package of rocks in the lower stripped area is strongly attenuated and extremely soft due to the addition of talc the serpentine into the unit. More competent units within the ultramafic complex are strongly boudined as is seen in the bra-shaped boudin of peroxenite in the lower stripped area. Foliation within the unit is contact and layer parallel for the most part but a fold nose plunging moderately NNW is recognized in the outcrop. It is doubtful whether competent veins could propagate through the unit but the competency contrast between the units may localize mineralization along its contacts. Study of the ultramafic package along strike indicates that large rafts of undeformed and unaltered tholeiitic pillow basalts do exist within the unit. These rigid bodies may host mineralization where crossed by vein structures within the unit. Or, just as likely, mineralization may occur in the strain shadow of the large rigid bodies in the unit as some evidence may suggest for the #8 Zone.

Summary

A portion of the Work program during the summer of 2000 consisted of the construction of a 1"=100' scale map of the Central Deformation/iron carbonate zones on the Madsen Property. Much was learned about the geology that has benefited the review of the property for potential mineralization.

Further detailed mapping is recommended across Russet Lake and along strike to further outline and define the stratigraphy for the purpose of evaluating the potential for mineralization on the property.

References

Dube', B., Balmer, W., Sanborn-Barrie, M., Skulski, T.,

2000: A preliminary report on the amphibolite-facies, disseminated-replacement-style mineralization at the Madsen Gold Mine, Red Lake, Ontario; Current Research 2000-C17; Geologic Survey of Canada. 11p.

Madsen Gold Corporation (MGC),

1995?; Promotional material; 4 p.

Madsen Gold Corporation (MGC),

1993: Feasibility report on the Madsen Mine; In-house report; 131 p.

Panagapko, D.,

1999: Report on the 1988 exploration program on the Madsen Gold Corp. Property, Red Lake District Ontario; In house report prepared for Claude Resources; 68 p.

Parker J. R.,

2000: Volcanogenic Massive Sulfide (VMS) mineralization in the Red Lake greenstone belt, Northwestern Ontario, Western Superior Province; Ontario Geologic Survey; In progress; 16 p.

Sandborn-Barrie, M., Skulski, T., Parker, J., Dube', B.,

2000: Integrated regional analysis of the Red Lake greenstone belt and its mineral deposits, western Superior Province Ontario; Current Research 2000-C18 Geologic Survey of Canada. 16 p.

Zhang, G.,

1996: Report on the field studies of structure, alteration and Au mineralization of the southwestern part of Madsen Gold Corp. Property, Red Lake Greenstone belt, western Ontario; In-house report for Madsen Gold Corp.; 33 p.

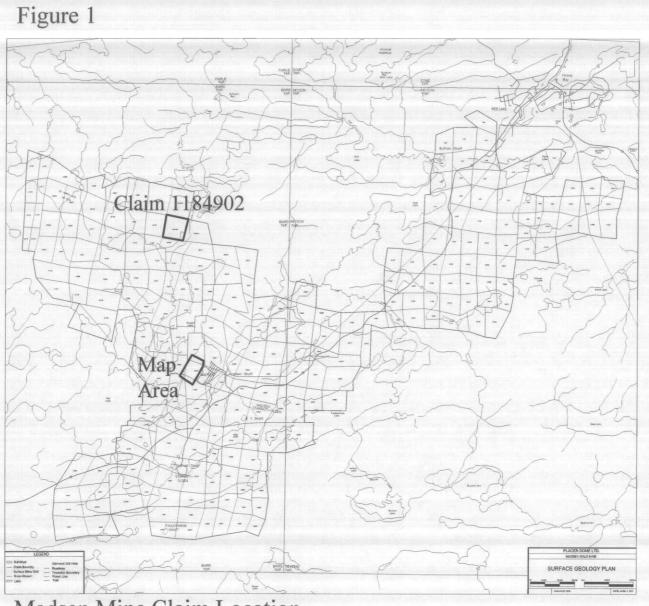
Statement of Qualifications

I Scott A. Petsel, do hereby certify that:

- I am a private geologic consultant receiving compensation from Placer Dome Canada Ltd. For an evaluation of the Madsen Mine Property.
- I graduated from Fort Lewis College in 1987 and hold a Bachelor of Science Degree in Geology.
- I have been practicing my profession continuously since graduation and have worked in the USA, Canada, Russia, Mexico and The Philippines.
- I am a Certified Professional Geologist (CPG-10071) registered with the American Institute of Professional Geologists (AIPG).
- I am directly responsible for the work outlined in this report
- I have no interest, either direct or indirect in Claude Resources, nor do I expect to receive any, and I have written this report as an independent consultant.

Signed at Balmertown, Ontario, this 8th day of August 2000.

Scott A. Petsel, B.Sc. CPG-10071 Consulting Geologist

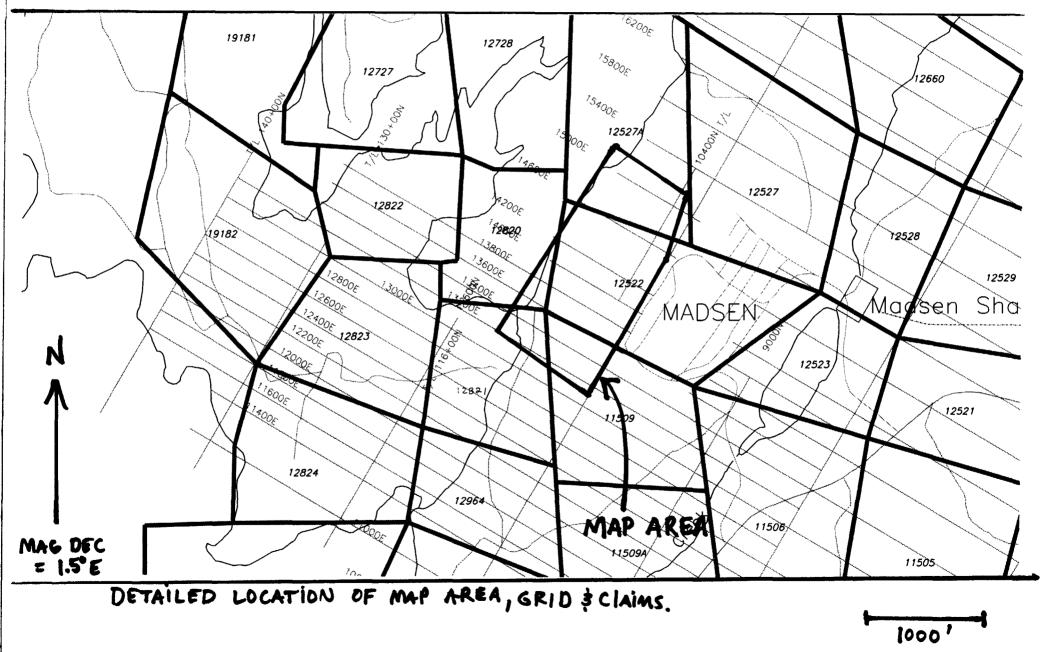


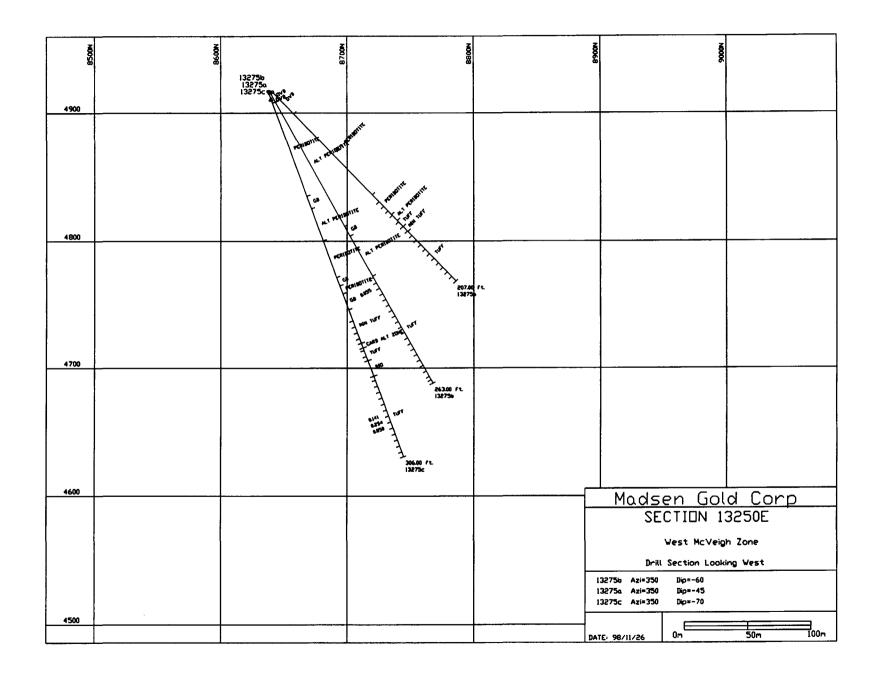
Madsen Mine Claim Location and Contiguity Map

