



IVANHOE  
MINES

News Release

October 23rd, 2001

## **ADDITIONAL HIGH-GRADE GOLD AND COPPER DRILL RESULTS EXPAND TURQUOISE HILL DISCOVERY IN MONGOLIA**

OYU TOLGOI, SOUTHERN GOBI DESERT, MONGOLIA – Ivanhoe Mines' Chairman Robert Friedland and newly appointed Deputy Chairman Edward Flood announced today from the project site that ongoing drilling has expanded the company's high-grade discovery of gold, copper and molybdenum porphyry mineralization at the Turquoise Hill (Oyu Tolgoi) Project in southern Mongolia.

### **1. Discovery Zone at Southwest Oyu Expanded**

Final gold and copper assay results from two recently completed diamond-drill holes — holes 162 and 166 — have extended the surface dimensions of the gold-and-copper rich porphyry body — the Discovery Zone — at the northeastern edge of Southwest Oyu to approximately 315 metres by 350 metres. The mineralization extends to a minimum depth of approximately 500 metres below surface.

**Hole 162 averaged 2.25 g/t gold and 0.85% copper over 130 metres, from 110 metres to 240 metres. Hole 166 averaged 1.38 g/t gold and 0.74% copper over 478 metres, from 60 metres to 538 metres, including 1.69 g/t gold and 0.86 % copper over 366 metres, from 172 metres to 538 metres, and 2.59 g/t gold and 0.99 % copper over 108 metres from 172 metres to 280 metres.**

Holes 169 and 171 also have been drilled within the Discovery Zone to down-hole depths of 751 and 614 metres, respectively. Both holes intersected strong copper porphyry mineralization similar to that encountered in holes 150 and 166, and assays are pending.

Hole 171 is a 120-metre step-back from hole 162. It intersected strong zones of copper porphyry mineralization between down-hole depths of 87 and 572 metres.

Hole 169 is a redrill of Hole 163, which did not reach the highly gold-copper mineralized porphyry of the Discovery Zone due to a broken drill string at a down-hole depth of 486 metres. Nevertheless, **hole 163 averaged 1.05 g/t gold and 0.67% copper over 164 metres, from 262 to 438 metres, including 1.64 g/t gold and 0.88% copper over 60 metres, from 336 metres to 396 metres.** Hole 169, located five metres away from Hole 163, exhibited strong copper porphyry mineralization between down-hole depths of 480 and 600 metres below the intervals listed in the table for hole 163.

Drilling has commenced on holes 172 and 173, which are 120-metre step-back holes from holes 171 and 166 respectively, and has commenced on 174, which is a 120-metre step-forward from hole 161 to further delineate this high-grade Discovery Zone.

To date, Ivanhoe has received assay results from five holes (150, 160, 161, 162 and 166) drilled into the Discovery Zone. Previously reported drill results include holes 150, 160 and 161. **Hole 150 averaged 1.17 grams/tonne gold and 0.81% copper over 508 metres, from 70 to 578 metres. Hole 160 averaged 1.68 grams/tonne gold and 0.80% copper over 288 metres, from 46 metres**

to 334 metres. Hole 161 averaged 1.70 grams/tonne gold and 0.71% copper over 358 metres, from 56 metres to 416 metres.

