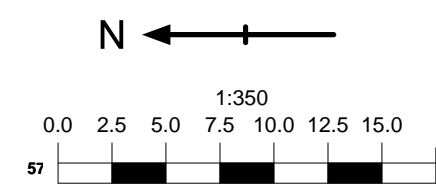


Q_Au_gpt	Kir_Mineralization
(ABSENT)	Molybdenite
[FLOOR,0-1]	Pyrite
[0.1,0.5]	
[0.5,1]	
[1,2.5]	
[2.5,5]	
[5,10]	
[10,25]	
[25,CEILING]	

Kir_oth_Litho Database	Casing
Alteration	Chert
Fault	Quartz Feldspar Porphyry
Intrusive Undifferentiated	Feldspar Porphyry
Quartz Porphyry	Intermediate Intrusive
Diabase	Lost Core
Mafic Intrusive	Mineralization
Metamorphic Undifferentiated	Sediment - Undifferentiated
Overburden	Shear
Schist	Conglomerate
Argillite	Mudstone
Tuff	Siltstone
Sandstone	Unknown
Greywacke	Intermediate Volcanic
Felsic Volcanic	Mafic Hyaloclastite - flow BX
Mafic Volcanic	Quartz Vein
Ultramafic Volcanic	

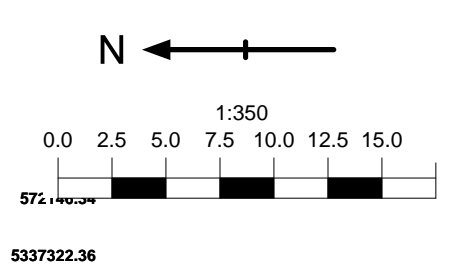
	<b>Kirana Project Kirkland Lake</b>	
<b>Oblique Geological Sections</b>		
Section 1 of 15	1:350	Clipping 7.5m/side
A.Kirwan	22 November 2013	NAD83 UTM Zone 17N



Q_Au_gpt	Kir_Mineralization
(ABSENT)	Molybdenite
[FLOOR,0-1]	Pyrite
[0.1,0.5]	
[0.5,1]	
[1,2.5]	
[2.5,5]	
[5,10]	
[10,25]	
[25,CEILING]	

Kir litho Database	Casing
Alteration	Chert
Fault	Quartz Feldspar Porphyry
Intrusive Undifferentiated	Feldspar Porphyry
Quartz Porphyry	Intermediate Intrusive
Diabase	Lost Core
Mafic Intrusive	Mineralization
Metamorphic Undifferentiated	Sediment - Undifferentiated
Overburden	Shear
Schist	Conglomerate
Argillite	Mudstone
Tuff	Siltstone
Sandstone	Unknown
Greywacke	Intermediate Volcanic
Felsic Volcanic	Mafic Volcanic
Mafic Volcanic	Mafic Hyaloclastite - flow BX
Ultramafic Volcanic	Quartz Vein

	<b>Kirana Project Kirkland Lake</b>	
<b>Oblique Geological Sections</b>		
Section 2 of 15	1:350	Clipping 7.5m/side
A.Kirwan	22 November 2013	NAD83 UTM Zone 17N

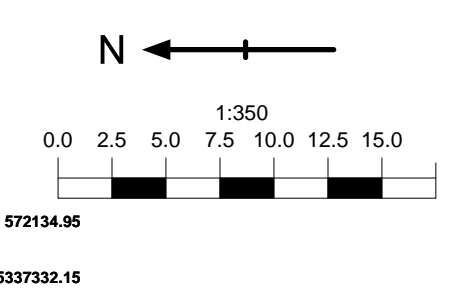
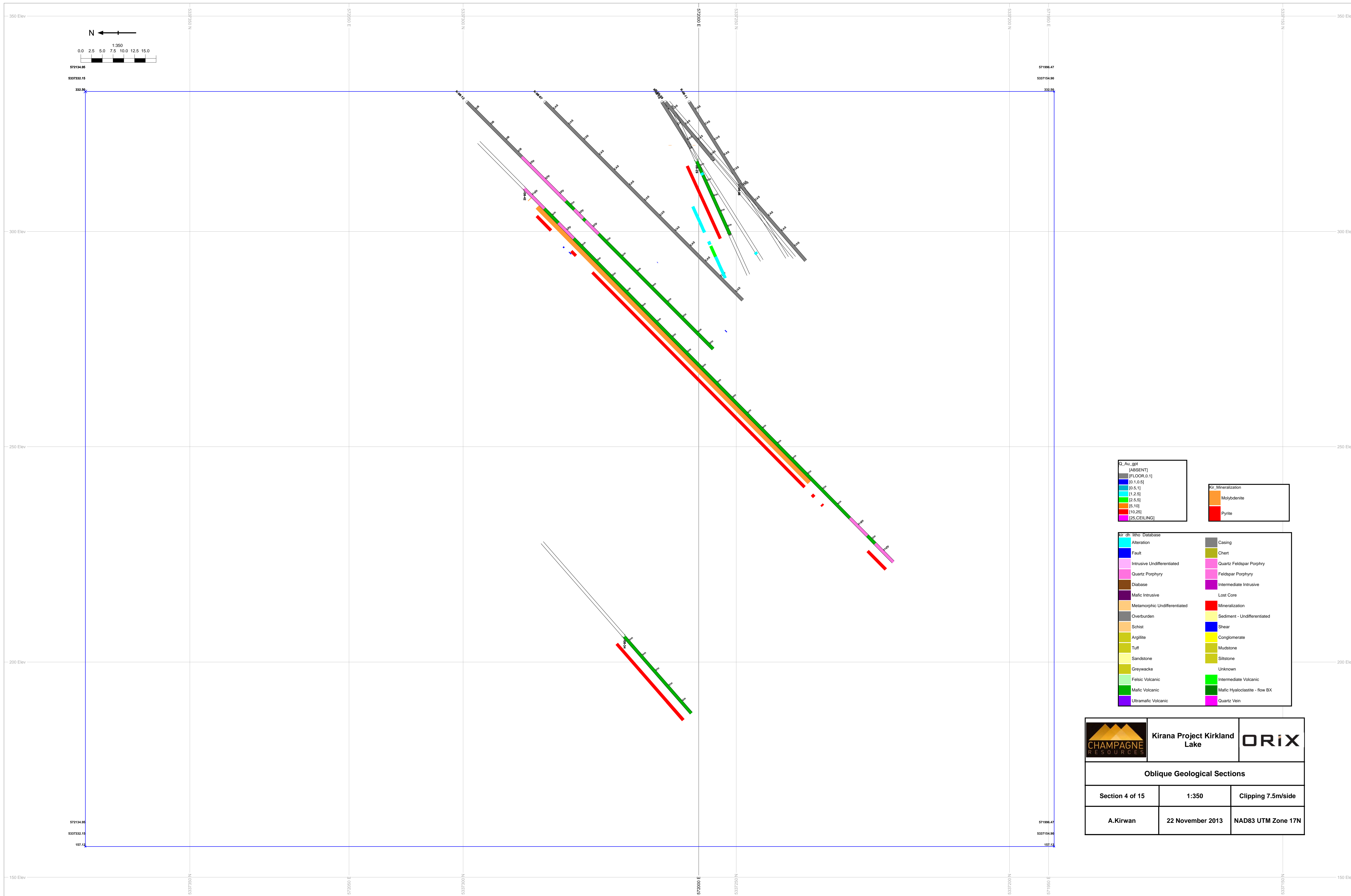


Q_Au_gpt (ABSENT)		Kir_Mineralization	
[FLOOR,0-1]		Molybdenite	
[0.1,0.5]		Pyrite	
[0.5,1]			
[1,2.5]			
[2.5,5]			
[5,10]			
[10,25]			
[25,CEILING]			

Kir litho Database		Casing	
Alteration		Chert	
Fault		Quartz Feldspar Porphyry	
Intrusive Undifferentiated		Feldspar Porphyry	
Quartz Porphyry		Intermediate Intrusive	
Diabase		Lost Core	
Mafic Intrusive		Mineralization	
Metamorphic Undifferentiated		Sediment - Undifferentiated	
Overburden		Shear	
Schist		Conglomerate	
Argillite		Mudstone	
Tuff		Siltstone	
Sandstone		Unknown	
Greywacke		Intermediate Volcanic	
Felsic Volcanic		Mafic Hyaloclastite - flow BX	
Mafic Volcanic		Quartz Vein	
Ultramafic Volcanic			

	<b>Kirana Project Kirkland Lake</b>	
<b>Oblique Geological Sections</b>		
<b>Section 3 of 15</b>	<b>1:350</b>	<b>Clipping 7.5m/side</b>
<b>A.Kirwan</b>	<b>22 November 2013</b>	<b>NAD83 UTM Zone 17N</b>

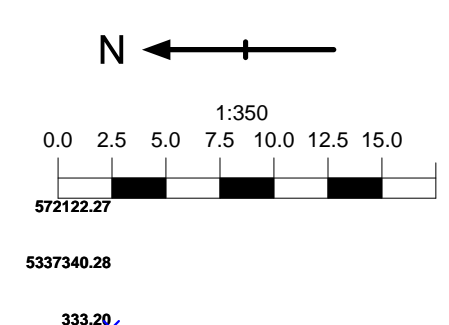
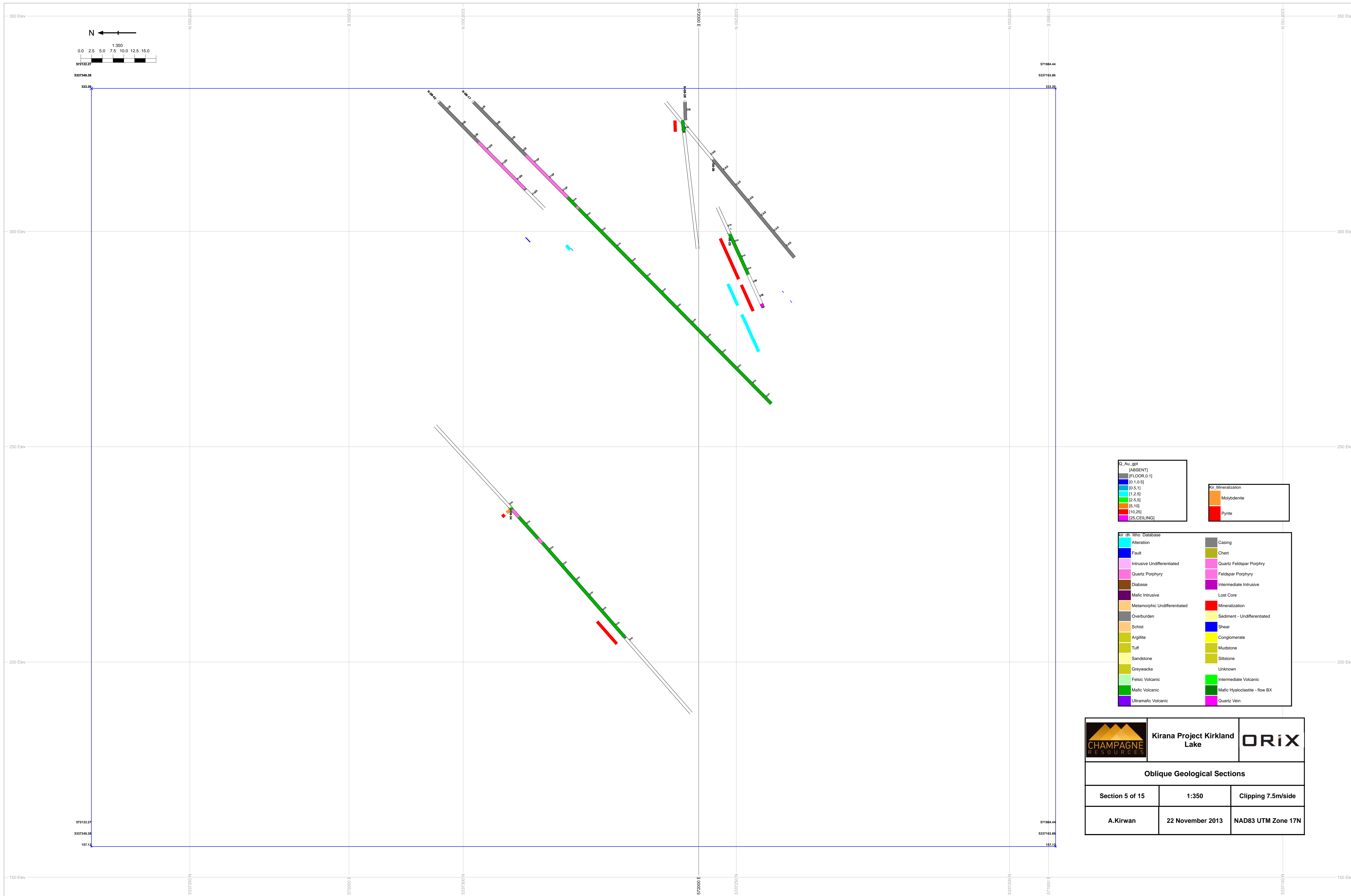


Q_Au_gmt		Kir_Mineralization	
(ABSENT)		Molybdenite	
[0.1,0.5]		Pyrite	
[0.5,1]			
[1,2.5]			
[2.5,5]			
[5,10]			
[10,25]			
[25,CEILING]			

Kir lith Database		Casing	
Alteration		Casing	
Fault		Chert	
Intrusive Undifferentiated		Quartz Feldspar Porphyry	
Quartz Porphyry		Feldspar Porphyry	
Diabase		Intermediate Intrusive	
Mafic Intrusive		Lost Core	
Metamorphic Undifferentiated		Mineralization	
Overburden		Sediment - Undifferentiated	
Schist		Shear	
Argillite		Conglomerate	
Tuff		Mudstone	
Sandstone		Siltstone	
Greywacke		Unknown	
Felsic Volcanic		Intermediate Volcanic	
Mafic Volcanic		Mafic Hyaloclastite - flow BX	
Ultramafic Volcanic		Quartz Vein	

	<b>Kirana Project Kirkland Lake</b>	
<b>Oblique Geological Sections</b>		
<b>Section 4 of 15</b>	<b>1:350</b>	<b>Clipping 7.5m/side</b>
<b>A.Kirwan</b>	<b>22 November 2013</b>	<b>NAD83 UTM Zone 17N</b>

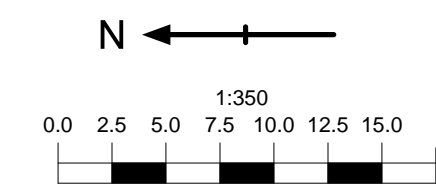


Q_Au_gpt (ABSENT)		Kir_Mineralization	
[FLOOR,0-1]		Molybdenite	
[0.1,0.5]		Pyrite	
[0.5,1]			
[1,2.5]			
[2.5,5]			
[5,10]			
[10,25]			
[25,CEILING]			

Kir_itho Database		Casing	
Alteration		Chert	
Fault		Quartz Feldspar Porphyry	
Intrusive Undifferentiated		Feldspar Porphyry	
Quartz Porphyry		Intermediate Intrusive	
Diabase		Lost Core	
Mafic Intrusive		Mineralization	
Metamorphic Undifferentiated		Sediment - Undifferentiated	
Overburden		Shear	
Schist		Conglomerate	
Argillite		Mudstone	
Tuff		Siltstone	
Sandstone		Unknown	
Greywacke		Intermediate Volcanic	
Felsic Volcanic		Mafic Hyaloclastite - flow BX	
Mafic Volcanic		Quartz Vein	
Ultramafic Volcanic			

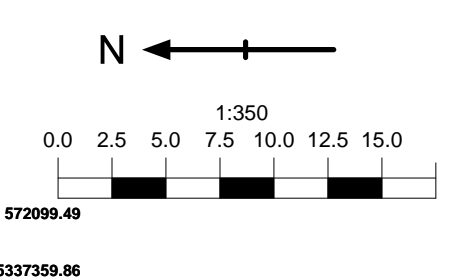
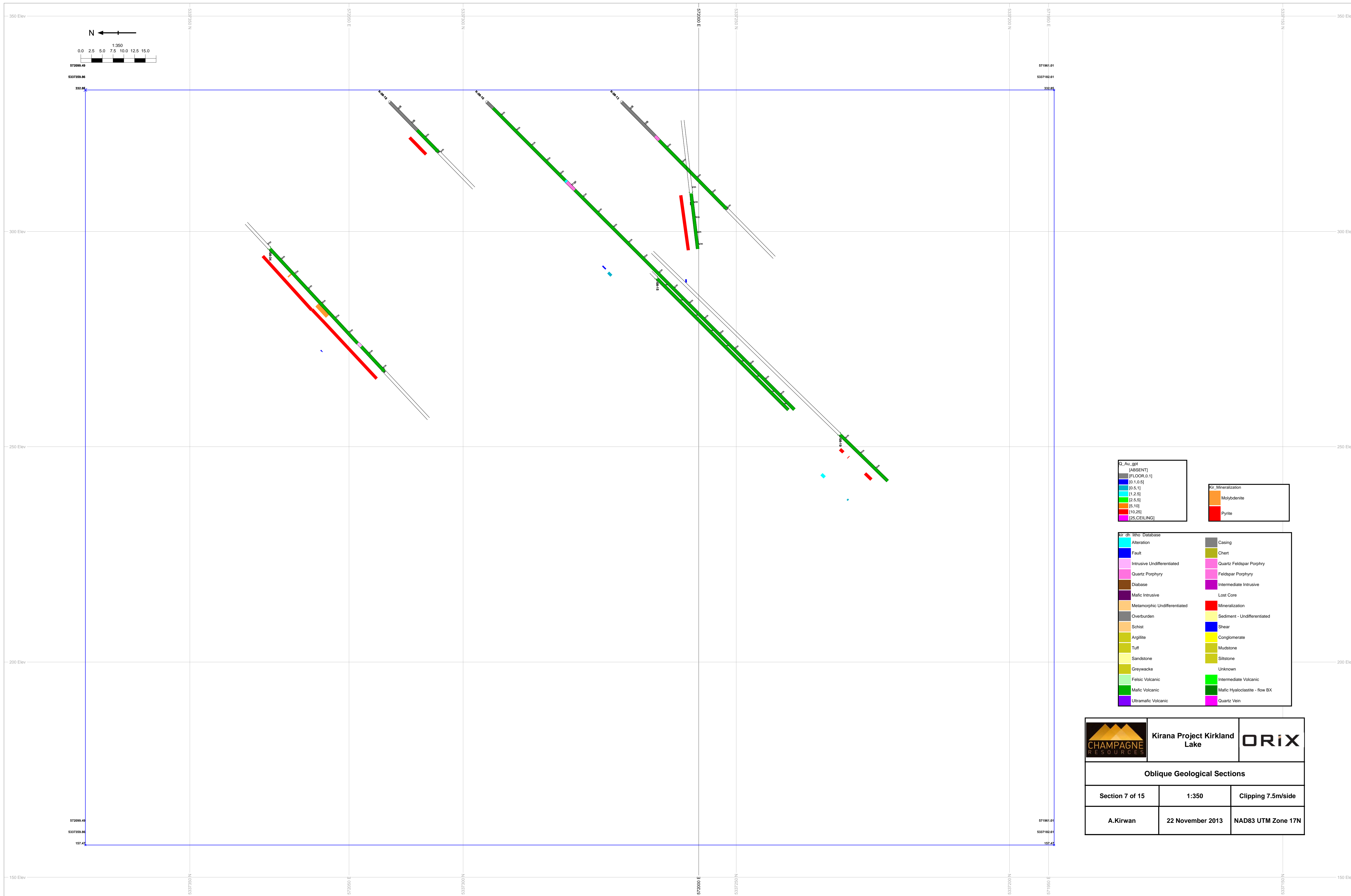
	<b>Kirana Project Kirkland Lake</b>	
<b>Oblique Geological Sections</b>		
<b>Section 5 of 15</b>	<b>1:350</b>	<b>Clipping 7.5m/side</b>
<b>A.Kirwan</b>	<b>22 November 2013</b>	<b>NAD83 UTM Zone 17N</b>



Q_Au_gpt	Kir_Mineralization
(ABSENT)	Molybdenite
[FLOOR,0-1]	Pyrite
[0.1,0.5]	
[0.5,1]	
[1,2.5]	
[2.5,5]	
[5,10]	
[10,25]	
[25,CEILING]	

Kir litho Database	Casing
Alteration	Chert
Fault	Quartz Feldspar Porphyry
Intrusive Undifferentiated	Feldspar Porphyry
Quartz Porphyry	Intermediate Intrusive
Diabase	Lost Core
Mafic Intrusive	Mineralization
Metamorphic Undifferentiated	Sediment - Undifferentiated
Overburden	Shear
Schist	Conglomerate
Argillite	Mudstone
Tuff	Siltstone
Sandstone	Unknown
Greywacke	Intermediate Volcanic
Felsic Volcanic	Mafic Hyaloclastite - flow BX
Mafic Volcanic	Quartz Vein
Ultramafic Volcanic	

	<b>Kirana Project Kirkland Lake</b>	
<b>Oblique Geological Sections</b>		
Section 6 of 15	1:350	Clipping 7.5m/side
A.Kirwan	22 November 2013	NAD83 UTM Zone 17N

