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DRILL HOLE REPORT

Hole Number: **WIS-178**

Project: **WISNER_GLENCORE NRJV**

Project Number: **642**

Drilling	Casing	Core	Location	Other
Azimuth: 61.5	Length: 0	Dimension: NQ	Township: WISNER	Logged by: Györgyi Tuba
Dip: -46.2	Pulled: no	Storage: Core Shed	Claim No.: 984643	Relog by:
Length: 203.34	Capped: yes	Section:	NTS:	Contractor: Jacob & Samuel Drilling Ltd.
Started: 14-Oct-14	Cemented: no	Hole Type DD	Hole: SURFACE	Spotted by: Dave Coventry
Completed: 16-Oct-14				Surveyed: yes
Logged: 21-Oct-14				Surveyed by: Wallbridge
Comment: Pieces were scrambled around 28 m.				Geophysics: None
		Coordinate - Gemcom	Coordinate - UTM	Geophysic Contractor:
		East: 498510	East: 0	Left in hole: Nothing
		North: 5178086	North: 0	Making water: no
		Elev.: 417	Elev.: 0	Multi shot survey: no
			Zone: 17 NAD: 27	

Deviation Tests

Distance	Azimuth	Dip	Type	Good	Comments
0.00	61.50	-46.20	C	<input checked="" type="checkbox"/>	
14.00	61.50	-46.20	F	<input checked="" type="checkbox"/>	5543
65.00	67.60	-46.40	F	<input checked="" type="checkbox"/>	5481
116.00	66.10	-46.10	F	<input checked="" type="checkbox"/>	5426
167.00	65.60	-45.90	F	<input checked="" type="checkbox"/>	5502
203.00	64.70	-45.70	F	<input checked="" type="checkbox"/>	5475

LITHOLOGY REPORT
- Detailed -

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From (m)	To (m)	Lithology	Sample #	From	To	Length	Au (g/t)	Pt (g/t)	Pd (g/t)	Ni (%)	Cu (%)
0.00	1.05	CAS Casing									
1.05	7.78	DIA Diabase Dark, f/g, homogeneous DIA, medium-strong magnetism.	P446964	6.57	7.78	1.21	0.01	0.02	0.02	0.01	0.02
7.78	9.18	SDBX Sudbury Breccia Dark, magnetic (due to DIA clasts) bx, f/g, hot with desintegrated, ductilly deformed clasts and wispy PM which has ep-filled miarolitic cavities sometimes associated with trace py and CPY.	P446965 P446966	7.78 8.54	8.54 9.34	0.76 0.80	0.00 0.00	0.00 0.01	0.00 0.01	0.00 0.00	0.01 0.01
		Mineralization Maj. : Type/Style/%Mineral Comment 7.78 - 9.18 CPPY DIS 0.1 in PM									
9.18	11.86	DIA Diabase Same DIA as above. Rarely cut by 1-mm lim-cc veins.	P446967	9.34	10.64	1.30	0.01	0.02	0.02	0.01	0.02

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From (m)	To (m)	Lithology	Sample #	From	To	Length	Au (g/t)	Pt (g/t)	Pd (g/t)	Ni (%)	Cu (%)
11.86	13.94	SDBX Sudbury Breccia ~25% in GAB. Moderately magnetic bx, similar to that above in term of wispy PM and ductile clasts; no sulphide.									
13.94	25.10	GAB Gabbro With 5% SDBX (same as bx above) from 17.21-17.45m (cut by a couple of lim-cc veins) and 20.80-21.21m (more felsic clasts). 21.21-24.20m: abundant pm veins (1-2 cm) with ep and amph in m/c's. CPY mineralization: 18.33-18.87m: patchy to dissem, 1% with trace py; associated with PM (in m/c, sometimes intergrown with amph) as few-cm elongated patches 22.88-23.10: trace cpy with py in PM and thin (<5 mm) SDBX veinlets; has greyish-green ep selvage and/or amph (in m/c, intergrown). Mineralization Maj. :	Sudbury Breccia : P446968 P446969 P446970 P446971 P446972 P446973 P446974 P446975 P446976	15.50 16.86 18.23 18.61 19.06 20.48 21.88 22.88 23.20	16.86 18.23 18.61 19.06 20.48 21.88 22.88 23.20	1.36 1.37 0.38 0.45 1.42 1.40 1.00 0.32 1.43	0.00 0.00 0.12 0.02 0.00 0.00 0.00 0.02 0.00	0.00 0.00 0.41 0.00 0.00 0.00 0.00 0.21 0.00	0.00 0.00 0.66 0.00 0.00 0.00 0.00 0.17 0.00	0.00 0.00 0.06 0.00 0.00 0.00 0.00 0.04 0.00	0.00 0.01 0.50 0.13 0.01 0.00 0.00 0.08 0.01
25.10	26.65	SDBX Sudbury Breccia Cuts GAB. Same as SDBX above with pm and ductile clasts. Trace py in pm but no visible cpy.	Sudbury Breccia : P446977 P446978	24.63 26.10	26.10 26.93	1.47 0.83	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00

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From (m)	To (m)	Lithology	Sample #	From	To	Length	Au (g/t)	Pt (g/t)	Pd (g/t)	Ni (%)	Cu (%)
26.65	32.66	GAB Gabbro Sudbury Breccia : Medium- to coarse-grained. Moderately magnetic except for intervals where fsp's have a slight greenish red tint (magnetite oxidized to hem?); weak magmatism at those places. PM veins (~ 1 cm width) common, m/c's filled by ep+/-amph+/-py. 1% SDBX from 28.00-28.24 m, mineralized (see below). CPY mineralization: 27.93-28.24 m: in and around SDBX and PM, ~5% cpy with trace mill in several cm large patches surrounded by a greyish-green ep selvage. 30.50: trace disseminated cpy in m/c's of PM.	P446979	26.93	27.89	0.96	0.00	0.00	0.00	0.00	0.00
			P446980	27.89	28.33	0.44	0.04	0.14	0.19	0.06	0.19
			P446981	28.33	29.30	0.97	0.00	0.00	0.00	0.00	0.01
			P446982	29.30	30.43	1.13	0.00	0.00	0.00	0.00	0.00
			P446983	30.43	30.76	0.33	0.01	0.04	0.07	0.00	0.03
			P446986	30.78	32.19	1.41	0.00	0.00	0.00	0.00	0.00
		Mineralization Maj. : Type/Style/%Mineral Comment									
		27.93 - 28.24	CPMILL	BL	5						
		30.50 - 30.51	CP	DIS	0.1						
32.66	43.61	SDBX Sudbury Breccia Sudbury Breccia : 2AD4 In gabbro to 40.70 m, then in FGN. ~30-35% - FGN is so cooked up that it is hard to distinguish the bx matrix from the pm'd rock, so % might be inaccurate (FGN is bleached white-pink, hem stained, grains look cloudy/fuzzy, bx-host contacts are often diminished). SDBX same as above (pm and ductilly deformed clasts, etc.) CPY mineralization: 33.90-34.85m: 1% cpy, mostly patchy accompanied by disseminations and fine (~ 1-mm) veinlets at the lower end of the interval. Mostly individual patches surrounded by ep selvage, rarely associated with PM. Dominantly in SDBX matrix, some in GAB. 36.72m: trace disseminated cpy along fracture. 37.55m: trace disseminated cpy with py. 35.60-35.90m: 1% disseminated to patchy cpy in GAB.	P446987	32.19	33.64	1.45	0.00	0.00	0.00	0.01	0.01
			P446988	33.64	34.90	1.26	0.05	0.13	0.16	0.06	0.19
			P446989	34.90	35.59	0.69	0.02	0.01	0.02	0.03	0.09
			P446990	35.59	36.00	0.41	0.07	0.56	0.74	0.06	0.55
			P446991	36.00	36.94	0.94	0.00	0.00	0.00	0.00	0.03
			P446992	36.94	37.86	0.92	0.01	0.01	0.02	0.01	0.02
			P446993	37.86	38.96	1.10	0.01	0.05	0.05	0.01	0.03
			P446994	38.96	40.38	1.42	0.01	0.00	0.00	0.00	0.02
		Mineralization Maj. : Type/Style/%Mineral Comment									
		33.90 - 34.85	CP	BL	1						
		35.60 - 35.90	CP	BL	1						
		36.72 - 36.73	CP	F	0.1						

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<i>From</i> (m)	<i>To</i> (m)	<i>Lithology</i>	<i>Sample #</i>	<i>From</i>	<i>To</i>	<i>Length</i>	<i>Au</i> (g/t)	<i>Pt</i> (g/t)	<i>Pd</i> (g/t)	<i>Ni</i> (%)	<i>Cu</i> (%)
	37.55 - 37.56	CPPY DIS 0.1									
43.61	55.62	FGN <i>Felsic Gneiss</i> Sudbury Breccia : Greenish-pinkish-white due strong alteration; cooked, only qtz grains remained intact, fsp's are cloudy with diminished grain boundaries. Frequent lim-cc veins (1 mm and under). Trace SDBX in spidery veins; contact with thermally altered FGN is hard to establish. Rare extensional epidote veins (1 mm). 49.30-50.36m: a light-grey-coloured, more mafic unit (no qtz), medium-grained - might be a piece of altered gabbro.									
55.62	58.73	SDBX <i>Sudbury Breccia</i> Sudbury Breccia : 2D4 About 20% in thermally altered FGN. Unit looks redder and darker, not that bleached more hematite-stained than the FGN above. Stockwork of cc-hem, ep and qtz veins (evidence is sparce but cc-hem looks youngest of the vein types). No visible sulphide.									
58.73	60.49	FGN <i>Felsic Gneiss</i> Sudbury Breccia : Same alteration as above, purplish towards lower contact. Hem+/-cc+/-chl veins (1 mm and below), frequent.									