**Southwest Oyu Discovery Zone, (all holes drilled at approximately 55 degrees inclination)**

Hole Number	Final Depth	From (m)	To (m)	Interval (m)	Au (g/t)	Cu (%)
<b>OTD150</b>	590.7 m	0	33	33.0	0.38	0.38
		<b>70</b>	<b>578</b>	<b>508.0</b>	<b>1.17</b>	<b>0.81</b>
including		70	124	54.0	0.45	0.51
including		124	188	64.0	0.88	0.66
including		<b>188</b>	<b>466</b>	<b>278.0</b>	<b>1.60</b>	<b>1.02</b>
including		466	524	58.0	0.79	0.57
including		524	578	54.0	0.40	0.50
<b>OTD160</b>	460.7 m	0	46	46	0.37	0.34
		<b>46</b>	<b>334</b>	<b>288</b>	<b>1.68</b>	<b>0.80</b>
including		46	100	54	0.60	0.59
including		<b>100</b>	<b>172</b>	<b>72</b>	<b>1.14</b>	<b>0.68</b>
including		<b>172</b>	<b>198</b>	<b>26</b>	<b>2.60</b>	<b>1.40</b>
including		<b>208</b>	<b>334</b>	<b>126</b>	<b>2.39</b>	<b>0.89</b>
<b>OTD161</b>	472 m	0	56	54	0.40	0.46
		<b>56</b>	<b>416</b>	<b>358</b>	<b>1.70</b>	<b>0.71</b>
including		56	176	132	0.52	0.47
including		<b>176</b>	<b>416</b>	<b>226</b>	<b>2.39</b>	<b>0.85</b>
<b>OTD162</b>	360.5 m	38	50	12	0.21	0.29
		50	82	32	0.45	0.43
		<b>82</b>	<b>110</b>	<b>28</b>	<b>0.98</b>	<b>0.54</b>
		<b>110</b>	<b>240</b>	<b>130</b>	<b>2.25</b>	<b>0.85</b>
		<b>292</b>	<b>314</b>	<b>22</b>	<b>0.97</b>	<b>0.64</b>
<b>OTD166</b>	601.9	0	60	60	0.16	0.35
		<b>60</b>	<b>538</b>	<b>478</b>	<b>1.38</b>	<b>0.74</b>
		134	538	404	1.59	0.82
		60	134	74	0.28	0.34
		134	172	38	0.55	0.41
		<b>172</b>	<b>538</b>	<b>366</b>	<b>1.69</b>	<b>0.86</b>
		<b>172</b>	<b>280</b>	<b>108</b>	<b>2.59</b>	<b>0.99</b>
		398	484	86	1.90	0.88

The Discovery Zone is coincident with one of several high-grade magnetic anomalies that have been identified within Southwest Oyu. Drilling to test the other anomalies is now underway as part of Ivanhoe's expanded drilling program at Oyu Tolgoi. Drill testing of other prospective targets will be done concurrently with infill drilling of the high-grade Discovery Zone.

**Hole 163 at Southwest Oyu** (hole drilled at approximately 55 degrees inclination)

Hole Number	Final Depth	From (m)	To (m)	Interval (m)	Au (g/t)	Cu (%)
OTD163	488	22	58	36	0.22	0.47
		58	116	58	0.19	0.28
		116	210	84	0.33	0.46
		216	262	40	0.44	0.52
		262	324	62	0.72	0.76
		336	396	60	1.64	0.88
		396	438	42	0.69	0.22
		438	486	48	0.22	0.10

Southwest Oyu is one of four mineralized zones outlined on the project to date. The other zones are South, Central and North Oyu, where previous drilling has outlined significant zones of primary, hypogene copper mineralization. At Central and South Oyu, the primary mineralization is overlain by a supergene-enriched chalcocite and copper oxide blanket that varies in thickness from 30 to 60 metres. The four mineralized zones outlined to date lie within a 3,000-metre by 2,000-metre alteration envelope that delineates the Oyu Tolgoi project area. Drilling is continuing and additional assays will be announced periodically. The results of further drilling are expected to reveal with greater certainty the nature and extent of resources on the property.

Analabs Pty. Ltd., of Australia, performed the sample preparation and analyses of the Ivanhoe drill holes at its regional laboratory in Ulaanbaatar. Chemex Labs and Bondar Clegg of Vancouver, Canada are performing check assays on a 1-in-20 basis.

Complete assay results for all Ivanhoe and BHP holes at the Turquoise Hill Project drilled to date as well as property maps, cross sections and plans, are on the Mongolia Exploration page on Ivanhoe's website at [www.ivanhoemines.com](http://www.ivanhoemines.com).

## 2. Preliminary Flotation Tests Indicate Excellent Recoveries of Gold and Copper

Approximately 400 kilograms of mineralized drill core from Oyu Tolgoi were sent to Lakefield Research in Canada for initial metallurgical test work. Preliminary flotation test results indicate excellent recoveries with 90% of the gold and 95% of the copper in the rougher concentrate. Additional test work was conducted on the chalcocite blanket material, which showed good leachability results from bottle roll test procedures.

Ivanhoe Mines holds a conditional option to acquire 100% of the Turquoise Hill Project from BHP-Billiton.