1000m

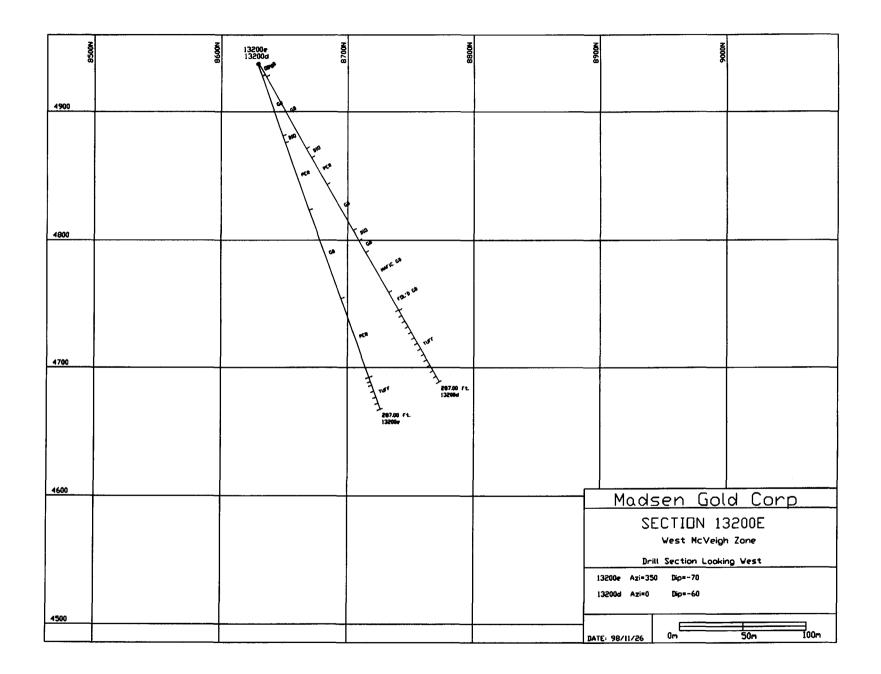
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FIGURE 2

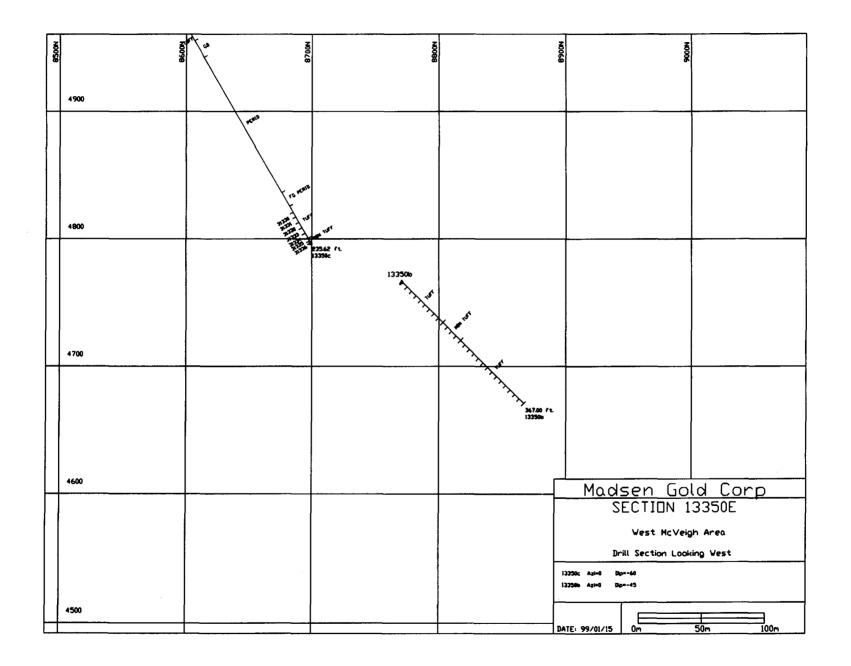




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2001 Diamond Drilling

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lt	light
diss	disseminated
ро	pyhhrotite
ру	pyrite
сру	chalcophrite
mag	magnetic/magnetite
wk	weak
mod	moderate
Foln	foliation
brkn	broken
ω	with
cb	carbonate
F. P.	feldspar porphyry
epi	epidote
Q	quartz
fg	fine grained
mg	medium grained
cg	coarse grained
pos	possibly
uct	upper contact
lct	lower contact
altn	alteration
chl	chlorite
stg	stringers
vnlt	veinlet
asso	associated
ct	contact
bs	bracket sample

core axis minor trace breccia same as above biotite garnet xcutting cross cutting quartz vein ÉОН end of hole overburden very hema hematite sphalerite lamprophyre lamp grey green med medium brown alt'n alteration alt'd altered dark to core axis peridolite perid peridolite diorite gabbro

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NENMAC INDUSTRIES LTD.

CONTRACT DIAMOND DRILLING TELEPHONE (604) 573-5351 • 5351 BLUNDELL PLACE, KAMLOOPS, B.C. V2C 6C8

October 08, 1998

Invoice # M004

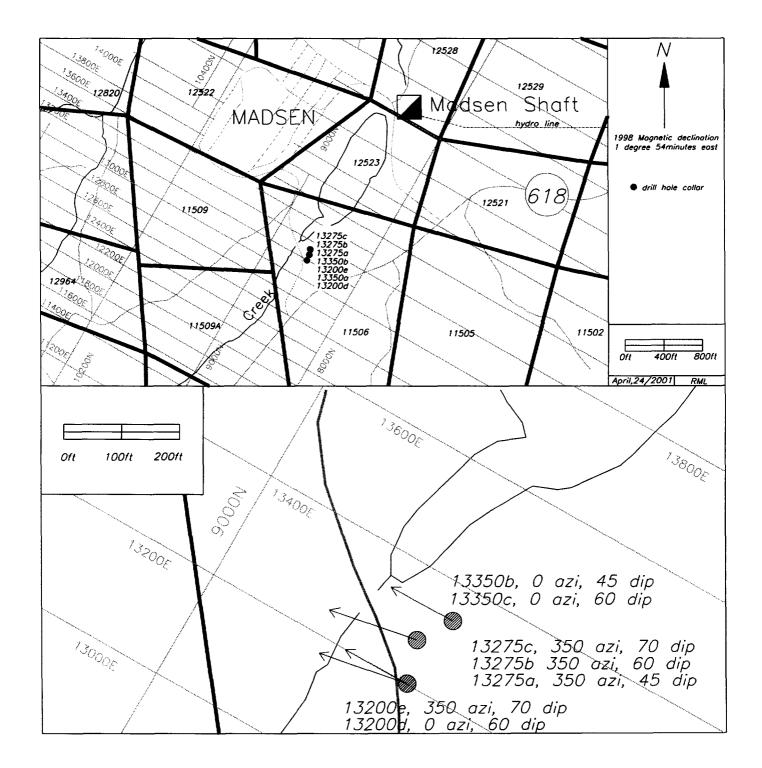
Claude Resources Inc. P.O. Box 7380 200,224 - 4th Avenue South Saskatoon, Saskatchewan S7K 5M5

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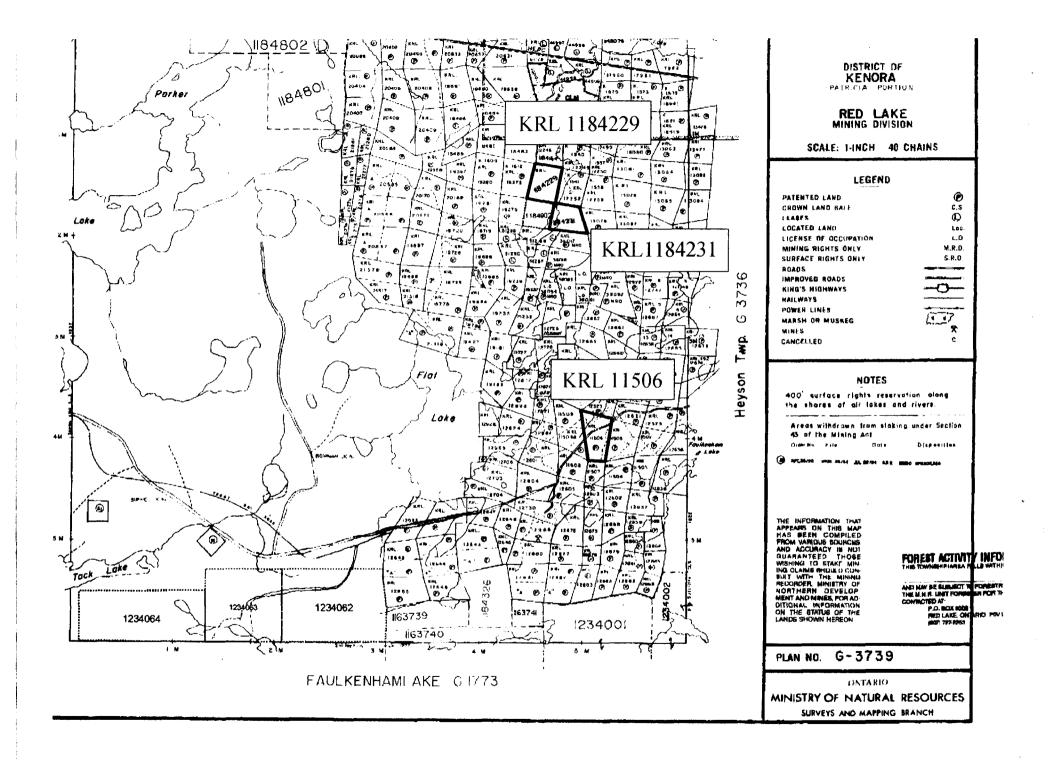
Please accept this as the Invoice for the drill holes completed between September 22 and October 07, 1998, on your 1998 fall Red Lake Diamond Drilling Project. Hole S98-29 was drilled in August 1998, of which 46 feet were not included on Invoice #M003. This missing footage is included here.