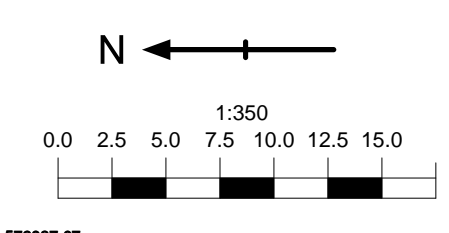
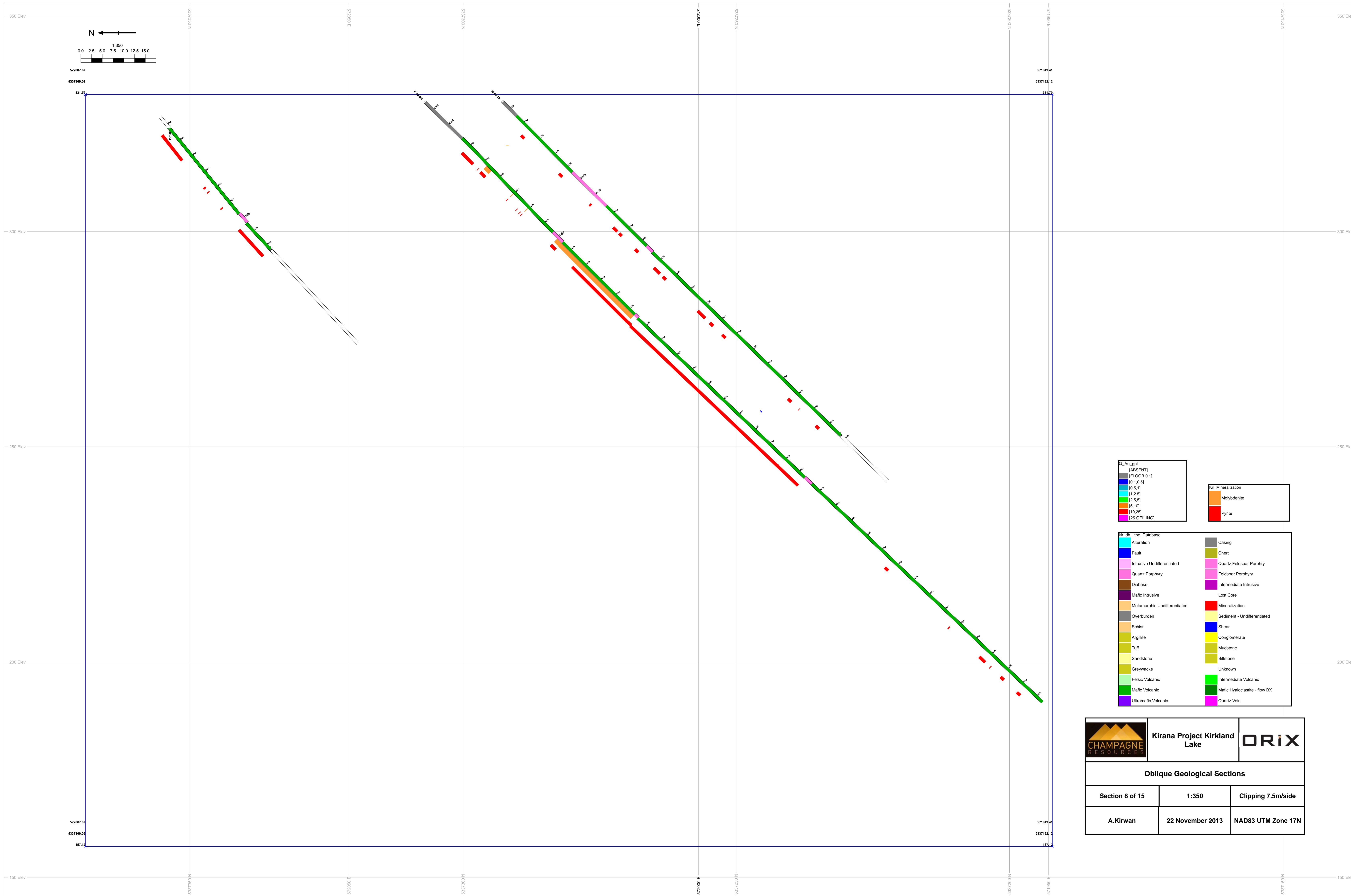


Q_Au_gpt (ABSENT)		Kir_Mineralization	
[FLOOR,0-1]		Molybdenite	
[0.1,0.5]		Pyrite	
[0.5,1]			
[1,2.5]			
[2.5,5]			
[5,10]			
[10,25]			
[25,CEILING]			

Kir_dh_litho Database		Casing	
Alteration		Chert	
Fault		Quartz Feldspar Porphyry	
Intrusive Undifferentiated		Feldspar Porphyry	
Quartz Porphyry		Intermediate Intrusive	
Diabase		Lost Core	
Mafic Intrusive		Mineralization	
Metamorphic Undifferentiated		Sediment - Undifferentiated	
Overburden		Shear	
Schist		Conglomerate	
Argillite		Mudstone	
Tuff		Siltstone	
Sandstone		Unknown	
Greywacke		Intermediate Volcanic	
Felsic Volcanic		Mafic Hyaloclastite - flow BX	
Mafic Volcanic		Quartz Vein	
Ultramafic Volcanic			

	<b>Kirana Project Kirkland Lake</b>	
<b>Oblique Geological Sections</b>		
Section 7 of 15	1:350	Clipping 7.5m/side
A.Kirwan	22 November 2013	NAD83 UTM Zone 17N



572087.67 5337369.09 331.75 571949.41 5337192.12 331.75

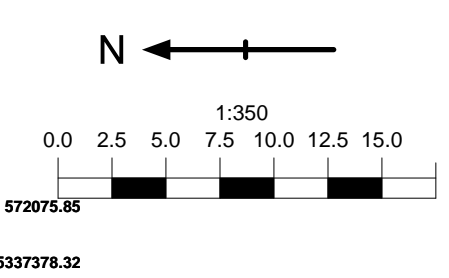
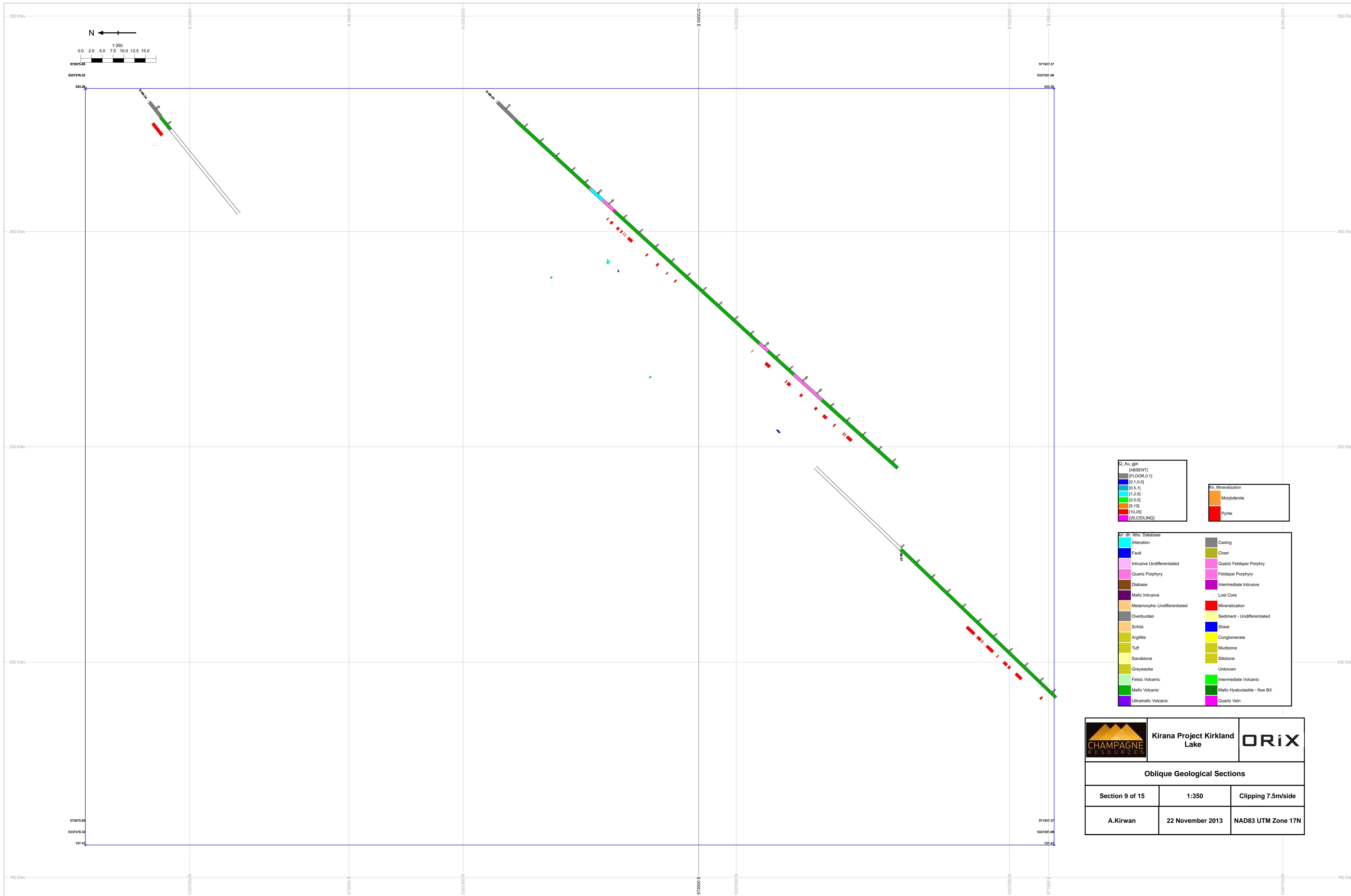
572087.67 5337369.09 157.15 571949.41 5337192.12 157.15

Q_Au_gpt	Kir_Mineralization
(ABSENT)	Molybdenite
[FLOOR,0-1]	Pyrite
[0.1,0.5]	
[0.5,1]	
[1,2.5]	
[2.5,5]	
[5,10]	
[10,25]	
[25,CEILING]	

Kir litho Database	Casing
Alteration	Chert
Fault	Quartz Feldspar Porphyry
Intrusive Undifferentiated	Feldspar Porphyry
Quartz Porphyry	Intermediate Intrusive
Diabase	Lost Core
Mafic Intrusive	Mineralization
Metamorphic Undifferentiated	Sediment - Undifferentiated
Overburden	Shear
Schist	Conglomerate
Argillite	Mudstone
Tuff	Siltstone
Sandstone	Unknown
Greywacke	Intermediate Volcanic
Felsic Volcanic	Mafic Hyaloclastite - flow BX
Mafic Volcanic	Quartz Vein
Ultramafic Volcanic	

	<b>Kirana Project Kirkland Lake</b>	
<b>Oblique Geological Sections</b>		
<b>Section 8 of 15</b>	<b>1:350</b>	<b>Clipping 7.5m/side</b>
<b>A.Kirwan</b>	<b>22 November 2013</b>	<b>NAD83 UTM Zone 17N</b>

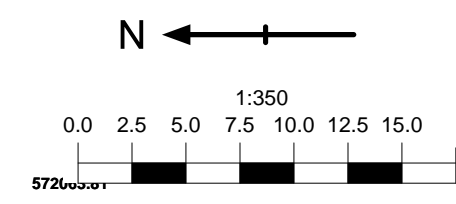




Q_Au_gpt		Kir_Mineralization	
(ABSENT)		Molybdenite	
[FLOOR,0-1]		Pyrite	
[0.1,0.5]			
[0.5,1]			
[1,2.5]			
[2.5,5]			
[5,10]			
[10,25]			
[25,CEILING]			

Kir litho Database		Casing	
Alteration		Casing	
Fault		Chert	
Intrusive Undifferentiated		Quartz Feldspar Porphyry	
Quartz Porphyry		Feldspar Porphyry	
Diabase		Intermediate Intrusive	
Mafic Intrusive		Lost Core	
Metamorphic Undifferentiated		Mineralization	
Overburden		Sediment - Undifferentiated	
Schist		Shear	
Argillite		Conglomerate	
Tuff		Mudstone	
Sandstone		Siltstone	
Greywacke		Unknown	
Felsic Volcanic		Intermediate Volcanic	
Mafic Volcanic		Mafic Hyaloclastite - flow BX	
Ultramafic Volcanic		Quartz Vein	

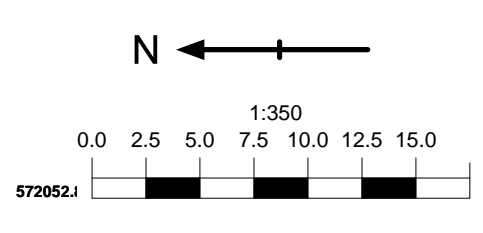
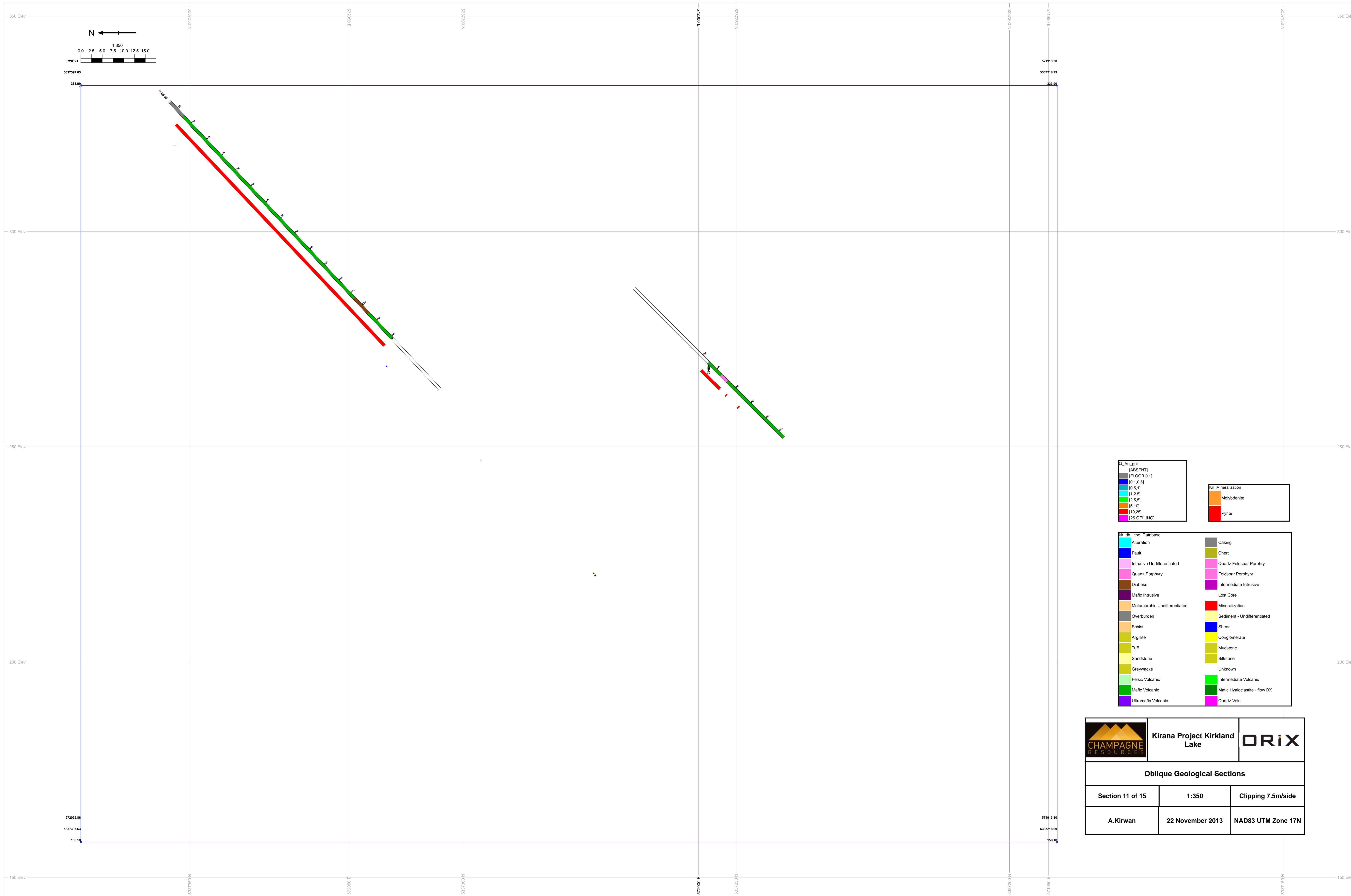
	<b>Kirana Project Kirkland Lake</b>	
<b>Oblique Geological Sections</b>		
<b>Section 9 of 15</b>	<b>1:350</b>	<b>Clipping 7.5m/side</b>
<b>A.Kirwan</b>	<b>22 November 2013</b>	<b>NAD83 UTM Zone 17N</b>



Q_Au_gpt	Kir_Mineralization
(ABSENT)	Molybdenite
[FLOOR,0-1]	Pyrite
[0.1,0.5]	
[0.5,1]	
[1,2.5]	
[2.5,5]	
[5,10]	
[10,25]	
[25,CEILING]	

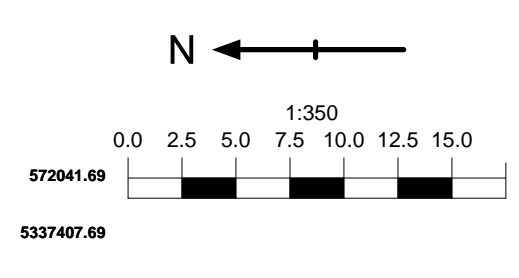
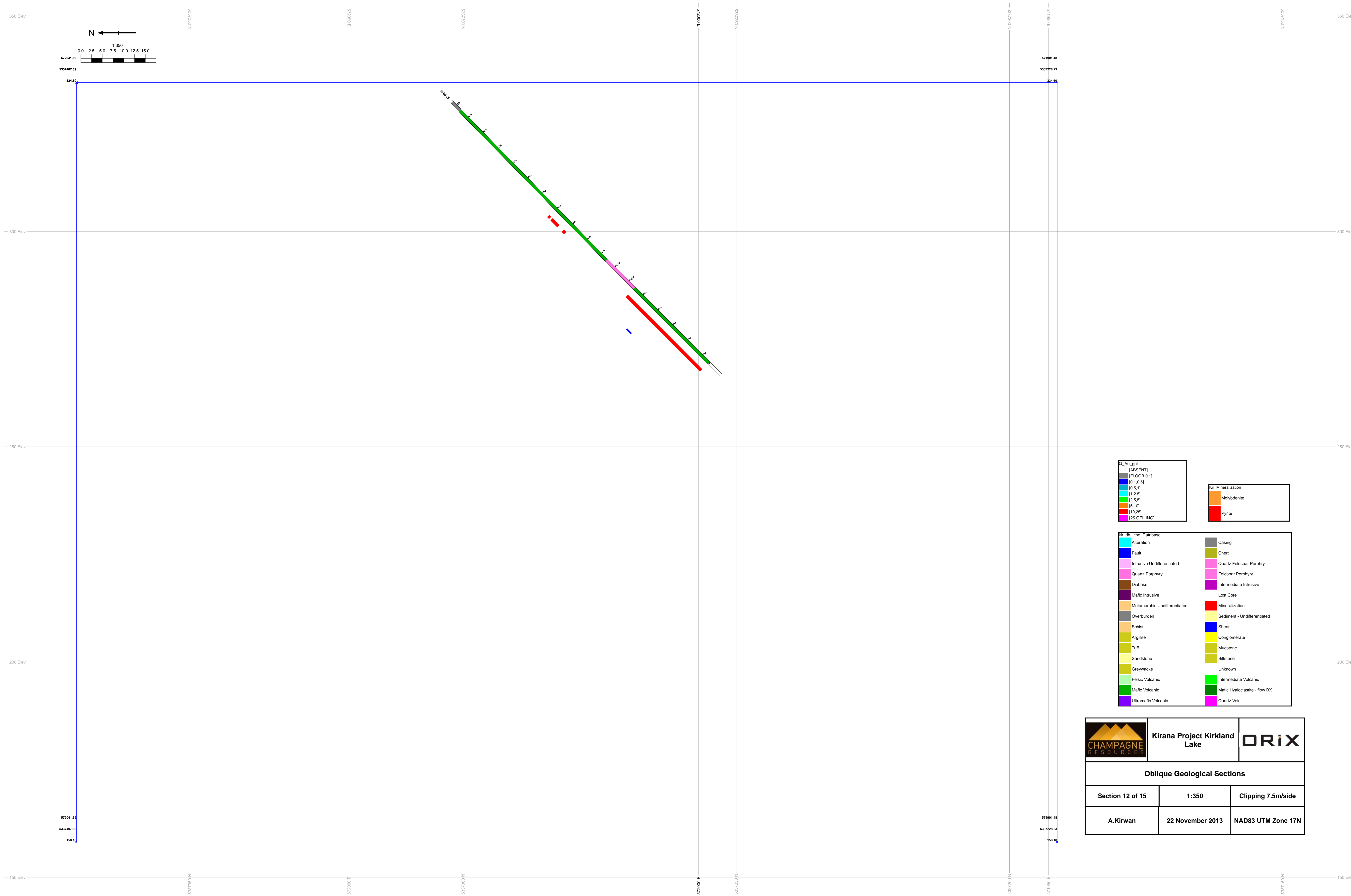
Kir litho Database	Casing
Alteration	Chert
Fault	Quartz Feldspar Porphyry
Intrusive Undifferentiated	Feldspar Porphyry
Quartz Porphyry	Intermediate Intrusive
Diabase	Lost Core
Mafic Intrusive	Mineralization
Metamorphic Undifferentiated	Sediment - Undifferentiated
Overburden	Shear
Schist	Conglomerate
Argillite	Mudstone
Tuff	Siltstone
Sandstone	Unknown
Greywacke	Intermediate Volcanic
Felsic Volcanic	Mafic Hyaloclastite - flow BX
Mafic Volcanic	Quartz Vein
Ultramafic Volcanic	

	<b>Kirana Project Kirkland Lake</b>	
<b>Oblique Geological Sections</b>		
<b>Section 10 of 15</b>	<b>1:350</b>	<b>Clipping 7.5m/side</b>
<b>A.Kirwan</b>	<b>22 November 2013</b>	<b>NAD83 UTM Zone 17N</b>