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From (m)	To (m)	Lithology	Sample #	From	To	Length	Au (g/t)	Pt (g/t)	Pd (g/t)	Ni (%)	Cu (%)	
60.49	62.21	GAB Gabbro Short interval of gabbro.										
62.21	66.14	SDBX Sudbury Breccia At FGN/GAB contact, contains large clasts of both units (FGN clasts altered as above). From 64.75 m downhole bx cuts GAB and becomes 2AD4 accordingly. Usual hot SDBX with wispy PM in matrix and PM pockets. Small structure at 62.47m: 45 TCA FG(?), poorly cemented with hem matrix. 63.90-64.32m: few-cm magnetite patches in PM(?). 55.50: 45-TCA cc-hem vein with hem halo and trace py. Alteration Maj: Type/Style/Intensity Comment 62.21 - 66.14 HE P MS Structure Maj.: Type/Core Angle Comment 62.45 - 62.48 G 45 hem cement	Sudbury Breccia : 2DA4	P446995	64.00	64.39	0.39	0.00	0.00	0.00	0.00	0.00
66.14	110.30	GAB Gabbro Massive, coarse-grained, slightly magnetic, quite heterogeneous gabbro; becomes more mafic from 83 m downhole (from amph:fsp 1:1 to 2:1). 2% SDBX: 73.85-74.27 (altered, alteration corona around clasts), 76.35-77.00 (patchy py from 76.35-76.54), 79.87-80.28 (quite a lot of GR clasts). Rare regional ep veins up to 1 cm. PM from 70.04-70.90m (parallel TCA; with magnetite), and common everywhere else. 1% patchy py from 83.00-99.70, intergrown with amph. 88.10-88.57: small structure with greenish-red alteration of host and hem-lim-cc stockwork; last 15 cm is crumbly. Regional ep veining (up to several cm thick) common from ~100m to end of interval, intense from 100.50 to 101.05m. CPY mineralization: 77.78-77.87m: trace cpy in SDBX, intergrown with amph+ep 85.14m: trace cpy in ep vein	Sudbury Breccia :	P446996	73.31	74.78	1.47	0.00	0.00	0.00	0.01	0.00
				P446997	74.78	76.28	1.50	0.00	0.09	0.04	0.01	0.01
				P446998	76.28	76.69	0.41	0.01	2.60	3.44	0.03	0.02
				P446999	76.69	77.55	0.86	0.00	0.00	0.00	0.01	0.01
				P447000	77.55	77.93	0.38	0.01	0.25	0.13	0.03	0.10
				P448401	77.93	79.30	1.37	0.00	0.00	0.00	0.01	0.01
				P448402	79.30	80.74	1.44	0.00	0.00	0.00	0.00	0.00
				P448403	80.74	82.18	1.44	0.00	0.00	0.00	0.01	0.01

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		86.26-86.33: 5% patchy cpy with trace millerite intergrown with amph	P448404	82.18	83.50	1.32	0.00	0.00	0.00	0.01	0.00
		95.84m: trace cpy in SDBX (1 grain)	P448405	83.50	85.05	1.55	0.00	0.00	0.00	0.01	0.01
		98.40 and 98.57m: trace cpy in ep vein	P448408	85.08	85.34	0.26	0.00	0.00	0.00	0.01	0.00
		99.70m and 100.31m: trace cpy +/-py in cc-chl vein	P448409	85.34	86.16	0.82	0.00	0.00	0.00	0.01	0.01
		Alteration Maj: Type/Style/Intensity Comment	P448410	86.16	86.42	0.26	0.01	1.43	2.08	0.13	0.65
		100.00 - 108.00 HE P WM	P448411	86.42	87.86	1.44	0.00	0.00	0.00	0.01	0.01
		Mineralization Maj.: Type/Style/%Mineral Comment	P448412	87.86	88.89	1.03	0.00	0.00	0.00	0.01	0.01
		77.78 - 77.87 CP DIS 0.1	P448413	88.89	90.34	1.45	0.00	0.00	0.00	0.01	0.01
		85.14 - 85.15 CP DIS 0.1	P448414	90.34	91.80	1.46	0.00	0.00	0.00	0.02	0.01
		86.26 - 86.33 CPMILL BL 5	P448415	91.80	93.29	1.49	0.00	0.00	0.00	0.02	0.01
		95.84 - 95.85 CP DIS 0.1	P448416	93.29	93.98	0.69	0.00	0.00	0.00	0.01	0.01
		98.40 - 98.41 CP DIS 0.1	P448417	93.98	94.30	0.32	0.00	0.00	0.00	0.02	0.01
		98.57 - 98.58 CP DIS 0.1	P448418	94.30	95.71	1.41	0.00	0.00	0.00	0.01	0.01
		99.70 - 99.71 CP F 0.1	P448419	95.71	96.12	0.41	0.00	0.00	0.00	0.01	0.01
		100.31 - 100.32 PYCP F 0.1	P448420	96.12	97.26	1.14	0.00	0.00	0.00	0.01	0.01
		Structure Maj.: Type/Core Angle Comment	P448421	97.26	98.22	0.96	0.00	0.00	0.00	0.01	0.01
		88.10 - 88.57 JNTS hem-lim-cc stockwork	P448422	98.22	98.74	0.52	0.00	0.00	0.00	0.01	0.00
			P448423	98.74	99.50	0.76	0.00	0.00	0.00	0.02	0.01
			P448424	99.50	100.12	0.62	0.00	0.00	0.00	0.01	0.00
			P448425	100.12	100.51	0.39	0.00	0.00	0.00	0.01	0.00
			P448426	100.51	102.07	1.56	0.00	0.00	0.00	0.01	0.00
			P448427	102.07	103.55	1.48	0.00	0.00	0.00	0.01	0.00
110.30	117.22	DIA Diabase Sudbury Breccia: Fine-grained, homogeneous, slightly magnetic Dia with occasional fsp porphyroblasts. ~20 cm SDBX at upper contact and 2 cm at lower. 110.82-111.05m: small structure, cc vein stockwork with intense hematization of the DIA and 40-50 TCA tension gushes filled with cc.									
		Alteration Maj: Type/Style/Intensity Comment									
		110.30 - 110.64 EP VN M regional									

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		Structure Maj.:									
		110.82 - 111.05									
		Type/Core Angle									
		JNTS 45									
		Comment									
		cc-filled									
117.22	125.24	SDBX									
		Sudbury Breccia									
		Sudbury Breccia :									
		2A4	P448430	118.69	120.11	1.42	0.00	0.00	0.00	0.01	0.00
		30-35% in GAB. Some wispy PM in matrix, although not as much as seen in sections above. Most clasts have a corona of amph-fsp+/-sulphide (py at 121.01, 122.16) due to some kind of a thermal reaction(?); trace CPY associated with altered clasts at 120.35 and 123.94.	P448431	120.11	120.74	0.63	0.00	0.00	0.00	0.01	0.00
			P448432	120.74	122.06	1.32	0.00	0.00	0.00	0.01	0.00
			P448433	122.06	122.48	0.42	0.00	0.00	0.00	0.00	0.00
			P448434	122.48	123.60	1.12	0.00	0.00	0.00	0.00	0.00
			P448435	123.60	124.00	0.40	0.00	0.00	0.00	0.00	0.00
			P448436	124.00	125.48	1.48	0.00	0.00	0.00	0.00	0.00
		Alteration Maj:									
		124.35 - 125.24									
		Type/Style/Intensity									
		EP P S									
		Mineralization Maj. :									
		120.35 - 120.36									
		Type/Style/%Mineral									
		CP DIS 0.1									
		123.94 - 123.95									
		Type/Style/%Mineral									
		CP DIS 0.1									
125.24	131.03	GAB									
		Gabbro									
		Sudbury Breccia :									
			P448437	127.08	127.33	0.25	0.00	0.00	0.00	0.00	0.00
		Coarse-grained, altered Wisner Gabbro with trace SDBX. Trace CPY: 127.18-127.20 (55-TCA cc-qtz extensional vein, 5-mm euhedral Qtz), 128.51-128.53 (2-3 cm long, 1-2 mm thick irregular "veinlet" with dark halo (amph? chl?).	P448438	128.34	128.63	0.29	0.00	0.00	0.00	0.00	0.01
		Alteration Maj:									
		125.24 - 128.00									
		Type/Style/Intensity									
		HE P W									
		125.24 - 128.00									
		Type/Style/Intensity									
		EP P MS									
		128.00 - 131.03									
		Type/Style/Intensity									
		HE P W									
		Mineralization Maj. :									
		127.18 - 127.20									
		Type/Style/%Mineral									
		CP FF 0.1									