DRILL HOLE	DEPTH	AMOUNT
12400 G	660 Ft.	\$ 9054.88
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12200 D	605	8300.30
12000 C	657	9013.72
10400 E	607	8327.74
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√13350 в	367	5035.06) 15
√ 1327 5 C	306	4198.17(₩ <u>1</u> [×]
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<u>_13200</u> D	287	3937.50
598-29	<u>46</u>	<u>631.10</u>
TOTAL	5533 Ft.	\$75,910.06

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*Exemples de caractéristiques : foliation, schistosité, stratification. L'angle est mesuré par rapport à l'axe longitudinal de la carotte.

†Des crédits supplémentaires sont offerts. Consulter les règlements relatifs aux travaux d'évaluation. Nota : Dans cette formule, lorsqu'il désigne des personnes, le masculin est utilisé au sens neutre.

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PROPERTY: madsen

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DIAMOND DRILL LOG

Collar Collar	No.: 13 E Easti North E Eleva mine	ngs: 13200.00 nings: 8630.00	Grid Bearing: 350.00 Final Depth: 287.00 feet	Date	ed by: D.A. Panagapko : Oct 6, 1998 -hole Survey: sperry su	ın		
	 то	LITHOLOGICAL DESCRIPTION		AMPLE No.	 From	ASSAYS	WIDTH Au (opt)	
0	10	OVERBURDEN						
10	59.5	GABBRO Fine to medium-grained, massive, med gy gn 10-15% fine-grained interstitial calcite. at 43.7, 49.1, 51.5, 52.4. Sharp lower in	Narrow fault gouge zones					
59.5	65.2	DIORITE Massive, very fine grained dk gy dike, min contact at 40 deg, marked by minor fault g						
65.2	120.9	PERIDOTITE Med gn-gy to med gy below180 ft.; massive, grained gabbroic texture throughout. Stro 5% narrow carbonate veins at random angles a strongly altered gabbro. Minor hematite lower contact where grain size changes. T taken at 88.5 ft.	ngly magnetic. Cut by . Unit is possibly filled fractures. Sharp					
120.9	194.7	GABBRO Coarse-grained, massive, composed of 30% have been altered to serpentine; 70% felds to clay minerals. Thin section sample tak	pars strongly alt'd				v	

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Newmac In	agine de forage nac Industries Ltd. ole Started Date Completed Oct. 04, 1998 Oct. 05, 19 e commencement du forage Date d'achèvement ation Co., Owner or Optionee Date d'option en Gold Box 7380 224 – 24 th Avenue South S7K 5M5 ge/Avancement Rock type		4940.00	0.00	du forage 287.00'	Collar/collier	-60.00	Madsen Mi	ne Site		G-3739		KRL-11506				
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0204 (03/91)	*F	or features su	ch as foliatio	n, bedding, schistosity,	measured from the lo	ng axis of the core.				dditional credit	L available. See	Assessmer	I nt Work Re	<u>ulation</u> .		L	

Exemples de caracteristiques : foliation, schistosite, stratification. L'angle est mesure par rapport a l'axe longitudinal de la carotte.

†Des crédits supplémentaires sont offerts. Consulter les règlements relatifs aux travaux d'évaluation. Nota : Dans cette formule, lorsqu'il désigne des personnes, le masculin est utilisé au sens neutre.

DIAMOND DRILL LOG

PROPERTY: madsen HOLE No.: 13200d Collar Eastings: 13200.00 Collar Northings: 8630.00 Collar Elevation: 4940.00 Grid: mine

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Collar Inclination: -60.00 Grid Bearing: 0.00 Final Depth: 287.00 feet Logged by: D.A. Panagapko Date: Down-hole Survey: sperry sun

FROM	то	LITHOLOGICAL DESCRIPTION	SAMPLE No.	FROM	ASSAY TO	S WIDTH Au (opt)
0	12	OVERBURDEN				
12	76.4	GABBRO Medium-grained, massive uniform texture, non-magnetic, gy gn. Mod soft, locally cut by narrow calcite stringers. 16.1-17.2 Fine-grained diorite dike. 47.9-48.2 Narrow fault gouge, gabbro is quite altered, talcose. 61.5-64.5 Coarse-grained strongly magnetic dike, possibly a phase of the gabbro. Sharp lower contact at 40 deg.				
76.4	84.5	DIORITE Massive fine-grained dk gy dike, local weak alt'n to k-feldspar. Sharp lower contact at 40 deg tca.				:
84.5	108.6	PERIDOTITE Medium-grained, massive, med gy, cut by numerous narrow talc- carbonate veinlets often forming a hairline stockwork. Unit is strongly magnetic. 107-108.6 Weakly foliated carbonate alt'n zone. Lower contact marked by change to coarse textured unit, contact at 40 deg.				· · · · · · · · · · · · · · · · · · ·
108.6	149.7	ALTERED GABBRO				

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DIAMOND DRILL LOG

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					ASSAY	S	
ROM	TO	LITHOLOGICAL DESCRIPTION	SAMPLE No.	FROM	то	WIDTH Au (opt)	
		Coarse-grained, massive strongly magnetic unit that has been pervasively altered to talc, serpentine and calcite. Mafic minerals are altered to chlorite-serpentine, feldspars to clay minerals. 146.5-149.7 Weakly foliated carbonate alt'n zone; lt gy with minor calcite veinlets.					
€.7	159.1	DIORITE Fine to medium-grained, massive dike with 5-10% biotite crystals, possibly a lamprophyre. Cut by narrow calcite- serpentine veins.					
9.1	169.8	GABBRO Similar composition to previous gabbro, but finer-grained and weakly foliated, cut by narrow calcite veinlets. Gradational lower contact.					
9.8	206.2	MAFIC GABBRO Similar to unit at 12-76.4 ft. Fine to medium-grained, massive, weakly magnetic. Distinguished from previous unit by more mafic character (<15% feldspar) and finer grained texture. Much less altered than previous unit. More intensely veined below 197 ft.					
5.2	222.5	FOLIATED GABBRO Similar to previous unit, but moderately well foliated, pale gy with pervasive carbonate alt'n. Becomes more massive below 217 ft.					

DIAMOND DRILL LOG

	RTY: ma No.: 13		3					Page
					ASSAY		·	 -
FROM	то	LITHOLOGICAL DESCRIPTION	SAMPLE No.	FROM	то	WIDTH Au	(opt)	
22.5	287	TUFF	31453	222.00	227.00	5.00	TRACE	
		Banded biotite alt'd basalt, mod well silicified throughout.	31454	227.00	232.00	5.00	0.023	
		Unit is a bn gy colour down to 246 ft then chlorite percentage	31455	232.00	237.00	5.00	TRACE	
		increases.	31456	237.00	242.00	5.00	0.029	
		227.7-238.2 Weakly mineralized zone with 1-2% blebby po	31457	242.00	247.00	5.00	TRACE	
		and trace py in narrow bands parallel to foliation. Very minor	31458	247.00	252.00	5.00	TRACE	
		garnets scattered throughout section.	31459	252.00	257.00	5.00	TRACE	
		276.2-280.2 Weak po mineralization, as blebby zones parallel	31460	257.00	262.00	5.00	0.017	
		to foliation in a med gy tuff.	314 61	262.00	267.00	5.00	TRACE	
			31 462	267.00	272.00	5.00	0.031	
		287.0 ft END OF HOLE	31463	272.00	277.00	5.00	TRACE	
			31464	277.00	282.00	5.00	0.019	
			31465	282.00	287.00	5.00	0.025	