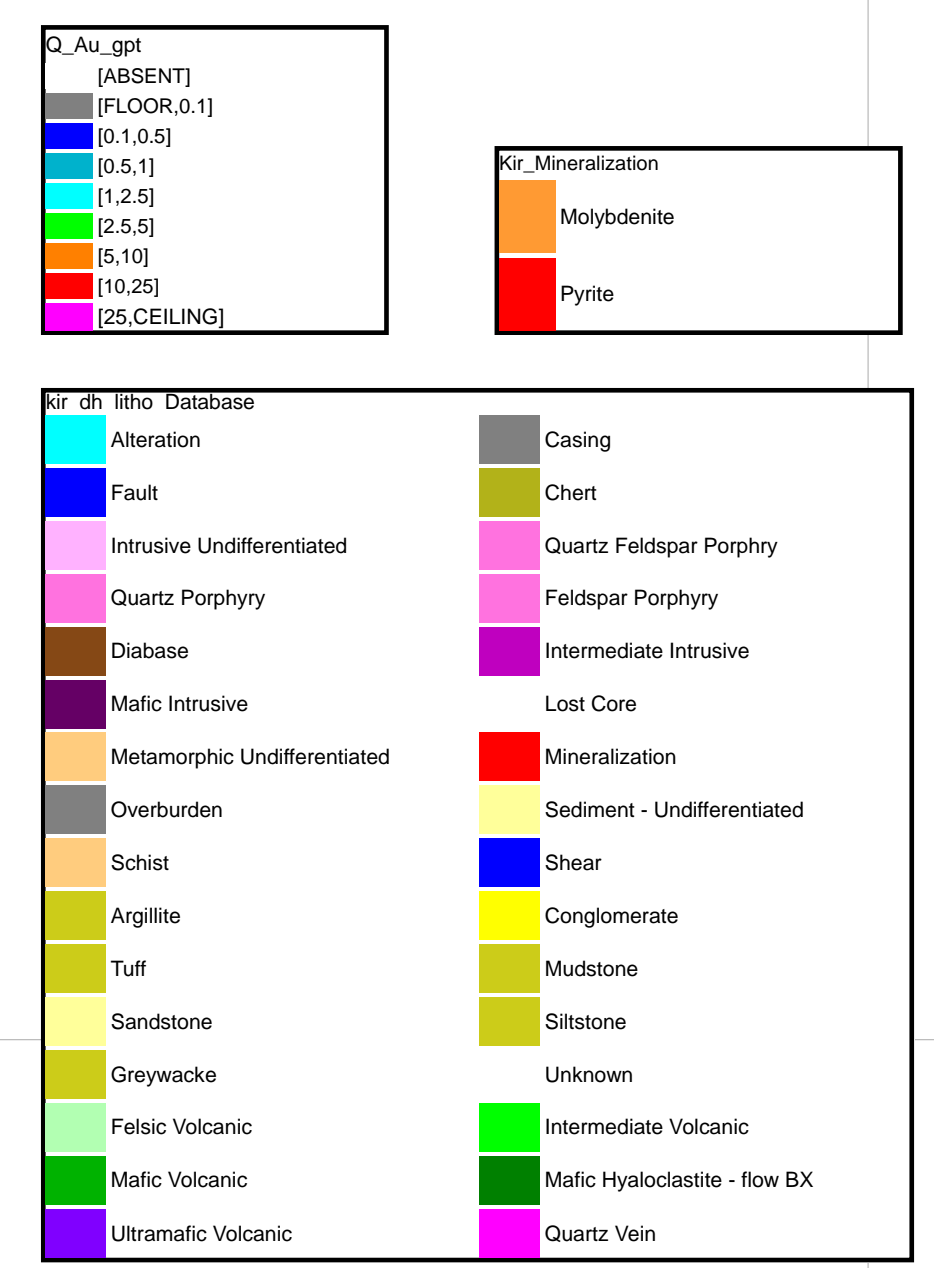
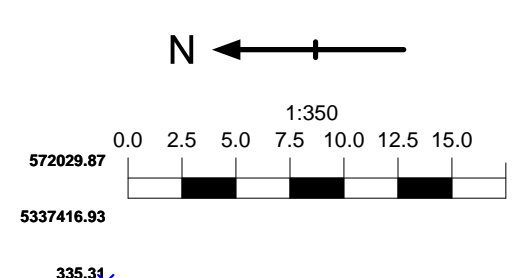
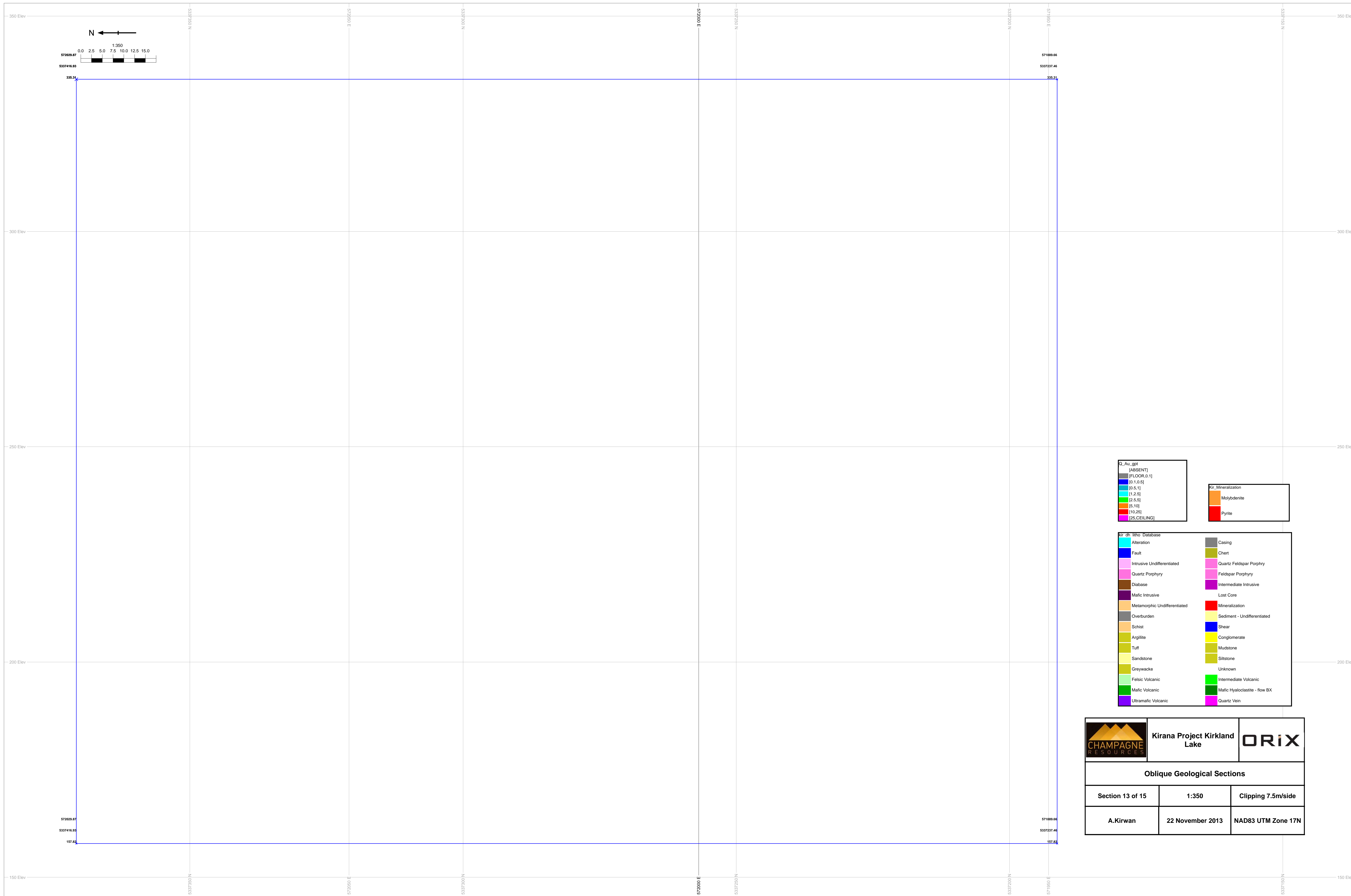
<b>Q_Au_gpt</b> (ABSENT) [0.1,0.5] [0.5,1] [1,2.5] [2.5,5] [5,10] [10,25] [25,CEILING]		<b>Kir_Mineralization</b> Molybdenite Pyrite	
<b>Kir_itho Database</b> Alteration Fault Intrusive Undifferentiated Quartz Porphyry Diabase Mafic Intrusive Metamorphic Undifferentiated Overburden Schist Argillite Tuff Sandstone Greywacke Felsic Volcanic Mafic Volcanic Ultramafic Volcanic		Casing Chert Quartz Feldspar Porphyry Feldspar Porphyry Intermediate Intrusive Lost Core Mineralization Sediment - Undifferentiated Conglomerate Mudstone Siltstone Unknown Intermediate Volcanic Mafic Hyaloclastite - flow BX Quartz Vein	



	<b>Kirana Project Kirkland Lake</b>	
<b>Oblique Geological Sections</b>		
<b>Section 11 of 15</b>	<b>1:350</b>	<b>Clipping 7.5m/side</b>
<b>A.Kirwan</b>	<b>22 November 2013</b>	<b>NAD83 UTM Zone 17N</b>

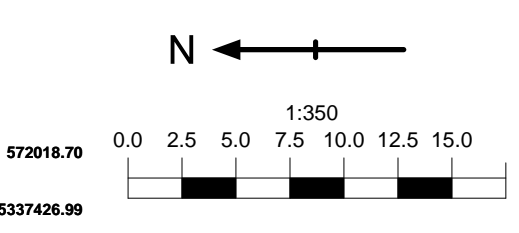
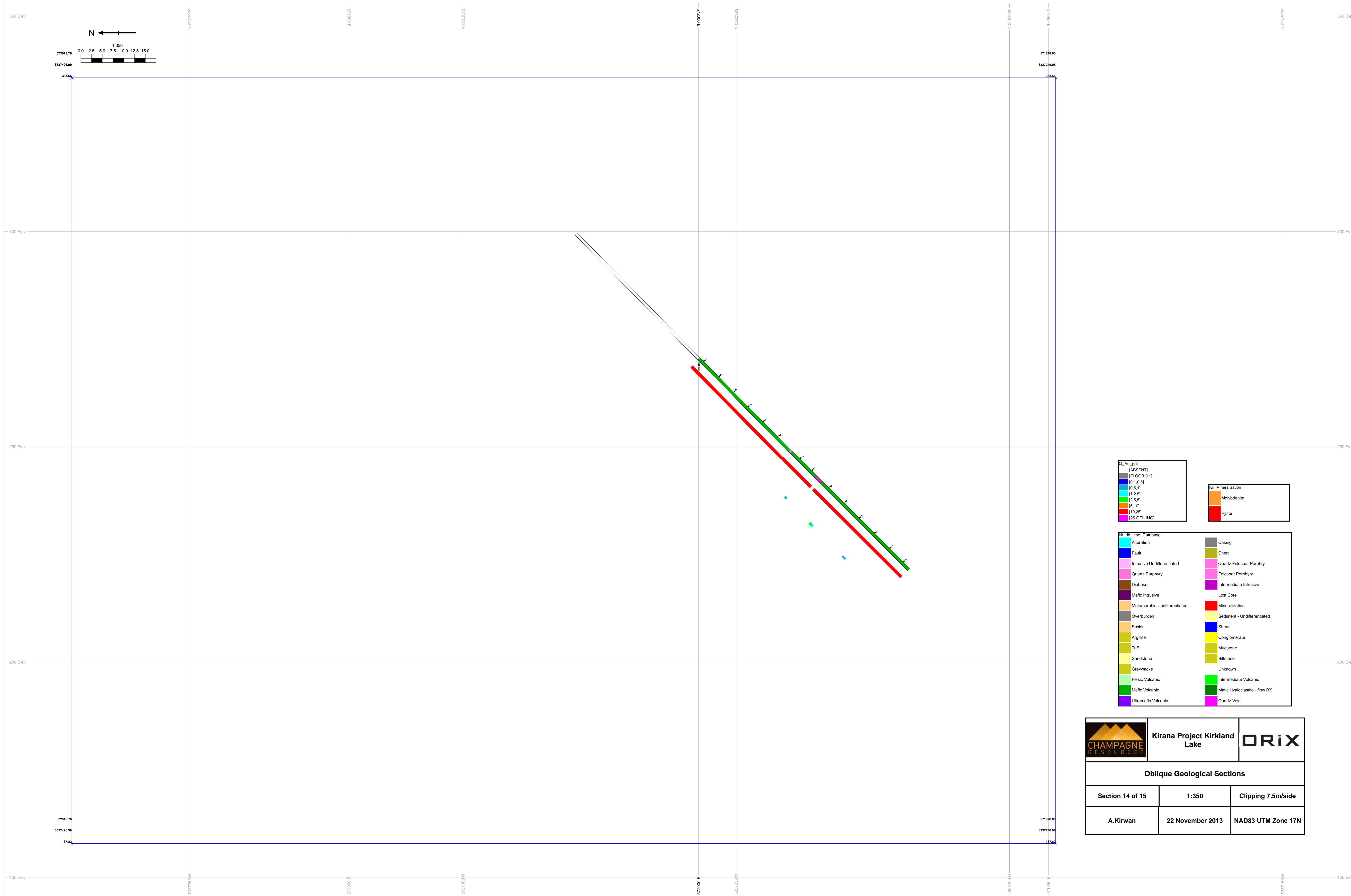


<b>Q_Au_gpt</b> (ABSENT) [0.1,0.5] [0.5,1] [1,2.5] [2.5,5] [5,10] [10,25] [25,CEILING]		<b>Kir_Mineralization</b> Molybdenite Pyrite	
<b>Kir_itho Database</b> Alteration Fault Intrusive Undifferentiated Quartz Porphyry Diabase Mafic Intrusive Metamorphic Undifferentiated Overburden Schist Argillite Tuff Sandstone Greywacke Felsic Volcanic Mafic Volcanic Ultramafic Volcanic		Casing Chert Quartz Feldspar Porphyry Feldspar Porphyry Intermediate Intrusive Lost Core Mineralization Sediment - Undifferentiated Conglomerate Mudstone Siltstone Unknown Intermediate Volcanic Mafic Hyaloclastite - flow BX Quartz Vein	

	<b>Kirana Project Kirkland Lake</b>	
<b>Oblique Geological Sections</b>		
<b>Section 12 of 15</b>	<b>1:350</b>	<b>Clipping 7.5m/side</b>
<b>A.Kirwan</b>	<b>22 November 2013</b>	<b>NAD83 UTM Zone 17N</b>



	<b>Kirana Project Kirkland Lake</b>	
<b>Oblique Geological Sections</b>		
<b>Section 13 of 15</b>	<b>1:350</b>	<b>Clipping 7.5m/side</b>
<b>A.Kirwan</b>	<b>22 November 2013</b>	<b>NAD83 UTM Zone 17N</b>

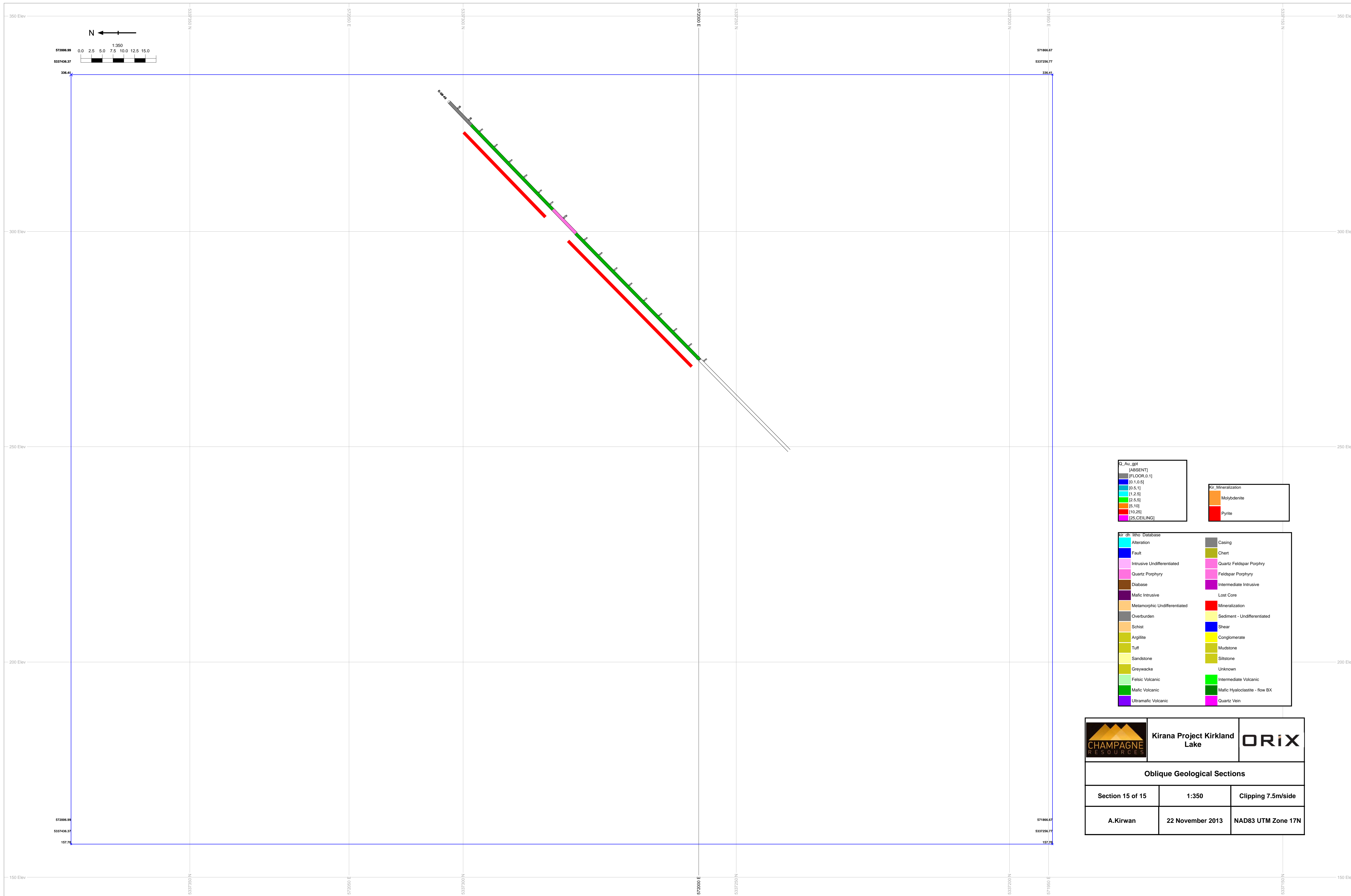


Q_Au_gpt (ABSENT)	Kir_Mineralization
[FLOOR,0-1]	Molybdenite
[0.1,0.5]	Pyrite
[0.5,1]	
[1,2.5]	
[2.5,5]	
[5,10]	
[10,25]	
[25,CEILING]	



Kir_itho Database	Casing
Alteration	Chert
Fault	Quartz Feldspar Porphyry
Intrusive Undifferentiated	Feldspar Porphyry
Quartz Porphyry	Intermediate Intrusive
Diabase	Lost Core
Mafic Intrusive	Mineralization
Metamorphic Undifferentiated	Sediment - Undifferentiated
Overburden	Shear
Schist	Conglomerate
Argillite	Mudstone
Tuff	Siltstone
Sandstone	Unknown
Greywacke	Intermediate Volcanic
Felsic Volcanic	Mafic Hyaloclastite - flow BX
Mafic Volcanic	Quartz Vein
Ultramafic Volcanic	

	<b>Kirana Project Kirkland Lake</b>	
<b>Oblique Geological Sections</b>		
<b>Section 14 of 15</b>	<b>1:350</b>	<b>Clipping 7.5m/side</b>
<b>A.Kirwan</b>	<b>22 November 2013</b>	<b>NAD83 UTM Zone 17N</b>



Q_Au_gpt		Kir_Mineralization	
[ABSENT]		Molybdenite	
[FLOOR,0-1]		Pyrite	
[0.1,0.5]			
[0.5,1]			
[1,2.5]			
[2.5,5]			
[5,10]			
[10,25]			
[25,CEILING]			

Kir litho Database		Casing	
Alteration		Casing	
Fault		Chert	
Intrusive Undifferentiated		Quartz Feldspar Porphyry	
Quartz Porphyry		Feldspar Porphyry	
Diabase		Intermediate Intrusive	
Mafic Intrusive		Lost Core	
Metamorphic Undifferentiated		Mineralization	
Overburden		Sediment - Undifferentiated	
Schist		Shear	
Argillite		Conglomerate	
Tuff		Mudstone	
Sandstone		Siltstone	
Greywacke		Unknown	
Felsic Volcanic		Intermediate Volcanic	
Mafic Volcanic		Mafic Hyaloclastite - flow BX	
Ultramafic Volcanic		Quartz Vein	

	<b>Kirana Project Kirkland Lake</b>	
<b>Oblique Geological Sections</b>		
<b>Section 15 of 15</b>	<b>1:350</b>	<b>Clipping 7.5m/side</b>
<b>A.Kirwan</b>	<b>22 November 2013</b>	<b>NAD83 UTM Zone 17N</b>