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### Forward-Looking Statements:

Statements in this release that are forward-looking statements are subject to various risks and uncertainties concerning the specific factors identified in the corporation's periodic filings with Canadian Securities Regulators. Such information contained herein represents management's best judgment as of the date hereof based on information currently available. The corporation does not intend to update this forward-looking information and disclaims any legal liability to the contrary. Charlie Forster, P. Geo., of Ivanhoe Mines, a "Qualified Person" as defined by National Instrument 43-101 of the Canadian Securities Administrators, has reviewed the technical information contained within this release.





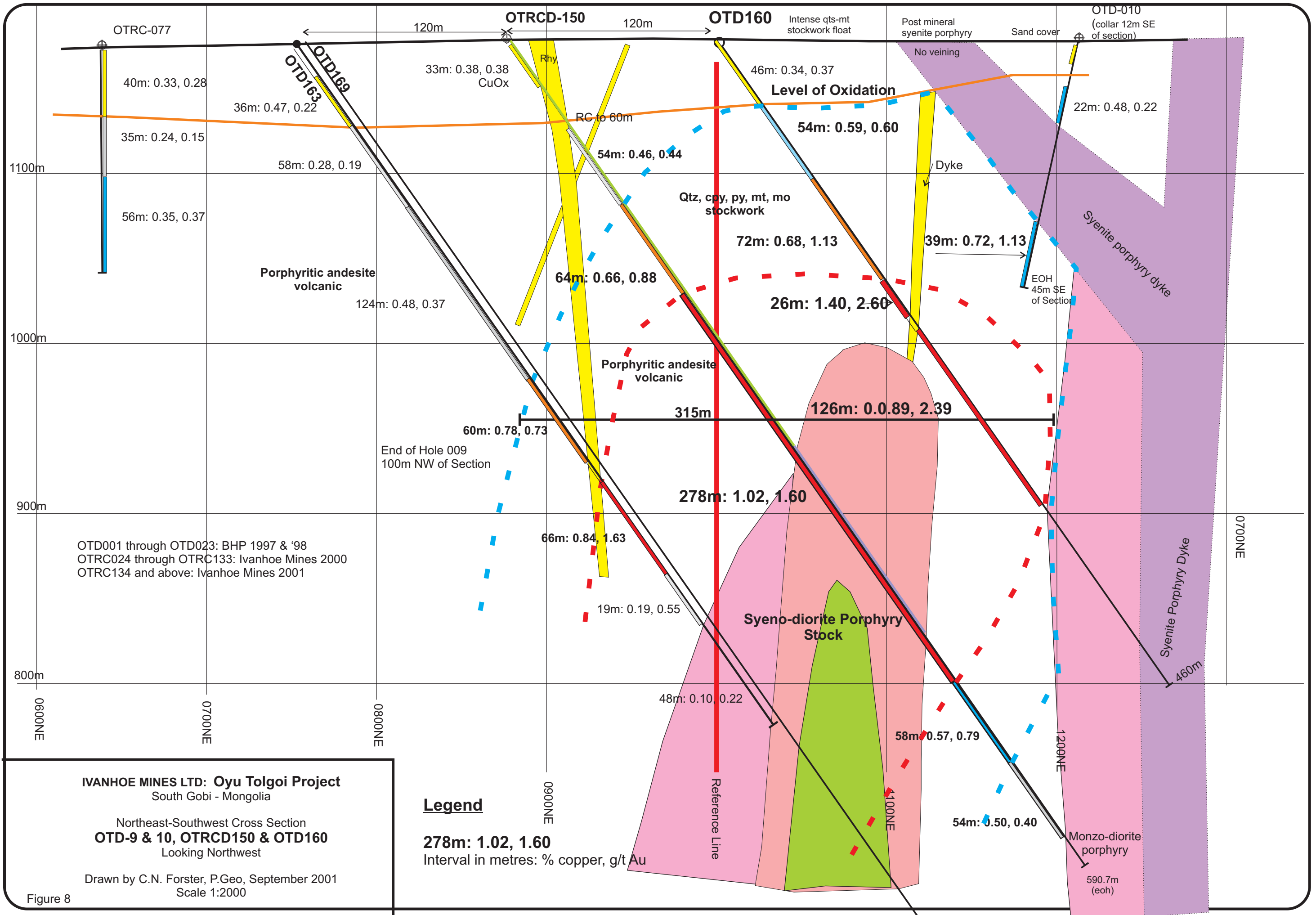
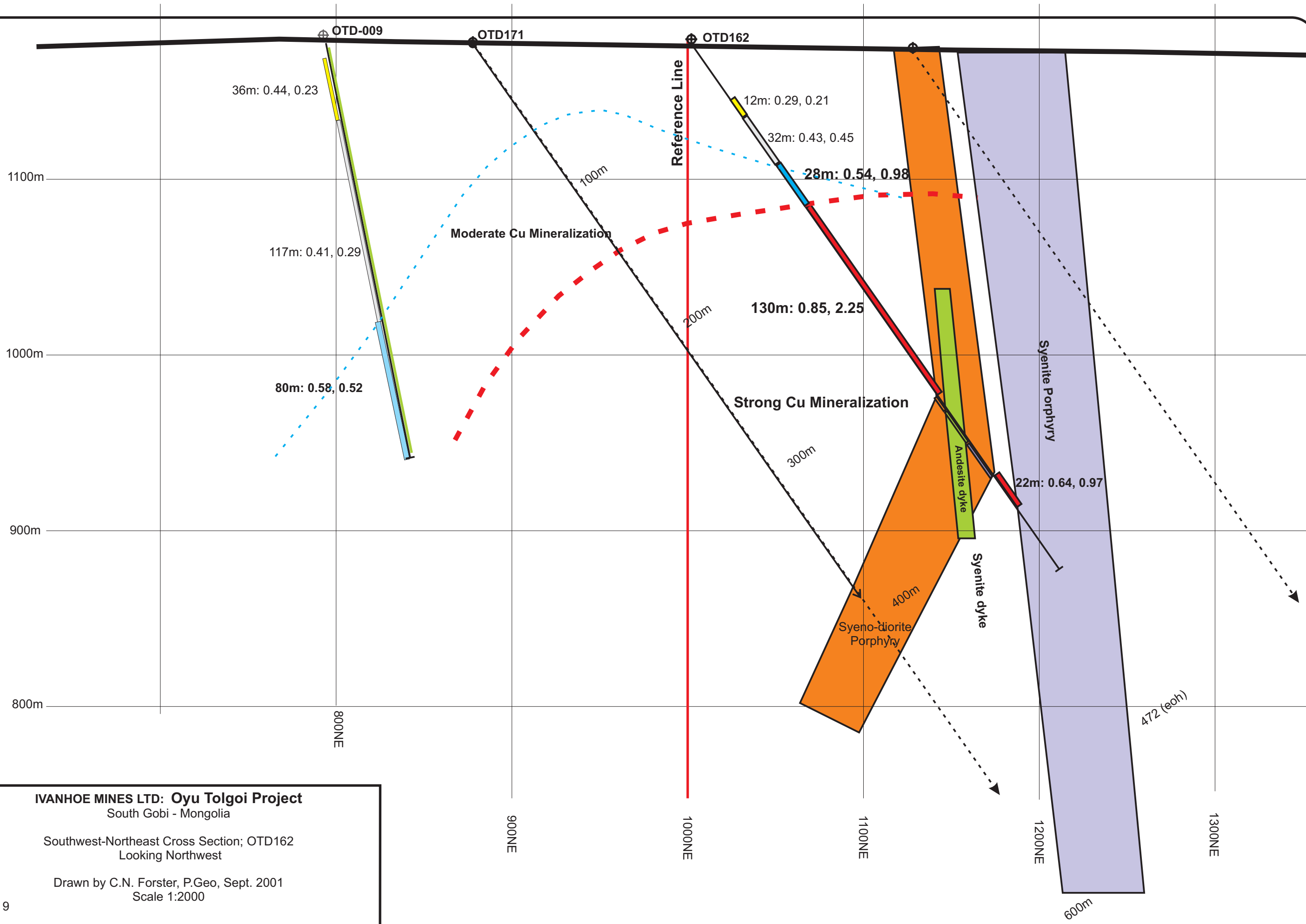


Figure 8



**IVANHOE MINES LTD: Oyu Tolgoi Project**  
 South Gobi - Mongolia

Southwest-Northeast Cross Section; OTD162  
 Looking Northwest

Drawn by C.N. Forster, P.Geo, Sept. 2001  
 Scale 1:2000

Figure 9