DOWN-HOLE SURVEY DATA

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DEPTH	INCLINATION	BEARING

2.00 287.00 -60.00

🕅 Onta	Ministry of Northern Development Ministère du Développement du N and Mines			Diamone Drilling Log	d Journa forage daima	Complete this form and related sketch in duplicate. Remplir en deux exemplaires la présente formule et le croquis annexé					Fill in on every page Remplir ces cases → à chaque page			Hole No. Forage n 13275a	° F	Page No. Page n°		
Drilling Company				Collar Elevation	Bearing of hole from true North/Position du forage	Total Footage	Dip of Hole at	9 6		ation where core			erence No		Claim No.			
Compagnie de forage				Elévation du collier	par rapport au nord vrai	Avancement total du forage	Inclinaison du		Adresse/endr	est stockee		érence su	r la carte	N° de concession minière				
Newmac Industries Lto Date Hole Started		e Completed		4916.43 Date Logged	350.00 Logged by	207.00'	Collar/collier	-45.00	Madsen Mi	ine Site		G-3739		Con or Lat	KRL-11506 at. and Long.) BAIRD ssion, ou latitude et longitude)			
	2, 1998		. 02, 1998	Oct. 05, 1998 Date d'inscription au journal	D. A. Panagapko Inscrit par		207.00 Ft/Pi	-46.00										
Compagnie d'exploration, p Madsen Gold	O. Box 7380)0, 224 – 24 th Avenue South			Date submitted Date de dépôt	Submitted by (Signatur Déposé par (signature)		Ft./Pi	° Property Name										
200, 224 – 24 th Avenue	O. Box 7380 O0, 224 – 24 th Avenue South askatoon, Saskatchewan S7K 5M5 botage/Avancement Rock type			April 7, 2001	Roland Landry	met	Ft/Pi Ft/Pi		Core size	- BQ		Nom de la propriété Madsen Gold						
Footage/Avancement	ge/Avancement Rock type			Description (Colour, cription (Colour,	grain size, texture, mi				Planar Feature Angle*/Angle des caractéristiques	Core Speciman Footage†/Longueur en pieds des carottes	Your Sample No. N° d'échantilon du prospecteur	Sample Footage/Nivaue de Sample prélève-ment de l'échantilion Longue From/De To/À léchant		Sample Length Longueur de léchantillon	Length Assays†/Analyses minéra		néralurgiques	
0204 (03/91) * F				measured from the lo						available. See								

Nota : Dans cette formule, lorsqu'il désigne des personnes, le masculin est utilisé au sens neutre.

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DIAMOND DRILL LOG

PROPERTY: madsen HOLE No.: 13275a Collar Eastings: 13262.19 Collar Northings: 8640.97 Collar Elevation: 4916.43 Grid: mine

Collar Inclination: -45.00 Grid Bearing: 350.00 Final Depth: 207.00 feet Logged by: D.A. Panagapko Date: Oct 5, 1998 Down-hole Survey: sperry sun

					ASSAY	
FROM	то	LITHOLOGICAL DESCRIPTION	SAMPLE No.	FROM	то	WIDTH Au (opt)

0 24 OVERBURDEN

24 112.4 ALTERED PERIDOTITE

Massive, med-dk gy with a greenish colour down to 30.7 ft. Unit is cut by minor narrow carbonate veins down to 64.5' where vein percentage increases. Talc alteration also increases with depth with talc mostly associated with fractured areas. 82.3-86 Carbonate vein subparallels core axis. At 99 ft a healed fault contains coarse-grained pyrite crystals. Rock becomes progressively more altered with depth; hematite filled fractures become common below 93 ft. Lower contact where texture changes to a very fine-grained unit.

112.4 134.2 PERIDOTITE

Fine-grained, massive, dk gn unit that is strongly magnetic. Not talc alt'd like previous interval. Cut by minor calcite filled fractures. Minor epidote developed near fractures. 116.2 1" clay filled fault gouge, hematite alteration for 2' above fault.

134.2 140.6 ALTERED PERIDOTITE

Similar to unit described above but alt'n is more intense and unit is a lighter grey.

DIAMOND DRILL LOG

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ROM	то	LITHOLOGICAL DESCRIPTION	SAMPLE No.	FROM	TO	WIDTH Au	(opt)	
		137.7 1" clay filled fault gouge, hematitic alteration. Lower contact marked by 1" pyrite filled vug. with brick red hematite along one contact of pyrite.						
0.6	147.2	TUFF Biotite alt'd, weakly garnetiferous unit, minor carbonate veining. Possible cordierite as blue-gy subhedral crystals. Lower contact marked by change to more siliceous unit.	31434	142.00	147.00	5.00	TRACE	
7.2	152. 5	MINERALIZED TUFF Dk gy, well banded unit (at 55 deg) with cordierite rich interval at 150-151 ft. Mineralization consists of trace blebby po and minor fine-grained py at 151.6-152.4. Sulphides associated with a more mafic (chloritic) section.	31435	147.00	152.00	5.00	TRACE	
2.5	207. 0	TUFF	31436	152.00	157.00	5.00	TRACE	
		Return to typical biotite rich altered mafic volcanic; some	31437	157.00	162.00	5.00	TRACE	
		sections contain 2-5% garnet. Part of unit may be a flow top	31438	162.00	167.00	5.00	TRACE	
		breccia as med gy 'fragments' are surrounded by a chloritic	31439	167.00	172.00	5.00	TRACE	
		groundmass. Very minor pyrite as fine-grained crystals in	31440	172.00	177.00		TRACE	
		narrow fractures.	31441	177.00	182.00		TRACE	
			31442	182.00	187.00		TRACE	
		207.0 ft END OF HOLE	31443	187.00	192.00		TRACE	
			31444	192.00	197.00		TRACE	
			31445	197.00	202.00		TRACE	
			31446	202.00	207.00	5.00	TRACE	

HOLE No: 13275a

DIAMOND DRILL LOG

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	FY: madsen 5.: 13275a									Page 3	
FROM	то	LITHC	LOGICAL DESCRIP	rion	 	SAMPLE No.	FROM	ASSAY TO	(S WIDTH Au (opt)		
		DOW	N-HOLE SURVEY DA	ATA							
		DEPTH	INCLINATION	BEARING							
		207.00	-46.00	4.00							

HOLE No: 13275a

(Winistry of Ministère du Northern Development Développement du Nor and Mines				Log daimant			re Re	Complete this form and related sketch in duplicate. Remplir en deux exemplaires la présente formule et le croquis annexé				Fill in on every page Remplir ces cases a⇒ à chaque page					Page No. Page n° 1	
Drilling Comp Compagnie d					Collar Elevation Elévation du collier	Bearing of hole from true North/Position du forage par rapport au nord vrai	Total Footage Avancement total	Dip of Hole at Inclinaison du			ition where core oit où la carotte			erence No. érence sui		13275b 1 Claim No. N° de concession minière		ière	
Newmac In	dustries Ltd	l.			4917.02	350.00	du forage 263.00'	Collar/collier	-60.00	Madsen Mi	ne Site		G-3739			KRL-115	506		
	Oct. 01 nencement du	, 1998 forage	Date Comple Date d'achèv	Oct. 02, 1998	Date Logged Oct. 05, 1998 Date d'inscription au journal	Logged by D. A. Panagapko Inscrit par		263.00 Ft/Pi Ft/Pi	-61.00	 Location (Twp. Lot, Con. or Emplacement (canton, lot. concerts) 						r Lat. and Long.) BAIRD cession. ou latitude et longitude)			
Compagnie d Madsen Go P.O. Box 73 200, 224 – 2	ploration Co., Owner or Optionee impagnie d'exploration, propriétaire ou titulaire d'option adsen Gold O. Box 7380 0, 224 – 24 th Avenue South iskatoon, Saskatchewan S7K 5M5 iotage/Avancement Rock type om/De To/À Type de roche D				Date submitted Date de dépôt April 7, 2001	Submitted by (Signatur Déposé par (signature) Roland Landry		Ft./Pi Ft./Pi Ft./Pi	• • •	Core size	Nom de l	Property Name Nom de la propriété Madsen Gold							
				otion (Colour, grain size, texture, minerals, alteration, etc.) Couleur, granulométrie, texture, minéraux, transformation, etc.				Planar Feature Angle*/Angle des caractéristiques	Core Speciman Footage†/Longueur en pieds des carottes	Your Sample No. N° d'échantilon du prospecteur	prélève-ment de	Sampie Footage/Nivaue de Sa prélève-ment de l'échantilion Los		Assays†/	néralurgiques				
From/De	To/A	Type de	roche	Des	cription (Couleur, grar	iulometrie, texture, mir	iéraux, transforma	ition, etc.)		planes	prélevées	de prospecteur	From/De	To/À	léchantillon			+	
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0204 (03/91)	*E^	r features cu	ch as foliati	on, bedding, schistosity,	measured from the la	nd axis of the core			+^*	ditional credit	available. Soo	Assessmen	t Work Pa	quiation					
. ,	*Ex	emples de c	aractéristiqu	les : foliation, schistosité	e, stratification. L'angle	e est mesuré par rappo	rt à l'axe longitudi	nal de la caroti	te. †De	es crédits supp a : Dans cette for	lémentaires so	ont offerts. C	onsulter le	s règlem	ents relatif	s aux trav ens neutre.	/aux d'éva	luation.	