Kirana Break



# N-S Sections Lithology, Veins, Textures, Assays, and Structures

North South Projection Section  
576600.00 E

SR, AK, DD

10 Feb 2015

Section 1 of 32

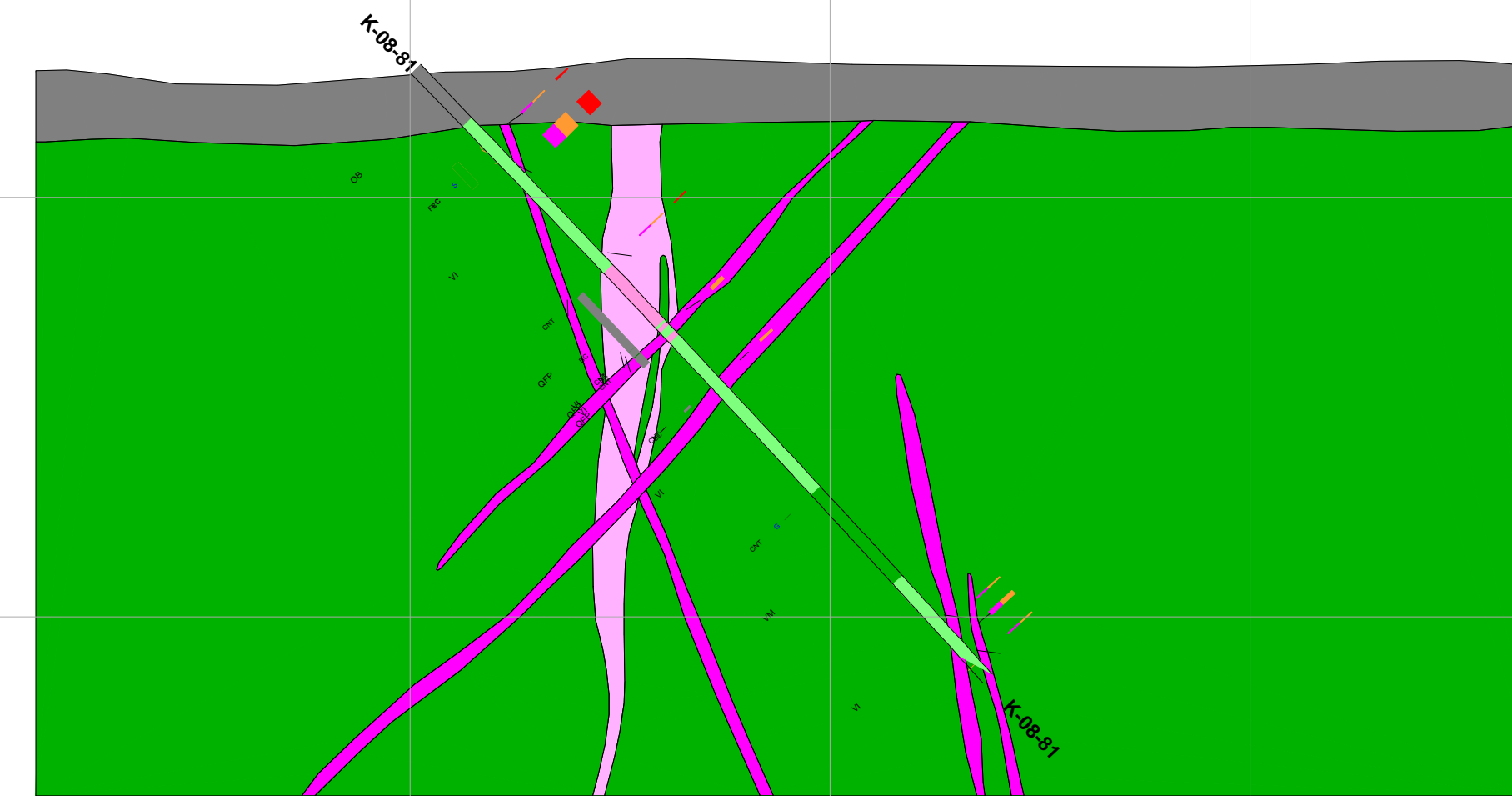
Scale 1:1500

Clipping: 7.5m/side

kir_db_litho_database
Alteration
Chert
Intrusive Undifferentiated
Feldspar Porphyry
Quartz Feldspar Porphyry
Quartz Porphyry
Diabase
Lost Core
Metamorphic Undifferentiated
Mafic Volcanic
Overburden
Conglomerate
Mudstone
Sandstone
Greywacke
Felsic Volcanic
Intermediate Volcanic
Ultramafic Volcanic
Mafic Hyaloclastite - flow BX
Quartz Vein

kir_db_struct
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[BED]
[CNT]
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[FLT]
[FOL]
[FRC]
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kir_db_veins
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Kirana Break



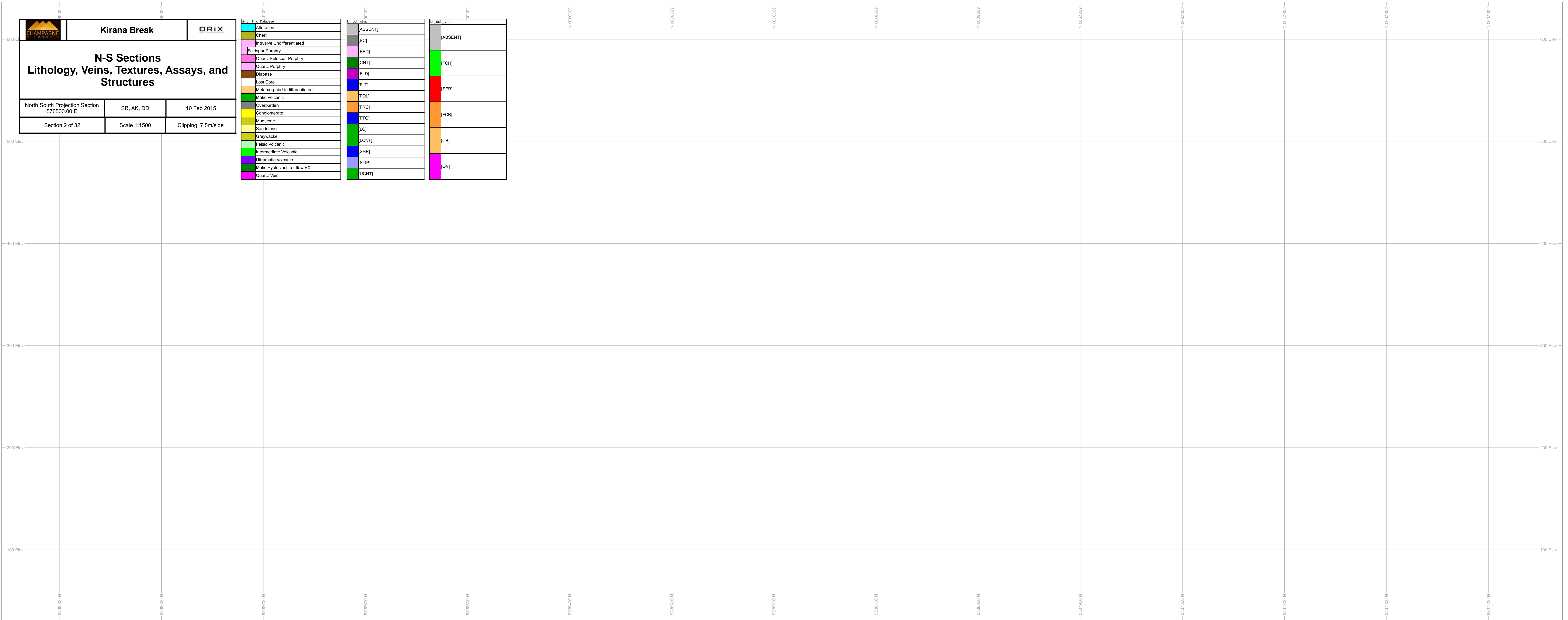
# N-S Sections Lithology, Veins, Textures, Assays, and Structures

North South Projection Section 576500.00 E	SR, AK, DD	10 Feb 2015
Section 2 of 32	Scale 1:1500	Clipping: 7.5m/side

kir_dh_litho_database
Alteration
Chert
Intrusive Undifferentiated
Feldspar Porphyry
Quartz Feldspar Porphyry
Quartz Porphyry
Diabase
Lost Core
Metamorphic Undifferentiated
Mafic Volcanic
Overburden
Conglomerate
Mudstone
Sandstone
Greywacke
Felsic Volcanic
Intermediate Volcanic
Ultramafic Volcanic
Mafic Hyaloclastite - flow BX
Quartz Vein

kir_dth_struct
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kir_dth_veins
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Kirana Break



# N-S Sections Lithology, Veins, Textures, Assays, and Structures

North South Projection Section  
576400.00 E

SR, AK, DD

10 Feb 2015

Section 3 of 32

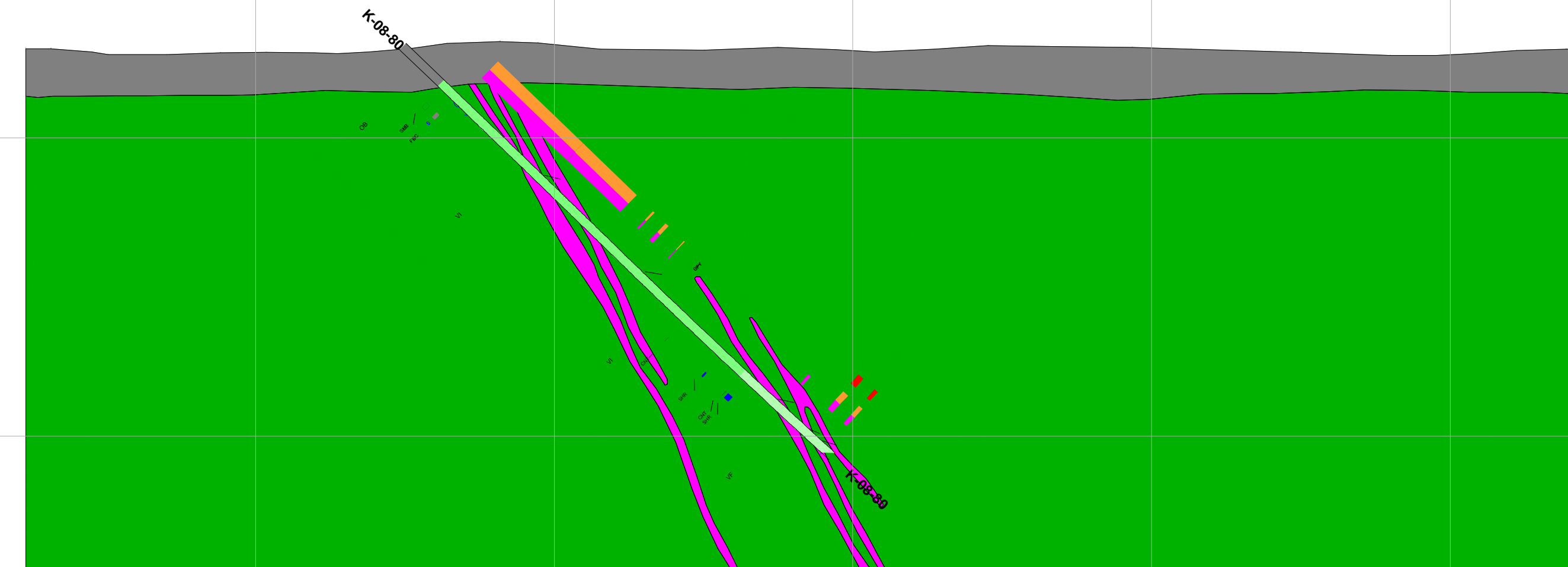
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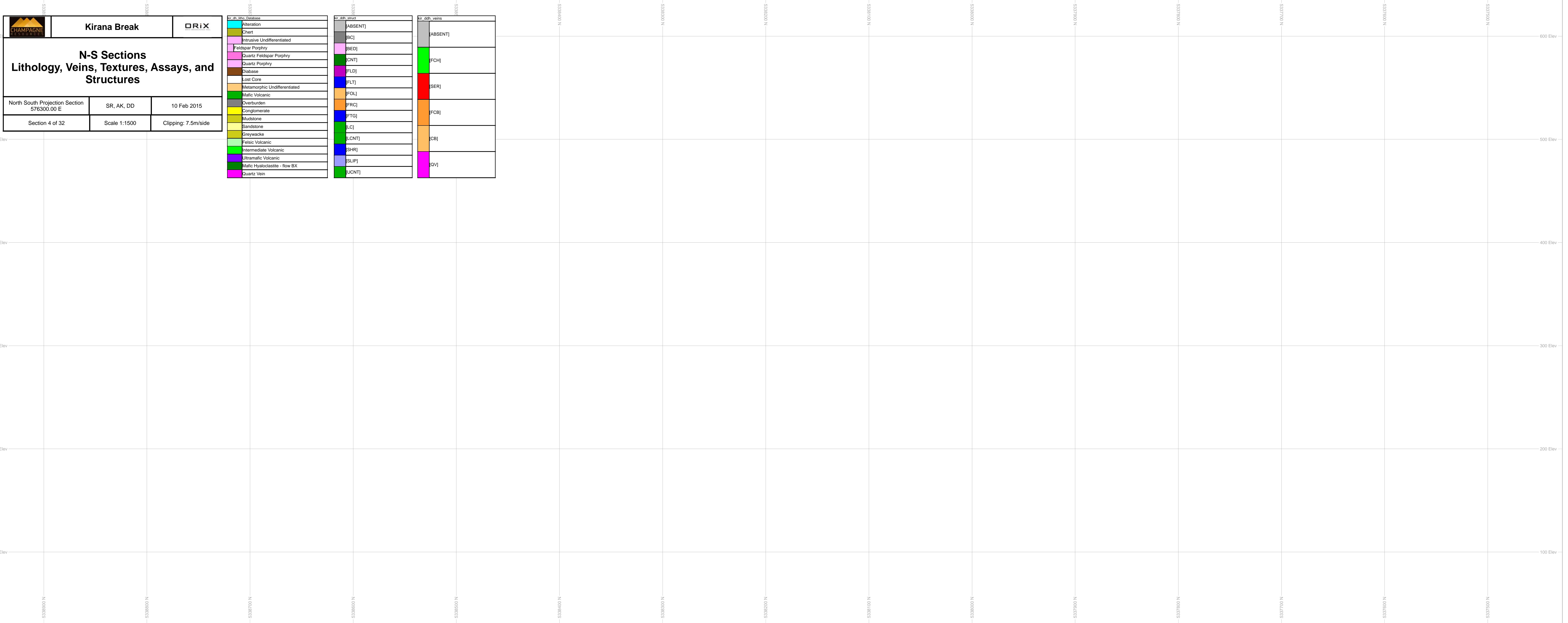
Clipping: 7.5m/side



kir_dh_database
Alteration
Chert
Intrusive Undifferentiated
Feldspar Porphyry
Quartz Feldspar Porphyry
Quartz Porphyry
Diabase
Lost Core
Metamorphic Undifferentiated
Mafic Volcanic
Overburden
Conglomerate
Mudstone
Sandstone
Greywacke
Felsic Volcanic
Intermediate Volcanic
Ultramafic Volcanic
Mafic Hyaloclastite - flow BX
Quartz Vein

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		<b>Kirana Break</b>			
<h3>N-S Sections Lithology, Veins, Textures, Assays, and Structures</h3>					
North South Projection Section 576300.00 E		SR, AK, DD		10 Feb 2015	
Section 4 of 32		Scale 1:1500		Clipping: 7.5m/side	

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Intrusive Undifferentiated
Feldspar Porphyry
Quartz Feldspar Porphyry
Quartz Porphyry
Diabase
Lost Core
Metamorphic Undifferentiated
Mafic Volcanic
Overburden
Conglomerate
Mudstone
Sandstone
Greywacke
Felsic Volcanic
Intermediate Volcanic
Ultramafic Volcanic
Mafic Hyaloclastite - flow BX
Quartz Vein

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Kirana Break



# N-S Sections Lithology, Veins, Textures, Assays, and Structures

North South Projection Section  
576200.00 E

SR, AK, DD

10 Feb 2015

Section 5 of 32

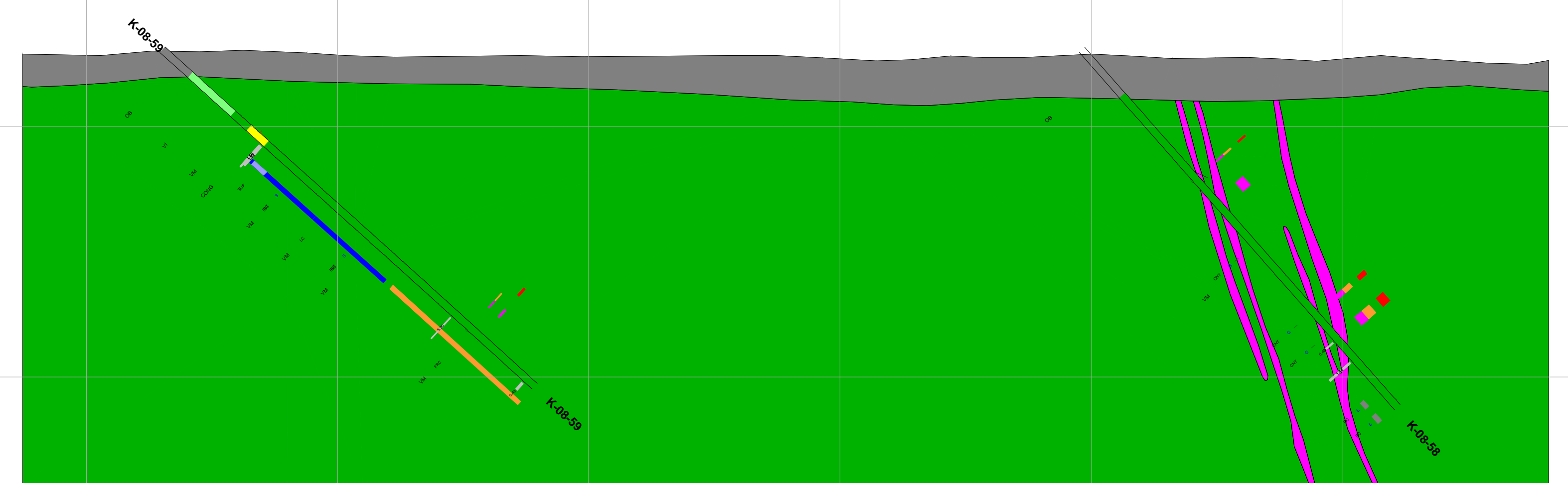
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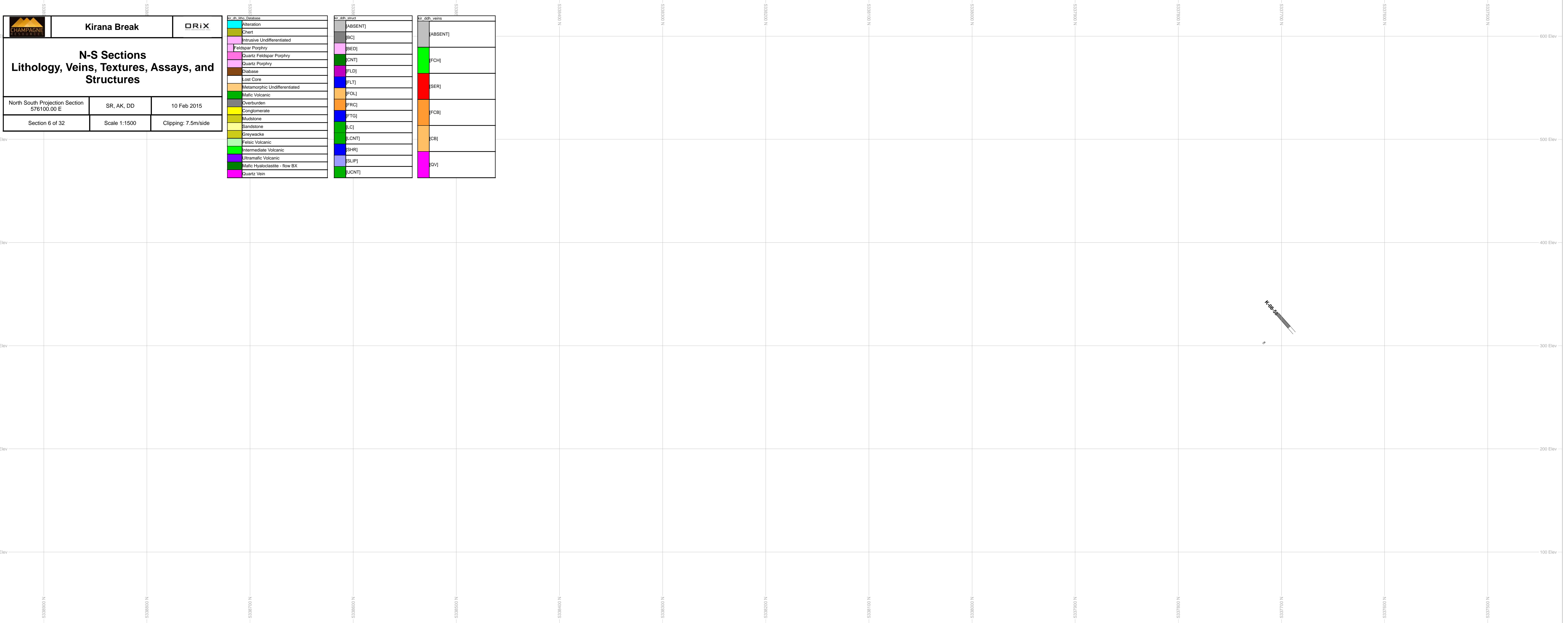
Clipping: 7.5m/side

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[Brown]	Diabase
[Light Orange]	Lost Core
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[Green]	Mafic Volcanic
[Grey]	Overburden
[Yellow]	Conglomerate
[Light Green]	Mudstone
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[Light Green]	Greywacke
[Light Green]	Felsic Volcanic
[Light Green]	Intermediate Volcanic
[Light Green]	Ultramafic Volcanic
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[Light Green]	Quartz Vein

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[Green]	[FCH]
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**CHAMPAGNE**

**Kirana Break**

**ORIX**

**N-S Sections  
Lithology, Veins, Textures, Assays, and  
Structures**

North South Projection Section 576100.00 E	SR, AK, DD	10 Feb 2015
Section 6 of 32	Scale 1:1500	Clipping: 7.5m/side

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Intrusive Undifferentiated	[BED]	
Feldspar Porphyry	[CNT]	[FCH]
Quartz Feldspar Porphyry	[FLD]	[SER]
Quartz Porphyry	[FLT]	
Diabase	[FOL]	[FCB]
Lost Core	[FRC]	
Metamorphic Undifferentiated	[FTG]	[CB]
Mafic Volcanic	[LC]	[QV]
Overburden	[LCNT]	
Conglomerate	[SHR]	
Mudstone	[SLIP]	
Sandstone	[UCNT]	
Greywacke		
Felsic Volcanic		
Intermediate Volcanic		
Ultramafic Volcanic		
Mafic Hyaloclastite - flow BX		
Quartz Vein		