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	128.51 - 128.53	CP FF 0.1										
131.03	142.44	SDBX <i>Sudbury Breccia</i> Same style as above with thermally altered clasts and PM wisps and pockets. Trace py in matrix and altered clasts throughout the interval. Trace CPY and py in PM and altered clasts at 134.50 m.	<i>Sudbury Breccia</i> : 2AD4	P448439	133.00	134.46	1.46	0.00	0.00	0.00	0.00	0.00
				P448440	134.46	135.18	0.72	0.00	0.00	0.00	0.00	0.00
				P448441	135.18	136.35	1.17	0.00	0.00	0.00	0.00	0.00
				P448442	136.35	137.00	0.65	0.00	0.00	0.00	0.01	0.01
				P448443	137.00	137.58	0.58	0.00	0.00	0.00	0.01	0.00
				P448444	137.58	138.94	1.36	0.00	0.00	0.00	0.01	0.00
		Mineralization Maj. : <i>Type/Style/%Mineral</i> Comment 134.50 - 134.52 CPPY DIS 0.1										
142.44	144.25	GAB <i>Gabbro</i> Same as above.	<i>Sudbury Breccia</i> :									
		Alteration Maj.: <i>Type/Style/Intensity</i> Comment 142.44 - 144.25 HE P W										
144.25	146.36	SDBX <i>Sudbury Breccia</i> Same style as above; 30% SDBX with trace py in altered clasts and quite a bit of PM in matrix. Trace CPY in PM at 145.31 m.	<i>Sudbury Breccia</i> : 2AD4	P448445	144.49	145.13	0.64	0.00	0.00	0.00	0.01	0.00
				P448446	145.13	145.65	0.52	0.00	0.00	0.00	0.01	0.01
		Mineralization Maj. : <i>Type/Style/%Mineral</i> Comment 145.31 - 145.33 CP DIS 0.1										

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<i>From</i> (m)	<i>To</i> (m)	<i>Lithology</i>	<i>Sample #</i>	<i>From</i>	<i>To</i>	<i>Length</i>	<i>Au</i> (g/t)	<i>Pt</i> (g/t)	<i>Pd</i> (g/t)	<i>Ni</i> (%)	<i>Cu</i> (%)
146.36	152.87	GAB Gabbro Sudbury Breccia : Same as above GAB with very weak hematite alteration. Trace SDBX and PM, no visible sulphide. Alteration Maj: Type/Style/Intensity Comment 146.36 - 152.87 HE PCH W									
152.87	154.11	SDBX Sudbury Breccia Sudbury Breccia : Same style as SDBX (with PM, etc); no sulphide.	2AD4								
154.11	158.52	GAB Gabbro Sudbury Breccia : Same style as GAB above with 50 cm SDBX along lower contact to DIA. Some PM pockets and few-mm veins.									
158.52	165.77	DIA Diabase Sudbury Breccia : Fine- to medium-grained DIA, magnetic, ~2% fsp porphyroblasts. Trace SDBX. 25-TCA, 1 mm act veins with 5-mm halo (inner ep-fsp and outer amph): 160.50-160.72 and 165.52-165.66. Alteration Maj: Type/Style/Intensity Comment 160.50 - 160.72 ACTL VN W 25 TCA									

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From (m)	To (m)	Lithology	Sample #	From	To	Length	Au (g/t)	Pt (g/t)	Pd (g/t)	Ni (%)	Cu (%)
	165.52 - 165.66	ACTL VN W 25 TCA									
165.77	187.12	<p>GAB Gabbro</p> <p>Sudbury Breccia : Same GAB as above, massivem relatively homogeneous. 1% SDBX (173.90-174.75m; same as above, no sulphide). Trace py in qtz-cc-hem vein at 184.17.</p> <p>Alteration Maj: Type/Style/Intensity Comment</p> <p>165.77 - 187.12 HE PCH W</p>									
187.12	190.35	<p>STRC Structure</p> <p>Sudbury Breccia : At GAB/DIA contact, cutting SDBX from 159.51 downhole. Very fine, cc+/-qtz-filled tension gushes, densely packed down to 188.37 m (40-50 TCA) with possible normal displacement along them. 189.20-189.36m: qtz vein, 2 generations (1: clear, coarse-grained; 2: milky white, cutting gen1+ chl band along growth fronts). Vuggy from 189.71m, cc cement gone from gushes. All veins etc 40-50 TCA. Intense pervasive chl(? something dark) alteration in host with 1% disseminated py.</p>									
190.35	196.34	<p>DIA Diabase</p> <p>Sudbury Breccia : Massive, m/g, magnetic, homogeneous DIA with 1% fsp porphyroblasts. 193.62-193.71 m: 30-TCA hem-cc-chl gouge-like vein, 4 mm wide, with hem (inner) and fsp (outer) haloes.</p>									

LITHOLOGY REPORT
- Detailed -

Hole Number: WIS-178

Project: WISNER_GLENCORE NRJV

Project Number: 642

From (m)	To (m)	Lithology	Sample #	From	To	Length	Au (g/t)	Pt (g/t)	Pd (g/t)	Ni (%)	Cu (%)
196.34	197.48	SDBX Sudbury Breccia The matrix looks a bit coarser-grained than the breccia above (~3 instead of a 4), otherwise the same as above: some PM, altered clasts with corona, no sulphide. Dia and Gab clasts dominate.									
197.48	199.64	STRC Structure In GAB with SDBX. Very similar to the one above but less in significance. Chl-py alteration, some tension gushes, but mostly vuggy, with fault gouge from 198.96-199.00 (well-cemented with qtz, ~80 TCA).									
199.64	200.02	GAB Gabbro Short GAB interval, same as above.									
200.02	203.33	QMON Quartz Monzonite Trace SDBX (200.95-201.05m) with altered, pale-green matrix (pervasive ep). 200.95-201.05m: trace CPY with ep selvage in chl vein (might be associated with PM). Alteration Maj: Type/Style/Intensity Comment 200.02 - 203.33 EP PCH W	P448447	200.89	201.20	0.31	0.00	0.00	0.00	0.00	0.00

DRILL HOLE REPORT

Hole Number **WIS-179**

Project: **WISNER_GLENCORE NRJV**

Project Number: **642**

Drilling	Casing	Core	Location	Other
Azimuth: 60	Length: 0	Dimension: NQ	Township: WISNER	Logged by: Shannon Baird
Dip: -45	Pulled: no	Storage: Core Shed	Claim No.: 984643	Relog by:
Length: 220.92	Capped: yes	Section:	NTS:	Contractor: Jacob & Samuel Drilling Ltd.
Started: 16-Oct-14	Cemented: no	Hole Type DD	Hole: SURFACE	Spotted by: Tom Johnson
Completed: 19-Oct-14				Surveyed: yes
Logged: 21-Oct-14				Surveyed by: Wallbridge
Comment:				Geophysics: BHEM
		Coordinate - Gemcom	Coordinate - UTM	Geophysic Contractor:
		East: 498442	East: 498442	Left in hole: Nothing
		North: 5178081	North: 5178081	Making water: no
		Elev.: 403	Elev.: 403	Multi shot survey: no
			Zone: 17 NAD: 27	

Deviation Tests

<i>Distance</i>	<i>Azimuth</i>	<i>Dip</i>	<i>Type</i>	<i>Good</i>	<i>Comments</i>
0.00	60.00	-45.00	C	<input checked="" type="checkbox"/>	
14.00	58.80	-46.00	F	<input checked="" type="checkbox"/>	5699
65.00	62.10	-45.90	F	<input checked="" type="checkbox"/>	5429
116.00	57.70	-46.50	F	<input checked="" type="checkbox"/>	5437
167.00	58.80	-46.20	F	<input checked="" type="checkbox"/>	5444
218.00	60.00	-46.10	F	<input checked="" type="checkbox"/>	5500