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DIAMOND DRILL LOG

PROPERTY: madsen HOLE No.: 13275b Collar Inclination: -60.00 Logged by: D.A. Panagapko Collar Eastings: 13262.53 Grid Bearing: 350.00 Date: Oct 5, 1998 Collar Northings: 8638.44 Down-hole Survey: sperry sun Collar Elevation: 4917.02 Final Depth: 263.00 feet Grid: mine ASSAYS SAMPLE No. FROM TO WIDTH Au (opt) FROM TO LITHOLOGICAL DESCRIPTION 10 **OVERBURDEN** 0 121.2 ALTERED PERIDOTITE 10 Massive medium to coarse-grained texture, mod veined throughout. Medium greyish gn changing to a medium gy; strongly magnetic. Altered feldspar makes up about 15% of the rock below about 43 ft. Rock has a gabbroic texture and may be a strongly magnetic gabbro, but talc alt'n indicates a more ultramafic origin. Below 57 ft rock is cut by numerous carbonate veinlets at random orientations. Veins become more numerous with depth and some are serpentine in composition. 116-117 Fault zone; brecciated talcose interval. 117-121.2 Zone is cut by several narrow biotite lamprophyre kes, talc alteration increases towards lower contact. GABBRO 121.2 130.0 Dk gn, medium-grained, massive, non-magnetic. Locally alt'd to chlorite/epidote. Contains trace disseminated pyrite. Cut by narrow talc-serpentine veinlets. Lower contact at 30 deq. ALTERED PERIDOTITE 166.0 130.0 Lt to med gy, massive texture. Rock has been strongly alt'd to talc with numerous calcite veinlets at random angles tca.

DIAMOND DRILL LOG

PROPERTY: madsen HOLE No.: 13275b

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					ASSAY	S	
FROM	то	LITHOLOGICAL DESCRIPTION	SAMPLE No.	FROM	TO	WIDTH A	u (opt)
		133-136 Gabbro dike, broken up, possible fault zone.					
		Patchy hematite staining below 163 ft. Fault zone at 165-165.5.					
166.0	263.0	TUFF	31414	167.00	172.00	5.00	0.023
		Well banded medium bn to gn altered mafic volcanic. Banding at	31415	172.00	177.00	5.00	0.055
		55 deg and is defined by alternating biotite and chlorite rich	31416	177.00	182.00	5.00	0.017
		layers. Locally 2-3% garnets in intervals up to 1 ft thick.	31417	182.00	187.00	5.00	TRACE
		180.4-181 More felsic interval with 2-3% layered po.	31418	187.00	192.00	5.00	TRACE
		Garnets persist to 188 ft. Biotite alt'n is pervasive down to	31 419	192.00	197.00	5.00	TRACE
		223 ft with only minor unaltered basalt layers.	31420	197.00	202.0 0	5.00	TRACE
		223-233.2 Carbonate alt'd interval with dolomite as irregular	31421	202.00	207.0 0	5.00	TRACE
		masses (60-70% of unit) over intervals of 1-2 ft.	31422	207.00	212.0 0	5.00	TRACE
		Below 237 ft unit is weakly carb alt'd and contains only trace	31 423	212.00	217.0 0	5.00	TRACE
		fine-grained po.	31424	217.00	222.0 0	5.00	TRACE
			31425	222.00	227.0 0	5.00	TRACE
		263.0 ft END OF HOLE	31426	227.0 0	232.00	5.00	TRACE
			31427	232.00	237.0 0	5.00	TRACE
			31428	237.00	242.00	5.00	TRACE
			31429	242.00	247.00	5.00	TRACE
			31430	247.00	252.00	5.00	TRACE
			31431	252.00	257.00	5.00	TRACE
			31432	257.00	260.00	3.00	TRACE
			31433	260.00	263.00	3.00	TRACE

HOLE No: 13275b

Page 2

DIAMOND DRILL LOG

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	Y: madsen 5.: 13275b								Page	3
FROM	то	LITHC	DLOGICAL DESCRIPT	TION	 SAMPLE No.	FROM	ASSAY TO	S WIDTH Au (opt)		
		DOW	N-HOLE SURVEY DA	ATA						
		DEPTH	INCLINATION	BEARING						
		263.00	-61.00	1.00						

Image: Northern Development and Mines Ministère du Dévelopment du Norder de des Mines					Log daimant			re Re	Complete this form and related sketch in duplicate. Remplir en deux exemplaires la présente formule et le croquis annexé				Fill in on every page Remplir ces cases ⇒ à chaque page					Page No. Page n° 1	
Drilling Compa Compagnie de					Collar Elevation Elévation du collier	Bearing of hole from true North/Position du forage	Total Footage Avancement total	Dip of Hole at Inclinaison du			ition where core oit où la carotte			erence No érence su		Claim No. N° de concession minière		nière	
Newmac Inc	dustries Lt	d.			4917.08	par rapport au nord vrai	du forage 306.00'	Collar/collier	-70.00	Madsen Mi	ne Site		G-3739			KRL-115	06		
Date Hole Sta	Sept.	29, 1998 ı forage	Date Complete Date d'achève	Oct. 01, 1998	Date Logged Oct. 05, 1998 Date d'inscription au journal	Logged by D. A. Panagapko Inscrit par		306.00 Ft./Pi Ft./Pi	-69.00	Location (Twp. Lot, Con. or Emplacement (canton, lot, conc						or Lat. and Long.) BAIRD oncession, ou latitude et longitude)			
Compagnie d' Madsen Go P.O. Box 73 200, 224 – 2 Saskatoon,	O. Box 7380 0, 224 – 24 th Avenue South Iskatoon, Saskatchewan S7K 5M5 Inotage/Avancement Rock type				Date submitted Date de dépôt April 7, 2001	Submitted by (Signatur Déposé par (signature) Røtand Landry		Ft./Pi Ft./Pi Ft./Pi	0 0 0	Core size	Madser	a propriété n Gold							
Footage/Ava From/De			Des		grain size, texture, mi iulométrie, texture, mir				Planar Feature Angle*/Angle des caractéristiques	Core Speciman Footage†/Longueur en pieds des carottes	Your Sample No. N° d'échantilon du prospecteur	Sample Footage prélève-ment de From/De	Nivaue de l'échantillon TO/À	Sample Length Longueur de léchantillon	Assays†/	Analyses min	néralurgiques		
TION/DC	10//	Type					neraux, transforma			planes	prélevées		<u> </u>					+	
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0204 (03/91)	*F	or features s	uch as foliatio	n, bedding, schistosity,	measured from the lo	ng axis of the core.			†Ac	ditional credit	I available. See	Assessmen	L It Work Re	L gulation.		I		1	

*Exemples de caractéristiques : foliation, schistosite, stratification. L'angle est mesuré par rapport à l'axe longitudinal de la carotte.

†Des crédits supplémentaires sont offerts. Consulter les règlements relatifs aux travaux d'évaluation. Nota : Dans cette formule, lorsqu'il désigne des personnes, le masculin est utilisé au sens neutre.

DIAMOND DRILL LOG

PROPERTY: madsen HOLE No.: 13275c Collar Eastings: 13262.66 Collar Northings: 8637.45 Collar Elevation: 4917.08 Grid: mine

Collar Inclination: -70.00 Grid Bearing: 350.00 Final Depth: 306.00 feet Logged by: D.A. Panagapko Date: Oct 5, 1998 Down-hole Survey: sperry sun

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					ASSA	YS	
FROM	то	LITHOLOGICAL DESCRIPTION	SAMPLE No.	FROM	TO	WIDTH Au (opt)	
0	10	OVERBURDEN					
10	87.6	PERIDOTITE Massive, med-dk gn gy, becoming dk gy below 49'. Rock is mod to strongly magnetic throughout and is mod alt'd to talc. Calcite occurs as narrow fracture fillings and also as interstitial carbonate. Below 51 ft unit contains trace to 1% fine-grained disseminated pyrite. 59-62 Serpentine-talc vein follows parallel tca. 62-87.6 intense vein zone with 5-10% narrow serpentine- carbonate veinlets cutting core at random angles. Several narrow fault gouges occur in this interval.					·
87.6	98.0	GABBRO Dk gn, massive, medium to coarse-grained, gabbroic texture. Non-magnetic, contains 2-3% pink feldspar. Lower contact marked by 0.3' fine-grained biotite lamprophyre dike.					
98.0	124.8	ALTERED PERIDOTITE Medium gy, massive unit, similar to previous unit except more carbonate altered. Cut by minor calcite veins with trace pyrrhotite. Lower contact where rock becomes darker gy.					
							HOLE No: 13275c

DIAMOND DRILL LOG

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	RTY: ma No.: 13							Page	: 2
FROM	TO	LITHOLOGICAL DESCRIPTION	SAMPLE No.	FROM	ASSAY: TO	S WIDTH Au			
124.8	155.4	PERIDOTITE Dk gy to bk, massive, strongly magnetic, cut by narrow calcite veinlets that also contain 1-2% pyrite. Minor narrow dk gn jadeite veinlets. Below 145.3 rock becomes lighter gy and contains more carbonate especially below 151 ft.							
155. 4	162.4	GABBRO Medium-grained with fine grained chilled margins, massive, cut by narrow calcite veinlets, non-magnetic.	•						
162.4	169.2	PERIDOTITE Lt gy, altered massive unit similar to section at 124.8–155.4. Numerous calcite veinlets and some broken core, possibly a fault zone at 169.0.							
169.2	182.5	GABBRO Same as unit previously described except more badly fractured. Medium to coarse-grained, cut by calcite and jadeite veinlets. Last 5 ft of unit is badly broken up.							
182.5	210.8	MINERALIZED TUFF Biotite-chlorite alt'd mafic volcanic, mod well banded, med gy to bn, silicified. 182.8-184.9 Magnetic, alt'd ultramafic dike. 187.3-192.2 Magnetic ultramafic dike, similar to previous unit. Mineralization consists of minor concentrations of pyrite and pyrrhotite usually as narrow fracture fillings; most abundant at 203.5-204.5; less than 2% overall. Lower contact marked by	31392 31393 31394 31395	192.00 197.00 202.00 207.00	197.00 202.00 207.00 210.80	5.00 5.00 5.00 3.80	0.025 0.025 TRACE 0.023		

HOLE No: 13275c

DIAMOND DRILL LOG

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a.