K-06-26



Kirana Break



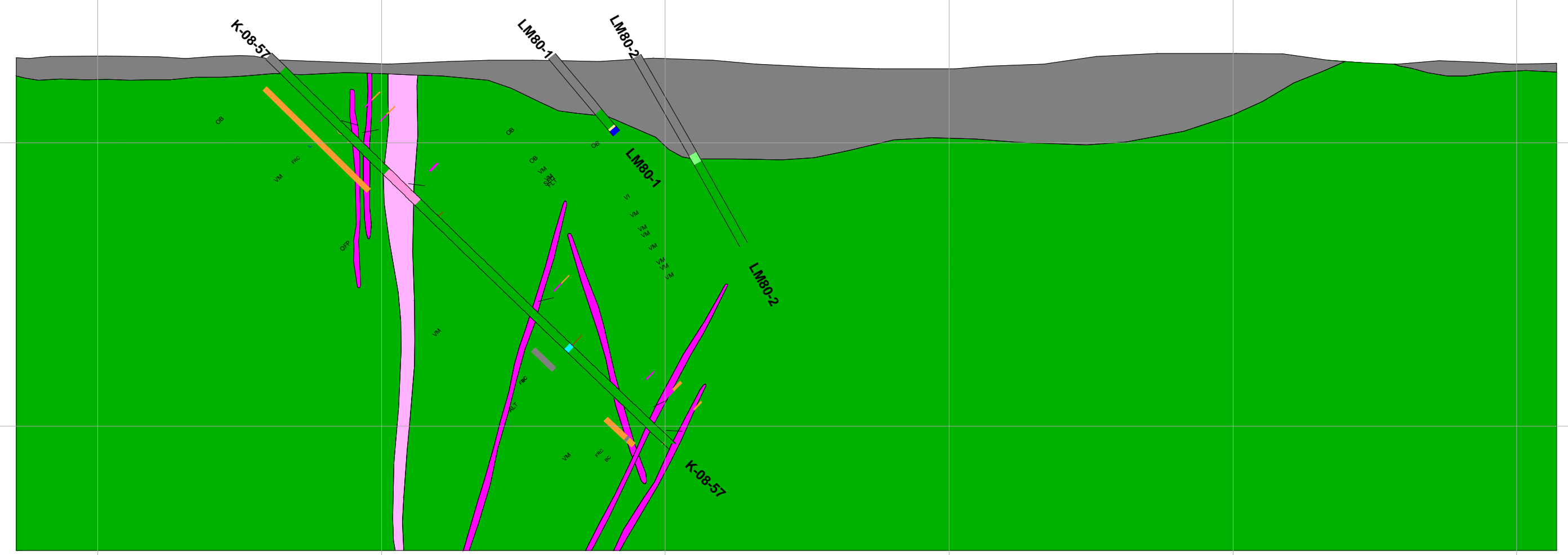
# N-S Sections Lithology, Veins, Textures, Assays, and Structures

North South Projection Section 576000.00 E	SR, AK, DD	10 Feb 2015
Section 7 of 32	Scale 1:1500	Clipping: 7.5m/side

kir_db_litho_database
Alteration
Chert
Intrusive Undifferentiated
Feldspar Porphyry
Quartz Feldspar Porphyry
Quartz Porphyry
Diabase
Lost Core
Metamorphic Undifferentiated
Mafic Volcanic
Overburden
Conglomerate
Mudstone
Sandstone
Greywacke
Felsic Volcanic
Intermediate Volcanic
Ultramafic Volcanic
Mafic Hyaloclastite - flow BX
Quartz Vein

kir_dth_struct
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[BED]
[CNT]
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[FLT]
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[FRC]
[FTG]
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[SHR]
[SLIP]
[UCNT]

kir_dth_veins
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[FCH]
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[QV]



**Kirana Break**

**ORIX**

### N-S Sections Lithology, Veins, Textures, Assays, and Structures

North South Projection Section  
575900.00 E

SR, AK, DD

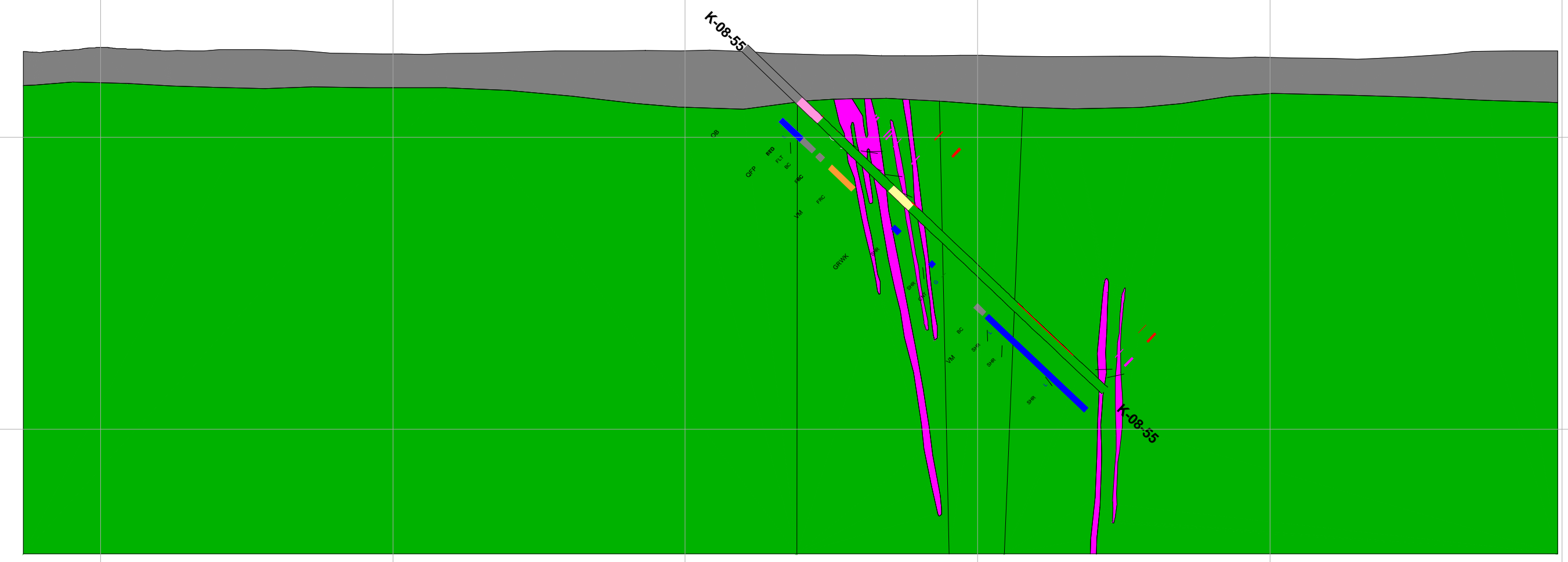
10 Feb 2015

Section 8 of 32

Scale 1:1500

Clipping: 7.5m/side

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Alteration	[ABSENT]	[ABSENT]
Chert	[BC]	[FCH]
Intrusive Undifferentiated	[BED]	[SER]
Feldspar Porphyry	[CNT]	[FCB]
Quartz Feldspar Porphyry	[FLD]	[CB]
Quartz Porphyry	[FLT]	[QV]
Diabase	[FOL]	
Lost Core	[FRC]	
Metamorphic Undifferentiated	[FTG]	
Mafic Volcanic	[LC]	
Overburden	[LCNT]	
Conglomerate	[SHR]	
Mudstone	[SLIP]	
Sandstone	[UCNT]	
Greywacke		
Felsic Volcanic		
Felsic Volcanic		
Intermediate Volcanic		
Ultramafic Volcanic		
Mafic Hyaloclastite - flow BX		
Quartz Vein		





Kirana Break



# N-S Sections Lithology, Veins, Textures, Assays, and Structures

North South Projection Section 575800.00 E	SR, AK, DD	10 Feb 2015
Section 9 of 32	Scale 1:1500	Clipping: 7.5m/side

kir_dh_database
Alteration
Chert
Intrusive Undifferentiated
Feldspar Porphyry
Quartz Feldspar Porphyry
Quartz Porphyry
Diabase
Lost Core
Metamorphic Undifferentiated
Mafic Volcanic
Overburden
Conglomerate
Mudstone
Sandstone
Greywacke
Felsic Volcanic
Intermediate Volcanic
Ultramafic Volcanic
Mafic Hyaloclastite - flow BX
Quartz Vein

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kir_dh_veins
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Kirana Break



# N-S Sections Lithology, Veins, Textures, Assays, and Structures

North South Projection Section  
575700.00 E

SR, AK, DD

10 Feb 2015

Section 10 of 32

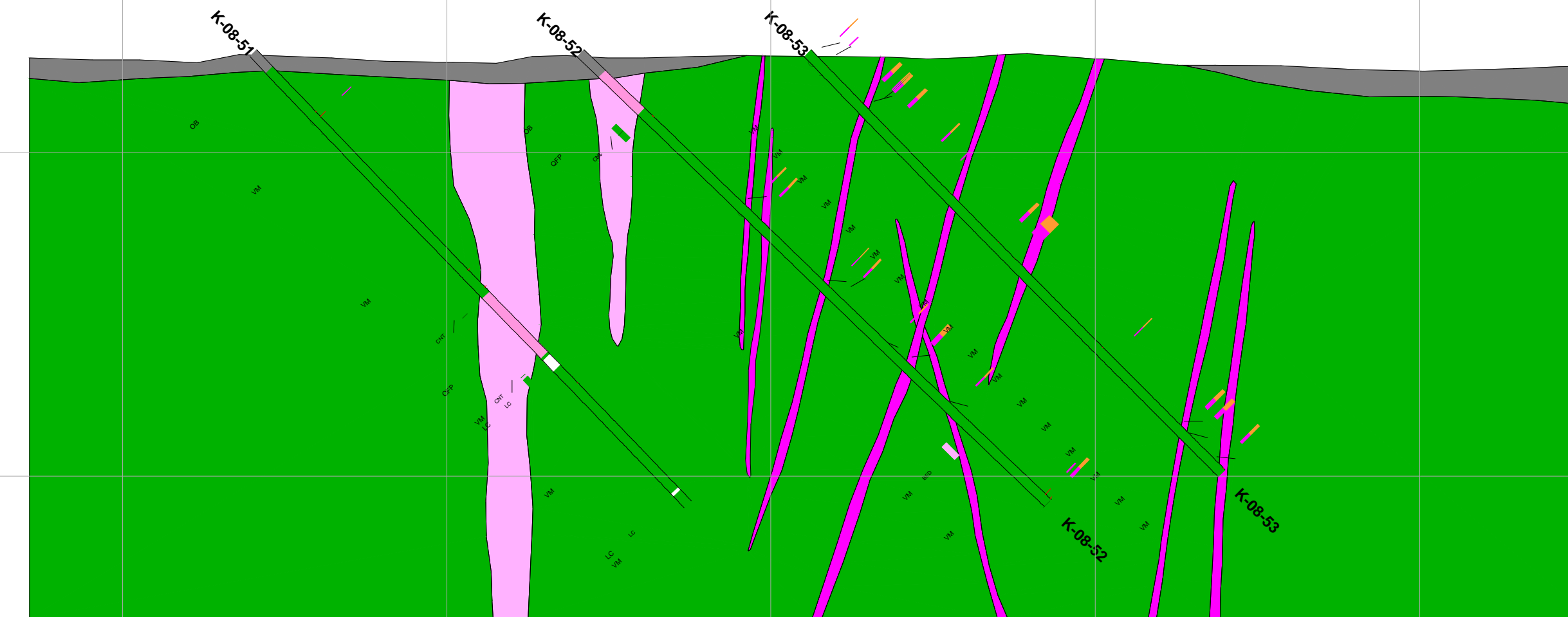
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Clipping: 7.5m/side

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Alteration
Chert
Intrusive Undifferentiated
Quartz Feldspar Porphyry
Quartz Porphyry
Diabase
Lost Core
Metamorphic Undifferentiated
Mafic Volcanic
Overburden
Conglomerate
Mudstone
Sandstone
Greywacke
Felsic Volcanic
Intermediate Volcanic
Ultramafic Volcanic
Mafic Hyaloclastite - flow BX
Quartz Vein

kir_dth_struct
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kir_dth_veins
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[QV]



**Kirana Break**

**ORIX**

**N-S Sections  
Lithology, Veins, Textures, Assays, and  
Structures**

North South Projection Section  
575600.00 E

SR, AK, DD

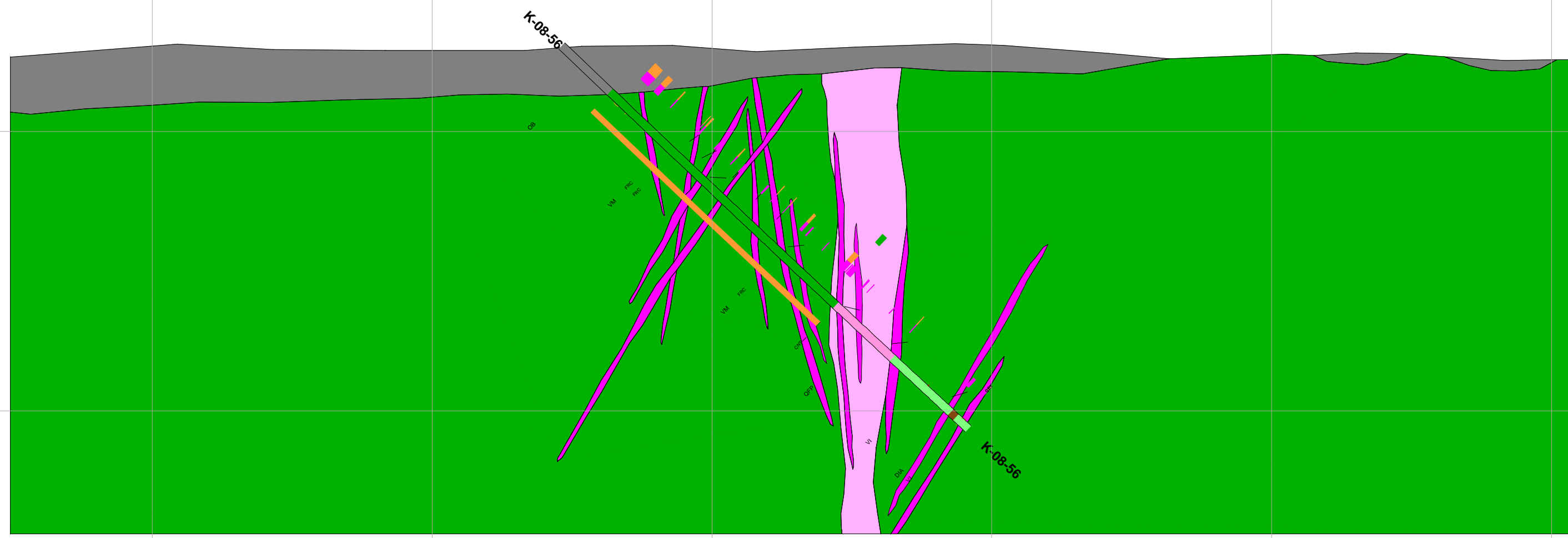
10 Feb 2015

Section 11 of 32

Scale 1:1500

Clipping: 7.5m/side

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Chert	[BC]	[FCH]
Intrusive Undifferentiated	[BED]	[SER]
Feldspar Porphyry	[CNT]	[FCB]
Quartz Feldspar Porphyry	[FLD]	[CB]
Quartz Porphyry	[FLT]	[QV]
Diabase	[FOL]	
Lost Core	[FRC]	
Metamorphic Undifferentiated	[FTG]	
Mafic Volcanic	[LC]	
Overburden	[LCNT]	
Conglomerate	[SHR]	
Mudstone	[SLIP]	
Sandstone	[UCNT]	
Greywacke		
Felsic Volcanic		
Felsic Volcanic		
Intermediate Volcanic		
Ultramafic Volcanic		
Mafic Hyaloclastite - flow BX		
Quartz Vein		





Kirana Break



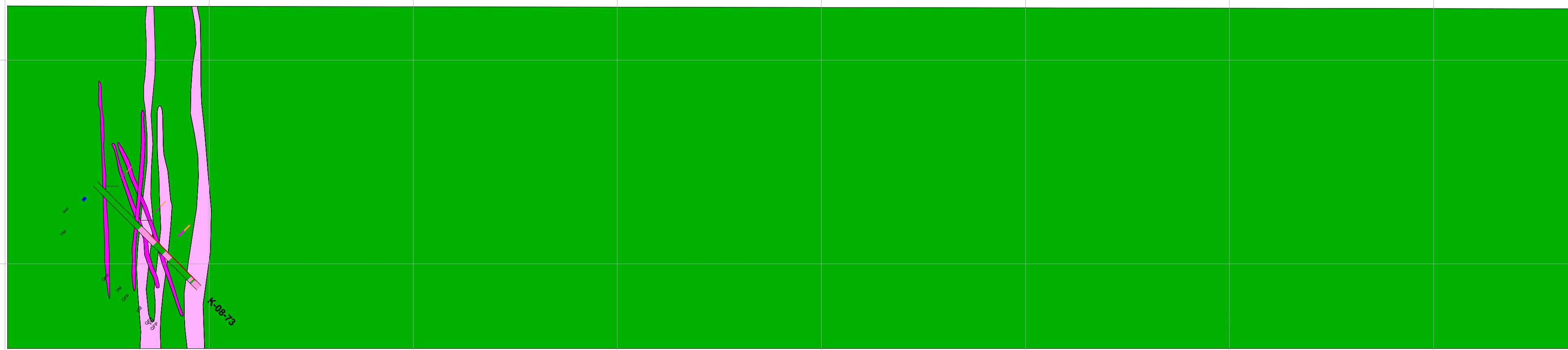
# N-S Sections Lithology, Veins, Textures, Assays, and Structures

North South Projection Section 575500.00 E	SR, AK, DD	10 Feb 2015
Section 12 of 32	Scale 1:1500	Clipping: 7.5m/side

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Alteration
Chert
Intrusive Undifferentiated
Feldspar Porphyry
Quartz Feldspar Porphyry
Quartz Porphyry
Diabase
Lost Core
Metamorphic Undifferentiated
Mafic Volcanic
Overburden
Conglomerate
Mudstone
Sandstone
Greywacke
Felsic Volcanic
Intermediate Volcanic
Ultramafic Volcanic
Mafic Hyaloclastite - flow BX
Quartz Vein

kir_dth_struct
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Kirana Break



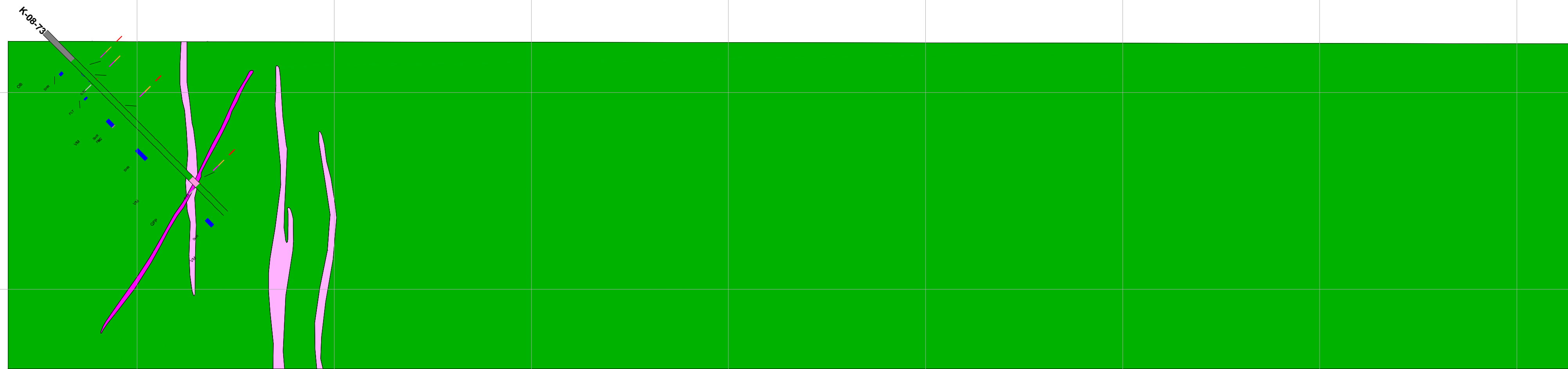
# N-S Sections Lithology, Veins, Textures, Assays, and Structures

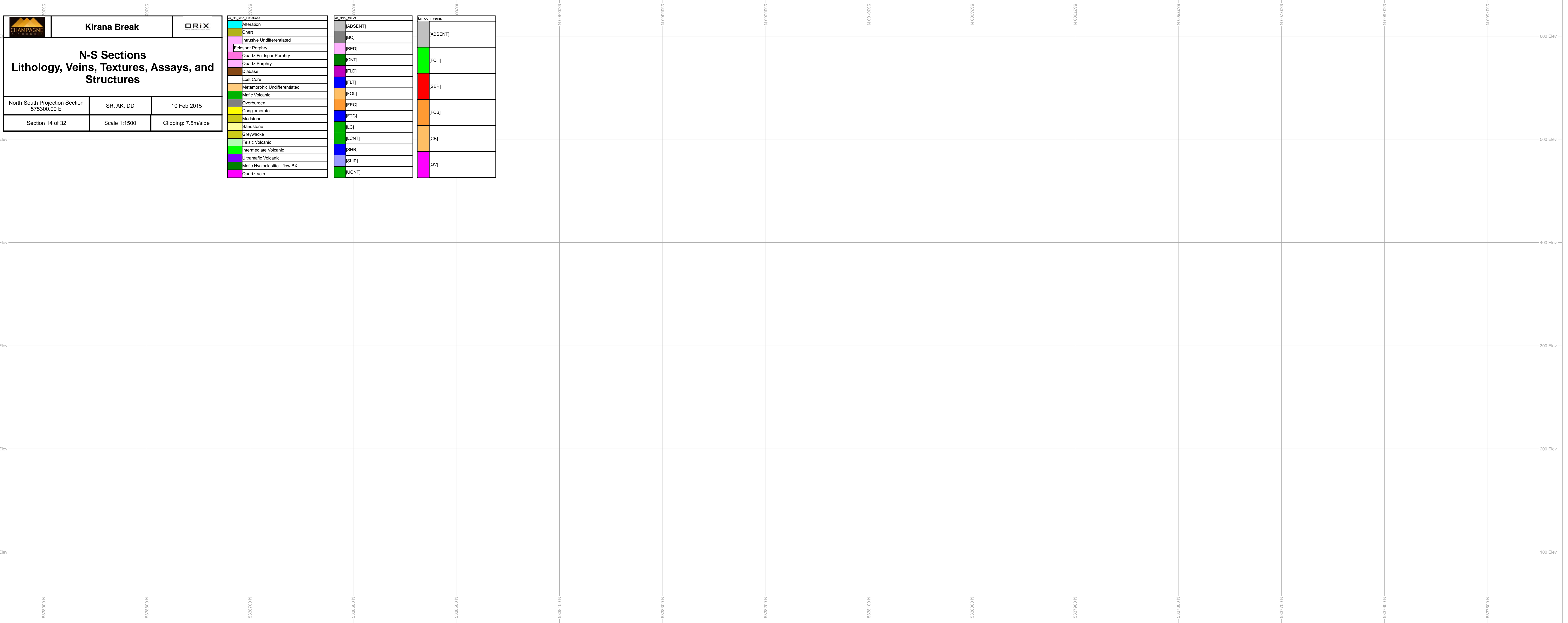
North South Projection Section 575400.00 E	SR, AK, DD	10 Feb 2015
Section 13 of 32	Scale 1:1500	Clipping: 7.5m/side