LITHOLOGY REPORT
- Detailed -

Hole Number **WIS-179**

Project: **WISNER_GLENCORE NRJV**

Project Number: **642**

<i>From</i> (m)	<i>To</i> (m)	<i>Lithology</i>	<i>Sample #</i>	<i>From</i>	<i>To</i>	<i>Length</i>	<i>Au</i> (g/t)	<i>Pt</i> (g/t)	<i>Pd</i> (g/t)	<i>Ni</i> (%)	<i>Cu</i> (%)	
0.47	14.04	SDBX Sudbury Breccia Wisner Gabbro host. Partial melt veins between 0.5-2cm wide. No visible sulfides. SDBX up to 25-30% of unit. Mag of SDBX =~30-60 milli SI.	Sudbury Breccia : 2B3	P448901	0.47	2.00	1.53	0.00	0.00	0.00	0.00	0.00
				P448902	2.00	3.50	1.50	0.00	0.00	0.00	0.00	0.00
				P448903	3.50	5.00	1.50	0.00	0.00	0.00	0.00	0.00
				P448904	5.00	6.50	1.50	0.00	0.00	0.00	0.02	0.00
				P448905	6.50	8.00	1.50	0.00	0.00	0.00	0.02	0.00
				P448906	8.00	9.50	1.50	0.00	0.00	0.00	0.01	0.00
				P448907	9.50	11.00	1.50	0.00	0.00	0.00	0.00	0.00
				P448908	11.00	12.50	1.50	0.00	0.00	0.00	0.01	0.00
				P448909	12.50	14.00	1.50	0.00	0.00	0.00	0.00	0.00
14.04	16.70	GAB Gabbro Wisner Gabbro. Mg-Cg. Mag=70-80. Foliated at ~55 dtca.	Sudbury Breccia :	P448910	14.00	15.50	1.50	0.00	0.00	0.00	0.00	0.00
				P448911	15.50	16.70	1.20	0.00	0.00	0.00	0.00	0.00
16.70	21.98	SDBX Sudbury Breccia Brecciated Dia and Gab contact. Mineralized with Cpy+Py+/-Bn+/-Po+/-Millerite up to 3-5% overall. Sulfides are present mainly as fracture filling and replacement of partial melt veins exploiting the structural weaknesses. There is also a later sulfide remobilization event following brittle fractures and offsets cutting existing sulfides. Sulfides mainly follow 55-75 dtca orientations but are also still irregular and sinuous. Potentially up to 1-1.5% Copper depending on the percentage of Bornite present. There may also be Millerite and Pyrrhotite associated with the Cpy, however, it is not magnetic?	Sudbury Breccia : 2AB2	P448912	16.70	17.90	1.20	0.00	0.00	0.00	0.00	0.01
				P448913	17.90	18.30	0.40	0.21	1.11	1.96	0.33	1.04
				P448914	18.30	19.10	0.80	0.02	0.00	0.00	0.01	0.05
				P448915	19.10	20.20	1.10	1.13	0.73	0.90	0.17	0.74
				P448916	20.20	21.15	0.95	0.05	0.27	0.20	0.02	0.19
				P448917	21.15	21.80	0.65	0.43	0.77	1.25	0.38	2.01

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Hole Number **WIS-179**

Project: **WISNER_GLENCORE NRJV**

Project Number: **642**

<i>From</i> (m)	<i>To</i> (m)	<i>Lithology</i>	<i>Sample #</i>	<i>From</i>	<i>To</i>	<i>Length</i>	<i>Au</i> (g/t)	<i>Pt</i> (g/t)	<i>Pd</i> (g/t)	<i>Ni</i> (%)	<i>Cu</i> (%)	
21.98	40.10	DIA Diabase Hydrothermal and partial melt veins between 0.5-2cm of quartz-feldspar+/-magnetite. Potentially PGEs in the veins closer to the contact. Mag=110-125.	Sudbury Breccia :	P448918	21.80	23.30	1.50	0.00	0.01	0.01	0.01	0.03
				P448919	23.30	24.80	1.50	0.00	0.00	0.00	0.01	0.03
				P448920	24.80	26.28	1.48	0.00	0.00	0.00	0.01	0.01
				P448923	26.28	27.80	1.52	0.00	0.00	0.00	0.01	0.02
				P448924	27.80	29.30	1.50	0.00	0.00	0.00	0.01	0.01
				P448925	29.30	30.80	1.50	0.00	0.00	0.00	0.01	0.01
				P448926	30.80	32.30	1.50	0.00	0.00	0.00	0.01	0.01
				P448927	32.30	33.80	1.50	0.00	0.00	0.00	0.01	0.02
				P448928	33.80	34.80	1.00	0.00	0.00	0.00	0.01	0.02
40.10	43.00	SDBX Sudbury Breccia Wisner Gabbro host up to 15% breccia.	Sudbury Breccia :	2AB3								
43.00	47.67	GAB Gabbro Mg-Cg, foliated with SDBX microfractures throughout.	Sudbury Breccia :									
47.67	48.30	SDBX Sudbury Breccia Wisner Gabbro host that is foliated. No sulfides.	Sudbury Breccia :	2B3								

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Project: **WISNER_GLENCORE NRJV**

Project Number: **642**

<i>From</i> (m)	<i>To</i> (m)	<i>Lithology</i>	<i>Sample #</i>	<i>From</i>	<i>To</i>	<i>Length</i>	<i>Au</i> (g/t)	<i>Pt</i> (g/t)	<i>Pd</i> (g/t)	<i>Ni</i> (%)	<i>Cu</i> (%)	
48.30	72.00	GAB Gabbro Mg-Cg, foliated, typical of the area. No visible sulfides. There is Fe-staining from ~69m to 74.9m probably from the fault.	Sudbury Breccia :	P448929	49.78	51.28	1.50	0.00	0.00	0.00	0.01	0.00
				P448930	51.28	52.78	1.50	0.00	0.00	0.00	0.00	0.00
				P448931	52.78	54.20	1.42	0.00	0.00	0.00	0.00	0.00
				P448932	54.20	55.70	1.50	0.00	0.00	0.00	0.01	0.00
				P448933	55.70	57.20	1.50	0.00	0.00	0.00	0.01	0.00
				P448934	57.20	58.70	1.50	0.00	0.00	0.00	0.00	0.00
				P448935	58.70	59.65	0.95	0.00	0.00	0.00	0.00	0.02
				P448936	59.65	60.00	0.35	0.02	0.09	0.10	0.01	0.09
				P448937	60.00	61.50	1.50	0.00	0.00	0.00	0.01	0.01
				P448938	61.50	62.65	1.15	0.00	0.00	0.00	0.01	0.01
				P448939	62.65	63.95	1.30	0.00	0.00	0.00	0.00	0.01
				P448940	63.95	64.45	0.50	0.01	0.06	0.09	0.00	0.07
				P448941	64.45	65.95	1.50	0.00	0.00	0.00	0.00	0.00
				P448942	65.95	67.38	1.43	0.00	0.00	0.00	0.00	0.00
				P448945	67.40	68.90	1.50	0.00	0.00	0.00	0.00	0.01
				P448946	68.90	70.40	1.50	0.00	0.00	0.00	0.00	0.00
				P448947	70.40	71.90	1.50	0.00	0.00	0.00	0.01	0.00
72.00	72.50	FLT Fault Hydrothermal breccia infill/sealed Quartz+Fe-Carbonate fault structure.	Sudbury Breccia :									
72.50	74.90	GAB Gabbro Mg-Cg, foliated, typical of the area. No visible sulfides. There is Fe-staining from ~69m to 74.9m probably from the fault.	Sudbury Breccia :	P448948	71.90	73.40	1.50	0.00	0.00	0.00	0.00	0.00
				P448949	73.40	74.90	1.50	0.00	0.00	0.00	0.01	0.00

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Hole Number **WIS-179**

Project: **WISNER_GLENCORE NRJV**

Project Number: **642**

<i>From</i> (m)	<i>To</i> (m)	<i>Lithology</i>	<i>Sample #</i>	<i>From</i>	<i>To</i>	<i>Length</i>	<i>Au</i> (g/t)	<i>Pt</i> (g/t)	<i>Pd</i> (g/t)	<i>Ni</i> (%)	<i>Cu</i> (%)	
74.90	80.50	SDBX Sudbury Breccia Brecciated contact between gabbro and diabase with partial melt veins surrounding lower contact and into diabase. Mag+60-100.	Sudbury Breccia : 2AB3	P448950	74.90	76.40	1.50	0.00	0.00	0.00	0.01	0.01
				P448951	76.40	77.90	1.50	0.00	0.00	0.00	0.01	0.01
				P448952	77.90	79.20	1.30	0.00	0.01	0.01	0.01	0.01
				P448953	79.20	80.50	1.30	0.00	0.01	0.01	0.01	0.01
80.50	92.50	DIA Diabase Fg, dark grey. There are a few 1cm glomeroporphyroblasts of feldspar. Mag=125.	Sudbury Breccia :									
92.50	100.40	SDBX Sudbury Breccia Wisner Gabbro host. Brecciated contact between diabase and gabbro. Mag=40-100.	Sudbury Breccia : 2AB3									