					ASSAY	 S		
ROM	TO	LITHOLOGICAL DESCRIPTION	SAMPLE No.	FROM	то	WIDTH Au	(opt)	
		carbonate alt'n zone.						
0.8	214.8	CARB ALT'N ZONE Lt gy, medium to coarse grained interval, fractured zone with abundant calcite. Few flecks of py and po. Sharp lower contact at 50 deg.	31396	210.80	214.80	4.00	0.014	
4.8	225.5	TUFF	31397	214.80	217.00	2.20	TRACE	
		Continuation of biotite alt'd mafic volcanic, narrow chlorite-	31398	217.00	222.00	5.00	TRACE	
		calcite zones, not mineralized.	31399	222.00	225.50	3.50	TRACE	
5.5	238.6	DIORITE Fine-grained, massive intermediate intrusive dike, uniform medium dk gy. Cut by narrow chlorite filled fractures. Minor tuff section at 236.8-237.5'. Sharp lower contact at 80 deg.						
B.6	306.0	TUFF	31400	238.60	242.00	3.40	0.019	
		Biotite altered mafic volcanic, as described above. Minor	31401	242.00	247.00	5.00	TRACE	
		carbonate alt'n zones, unit is mod silicified throughout. Weak	31402	247.00	252.00	5.00	TRACE	
		mineralization (1% po + py) at 270-277'. Sulphides occur as	31403	252.00	257.00	5.00	TRACE	
		fol'n parallel streaks. Narrow intervals have 10-15% garnet.	31404	257.00	262.00	5.00	TRACE	
			31405	262.00	267.00	5.00	0.007	
		306.0 END OF HOLE	31406	267.00	272.00	5.00	0.141	
			31407	272.00	277.00	5.00	0.254	
			31408	277.00	282.00	5.00	0.050	
			31409	282.00	287.00	5.00	0.013	
			31410	287.00	292.00	5.00	0.042	
			31411	292.00	297.00	5.00	0.025	

HOLE No: 13275c

DIAMOND DRILL LOG

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	Y: madsen).: 13275c										Page	e 4	
FROM	то	LITHC	DLOGICAL DESCRIP	TION	 SAME	PLE No.	FROM	ASSAYS TO	G WIDTH A	u (opt)			
						31412 31413	297.00 302.00	302.00 306.00	5.00 4.00	TRACE TRACE			
		DOW	IN-HOLE SURVEY D	ATA									
		DEPTH	INCLINATION	BEARING									
		306.00	-69.00	2.00									

HOLE No: 13275c

(Onta	rio Mini Nort and	stry of hern Developme Mines	Ministère du ant Développement du Nord et des Mines	Diamon Drilling Log	d Journa forage daima	au	re Re	emplir en de	s form and n in duplicate. eux exemplaire nule et le croqu		Rei	in on ever mplir ces c chaque pa	ases	⇒	Hole No. Forage n 13350b		Page No. Page n° 1
Drilling Comp Compagnie d					Collar Elevation Elévation du collier	Bearing of hole from true North/Position du forage	Total Footage Avancement total	Dip of Hole at Inclinaison du			ation where core oit où la carotte			erence No. érence sur		Claim No.	cession min	iòro
	0					par rapport au nord vrai	du forage	Collar/collier				est stockee						iere
Date Hole Sta	ndustries Lt	d	Date Complet	ted	4928.46 Date Logged	0.00 Logged by	367.00'	Collancollier	-45.00	Madsen Mi	ne Site		G-3739		Con. or Lat.	KRL-115	06	
		25, 1998 ı forage	Date d'achève	Sept. 27, 1998	Oct. 04, 1998 Date d'inscription au journal	D. A. Panagapko Inscrit par		367.00 Ft./Pi	- 44.00	2					, lot, concessio		BAIRD et longitude)	
	Co., Owner or (d'exploration, p		titulaire d'option]	Date submitted Date de dépôt	Submitted by (Signatur Déposé par (signature)		Ft./Pi	<u> </u>	2								
Madsen Go P.O. Box 7	old				April 7, 2001	Renard Lanely	, ,	Ft./Pi		2			Property Nom de	Name la propriété	•			
200, 224 –	24 th Avenue , Saskatche		(5M 5		•	Kinston	D.	Ft./Pi	·	Core size	- BQ		Madse	n Gold				
Footage/Av	,		k type		Description (Colour,	grain size, texture, mi	nerals, alteration,	etc.)	1	Planar Feature Angle*/Angle des	Core Speciman Footage†/Longueur	Your Sample No N° d'échantilon	Sample Footag prélève-ment d	e/Nivaue de Péchantillon	Sample Length Longueur de	Assays†//	Analyses min	néralurgiques
From/De	To/À	Туре (le roche	Des	cription (Couleur, grar	ulométrie, texture, mir	néraux, transforma	ation, etc.)		caractéristiques planes	en pieds des carottes prélevées	du prospecteur	From/De	To/À	léchantillon			<u> </u>
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0204 (03/91)			uch an falictic	on, bedding, schistosity,	manurad from the la	na avia of the ears			<u>.</u>	dditional credit								1
(20/01)				es : foliation, schistosité			rt à l'axe longitudi	nal de la caroti	te. †D	es crédits supp	lémentaires so	ont offerts. C	onsulter le	es règlem	ents relatifs	s aux trava	aux d'évai	iuation.

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Nota : Dans cette formule, lorsqu'il désigne des personnes, le masculin est utilisé au sens neutre.

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DIAMOND DRILL LOG

		•	DIAMOND DRILLI LOG							
	RTY: ma No.: 13									
	r Easti		Collar Inclination: -4	45.00		Loga	ed by: D	.A. Pana	agapko	
	r North		Grid Bearing: 0.00				: Oct 4,		51	
	r Eleva		Final Depth: 367.00 f	feet		Down	-hole Su	rvey: s	perry sun	
Grid:	mine		-							
						ASSAY	 S			
FROM	то	LITHOLOGICAL DESCRIPTION		SAMPLE No.	FROM	TO	WIDTH Au	(opt)		
0	22	OVERBURDEN								
22	33.5	ULTRAMAFIC DIKE								
		Lt gy to lt gn, massive, very soft, probal								
		grained peridotite/pyroxenite that has bee								
		27-31.8 Very fine grained diorite dike, b Sharp lower contact at 75 deg.	DIACK, MABBIVE.							
33.5	47.2	TUFF		31349	33.50	37.00	3.50	0.015		
		Med bn to gy, banded, probably a basaltic		31350	37.00	42.00	5.00	TRACE		
		biotite and chlorite. Sections are silici		31351	42.00	47.00	5.00	TRACE		
		veinlets cut core. More intense talc-cark 41.6. Sharp lower contact at 60 deg.	bonate alt'n at 39.2-							
17.2	54.9	GABBRO								
		Massive, dk gn, fine to medium-grained; co	-							
		of chlorite/epidote alt'n. Sharp lower co calcite veinlet at 45 deg.	ontact marked by narrow							
54.9	176.3	PERIDOTITE								
		Colour varies from a medium gy to a dk gn								
		the unit; becomes dk gy again below 102',								
		gradational change. Unit is massive, medi	ium-grained and							
									HOLE No: 1	L3 350 £

DIAMOND DRILL LOG

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HOLE N	lo.: 13	350b					·	Page	: 2
FROM	то	LITHOLOGICAL DESCRIPTION	SAMPLE No.	FROM	ASSAY: TO	WIDTH Au	(opt)		
		<pre>mod soft. Strongly magnetic throughout. 73.1-74.5 Very coarse grained gabbro dike. Rock is typically cut by narrow calcite veinlets in a random fracture pattern. Calcite is sometimes associated with pale gn serpentine (jadeite?). Below 152 unit becomes more alt'd with talc-carbonate along with patchy hematite staining. Fracturing has increased with a fault at 171' (1 ft lost core). Narrow diorite dike where fault occurs. Very lt gy, speckled texture towards lower contact, where chloritic alt'n begins.</pre>							
176.3	196.2	TUFF Dk gy, biotite alt'd mafic volcanic, minor chlorite rich bands. Mod silicified. Trace to 1% pyrrhotite occurring as ovoid blebs, trace fracture related pyrite. Local patches with up to 5% garnet. Lower contact marked where sulphide percentage increases.	31352 31353 31354 31355	177.00 182.00 187.00 192.00	182.00 187.00 192.00 196.00	5.00 5.00 5.00 4.00	TRACE TRACE TRACE TRACE		
196.2	204.7	MINERALIZED TUFF Biotite-chlorite alt'd basalt unit as above with disseminated to massive sulphide mineralization. Generally 1-2% blebby pyrite and trace pyrrhotite. 202.4-204.5 Interval with 60-70% fine grained pyrite and 1-2% fine pyrrhotite. Tuff is strongly silicified in this section. Pyrite appears to cut across the banding so that it may be a replacement feature. Sharp lower contact to mineralization.	31356 31357	196.00 199.00	199.00 202.00		TRACE TRACE		
204.7	27 7	TUFF	31358	202.00	205.00	3.00	TRACE		