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Chert
Intrusive Undifferentiated
Feldspar Porphyry
Quartz Feldspar Porphyry
Quartz Porphyry
Diabase
Lost Core
Metamorphic Undifferentiated
Mafic Volcanic
Overburden
Conglomerate
Mudstone
Sandstone
Greywacke
Felsic Volcanic
Intermediate Volcanic
Ultramafic Volcanic
Mafic Hyaloclastite - flow BX
Quartz Vein

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		<b>Kirana Break</b>			
<h3>N-S Sections Lithology, Veins, Textures, Assays, and Structures</h3>					
North South Projection Section 575300.00 E		SR, AK, DD		10 Feb 2015	
Section 14 of 32		Scale 1:1500		Clipping: 7.5m/side	

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Feldspar Porphyry
Quartz Feldspar Porphyry
Quartz Porphyry
Diabase
Lost Core
Metamorphic Undifferentiated
Mafic Volcanic
Overburden
Conglomerate
Mudstone
Sandstone
Greywacke
Felsic Volcanic
Intermediate Volcanic
Ultramafic Volcanic
Mafic Hyaloclastite - flow BX
Quartz Vein

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**Kirana Break**

**ORIX**

### N-S Sections Lithology, Veins, Textures, Assays, and Structures

North South Projection Section  
575200.00 E

SR, AK, DD

10 Feb 2015

Section 15 of 32

Scale 1:1500

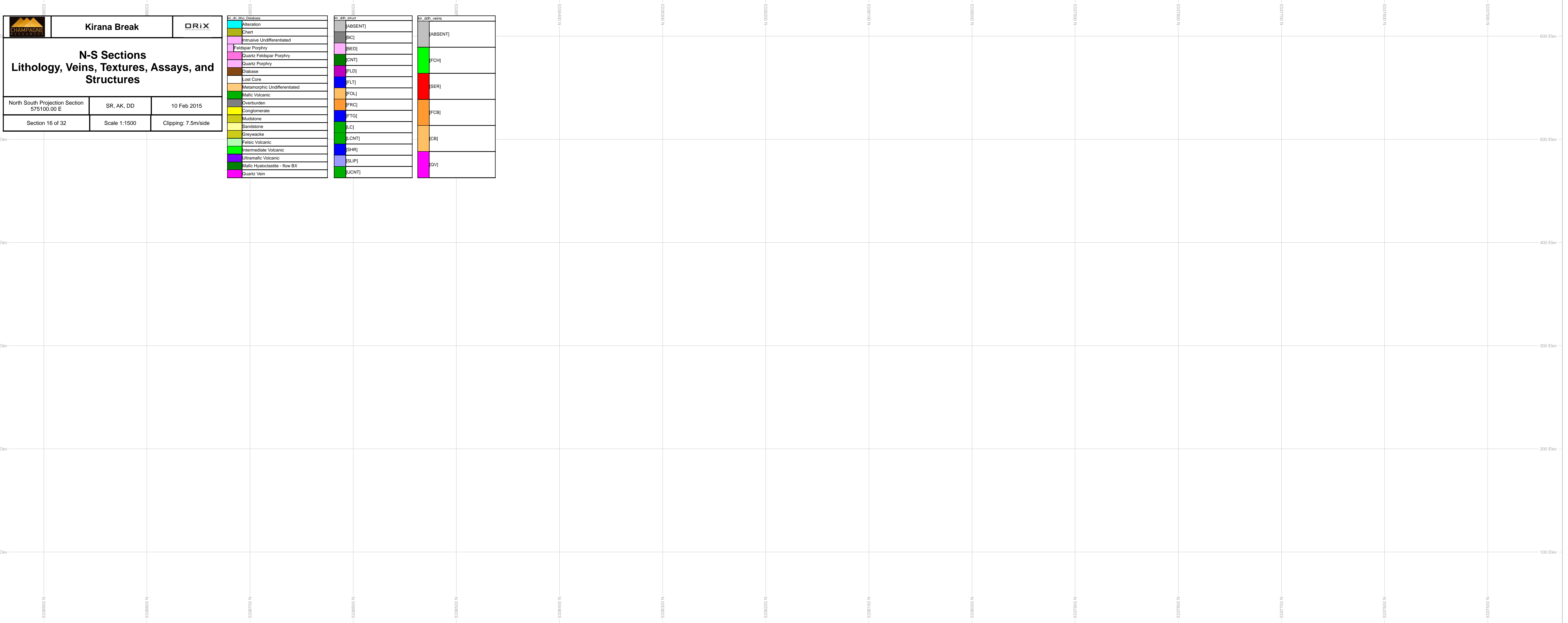
Clipping: 7.5m/side



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Alteration
Chert
Intrusive Undifferentiated
Feldspar Porphyry
Quartz Feldspar Porphyry
Quartz Porphyry
Diabase
Lost Core
Metamorphic Undifferentiated
Mafic Volcanic
Overburden
Conglomerate
Mudstone
Sandstone
Greywacke
Felsic Volcanic
Intermediate Volcanic
Ultramafic Volcanic
Mafic Hyaloclastite - flow BX
Quartz Vein

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		<b>Kirana Break</b>			
<h3>N-S Sections Lithology, Veins, Textures, Assays, and Structures</h3>					
North South Projection Section 575100.00 E		SR, AK, DD		10 Feb 2015	
Section 16 of 32		Scale 1:1500		Clipping: 7.5m/side	

kir_dh_litho_database
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Chert
Intrusive Undifferentiated
Feldspar Porphyry
Quartz Feldspar Porphyry
Quartz Porphyry
Diabase
Lost Core
Metamorphic Undifferentiated
Mafic Volcanic
Overburden
Conglomerate
Mudstone
Sandstone
Greywacke
Felsic Volcanic
Intermediate Volcanic
Ultramafic Volcanic
Mafic Hyaloclastite - flow BX
Quartz Vein

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Kirana Break



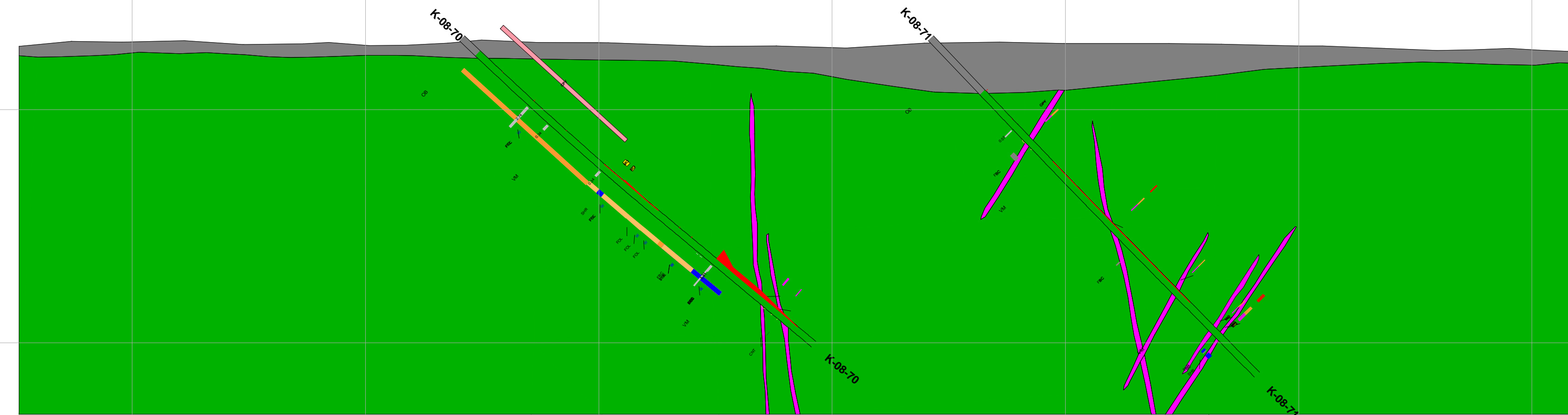
# N-S Sections Lithology, Veins, Textures, Assays, and Structures

North South Projection Section 575000.00 E	SR, AK, DD	10 Feb 2015
Section 17 of 32	Scale 1:1500	Clipping: 7.5m/side

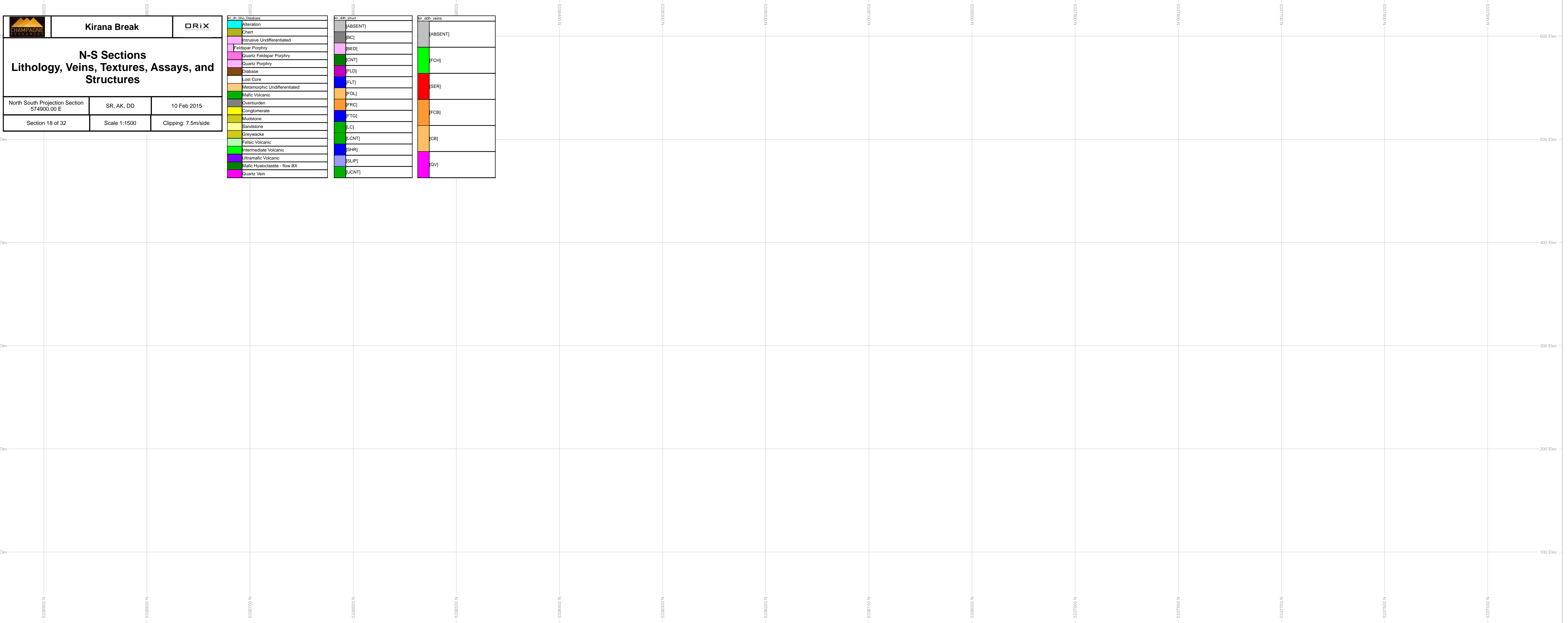
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Feldspar Porphyry
Quartz Feldspar Porphyry
Quartz Porphyry
Diabase
Lost Core
Metamorphic Undifferentiated
Mafic Volcanic
Overburden
Conglomerate
Mudstone
Sandstone
Greywacke
Felsic Volcanic
Intermediate Volcanic
Ultramafic Volcanic
Mafic Hyaloclastite - flow BX
Quartz Vein



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		<b>Kirana Break</b>			
<h3>N-S Sections Lithology, Veins, Textures, Assays, and Structures</h3>					
North South Projection Section 574900.00 E		SR, AK, DD		10 Feb 2015	
Section 18 of 32		Scale 1:1500		Clipping: 7.5m/side	

kir_dh_litho_database
Alteration
Chert
Intrusive Undifferentiated
Feldspar Porphyry
Quartz Feldspar Porphyry
Quartz Porphyry
Diabase
Lost Core
Metamorphic Undifferentiated
Mafic Volcanic
Overburden
Conglomerate
Mudstone
Sandstone
Greywacke
Felsic Volcanic
Intermediate Volcanic
Ultramafic Volcanic
Mafic Hyaloclastite - flow BX
Quartz Vein

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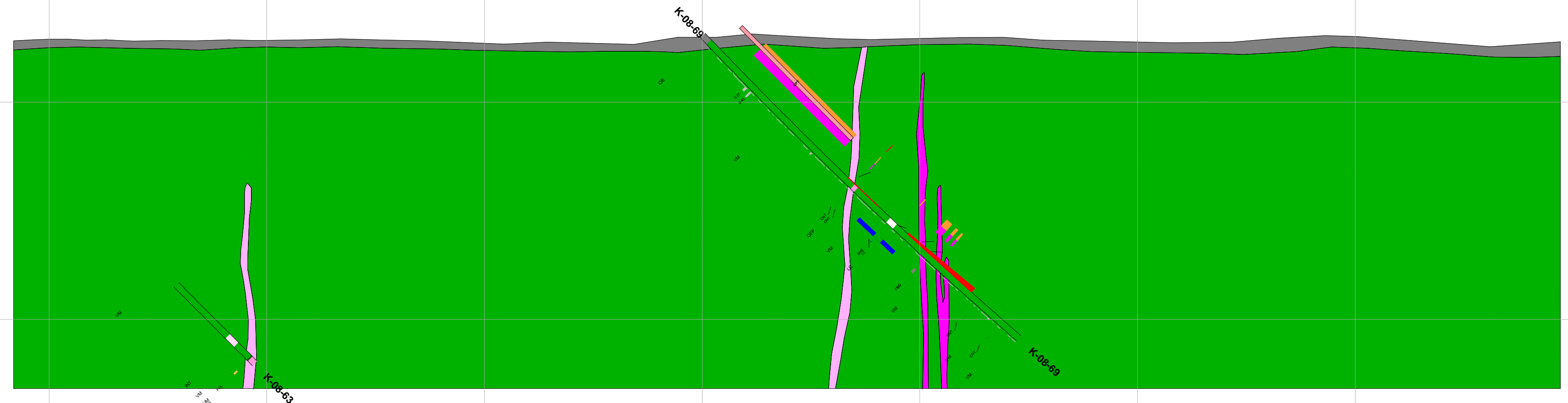
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**CHAMPAGNE** **Kirana Break** **ORIX**

### N-S Sections Lithology, Veins, Textures, Assays, and Structures

North South Projection Section 574800.00 E	SR, AK, DD	10 Feb 2015
Section 19 of 32	Scale 1:1500	Clipping: 7.5m/side

kir_db_ortho_database	kir_ddh_struct	kir_ddh_veins
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Quartz Feldspar Porphyry	[FLD]	[CB]
Quartz Porphyry	[FLT]	[QV]
Diabase	[FOL]	
Lost Core	[FRC]	
Metamorphic Undifferentiated	[FTG]	
Mafic Volcanic	[LC]	
Overburden	[LCNT]	
Conglomerate	[SHR]	
Mudstone	[SLIP]	
Sandstone	[UCNT]	
Greywacke		
Felsic Volcanic		
Intermediate Volcanic		
Ultramafic Volcanic		
Mafic Hyaloclastite - flow BX		
Quartz Vein		





Kirana Break



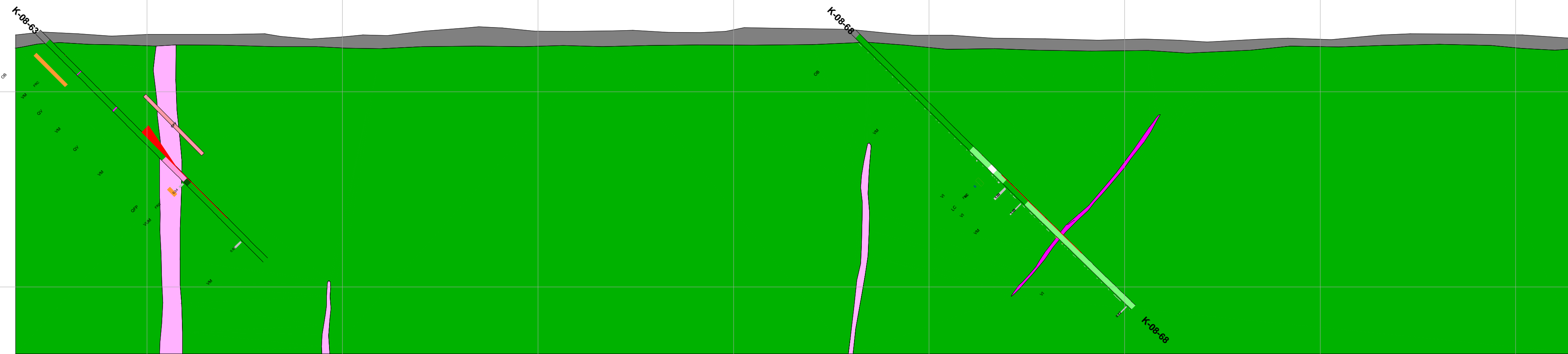
# N-S Sections Lithology, Veins, Textures, Assays, and Structures

North South Projection Section 574700.00 E	SR, AK, DD	10 Feb 2015
Section 20 of 32	Scale 1:1500	Clipping: 7.5m/side

kir_db_litho_database
Alteration
Chert
Intrusive Undifferentiated
Feldspar Porphyry
Quartz Feldspar Porphyry
Quartz Porphyry
Diabase
Lost Core
Metamorphic Undifferentiated
Mafic Volcanic
Overburden
Conglomerate
Mudstone
Sandstone
Greywacke
Felsic Volcanic
Intermediate Volcanic
Ultramafic Volcanic
Mafic Hyaloclastite - flow BX
Quartz Vein

kir_dth_struct
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[LC]
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[SHR]
[SLIP]
[UCNT]

kir_dth_veins
[ABSENT]
[FCH]
[SER]
[FCB]
[CB]
[QV]





Kirana Break



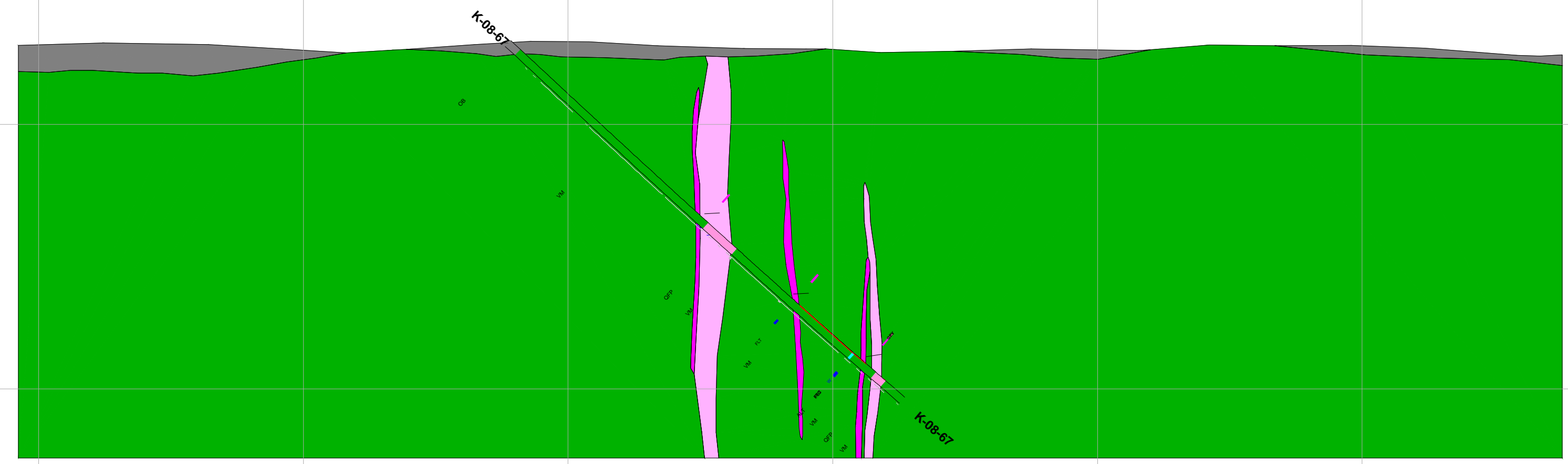
# N-S Sections Lithology, Veins, Textures, Assays, and Structures

