



PRESS RELEASE

S-50 ZONE INFILL DRILLING CUTS 20.1 METRES OF 9.51 gAu/tonne AT KIENA MINE

Val d'Or, Quebec – June 22, 2010 – Wesdome Gold Mines Ltd (WDO: TSX) is pleased to announce encouraging infill drilling results which enhance the potential of a previously outlined resource block in close proximity to existing workings.

Highlights include the following intersections:

- 20.1 metres true width at 9.51gAu/tonne
- 9.4 metres true width at 30.28gAu/tonne
- 10.8 metres true width at 6.67gAu/tonne
- 6.5 metres true width at 7.69gAu/tonne

“Evidence of better than previously contemplated grades demonstrates potential to upgrade this block to reserves and move it into our mining sequence. Subject to formal costing and planning, this area shows potential to add at least one year of reserves,” commented Donovan Pollitt, P.Eng., President of Wesdome.

The area drilled is situated in the S-50 Zone immediately below an existing ramp (Figure 1). Development of this area would provide a drilling platform to further extend and outline the new S-50 Deep Zone, recently announced in a press release dated March 29, 2010 (Figures 2 and 3).

A comprehensive list of recent drilling results follows in Table 1.

**Table 1: S-50 Zone Intersections
Drilled from level 91
13450E/12600N/2145m**

Hole No.	Azimuth (degrees)	Dip (degrees)	From (m)	To (m)	Core length (m)	True Width (m)	Grade (gAu/tonne)	Cut Grade (34.28gAu/tonne)
U-4991	220	-21	145.5	157.4	11.9	11.5	3.73	3.73
		includes	150.5	157.4	6.9	6.7	5.22	5.22
U-4992	210	-45	133.6	154.0	20.4	20.1	9.51	4.60
		includes	133.6	139.0	5.4	5.2	28.79	10.24
U-5009	210	-27.5	147.3	153.0	5.7	5.2	2.12	2.12
U-5010	218	-59	161.2	168.6	7.4	6.8	3.46	3.46

U-5011	200	-44	147.8	153.9	6.1	5.7	3.00	3.00
U-5012	198	-24.5	137.5	151.85	14.35	13.4	1.27	1.27
		includes	137.5	141.3	3.8	3.6	2.79	2.79
U-5013	190	-35	142.5	148.4	5.9	5.3	1.28	1.28
U-5014	190	-14.5	162.5	168.5	6.0	4.7	3.30	3.30
			194.0	201.0	7.0	5.7	3.25	3.25
U-5015	185	-10	169.0	179.0	10.0	7.6	3.22	3.22
U-5016	179	-29	146.5	154.0	7.5	6.4	3.99	3.99
			174.1	191.8	17.7	11.2	1.96	1.96
		includes	174.1	180.2	6.1	3.9	3.46	3.46
U-5032	221	-30	146.5	156.0	9.5	9.4	30.28	6.87
U-5033	221	-40	141.15	156.8	15.65	15.6	3.89	3.89
		includes	145.0	156.8	11.8	11.8	4.58	4.58
U-5034	230	-52	156.0	161.0	5.0	4.9	0.89	0.89
U-5035	230	-38	146.0	156.8	10.8	10.8	6.67	5.06
		includes	151.0	156.8	5.8	5.8	11.49	8.50
U-5036	230	-30	150.0	156.6	6.6	6.5	7.69	7.69
			188.0	192.1	4.1	4.0	4.35	4.35
U-5037	247	-40	150.8	156.6	5.8	5.4	0.36	0.36
U-5038	247	-25	147.0	155.0	8.0	6.6	3.43	3.43
			180.5	186.5	6.0	5.0	4.58	4.58
U-5039	265	-40	153.85	159.8	5.95	4.8	0.37	0.37

Mineralization is typical of the S-50 zone consisting of an albitized stockwork vein-breccia-dyke complex emplaced near the contact of tholeiitic basalt and komatiite flows. The S-50 zone has provided about 91% of the 1.7 million ounces of gold produced to date from the Kiena mine.

Technical information in this press release has been compiled, reviewed and verified by P. Arscott, P. Geo, Chief Geologist – Kiena Mine and “Qualified Person” as defined by National Instrument 43-101. Assaying was done by fire assay methods at the Kiena mine assay office. In addition to internal duplicate, standards and blanks, the geology department inserts blind standards and blanks into the sample stream at a frequency of one in twenty to monitor quality control.