HOLE No: 13350b

DIAMOND DRILL LOG

PROPERTY: madsen HOLE No.: 13350b

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					ASSAY	S	
ROM	то	LITHOLOGICAL DESCRIPTION	SAMPLE No.	FROM	TO	WIDTH A	u (opt)
		Silicified, biotite alt'd mafic volcanic with narrow (<6") chlorite	31359	205.00	207.00	2.00	TRACE
		rich intervals. Moderately silicified throughout. Very minor	31360	207.00	212.00	5.00	TRACE
		blebby po and disseminated fine-grained py. Below 266' garnet	31361	212.00	217.00	5.00	TRACE
		percentage increases to 3-4% overall with narrow concentrations	31362	217.00	222.00	5.00	TRACE
		to 20%.	31363	222.00	227.00	5.00	TRACE
			31364	227.00	232.00	5.00	0.109
			31365	232.00	237.00	5.00	TRACE
			31366	237.00	242.00	5.00	TRACE
			31367	242.00	247.00	5.00	TRACE
		·	31368	247.00	252.00	5.00	0.007
			31369	252.00	257.00	5.00	0.007
			31370	257.00	262.00	5.00	0.041
			31371	262.00	267.00	5.00	0.011
			31372	267.00	272.00	5.00	TRACE
			31373	272.00	277.00	5.00	TRACE
7	297	MINBRALIZED TUFF	31374	277.00	282.00	5.00	TRACE
		Same unit as described above but with minor increase in sulphide	31375	282.00	287.00	5.00	TRACE
		content. This section characterized by 1% blebby po and fracture	31376	287.00	292.00	5.00	TRACE
		related py evenly distributed throughout interval. Patchy chlorite- epidote-calcite alt'n over short lengths.	31377	292.00	297.00	5.00	TRACE
7	367	TUFF	31378	297.00	302.00	5.00	TRACE
		Same unit as described at 204.7-277 ft. Mod garnet-rich down to	31379	302.00	307.00	5.00	TRACE
		328.7 then reverts to biotite alt'd volcanic with minor chlorite	31380	307.00	312.00	5.00	TRACE
		rich sections. Very weak mineralization consisting of a few	31381	312.00	317.00	5.00	TRACE
		specks of pyrrhotite.	31382	317.00	322.00	5.00	TRACE
			31383	322.00	327.00	5.00	TRACE

Page 3

HOLE No: 13350b

DIAMOND DRILL LOG

PROPERTY: madsen HOLE No.: 13350b

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Page 4

					ASSAYS	5	
FROM	TO	LITHOLOGICAL DESCRIPTION	SAMPLE No.	FROM	TO	WIDTH A	u (opt)
		367 ft END OF HOLE	31384	327.00	332.00	5.00	TRACE
			31385	332.00	337.00	5.00	0.037
			31386	337.00	342.00	5.00	TRACE
			31387	342.00	347.00	5.00	TRACE
			31388	347.00	352.00	5.00	TRACE
			31389	352.00	357.00	5.00	TRACE
			31390	357.00	362.00	5.00	TRACE
			31391	362.00	367.00	5.00	0.019

DOWN-HOLE SURVEY DATA

DEPTH	INCLINATION	BEARING
367.00	-44.00	13.00

HOLE No: 13350b

()	Onta	rio ^{Min} Nor and	istry of thern Developm Mines	Ministère du ent Développement du Nord et des Mines	Diamon Drilling Log	d Journa forage daima	au	re Re				Rer	in on ever nplir ces c haque pag	ases	⇒	Hole No. Forage n 13350c		Page No. Page n° 1
Drilling Compa Compagnie de	any e forage				Collar Elevation Elévation du collier	Bearing of hole from true North/Position du forage par rapport au nord vrai	Total Footage Avancement total	Dip of Hole at Inclinaison du			ition where core oit où la carotte			erence No. férence sur	la carte	Claim No. N° de conc	cession min	lière
Newmac In	dustries Li	d.			4928.55	0.00	du forage 290.00'	Collar/collier	-60.00	Madsen Mi	ne Site		G-3739			KRL-115	506	
Date Hole Sta	arted		Date Comple		Date Logged	Logged by			0	1					Con. or Lat.			
Date de comm		27, 1998 u forage	Date d'achèv	Sept. 29, 1998 vement	Oct. 04, 1998 Date d'inscription au journal	D. A. Panagapko Inscrit par		290.00 Ft/Pi	0				nent (canton,	lot, concessio				
	exploration,		titulaire d'optior	n	Date submitted Date de dépôt	Submitted by (Signatur Déposé par (signature)		Ft./Pi	•				Property	Nama				
Madsen Go P.O. Box 73					April 7, 2001	Roland Landry		Ft./Pi						la propriété				
200, 224 – 2 Saskatoon,			< 5M5			letter to	I de la companya de l	Ft./Pi	°	Core size			Madser					
Footage/Ava From/De	ancement To/À		k type de roche	Des	Description (Colour, cription (Couleur, grar	grain size, texture, mi				Planar Feature Angle*/Angle des caractéristiques	Core Speciman Footage†/Longueur en pieds des carottes	Your Sample No. N° d'échantilon du prospecteur	Sample Footag prélève-ment d From/De		Sample Length Longueur de léchantillon	Assays†//	/Analyses min	éralurgiques
TION/De	10/A	Type		Des	cription (Couleur, grai	Idiometrie, texture, mil	ieraux, transforma			planes	prélevées		1			<u> </u>		+
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0204 (03/91)	*F *E	or features s xemples de	such as foliati caractéristiou	on, bedding, schistosity, ues : foliation, schistosité	measured from the lo stratification, L'angle	ng axis of the core. est mesuré par rappo	ort à l'axe longitudi	nal de la carott		ditional credit es crédits supp					ents relatifs	s aux trav	/aux d'éva	luation.

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Nota : Dans cette formule, lorsqu'il désigne des personnes, le masculin est utilisé au sens neutre.

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DIAMOND DRILL LOG

PROPERTY: m HOLE No.: 1 Collar East Collar Nort Collar Elev Grid: mine	3350c ings: 13318.65 hings: 8605.29	Collar Inclination: -6 Grid Bearing: 0.00 Final Depth: 290.00 fe			Date	ed by: D.A. Pana : -hole Survey: sp	
					ASSAYS		
FROM TO	LITHOLOGICAL DESCRIPTION		SAMPLE No.	FROM	TO	WIDTH Au (opt)	
0 10	OVERBURDEN						
10 24.8	GABBRO Massive, dk gn, medium-grained, non-magnet biotite in small phenocrysts. Cut by a fe fractures. Sharp lower contact at 40 deg	ew calcite-filled hairline					
24.8 32.5	ALTERED ULTRAMAFIC Dk gy massive unit that is strongly magnet occurring in fractures. Rock is quite so talc; probably an altered ultramafic intro Sharp lower contact at 45 deg.	ft and contains10-15%					
32.5 42.5 ,	GABBRO Fine-grained dk gn mafic intrusive that is a talcose dike rock (magnetic) at: 34.3-34 42.5. Minor fault gouge at 38.5'. Lower very fine-grained.	4.9, 37-38.5, 41.6-					
4 2.5 52.5	TUFF Chlorite-biotite altered mafic volcanic, u by narrow calcite veins. Intruded by a lt dine at 45.3-47. Sharp lower contact at 4	t gy, magnetic					
							HOLE No: 13350c

DIAMOND DRILL LOG

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FROM	то	LITHOLOGICAL DESCRIPTION	SAMPLE No.	FROM	ASSAYS TO	WIDTH Au	(opt)	
2.5	67.4	GABBRO Fine to locally medium-grained, massive, fresh to weakly alt'd (epidote + calcite). Non-magnetic. Cut by 2" quartz vein at 53.4'. Sharp lower contact where magnetic unit starts.						
7.4	190.1	PERIDOTITE Massive, med gn near upper contact, grading to bk, medium- grained intrusive, strongly magnetic throughout. Minor talc alt'n and calcite veinlets. Cut by soft, talcose strongly magnetic dike at 102.6-105.7, med gy. Below 132' becomes med-dk gy, medium-grained mottled texture. Variably altered to talc-carbonate. Minor fault gouge at: 138.9, 139.5, 159.3 (.4 ft lost core), 162.2 (.3 ft lost core), 175.8, 177.7. Alteration appears to increase with depth. Sharp lower contact where grain size changes.						
90.1	202.5	FINE-GRAINED PERIDOTITE Dk gy to bk, very fine grained strongly magnetic unit, could be less altered equivalent of previous unit. Muddy fault gouge developed at 201.6, 202.4. Lower contact marked by fault gouge.						
02.5	231.6	TUFF Typical biotite alt'd mafic volcanic with areas of moderate carbonate alt'n. Minor patches of disseminated pyrrhotite. 205.2-208.6 Coarse-grained gabbro dike. Lower contact is gradational, marked by first appearance of sulphides.	31330 31331 31332 31333 31334	208.00 212.00 217.00 222.00 227.00	212.00 217.00 222.00 227.00 231.00	4.00 5.00 5.00 5.00 4.00	0.019 TRACE TRACE TRACE TRACE	