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Hole Number **WIS-179**

Project: **WISNER_GLENCORE NRJV**

Project Number: **642**

<i>From</i> (m)	<i>To</i> (m)	<i>Lithology</i>	<i>Sample #</i>	<i>From</i>	<i>To</i>	<i>Length</i>	<i>Au</i> (g/t)	<i>Pt</i> (g/t)	<i>Pd</i> (g/t)	<i>Ni</i> (%)	<i>Cu</i> (%)
100.40	127.00	GAB Gabbro Sudbury Breccia : Between 100-108m the gabbro is very foliated and altered/bleached, possibly albitized feldspars. Mg-Cg. There are small bands of SDBX from 107.75-108m From 119.7-127m is more altered with more partial melt veins and Fe-staining around aplitic veins. Up to 0.1-0.2% Cpy+Py blebs around 121-123m bordering partial melt veins and bordering the breccia zone.	P448954	119.80	121.30	1.50	0.01	0.00	0.00	0.01	0.02
			P448955	121.30	122.80	1.50	0.02	0.27	0.17	0.03	0.11
			P448956	122.80	124.30	1.50	0.01	0.06	0.05	0.01	0.02
			P448957	124.30	125.80	1.50	0.00	0.00	0.00	0.01	0.01
			P448958	125.80	127.30	1.50	0.00	0.00	0.00	0.01	0.00
127.00	146.00	SDBX Sudbury Breccia Sudbury Breccia : Up to 15% SDBX withing a Wisner Gabbro host. Gabbro is altered and partilly melted. There are disseminated sulfides throughout the gabbro, probably just Pyrite up to 134m. There are zones of much more mafic and more felsic looking gabbro withing the breccia.	P448959	127.30	128.80	1.50	0.00	0.00	0.00	0.01	0.01
			P448960	128.80	130.30	1.50	0.00	0.00	0.00	0.01	0.01
			P448961	130.30	131.80	1.50	0.00	0.03	0.03	0.01	0.01
			P448962	131.80	133.10	1.30	0.00	0.01	0.01	0.02	0.01
146.00	150.85	GAB Gabbro Sudbury Breccia : Altered and foliated with zoned feldspars, potentially albitized and potassically altered. Minor SDBX veins. Possibly a large block within the breccia.									
150.85	152.20	SDBX Sudbury Breccia Sudbury Breccia : Wisner Gabbro host with up to 30% breccia matrix.									

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Hole Number **WIS-179**

Project: **WISNER_GLENCORE NRJV**

Project Number: **642**

<i>From</i> (m)	<i>To</i> (m)	<i>Lithology</i>	<i>Sample #</i>	<i>From</i>	<i>To</i>	<i>Length</i>	<i>Au</i> (g/t)	<i>Pt</i> (g/t)	<i>Pd</i> (g/t)	<i>Ni</i> (%)	<i>Cu</i> (%)
152.20	160.30	GAB Gabbro Cut by several larger diabase dykes and sinuous sub-parallel contact. Also, more mafic, finer grained bands within the gabbro. Several partial melt veins also present. Gabbro is Cg and more mafic and less foliated from 154.15-160.30m.									
160.30	164.42	DIA Diabase Fg, dark grey with minor porphs (MDIA?)									
164.42	168.00	SDBX Sudbury Breccia Brecciated contact between Gabbro and Diabase. May just be intrusion but most likely SDBX. From 164.92-166.50m is a Gabbro block with microfractures and a small diabase dyke. Highly altered/bleached and foliated. Mg, yellowish to pink stained feldspars.. From 166.50-168m is up to 40% SDBX matrix up to the fault on the lower contact. Host is gabbro and mostly whiter feldspars, Mg-Cg and less foliated/altered.									
168.00	175.77	GAB Gabbro Altered and fractured gabbro with partial melt veins throughout and several small instances of diabase dykes, Mg-Cg, white to orange feldspars.									

LITHOLOGY REPORT
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Hole Number **WIS-179**

Project: **WISNER_GLENCORE NRJV**

Project Number: **642**

<i>From</i> (m)	<i>To</i> (m)	<i>Lithology</i>	<i>Sample #</i>	<i>From</i>	<i>To</i>	<i>Length</i>	<i>Au</i> (g/t)	<i>Pt</i> (g/t)	<i>Pd</i> (g/t)	<i>Ni</i> (%)	<i>Cu</i> (%)
175.77	182.08	SDBX Sudbury Breccia Wisner Gabbro host with sinuous and variable zones of breccia throughout. Breccia looks hot and partially recrystallized.									
182.08	184.80	GAB Gabbro Typical Wisner Gabbro.									
184.80	185.55	DIA Diabase Fg. granular dyke with porphs, probably MDIA cutting the gabbro.									
185.55	191.00	GAB Gabbro Typical Wisner Gabbro.									

LITHOLOGY REPORT
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Hole Number **WIS-179**

Project: **WISNER_GLENCORE NRJV**

Project Number: **642**

<i>From</i> (m)	<i>To</i> (m)	<i>Lithology</i>	<i>Sample #</i>	<i>From</i>	<i>To</i>	<i>Length</i>	<i>Au</i> (g/t)	<i>Pt</i> (g/t)	<i>Pd</i> (g/t)	<i>Ni</i> (%)	<i>Cu</i> (%)	
191.00	220.92	SDBX Sudbury Breccia Wisner Gabbro host with a lot of partial melt veins. Heavily altered from 193-201m with minor disseminated and blebby Cpy+Py. Banded throughout up to 201m as well. Up to 20% SDBX matrix. Hot Breccia	Sudbury Breccia : 2B2	P448963	193.00	194.50	1.50	0.00	0.00	0.00	0.01	0.00
				P448964	194.50	196.00	1.50	0.05	0.00	0.00	0.01	0.01
				P448965	196.00	197.50	1.50	0.06	0.01	0.01	0.01	0.02
				P448966	197.50	199.00	1.50	0.01	0.00	0.00	0.01	0.00
				P448967	199.00	200.48	1.48	0.01	0.00	0.00	0.01	0.01
220.92	220.93	EOH End of Hole	Sudbury Breccia :									

DRILL HOLE REPORT

Hole Number **WIS-180**

Project: **WISNER_GLENCORE NRJV**

Project Number: **642**

Drilling	Casing	Core	Location	Other
Azimuth: 62.3	Length: 0	Dimension: NQ	Township: WISNER	Logged by: Györgyi Tuba
Dip: -78.4	Pulled: no	Storage: Core Shed	Claim No.: 984643	Relog by:
Length: 207.15	Capped: yes	Section:	NTS:	Contractor: Jacob & Samuel Drilling Ltd.
Started: 19-Oct-14	Cemented: no	Hole Type DD	Hole: SURFACE	Spotted by: Dave Coventry
Completed: 21-Oct-14				Surveyed: yes
Logged: 21-Oct-14				Surveyed by: Wallbridge
Comment:				Geophysics: None
		Coordinate - Gemcom	Coordinate - UTM	Geophysic Contractor:
		East: 498441	East: 498441	Left in hole: Nothing
		North: 5178080	North: 5178080	Making water: no
		Elev.: 402	Elev.: 402	Multi shot survey: no
			Zone: 17 NAD: 27	

Deviation Tests

<i>Distance</i>	<i>Azimuth</i>	<i>Dip</i>	<i>Type</i>	<i>Good</i>	<i>Comments</i>
0.00	62.30	-78.40	C	<input checked="" type="checkbox"/>	
15.00	62.30	-78.40	F	<input checked="" type="checkbox"/>	5538
66.00	62.30	-78.30	F	<input checked="" type="checkbox"/>	5229
117.00	60.00	-78.20	F	<input checked="" type="checkbox"/>	5387
168.00	61.40	-78.10	F	<input checked="" type="checkbox"/>	5311
207.00	59.70	-78.20	F	<input checked="" type="checkbox"/>	5426

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Hole Number **WIS-180**

Project: **WISNER_GLENCORE NRJV**

Project Number: **642**

<i>From</i> (m)	<i>To</i> (m)	<i>Lithology</i>		<i>Sample #</i>	<i>From</i>	<i>To</i>	<i>Length</i>	<i>Au</i> (g/t)	<i>Pt</i> (g/t)	<i>Pd</i> (g/t)	<i>Ni</i> (%)	<i>Cu</i> (%)
0.00	0.90	CAS	Casing									
0.90	5.28	GAB	Gabbro									
5.28	11.48	SDBX	Sudbury Breccia									
11.48	15.36	GAB	Gabbro									

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Project: **WISNER_GLENCORE NRJV**

Project Number: **642**

<i>From</i> (m)	<i>To</i> (m)	<i>Lithology</i>	<i>Sample #</i>	<i>From</i>	<i>To</i>	<i>Length</i>	<i>Au</i> (g/t)	<i>Pt</i> (g/t)	<i>Pd</i> (g/t)	<i>Ni</i> (%)	<i>Cu</i> (%)
15.36	29.90	DIA Diabase Sudbury Breccia : Medium-grained, massive DIA with ~3% fsp phenocrysts/porphyroblasts. Moderately magnetic. Trace SDBX with very small, mafic clasts (2A4). Common PM veinlets (irregular, few cm in size).									
29.90	32.25	SDBX Sudbury Breccia Sudbury Breccia : 2A4 Same style as SDBX above (wispy pm, small clasts, etc.) Cutting DIA from 31.20m. 30.37-31.05m: trace py with possible cpy in pm.									
32.25	68.63	GAB Gabbro Sudbury Breccia : Heterogeneous, moderately gneissic GAB (as above). Trace SDBX with fine-grained matrix, small clasts and PM, mostly in irregular veinlets. PM occasionally show up in GAB, too (miarolitic cavities occasionally filled by py or magnetite). Possible small structure from 45.50-45.57 m: BC with remnants of									
68.63	69.90	MNZ Monzonite Sudbury Breccia : PEG to 69.20 that gradually changes into MNZ-monzogabbro. 3% SDBX (irregular veinlets). Lower contact is hard to establish as GAB is hem-stained, too, and slightly gneissic. Possible gradual contact.									