North South Projection Section 574600.00 E	SR, AK, DD	10 Feb 2015
Section 21 of 32	Scale 1:1500	Clipping: 7.5m/side

kir_dh_database
Alteration
Chert
Intrusive Undifferentiated
Feldspar Porphyry
Quartz Feldspar Porphyry
Quartz Porphyry
Diabase
Lost Core
Metamorphic Undifferentiated
Mafic Volcanic
Overburden
Conglomerate
Mudstone
Sandstone
Greywacke
Felsic Volcanic
Intermediate Volcanic
Ultramafic Volcanic
Mafic Hyaloclastite - flow BX
Quartz Vein

kir_dth_struct
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Kirana Break



# N-S Sections Lithology, Veins, Textures, Assays, and Structures

North South Projection Section  
574500.00 E

SR, AK, DD

10 Feb 2015

Section 22 of 32

Scale 1:1500

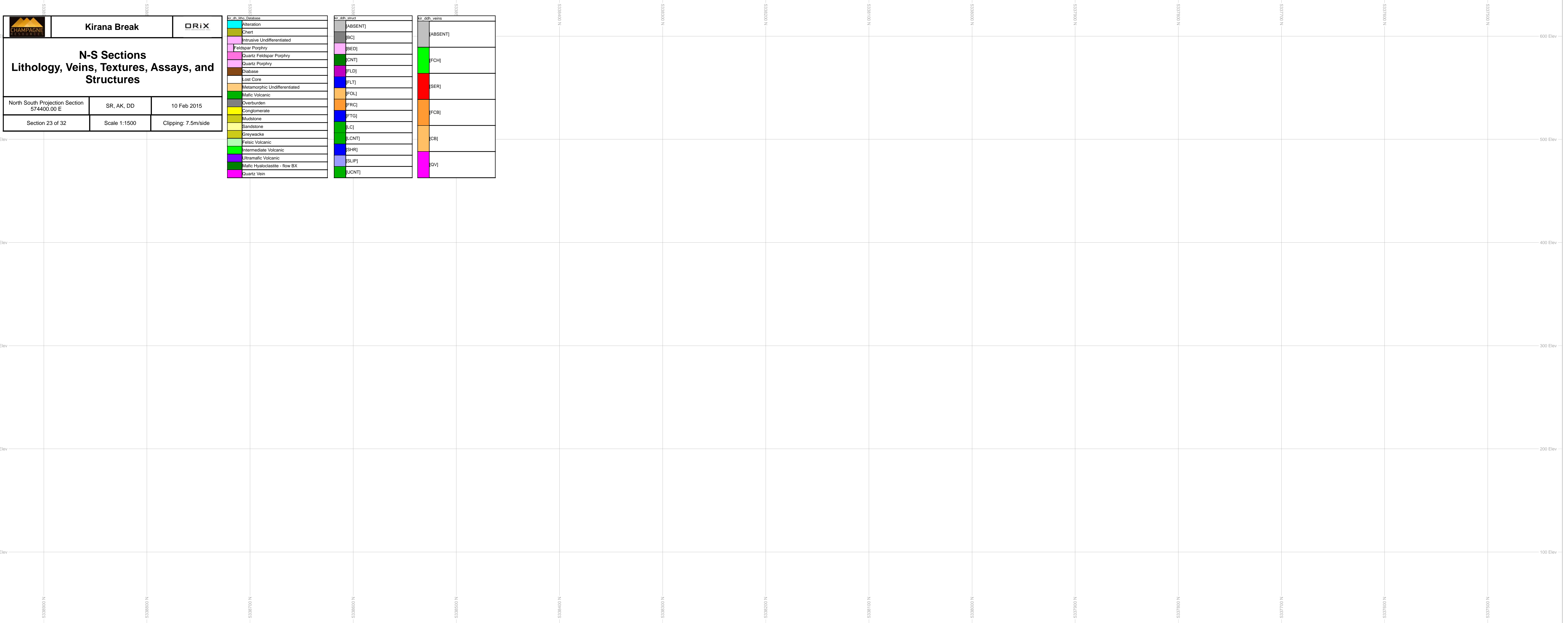
Clipping: 7.5m/side



kir_dh_litho_database
Alteration
Chert
Intrusive Undifferentiated
Quartz Feldspar Porphyry
Quartz Porphyry
Diabase
Lost Core
Metamorphic Undifferentiated
Mafic Volcanic
Overburden
Conglomerate
Mudstone
Sandstone
Greywacke
Felsic Volcanic
Intermediate Volcanic
Ultramafic Volcanic
Mafic Hyaloclastite - flow BX
Quartz Vein

kir_dth_struct
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[QV]





		<b>Kirana Break</b>			
<h3>N-S Sections Lithology, Veins, Textures, Assays, and Structures</h3>					
North South Projection Section 574400.00 E		SR, AK, DD		10 Feb 2015	
Section 23 of 32		Scale 1:1500		Clipping: 7.5m/side	

kir_dh_litho_database
Alteration
Chert
Intrusive Undifferentiated
Feldspar Porphyry
Quartz Feldspar Porphyry
Quartz Porphyry
Diabase
Lost Core
Metamorphic Undifferentiated
Mafic Volcanic
Overburden
Conglomerate
Mudstone
Sandstone
Greywacke
Felsic Volcanic
Intermediate Volcanic
Ultramafic Volcanic
Mafic Hyaloclastite - flow BX
Quartz Vein

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[LCNT]
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[SLIP]
[UCNT]

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[QV]



Kirana Break



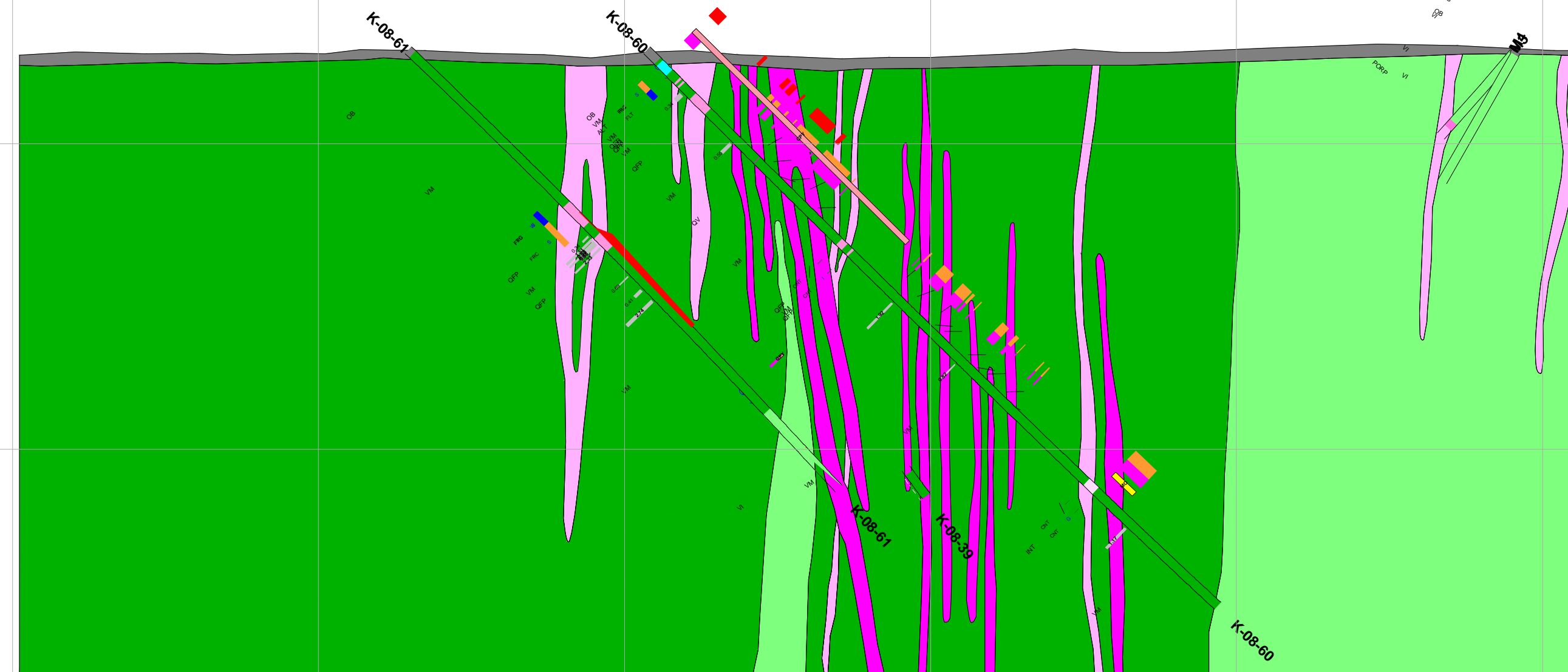
# N-S Sections Lithology, Veins, Textures, Assays, and Structures

North South Projection Section 574300.00 E	SR, AK, DD	10 Feb 2015
Section 24 of 32	Scale 1:1500	Clipping: 7.5m/side

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Alteration
Chert
Intrusive Undifferentiated
Quartz Feldspar Porphyry
Quartz Porphyry
Diabase
Lost Core
Metamorphic Undifferentiated
Mafic Volcanic
Overburden
Conglomerate
Mudstone
Sandstone
Greywacke
Felsic Volcanic
Intermediate Volcanic
Ultramafic Volcanic
Mafic Hyaloclastite - flow BX
Quartz Vein

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Kirana Break



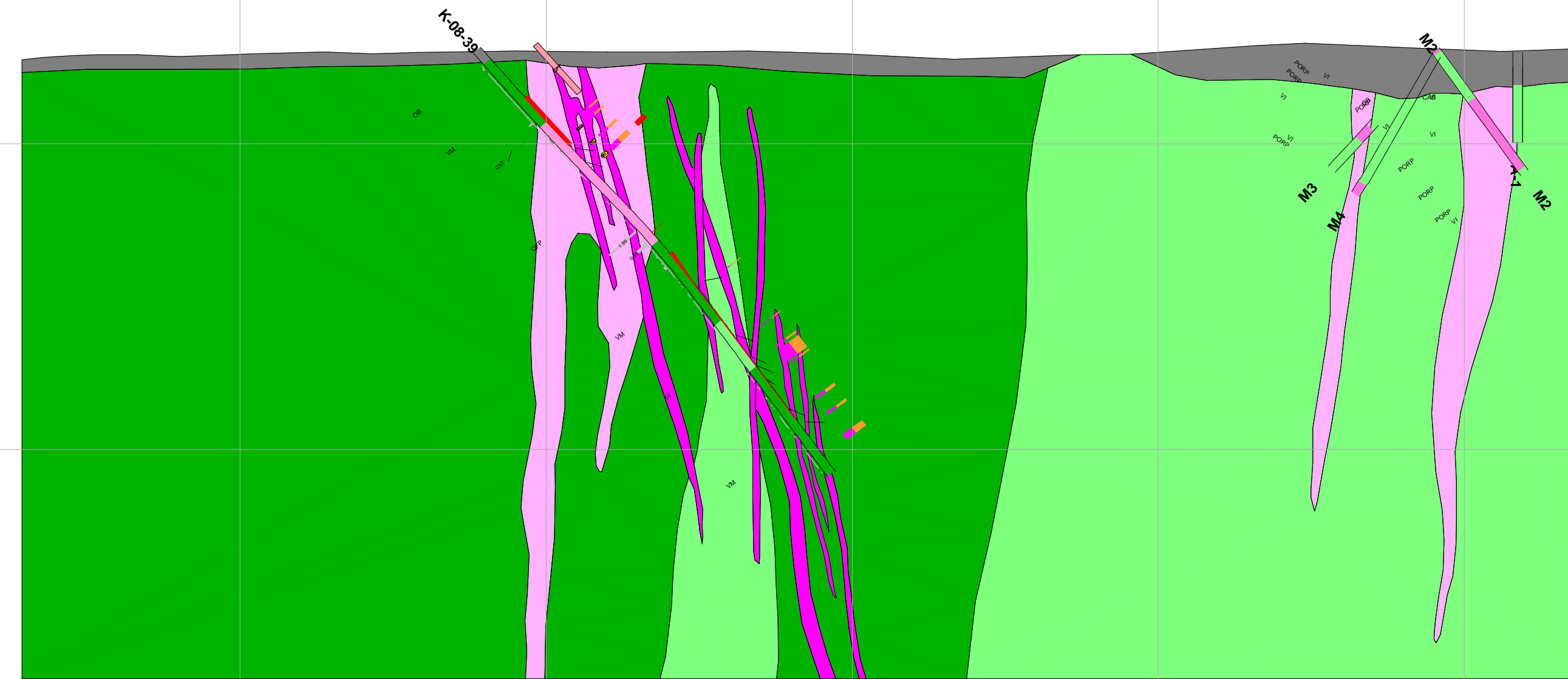
# N-S Sections Lithology, Veins, Textures, Assays, and Structures

North South Projection Section 574200.00 E	SR, AK, DD	10 Feb 2015
Section 25 of 32	Scale 1:1500	Clipping: 7.5m/side

kir_dh_database
Alteration
Chert
Intrusive Undifferentiated
Quartz Feldspar Porphyry
Quartz Porphyry
Diabase
Lost Core
Metamorphic Undifferentiated
Mafic Volcanic
Overburden
Conglomerate
Mudstone
Sandstone
Greywacke
Felsic Volcanic
Intermediate Volcanic
Ultramafic Volcanic
Mafic Hyaloclastite - flow BX
Quartz Vein

kir_dth_struct
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kir_dth_veins
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Kirana Break



# N-S Sections Lithology, Veins, Textures, Assays, and Structures

North South Projection Section  
574100.00 E

SR, AK, DD

10 Feb 2015

Section 26 of 32

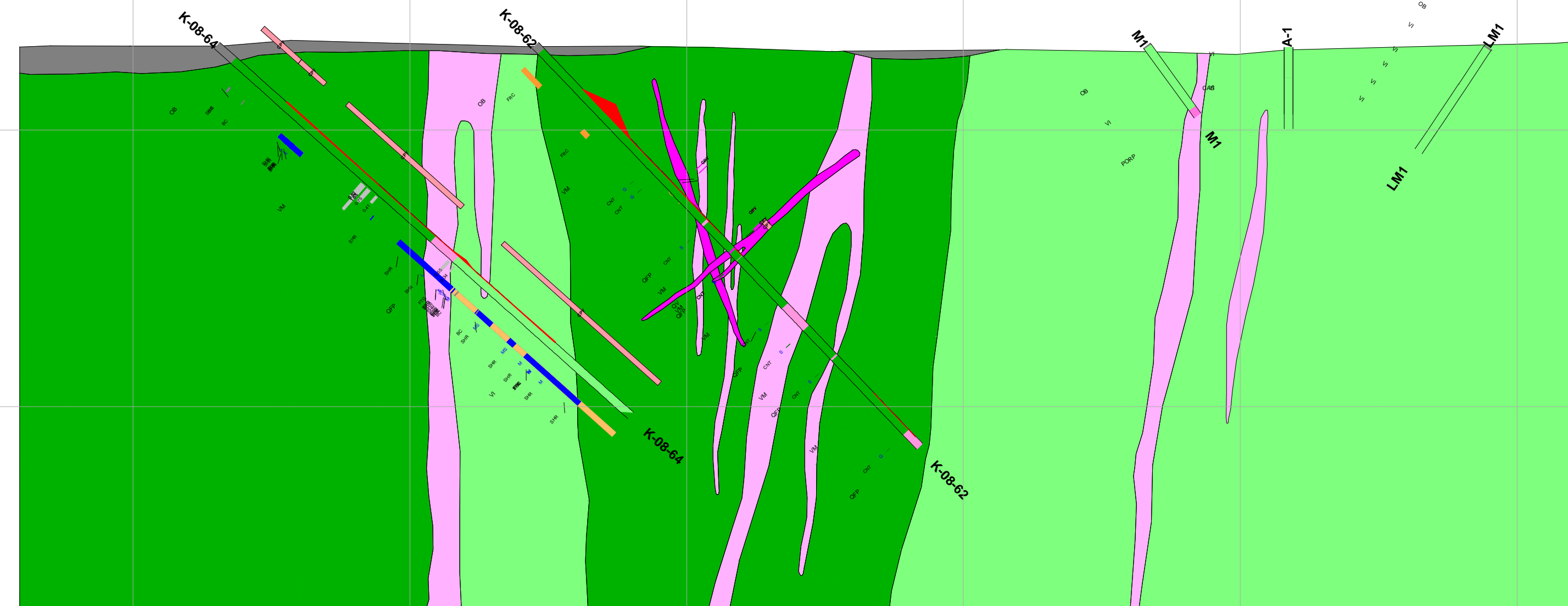
Scale 1:1500

Clipping: 7.5m/side

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[Yellow]	Chert
[Light Green]	Intrusive Undifferentiated
[Pink]	Quartz Feldspar Porphyry
[Light Purple]	Quartz Porphyry
[Brown]	Diabase
[Light Orange]	Lost Core
[Light Green]	Metamorphic Undifferentiated
[Dark Green]	Mafic Volcanic
[Grey]	Overburden
[Yellow]	Conglomerate
[Light Green]	Mudstone
[Light Green]	Sandstone
[Light Green]	Greywacke
[Light Green]	Felsic Volcanic
[Light Green]	Intermediate Volcanic
[Light Green]	Ultramafic Volcanic
[Light Green]	Mafic Hyaloclastite - flow BX
[Pink]	Quartz Vein

kir_dh_struct	
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[Grey]	[BC]
[Pink]	[BED]
[Dark Green]	[CNT]
[Light Purple]	[FLD]
[Blue]	[FLT]
[Light Orange]	[FOL]
[Light Orange]	[FRC]
[Blue]	[FTG]
[Light Green]	[LC]
[Light Green]	[LCNT]
[Blue]	[SHR]
[Light Blue]	[SLIP]
[Dark Green]	[UCNT]

kir_dh_veins	
[Grey]	[ABSENT]
[Light Green]	[FCH]
[Red]	[SER]
[Light Orange]	[FCB]
[Light Orange]	[CB]
[Pink]	[QV]



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### N-S Sections Lithology, Veins, Textures, Assays, and Structures

North South Projection Section  
574000.00 E

SR, AK, DD

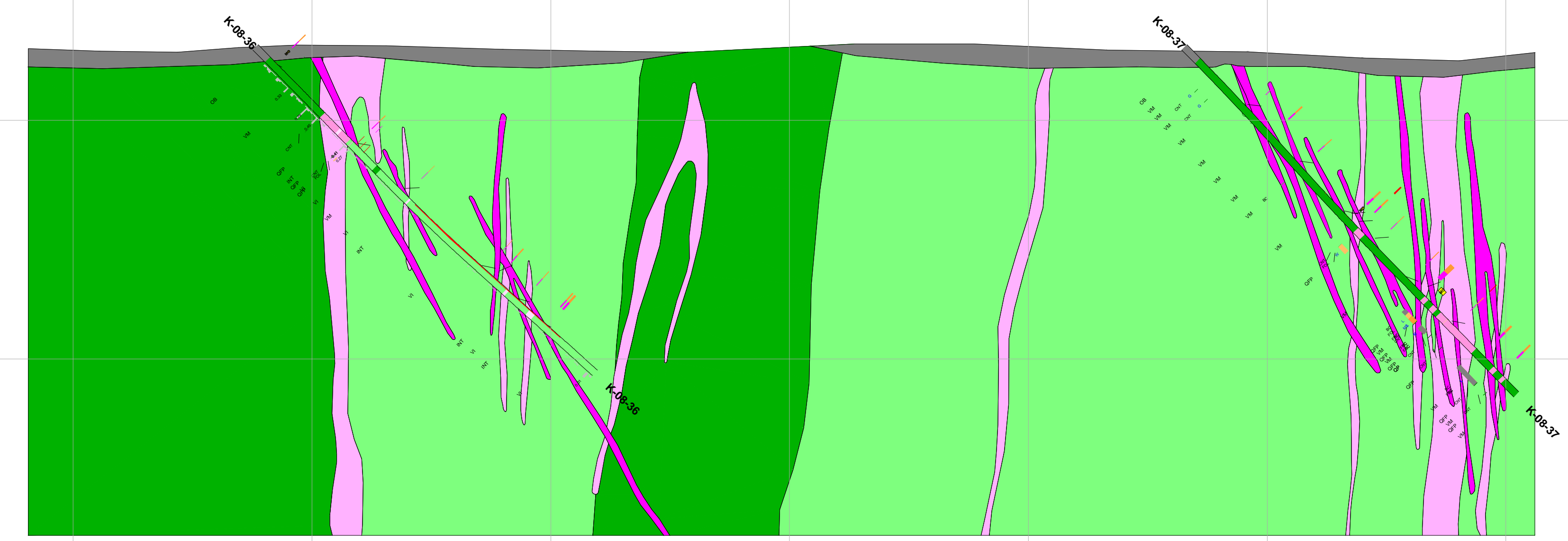
10 Feb 2015

Section 27 of 32

Scale 1:1500

Clipping: 7.5m/side

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Alteration	[ABSENT]	[ABSENT]
Chert	[BC]	[FCH]
Intrusive Undifferentiated	[BED]	[SER]
Quartz Feldspar Porphyry	[CNT]	[FCB]
Quartz Porphyry	[FLD]	[CB]
Diabase	[FLT]	[QV]
Lost Core	[FOL]	
Metamorphic Undifferentiated	[FRC]	
Mafic Volcanic	[FTG]	
Overburden	[LC]	
Conglomerate	[LCNT]	
Mudstone	[SHR]	
Sandstone	[SLIP]	
Greywacke	[UCNT]	
Felsic Volcanic		
Intermediate Volcanic		
Ultramafic Volcanic		
Mafic Hyaloclastite - flow BX		
Quartz Vein		