ABOUT WESDOME

Wesdome is an established Canadian gold producer with wholly-owned mining and milling complexes located in Wawa, Ontario and Val d’Or, Québec. Wesdome has been producing gold continually for 20 years on an unhedged basis and to date has produced in excess of 1.0 million ounces. The Company has 100.7 million shares issued and outstanding and trades on the Toronto Stock Exchange under the symbol “WDO”.

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Figure 1: S-50 Zone Longitudinal Section

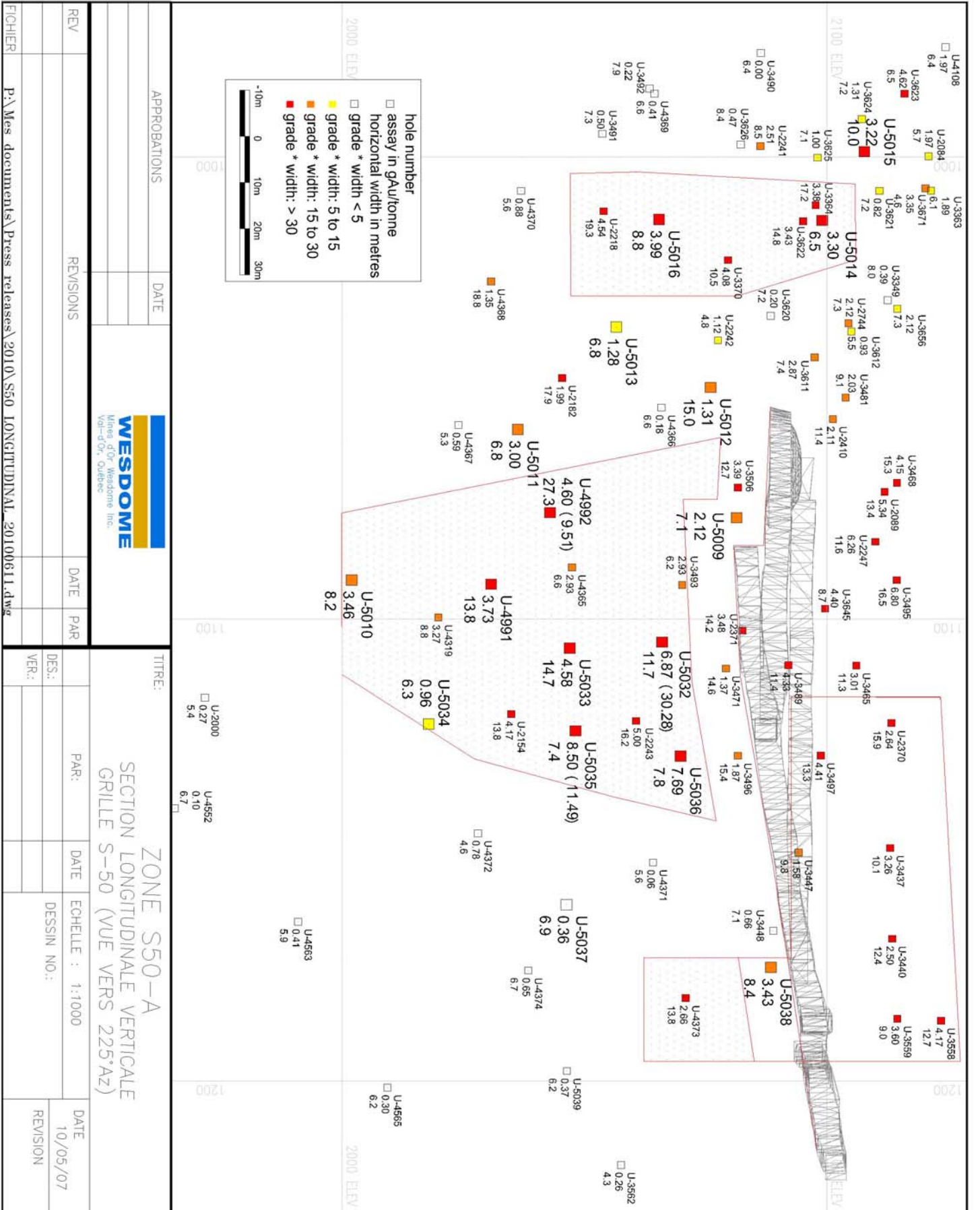


Figure 2: S-50 Zone Definition Holes with Deep Trend

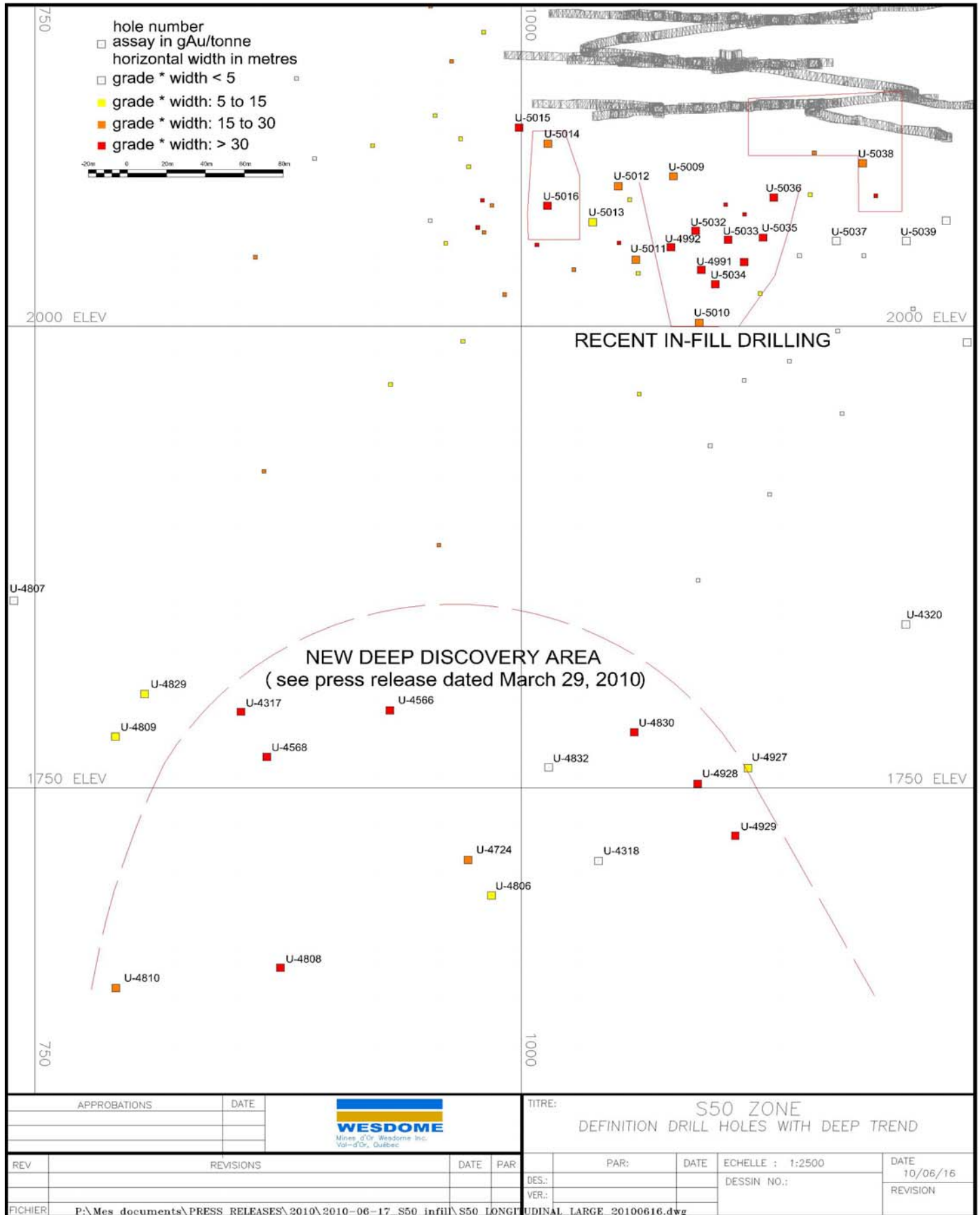


Figure 3: Kiena Mine Underground Drilling Targets