LITHOLOGY REPORT
- Detailed -

Hole Number **WIS-180**

Project: **WISNER_GLENCORE NRJV**

Project Number: **642**

<i>From</i> (m)	<i>To</i> (m)	<i>Lithology</i>	<i>Sample #</i>	<i>From</i>	<i>To</i>	<i>Length</i>	<i>Au</i> (g/t)	<i>Pt</i> (g/t)	<i>Pd</i> (g/t)	<i>Ni</i> (%)	<i>Cu</i> (%)
69.90	76.74	GAB Gabbro Pushing the limits to mafic gneiss, especially from 73.30 m downhole. Ttrace SDBX.									
76.74	79.41	SDBX Sudbury Breccia Same style as SDBX above. Lots of PM, no sulphide visible.				2A4					
79.41	84.10	GAB Gabbro Same style as GAB above but a little bit less gneissic.									
84.10	88.20	SDBX Sudbury Breccia Same SDBX as above, with lots of PM. Trace CPY at 85.46m in PM.				2A4					

LITHOLOGY REPORT
- Detailed -

Hole Number **WIS-180**

Project: **WISNER_GLENCORE NRJV**

Project Number: **642**

<i>From</i> (m)	<i>To</i> (m)	<i>Lithology</i>	<i>Sample #</i>	<i>From</i>	<i>To</i>	<i>Length</i>	<i>Au</i> (g/t)	<i>Pt</i> (g/t)	<i>Pd</i> (g/t)	<i>Ni</i> (%)	<i>Cu</i> (%)
88.20	119.71	GAB Gabbro Sudbury Breccia : Nice, relatively homogeneous, massive, coarse-grained GAB, not the gneissic variety. 97.19-97.82 m: BC/blocky, joint zone with hem-cc coating (slicken sides> 30 CW on 20-TCA surface; 180 CW on 40-TCA surface). 1% SDBX (style as above). Occasional PM veins (large, several cm wide, m/c's filled by cc-ep +/-magnetite).									
119.71	119.95	STRC Structure Sudbury Breccia : Relatively small strc but very similar to that in WIS-178 ~190 m (tension gashes (~80 TCA) filled by cc). 119.74-119.76 m: 2 cm wide qtz-cc vein (~85 TCA).									
119.95	127.85	GAB Gabbro Sudbury Breccia : Heterogeneous, slightly gneissic (with fine-grained sections up to 1 m); more felsic than the GAB above. 5% SDBX (style as above) with PM.									
127.85	128.24	STRC Structure Sudbury Breccia : Another structure that is similar to that in WIS-178, more significant than the one at 119.71 m. At GAB/DIA contact (tectonic contact?). 127.85-127.88: Qtz+/-cc-filled vuggy vein, 85 TCA.									

LITHOLOGY REPORT
- Detailed -

Hole Number **WIS-180**

Project: **WISNER_GLENCORE NRJV**

Project Number: **642**

<i>From</i> (m)	<i>To</i> (m)	<i>Lithology</i>	<i>Sample #</i>	<i>From</i>	<i>To</i>	<i>Length</i>	<i>Au</i> (g/t)	<i>Pt</i> (g/t)	<i>Pd</i> (g/t)	<i>Ni</i> (%)	<i>Cu</i> (%)
128.24	130.70	DIA Diabase Sudbury Breccia : Medium-grained, massive, homogeneous DIA (or a fine-grained band of the gneissic GAB?).									
130.70	138.10	SDBX Sudbury Breccia Sudbury Breccia : 2A4 In DIA down to 134.24, then in GAB. Most of the clasts are strongly deformed, elongated; matrix with lots of PM wisps and pockets of all sizes (+/- trace py). 133.12-133.36m: qtz vein with dark halo (1 cm vein, 3 mm halo; 20 TCA) with trace CPY cutting SDBX.									
138.10	145.00	GAB Gabbro Sudbury Breccia : Relatively homogeneous, massive, coarse-grained, unaltered GAB. Trace SDBX. 144.00-144.25: PM with ep in miarolitic cavities.									
145.00	151.70	SDBX Sudbury Breccia Sudbury Breccia : 2A4 Up to 75% SDBX, as above with deformed clasts and PM (abundant, py occasionally appears in m/c's).									

LITHOLOGY REPORT
- Detailed -

Hole Number **WIS-180**

Project: **WISNER_GLENCORE NRJV**

Project Number: **642**

<i>From</i> (m)	<i>To</i> (m)	<i>Lithology</i>	<i>Sample #</i>	<i>From</i>	<i>To</i>	<i>Length</i>	<i>Au</i> (g/t)	<i>Pt</i> (g/t)	<i>Pd</i> (g/t)	<i>Ni</i> (%)	<i>Cu</i> (%)
		Trace CPY in PM veinlet at 145.30 m.									
151.70	156.41	GAB <i>Gabbro</i> As above.									
156.41	164.08	SDBX <i>Sudbury Breccia</i> 45-50% SDBX; as above with PM and deformed clasts.				2AD4					
164.08	207.14	GAB <i>Gabbro</i> To 173.20m: inhomogeneous, quite gneissic with finer-grained bands, slightly altered. To EOH: coarser-grained, more mafic, more homogeneous GAB with 1% py. Trace SDBX (style as above). 172.26-173.00: PEG, pm'd in patches with ep-amph-cc in m/c's. PM is common, from cm to >10 cm sections usually; amph+/-cc+/-ep+/-py in m/c's. Massive PM from 174.15-176.00 m.									

LITHOLOGY REPORT
- Detailed -

Hole Number **WIS-180**

Project: **WISNER_GLENCORE NRJV**

Project Number: **642**

<i>From</i> (m)	<i>To</i> (m)	<i>Lithology</i>	<i>Sample #</i>	<i>From</i>	<i>To</i>	<i>Length</i>	<i>Au</i> (g/t)	<i>Pt</i> (g/t)	<i>Pd</i> (g/t)	<i>Ni</i> (%)	<i>Cu</i> (%)
207.14	207.15	EOH <i>End of Hole</i>									
<i>Sudbury Breccia :</i>											

DRILL HOLE REPORT

Hole Number **WIS-181**

Project: **WISNER_GLENCORE NRJV**

Project Number: **642**

Drilling	Casing	Core	Location	Other
Azimuth: 8.2	Length: 0	Dimension: NQ	Township: WISNER	Logged by: Györgyi Tuba
Dip: -45.6	Pulled: no	Storage: Core Shed	Claim No.: 984643	Relog by:
Length: 128.82	Capped: yes	Section:	NTS:	Contractor: Jacob & Samuel Drilling Ltd.
Started: 21-Oct-14	Cemented: no	Hole Type DD	Hole: SURFACE	Spotted by: Tom Johnson
Completed: 22-Oct-14				Surveyed: yes
Logged: 29-Oct-14				Surveyed by: Wallbridge
Comment:				Geophysics: None
		Coordinate - Gemcom	Coordinate - UTM	Geophysic Contractor:
		East: 498398	East: 498398	Left in hole: Nothing
		North: 5178111	North: 5178111	Making water: no
		Elev.: 404	Elev.: 404	Multi shot survey: no
			Zone: 17 NAD: 27	

Deviation Tests

<i>Distance</i>	<i>Azimuth</i>	<i>Dip</i>	<i>Type</i>	<i>Good</i>	<i>Comments</i>
0.00	8.20	-45.60	C	<input checked="" type="checkbox"/>	
17.00	8.20	-45.60	F	<input checked="" type="checkbox"/>	5509
68.00	8.60	-46.00	F	<input checked="" type="checkbox"/>	5379
119.00	7.70	-45.70	F	<input checked="" type="checkbox"/>	5361

LITHOLOGY REPORT
- Detailed -

Hole Number **WIS-181**

Project: **WISNER_GLENCORE NRJV**

Project Number: **642**

<i>From</i> (m)	<i>To</i> (m)	<i>Lithology</i>		<i>Sample #</i>	<i>From</i>	<i>To</i>	<i>Length</i>	<i>Au</i> (g/t)	<i>Pt</i> (g/t)	<i>Pd</i> (g/t)	<i>Ni</i> (%)	<i>Cu</i> (%)
0.00	2.00	CAS	Casing									
2.00	20.30	GAB	Gabbro									
20.30	25.38	DIA	Diabase									
25.38	27.91	GAB	Gabbro									

LITHOLOGY REPORT
- Detailed -

Hole Number **WIS-181**

Project: **WISNER_GLENCORE NRJV**

Project Number: **642**

<i>From</i> (m)	<i>To</i> (m)	<i>Lithology</i>	<i>Sample #</i>	<i>From</i>	<i>To</i>	<i>Length</i>	<i>Au</i> (g/t)	<i>Pt</i> (g/t)	<i>Pd</i> (g/t)	<i>Ni</i> (%)	<i>Cu</i> (%)
27.91	29.27	SDBX Sudbury Breccia ~40% SDBX in GAB. All the large clasts are GAB, small ones are deformed with occasional wispy PM. No sulphide visible.									
29.27	33.53	STRC Structure In DIA with some SDBX (structure cuts SDBX). Sheared and occasionally broken interval; possible structure zone but its significance is questionable; offset along it is probably negligible. Altogether it is a structure with several phases or an altered zone that was reactivated. 29.27-29.82 m: fracture running 10 to parallel TCA, loose hematite coating w/o apparent FG. 29.56-30.72 m: Clast-supported breccia with f/g ep "matrix" (very similar to bx-textured regional ep vein swarm). Few-cm shear veins occur in the bx (20 TCA). 29.50-30.37 m: chl-cc-hem veins, irregular and thin (1-2 mm typically), they cut the ep bx above. 33.00-33.53 m: another ep zone (w/o cc-chl veins), much weaker than the one above. Between the highlighted intervals DIA is somewhat altered (few narrow and weak ep shear zones, very few <mm chl-cc).									
33.53	35.61	DIA Diabase M/g DIA with occasional ~1 cm wide ep shear zones (weak).									