Kirana Break



# N-S Sections Lithology, Veins, Textures, Assays, and Structures

North South Projection Section  
573900.00 E

SR, AK, DD

10 Feb 2015

Section 28 of 32

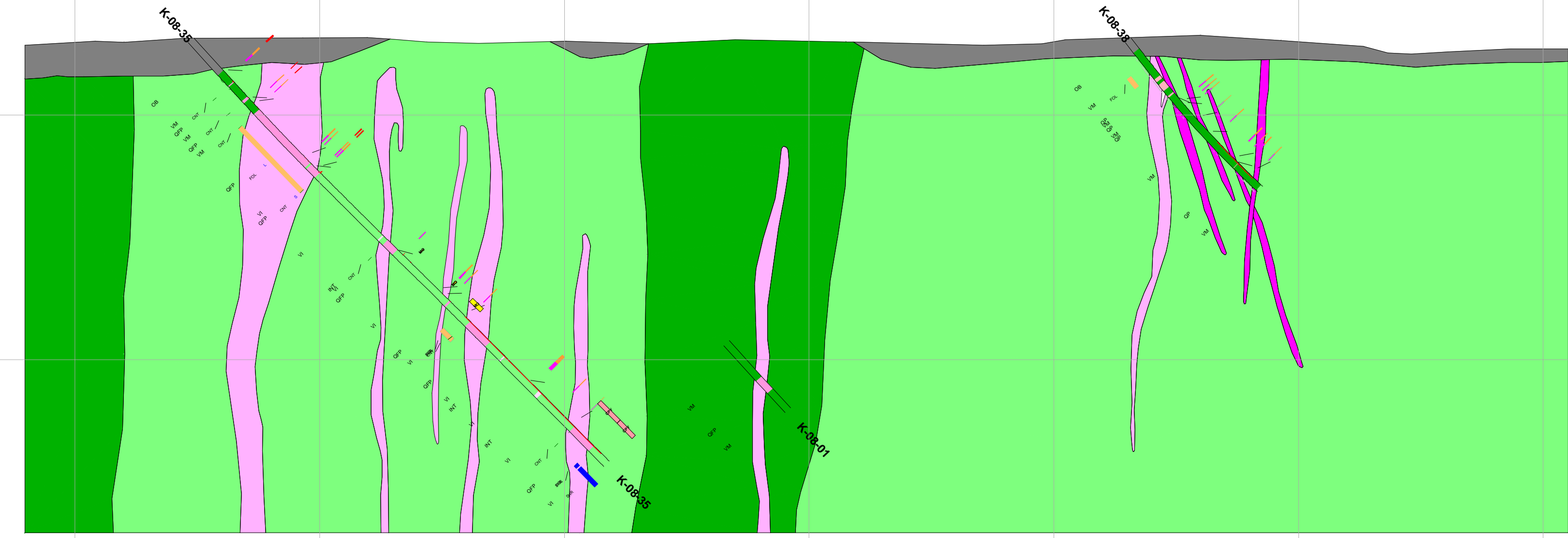
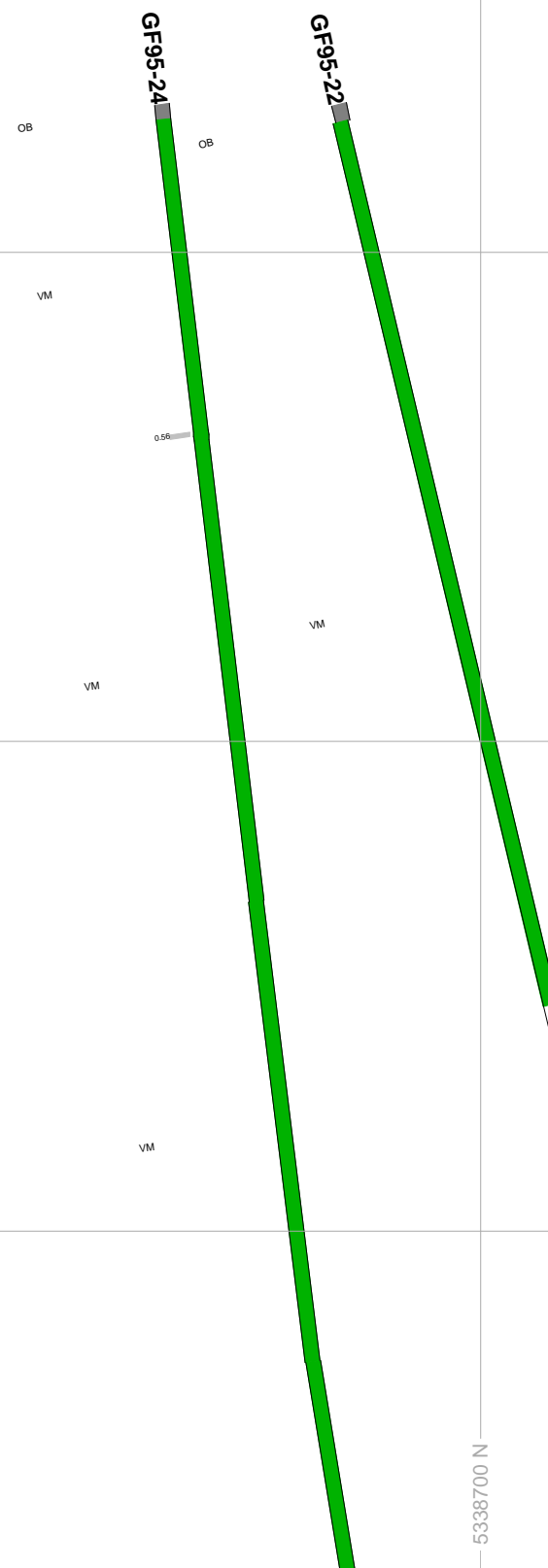
Scale 1:1500

Clipping: 7.5m/side

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Alteration	
Chert	
Intrusive Undifferentiated	
Quartz Feldspar Porphyry	
Quartz Porphyry	
Diabase	
Lost Core	
Metamorphic Undifferentiated	
Mafic Volcanic	
Overburden	
Conglomerate	
Mudstone	
Sandstone	
Greywacke	
Felsic Volcanic	
Intermediate Volcanic	
Ultramafic Volcanic	
Mafic Hyaloclastite - flow BX	
Quartz Vein	

kir_dth_struct	
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kir_dth_veins	
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Kirana Break



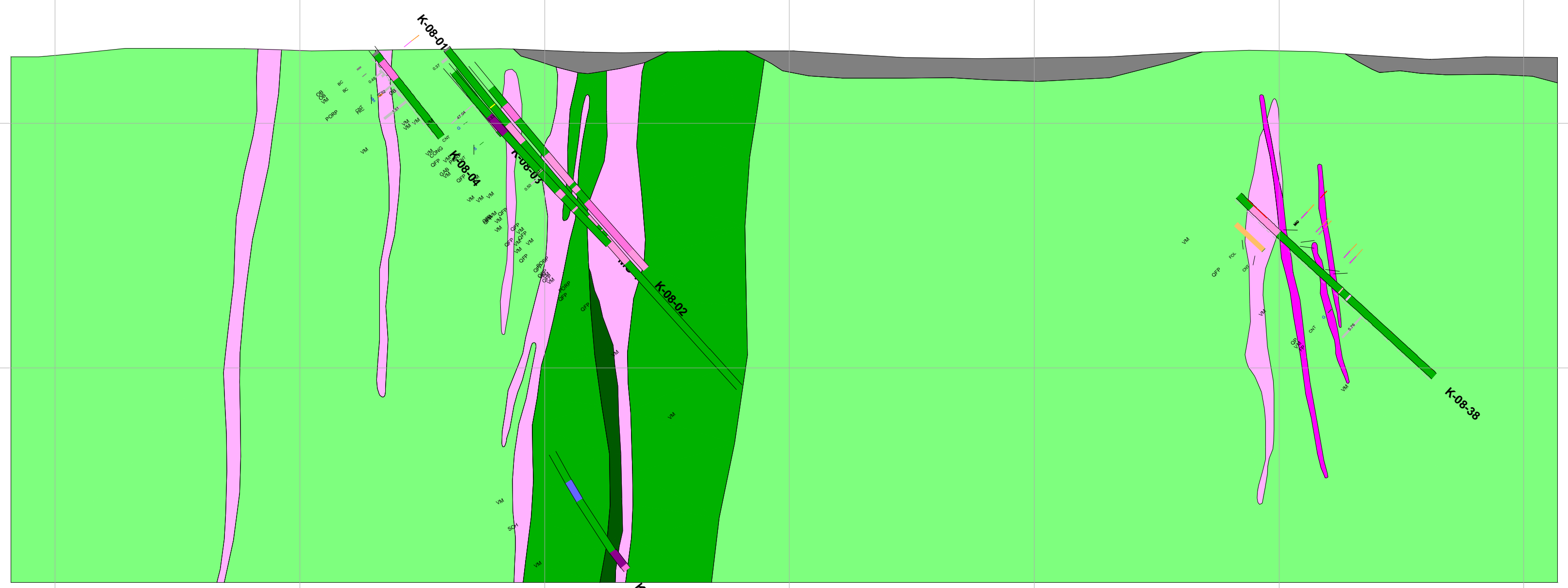
# N-S Sections Lithology, Veins, Textures, Assays, and Structures

North South Projection Section 573800.00 E	SR, AK, DD	10 Feb 2015
Section 29 of 32	Scale 1:1500	Clipping: 7.5m/side

kir_dh_litho_database
Alteration
Chert
Intrusive Undifferentiated
Quartz Feldspar Porphyry
Quartz Porphyry
Diabase
Lost Core
Metamorphic Undifferentiated
Mafic Volcanic
Overburden
Conglomerate
Mudstone
Sandstone
Greywacke
Felsic Volcanic
Intermediate Volcanic
Ultramafic Volcanic
Mafic Hyaloclastite - flow BX
Quartz Vein

kir_dth_struct
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[UCNT]

kir_dth_veins
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[QV]





Kirana Break



# N-S Sections Lithology, Veins, Textures, Assays, and Structures

North South Projection Section  
573700.00 E

SR, AK, DD

10 Feb 2015

Section 30 of 32

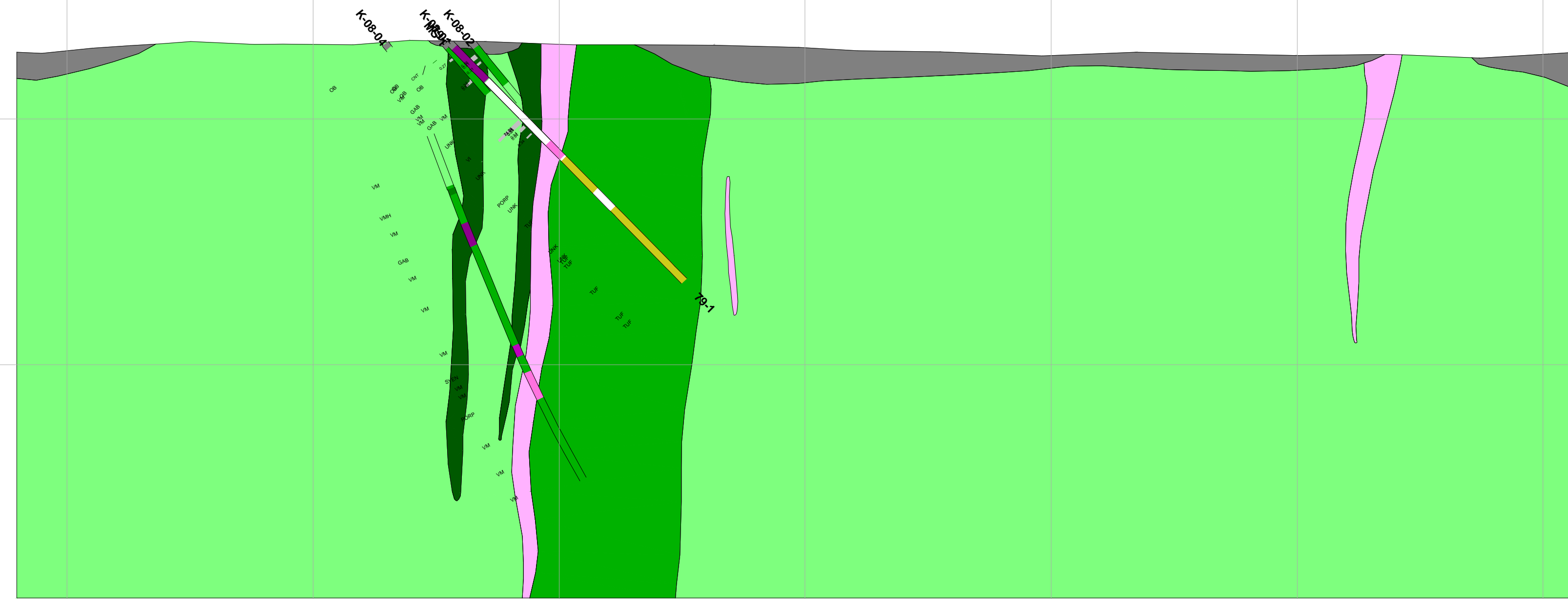
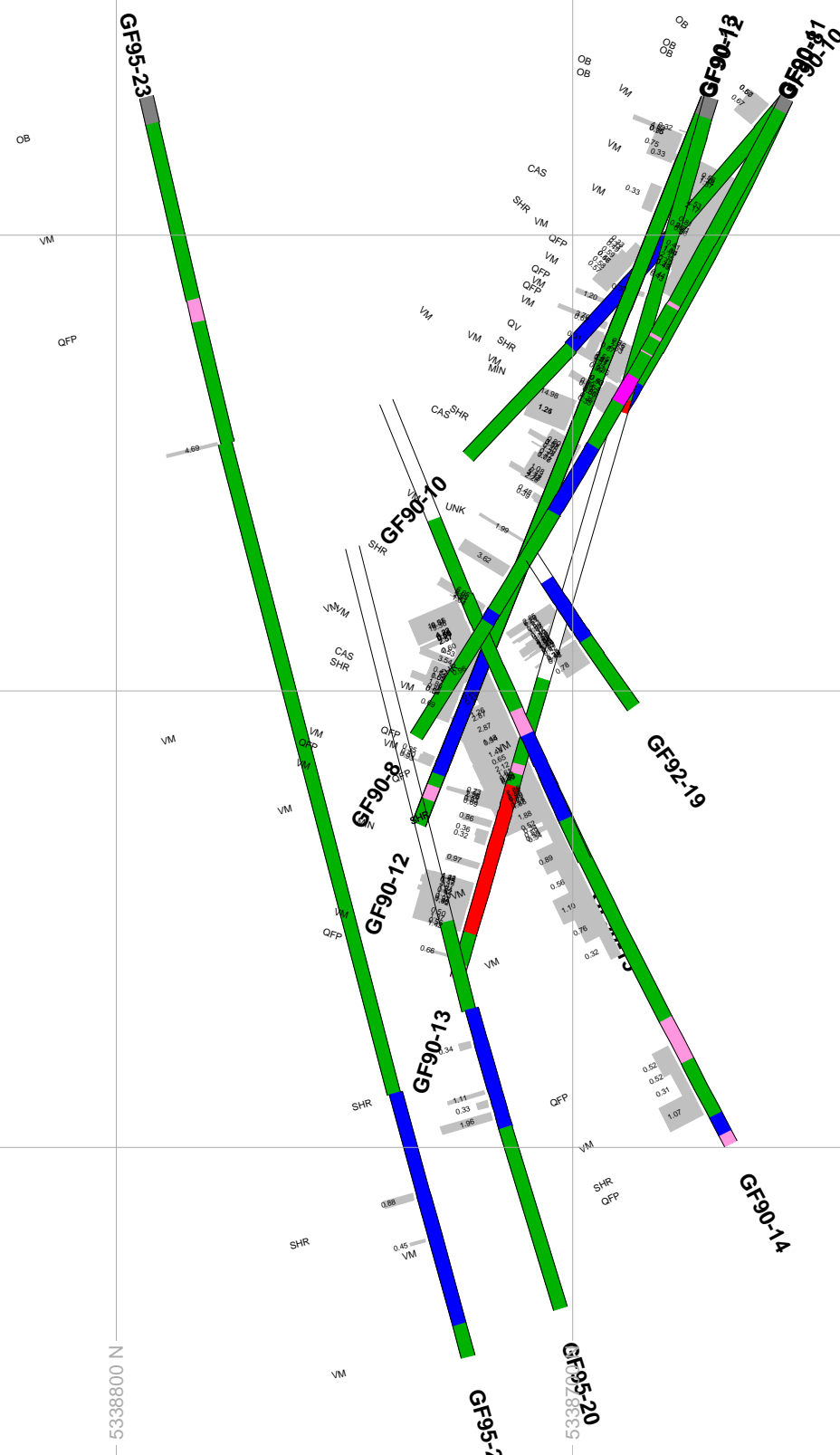
Scale 1:1500

Clipping: 7.5m/side

kir_dh_litho Database	
Alteration	
Chert	
Intrusive Undifferentiated	
Feldspar Porphyry	
Quartz Feldspar Porphyry	
Quartz Porphyry	
Diabase	
Lost Core	
Metamorphic Undifferentiated	
Mafic Volcanic	
Overburden	
Conglomerate	
Mudstone	
Sandstone	
Greywacke	
Felsic Volcanic	
Intermediate Volcanic	
Ultramafic Volcanic	
Mafic Hyaloclastite - flow BX	
Quartz Vein	

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kir_dh_veins	
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### N-S Sections Lithology, Veins, Textures, Assays, and Structures

North South Projection Section  
573600.00 E

SR, AK, DD

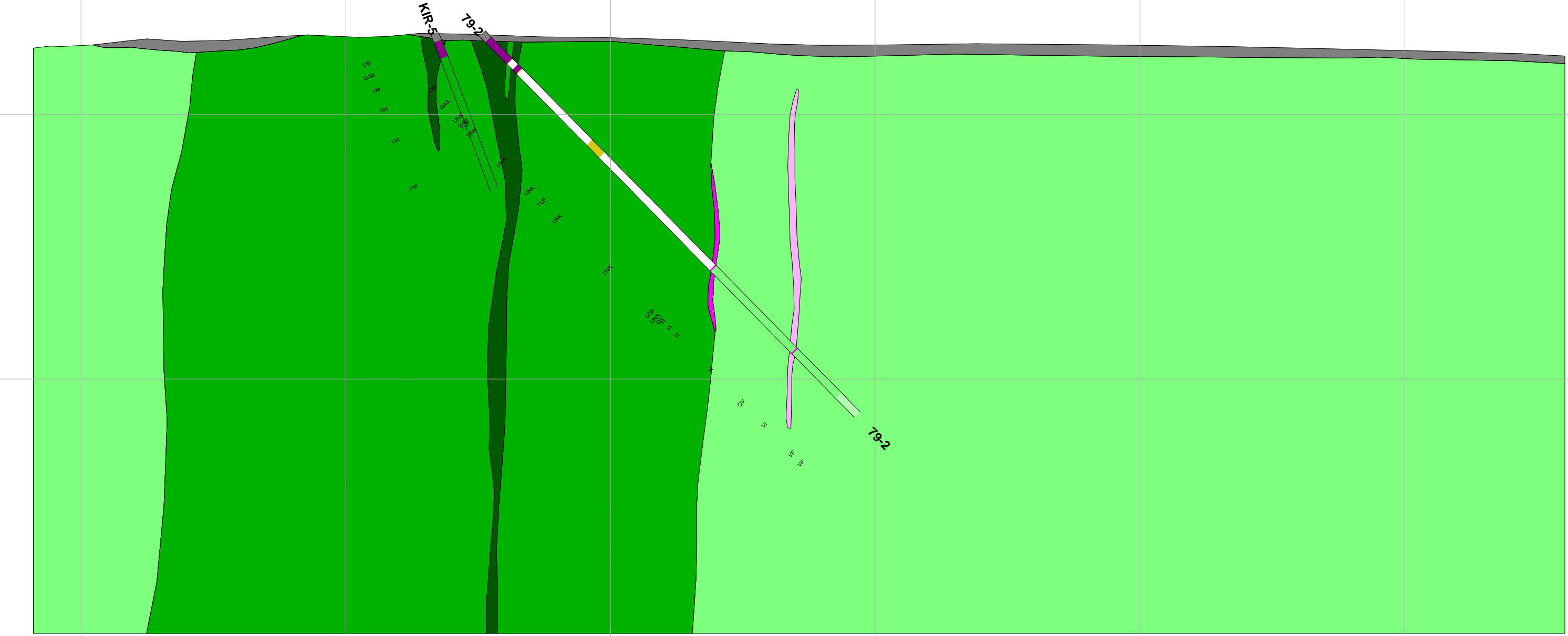
10 Feb 2015

Section 31 of 32

Scale 1:1500

Clipping: 7.5m/side

kir_dh_database	kir_dh_struct	kir_dh_veins
Alteration	[ABSENT]	[ABSENT]
Chert	[BC]	[FCH]
Intrusive Undifferentiated	[BED]	[SER]
Feldspar Porphyry	[CNT]	[FCB]
Quartz Feldspar Porphyry	[FLD]	[CB]
Quartz Porphyry	[FLT]	[QV]
Diabase	[FOL]	
Lost Core	[FRC]	
Metamorphic Undifferentiated	[FTG]	
Mafic Volcanic	[LC]	
Overburden	[LCNT]	
Conglomerate	[SHR]	
Mudstone	[SLIP]	
Sandstone	[UCNT]	
Greywacke		
Felsic Volcanic		
Intermediate Volcanic		
Ultramafic Volcanic		
Mafic Hyaloclastite - flow BX		
Quartz Vein		





Kirana Break



# N-S Sections Lithology, Veins, Textures, Assays, and Structures

North South Projection Section 573500.00 E	SR, AK, DD	10 Feb 2015
Section 32 of 32	Scale 1:1500	Clipping: 7.5m/side

kir_dh_database
Alteration
Chert
Intrusive Undifferentiated
Feldspar Porphyry
Quartz Feldspar Porphyry
Quartz Porphyry
Diabase
Lost Core
Metamorphic Undifferentiated
Mafic Volcanic
Overburden
Conglomerate
Mudstone
Sandstone
Greywacke
Felsic Volcanic
Intermediate Volcanic
Ultramafic Volcanic
Mafic Hyaloclastite - flow BX
Quartz Vein

kir_dth_struct
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[FTG]
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kir_dth_veins
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