HOLE No: 13350c

DIAMOND DRILL LOG

					ASSAYS	 3	·	
ROM	TO	LITHOLOGICAL DESCRIPTION	SAMPLE No.	FROM	TO	WIDTH Au	(opt)	
1.6	242.2	MINERALIZED TUFF	31335	231.00	234.00	3.00	TRACE	
		Med-dk gy-bn, well banded tuff that has been pervasively	31336	234.00	237.00	3.00	0.025	
		silicified. Minor chlorite-rich bands. Sulphides consist of	31337	237.00	240.00	3.00	0.013	
		pyrite and pyrrhotite as bands of fine-grained crystals, 2-3% overall but concentrated in 0.5-2" bands at: 237.2, 240.9. Minor quartz segregations in with disseminated pyrite. Arbitrary lower contact where sulphides drop off.	31338	240.00	242.00	2.00	0.017	
2.2	290	TUFF	31339	242.00	247.00	5.00	TRACE	
		Continuation of unmineralized tuff as described above, garnet	31340	247.00	252.00	5.00	TRACE	
		starts appearing at 271 ft. Becomes med gy towards end of hole.	31341	252.00	257.00	5.00	TRACE	
		Very minor disseminated pyrite.	31342	257.00	262.00	5.00	TRACE	
		258.4-262.2 Talc alt'd ultramafic dike, strongly magnetic.	31343	262.00	267.00	5.00	TRACE	
			31344	267.00	272.00		TRACE	
		290 ft END OF HOLE	31345	272.00	277.00		0.013	
			31346	277.00	282.00		0.019	
			31347	282.00	287.00		0.276	
			31348	287.00	290.00	3.00	0.095	

DOWN-HOLE SURVEY DATA

DEPTH	INCLINATION	BEARING
290.00	-59.00	12.00

HOLE No: 13350c



Due Date

\$0 2007-FEB-16 \$0 2004-MAY-04

Work Report Summary

Transaction No: Recording Date: Approval Date:		PR-26		S Work Done				
Client(s): 1862	289 N	IADSEN GOL	D CORP.					
Survey Type(s):		PDRILL						
<u>Work Report De</u> Claim#	e <u>tails:</u> Perform	Perform Approve	Applied	Applied Approve	Assign	Assign Approve	Reserve	Reserve Approve
G 2020003	\$13,768	\$13,768	\$0	\$0	\$4,000	4,000	\$9,768	\$9,768
KRL 1184229	\$0	\$0	\$2,000	\$2,000	\$0	0	\$0	\$0 2
KRL 1184231	\$0	\$0	\$2,000	\$2,000	\$0	0	\$0	\$0 2
	\$13,768	\$13,768	\$4,000	\$4,000	\$4,000	\$4,000	\$9,768	\$9,768
External Credits	:	\$0						
Reserve:	:	\$9,768 Res	erve of Worł	< Report#: W0	120.30046			
	;	\$9,768 Tota	l Remaining					

Status of claim is based on information currently on record.



52K13NW2006 2.21326 BAIRD

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Ministry of Northern Development and Mines Ministère du Développement du Nord et des Mines

Date: 2001-JUL-19

MADSEN GOLD CORP.

TORONTO, ONTARIO M5H 3W4 CANADA

1 RICHMOND STREET WEST



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

Tel: (888) 415-9845 Fax:(877) 670-1555

Submission Number: 2.21326 Transaction Number(s): W0120.30046

Dear Sir or Madam

SUITE 500

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.

If you have any question regarding this correspondence, please contact BRUCE GATES by email at bruce.gates@ndm.gov.on.ca or by phone at (705) 670-5856.

Yours Sincerely,

mc chit

Ron Gashinski Supervisor, Geoscience Assessment Office

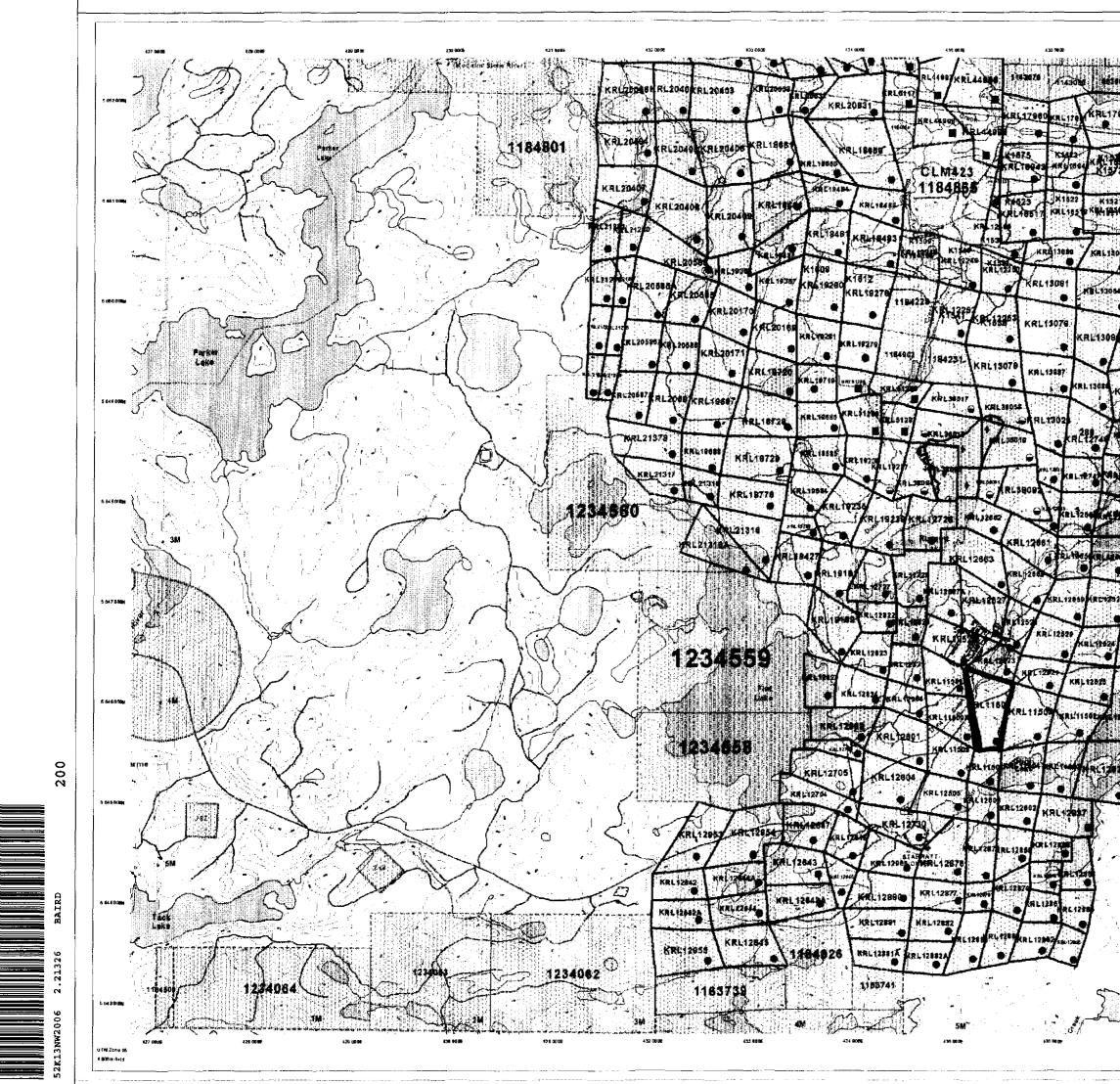
Cc: Resident Geologist

Roland Marc Landry (Agent)

Madsen Gold Corp. (Assessment Office) Assessment File Library

Madsen Gold Corp.

Claude Resources Inc. (Claim Holder)



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General Information and Limitations

: Tablinna Tab 148081415-0846 Fax: 1 (0271871.874 933Ramsey Laka Roari 933Ramsey Laka Roari 938daury CN,P38 485

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	MIHESTRY OF NORTHERN DEVELOPMENT AND WIRLS PROVINCIAL MINING RECORDER'S DIFICE	MINING LAND TENURE
	Date / Time of Issue May 18 TOWNSHIP / AREA BAIRD ADMINISTRATIVE DISTR	PLAN G-3739
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