LITHOLOGY REPORT
- Detailed -

Hole Number **WIS-181**

Project: **WISNER_GLENCORE NRJV**

Project Number: **642**

<i>From</i> (m)	<i>To</i> (m)	<i>Lithology</i>	<i>Sample #</i>	<i>From</i>	<i>To</i>	<i>Length</i>	<i>Au</i> (g/t)	<i>Pt</i> (g/t)	<i>Pd</i> (g/t)	<i>Ni</i> (%)	<i>Cu</i> (%)
35.61	36.67	SDBX Sudbury Breccia Very small DIA clasts, f/g matrix, cuts DIA. It is really one vein running parallel TCA; ~30% SDBX. With occasional shear-type ep zones.									
36.67	41.84	DIA Diabase Same DIA as above. 36.67-36.93 m: 2 cc-hem-chl veins (1: 15 TCA, strong slickensides 130 CW, possible normal based on weak steps; 2: 40 TCA cc-hem). Similar from 40.08-40.20 m (BC, cc-hem vein, 40 TCA).									
41.84	42.95	SDBX Sudbury Breccia Typical hot SDBX cut by narrow act vein (1 vein) and shear-type ep veins. GAB dominates among both large and small clasts.									
42.95	43.52	STRC Structure CC-qtz-hem-filled tension gashes; variable angles but dominantly 45 TCA. Apart from a small handfull of gravel-sized core, no larger structure is associated with the gashes (probably fringe zone of a nearby fault).									

LITHOLOGY REPORT
- Detailed -

Hole Number **WIS-181**

Project: **WISNER_GLENCORE NRJV**

Project Number: **642**

<i>From</i> (m)	<i>To</i> (m)	<i>Lithology</i>	<i>Sample #</i>	<i>From</i>	<i>To</i>	<i>Length</i>	<i>Au</i> (g/t)	<i>Pt</i> (g/t)	<i>Pd</i> (g/t)	<i>Ni</i> (%)	<i>Cu</i> (%)
43.52	62.45	DIA Diabase Sudbury Breccia : F/g and moderately magnetic, to m/g and weak to no magnetism; massive. Occasional PM with ep-cc+/- amph in miarolitic cavities; no sulphide.									
62.45	66.43	SDBX Sudbury Breccia Sudbury Breccia : 2A4 In GAB from 64.19 m; large GAB clasts dominate. Hot SDBX with wispy to vein PM and strongly deformed clasts. No sulphide.									
66.43	70.48	DIA Diabase Sudbury Breccia : F/g (moderately magnetic) to m/g (weak or no magnetism). Massive, same as above. Occasional weak shear-type ep swarms.									
70.48	114.82	GAB Gabbro Sudbury Breccia : C/g, massive, homogeneous GAB. Occasionally cut by PEG (10-20 cm veins). 93.79-94.18 m: PEG with									

LITHOLOGY REPORT
- Detailed -

Hole Number **WIS-181**

Project: **WISNER_GLENCORE NRJV**

Project Number: **642**

<i>From</i> (m)	<i>To</i> (m)	<i>Lithology</i>	<i>Sample #</i>	<i>From</i>	<i>To</i>	<i>Length</i>	<i>Au</i> (g/t)	<i>Pt</i> (g/t)	<i>Pd</i> (g/t)	<i>Ni</i> (%)	<i>Cu</i> (%)
		1-2 cm amph-fsp. Abundant PM veins.									
114.82	119.00	SDBX <i>Sudbury Breccia</i> ~25%, with clats of PEG. 118.25-119.62: hem-cc-chl vein (10 to parallel TCA), slickensides on 15 TCA surface 145 CW (moderate).	Sudbury Breccia :			2AD4					
119.00	128.81	GAB <i>Gabbro</i> Same as GAB above. 119.91-121.34: GR PEG, 1-2 cm amph+ fsp-qtz.	Sudbury Breccia :								
128.81	128.82	EOH <i>End of Hole</i>	Sudbury Breccia :								

DRILL HOLE REPORT

 Hole Number **WIS-182**

 Project: **WISNER_GLENCORE NRJV**

 Project Number: **642**

Drilling	Casing	Core	Location	Other
Azimuth: 246.2	Length: 0	Dimension: NQ	Township: WISNER	Logged by: Györgyi Tuba
Dip: -44.8	Pulled: no	Storage: Core Shed	Claim No.: 984643	Relog by:
Length: 302.45	Capped: yes	Section:	NTS:	Contractor: Jacob & Samuel Drilling Ltd.
Started: 22-Oct-14	Cemented: no	Hole Type DD	Hole: SURFACE	Spotted by: Tom Johnson
Completed: 25-Oct-14				Surveyed: yes
Logged: 31-Oct-14				Surveyed by: Wallbridge
Comment:				Geophysics: BHEM
		Coordinate - Gemcom	Coordinate - UTM	Geophysic Contractor:
		East: 498425.4	East: 498424	Left in hole: Nothing
		North: 5178132	North: 5178136	Making water: no
		Elev.: 400.92	Elev.: 400	Multi shot survey: no
			Zone: 17 NAD: 27	

Deviation Tests

Distance	Azimuth	Dip	Type	Good	Comments
0.00	246.20	-44.80	C	<input checked="" type="checkbox"/>	
14.00	246.20	-44.80	F	<input checked="" type="checkbox"/>	5361
65.00	246.00	-45.10	F	<input checked="" type="checkbox"/>	5359
116.00	252.50	-44.70	F	<input checked="" type="checkbox"/>	5392
167.00	245.90	-45.00	F	<input checked="" type="checkbox"/>	5430
218.00	250.70	-44.80	F	<input checked="" type="checkbox"/>	5385
269.00	246.50	-44.90	F	<input checked="" type="checkbox"/>	5410
302.00	252.80	-44.80	F	<input checked="" type="checkbox"/>	5298

LITHOLOGY REPORT
- Detailed -

Hole Number **WIS-182**

Project: **WISNER_GLENCORE NRJV**

Project Number: **642**

<i>From</i> (m)	<i>To</i> (m)	<i>Lithology</i>		<i>Sample #</i>	<i>From</i>	<i>To</i>	<i>Length</i>	<i>Au</i> (g/t)	<i>Pt</i> (g/t)	<i>Pd</i> (g/t)	<i>Ni</i> (%)	<i>Cu</i> (%)
0.00	1.05	CAS	Casing									
				Sudbury Breccia :								
1.05	29.04	GAB	Gabbro									
				Sudbury Breccia :								
				C/g, moderately magnetic GAB. Po patches from 8.30-8.46 m (with possible f/g magnetite). Zones of pervasive ep, 40-70 TCA, typically 10-20 cm wide, +/- sulphide; very sharp boundaries marked by chl veins/joints, pervasive ep restricted to the core between the veins.								
				CPY mineralization:								
				11.71-11.74: trace dissem cpy in vein with greenish-gray ep selvage, found within a perv ep zone.								
				14.89-14.92: same as above								
				15.22-15.31: trace dissem cpy along chl vein with extensive ep halo								
				16.75-17.17: dissem and small patches								
				17.64-17.74: trace dissem cpy in zones of submm, dark veins (40 TCA)								
				18.73-19.02: trace cpy. Fracture-controlled, along submm cracks with mm greyish-green halo (10-20 TCA)								
				20.00-20.44: trace cpy, fr-controlled, 25 TCA + very fine dissem (greyish, few-mm ep patches with submm cpy grains) that is located within a pervasive ep zone. In some places cpy appears in chl veins that seem to have remobilized it.								
				21.63: possible trace cpy in pervasive ep halo of a chl-ep vein (15 TCA)								
				23.26-23.67: trace cpy, mostly dissem (occurring in 50 TCA dark, altered zone)+ fr-controlled (20 TCA								
29.04	32.20	SDBX	Sudbury Breccia									
				Sudbury Breccia :								
				2A3								
				Hot SDBX with small, mostly deformed clasts and lots of PM veins and patches in matrix (m/c's filled by ep-amph+/-py). 29.72: trace CPY in PM.								

LITHOLOGY REPORT
- Detailed -

Hole Number **WIS-182**

Project: **WISNER_GLENCORE NRJV**

Project Number: **642**

<i>From</i> (m)	<i>To</i> (m)	<i>Lithology</i>	<i>Sample #</i>	<i>From</i>	<i>To</i>	<i>Length</i>	<i>Au</i> (g/t)	<i>Pt</i> (g/t)	<i>Pd</i> (g/t)	<i>Ni</i> (%)	<i>Cu</i> (%)
32.20	42.58	GAB Gabbro Sudbury Breccia : Same GAB as above. Trace sulph (py?) in 20-40-TCA ep-chl veins (1-2 mm) from 38.09-38.75 m.									
42.58	45.09	DIA Diabase Sudbury Breccia : F/g, mod magnetic. 42.76-42.80: cc-cem, slightly hem-stained tectonic breccia (matrix-supported); slickensides on 50-TCA surface at 135 CW (moderate); belongs to underlying fault zone. CPY mineralization: 43.10-43.60: trace cpy in ep veins (50 TCA) 44.86-45.00: 1 % cpy in ep veins (50 TCA)									
45.09	46.19	FLT Fault Sudbury Breccia : In DIA. Main zone is from 45.80-46.10: cc-hem-cem FG, moderately- to well-cemented, 30-40 TCA. Another two cc-hem veins at 45.09-45.15 and 45.29-45.33 m (1-2 cm).									
46.19	55.20	DIA Diabase Sudbury Breccia : F/g, homogeneous, strongly magnetic. Trace CPY in ep veins down to 50.85 m. 47.33-47.44: cc-hem-cemented vein with DIA fragments, distal part of FLT zone above (40 TCA). 1% SDBX, abundant PM									

LITHOLOGY REPORT
- Detailed -

Hole Number **WIS-182**

Project: **WISNER_GLENCORE NRJV**

Project Number: **642**

<i>From</i> (m)	<i>To</i> (m)	<i>Lithology</i>	<i>Sample #</i>	<i>From</i>	<i>To</i>	<i>Length</i>	<i>Au</i> (g/t)	<i>Pt</i> (g/t)	<i>Pd</i> (g/t)	<i>Ni</i> (%)	<i>Cu</i> (%)
		pockets (amph+/-ep+/-cc-filled).									
55.20	76.10	GAB Gabbro Sudbury Breccia : Medium- to coarse-grained, very inhomogeneous, gneissic GAB, moderately magnetic. Trace CPY at 60.38m (1 speck, surrounded by ep halo), 74.12-74.22 (in ep vein, 1 mm, 50 TCA, and along fracture).									
76.10	81.40	SDBX Sudbury Breccia Sudbury Breccia : In GAB, ~20%, matrix hard to be distinguished from fine-grained bands of GAB. Trace CPY: 76.37: in PM in SDBX matrix 79.72: in SDBX, partially replaced by f/g ep (40 TCA) + 79.75: 5% py in <1mm ep vein (35 TCA) 80.54: in 2 mm bx(?) vein (dark grey, might be some ep in it), 45 TCA	2A4								
81.40	82.84	STRC Structure Sudbury Breccia : In SDBX. Jointed (30 TCA) down to 82.62 (loose hem+/-cc-chl coating), then gravel-sized rubble (some of it is because torquing) + very poorly cemented FG (hem-clay). 30 TCA (main zone). Very faint slickensides on 25 TCA surface at 160 CW (ss's are not visible anywhere else). Very fine ep veining parallel to joint and FG in main zone.									

LITHOLOGY REPORT
- Detailed -

Hole Number **WIS-182**

Project: **WISNER_GLENCORE NRJV**

Project Number: **642**

<i>From</i> (m)	<i>To</i> (m)	<i>Lithology</i>	<i>Sample #</i>	<i>From</i>	<i>To</i>	<i>Length</i>	<i>Au</i> (g/t)	<i>Pt</i> (g/t)	<i>Pd</i> (g/t)	<i>Ni</i> (%)	<i>Cu</i> (%)
82.84	109.53	DIA Diabase Sudbury Breccia : Fine-grained, homogeneous, massive DIA, mod to strong magnetism. Trace SDBX (2A4), very rare PM.									
109.53	131.52	GAB Gabbro Sudbury Breccia : Alternating coarse-grained and medium-grained, gneissic intervals alternate. PM veins and pockets common, up to 10 cm in width, m/c's filled with ep. Few <5 mm qtz-cc+/-hem veins occur (40-50 TCA). 112.72-112.84: cc-qtz veins (3 pc) up to 1 cm, 35-45 TCA. Trace CPY at 116.81 m, along a 5-10-TCA hairline vein (with slight hem halo). 118.32-118.42: 40-50 TCA qtz-cc-chl vein cutting pervasively ep altered GAB (ep'd pieces in vein), euhedral, up to 5 mm drusy qtz, syntaxial texture; cut by (?) well-cem, 4-mm tectonic bx (hem-cc cement). 118.82-119.10: strong pervasive ep alteration with 1-2 mm chl-qtz veins (45 TCA); few-cm zones similar to this are found down to 120.54. These zones are similar in appearance to the cpy-bearing ep-chl zones at the top of the hole and can be found down to 131.00 m (about 2 cm zones, 40-50 TCA). 121.64-121.82: py dissem with greyish ep halo in such an ep zone. Trace cpy(?) at 130.61 in 1 mm ep vein that is cut by these mm-sized chl-cc-hem veins.									
131.52	148.05	DIA Diabase Sudbury Breccia : 5% fsp porphyroblasts, massive, f/g, mod to strong magn. 5-10-TCA PM veins (m/c's filled by ep+/-py), common. Occasional 40-50 qtz veins.									

LITHOLOGY REPORT
- Detailed -

Hole Number **WIS-182**

Project: **WISNER_GLENCORE NRJV**

Project Number: **642**

<i>From</i> (m)	<i>To</i> (m)	<i>Lithology</i>	<i>Sample #</i>	<i>From</i>	<i>To</i>	<i>Length</i>	<i>Au</i> (g/t)	<i>Pt</i> (g/t)	<i>Pd</i> (g/t)	<i>Ni</i> (%)	<i>Cu</i> (%)
148.05	302.44	GAB Gabbro Massive, relatively homogeneous, basically unaltered GAB, coarse-grained, moderate magnetism. PM significant (trace py common, PEG are usually pm'd, some PM at every 3 m of core, including): 160.90-160.97 (with 5% patchy py, 50 TCAM 1 cm wide), 164.85-165.48 (lower contact 50 TCA, upper 15 TCA), 179.41-179.55 (pm'd PEG, 6% magnetite in m/c's), 198.84 (with 2% py), 204.55-204.90 (massive), 208.73-209.57 (massive, pm'd PEG, 15 TCA), 248.62-248.87 (pre-Sudbury pervasive epidote zone that was cut by PM, unaltered). CPY in ep vein at 192.16 (1%, 70 TCA) and 192.49 (trace, 60 TCA). 230.45-231.00: ~30TCA Qtz-hem veins, some are bx'ing the GAB. 236.10-236.59: BC due to torquing (NOT a structure).									
302.44	302.45	EOH End of Hole <i>Sudbury Breccia :</i>									

DRILL HOLE REPORT

Hole Number **WIS-183**

Project: **WISNER_GLENCORE NRJV**

Project Number: **642**

Drilling	Casing	Core	Location	Other
Azimuth: 245.2	Length: 0	Dimension: NQ	Township: WISNER	Logged by: Lindsay Hall
Dip: -45.3	Pulled: no	Storage: Core Shed	Claim No.: 984643	Relog by:
Length: 200.01	Capped: yes	Section:	NTS:	Contractor: Jacob & Samuel Drilling Ltd.
Started: 25-Oct-14	Cemented: no	Hole Type DD	Hole: SURFACE	Spotted by: Tom Johnson
Completed: 27-Oct-14				Surveyed: yes
Logged: 28-Oct-14				Surveyed by: Wallbridge
Comment:				Geophysics: None
		Coordinate - Gemcom	Coordinate - UTM	Geophysic Contractor:
		East: 498492.2	East: 498495	Left in hole: Nothing
		North: 5178147	North: 5178145	Making water: no
		Elev.: 401.56	Elev.: 412	Multi shot survey: no
			Zone: 17 NAD: 27	

Deviation Tests

Distance	Azimuth	Dip	Type	Good	Comments
0.00	245.20	-45.30	C	<input checked="" type="checkbox"/>	
17.00	245.20	-45.30	F	<input checked="" type="checkbox"/>	5510
68.00	242.70	-45.30	F	<input checked="" type="checkbox"/>	5527
119.00	246.60	-45.20	F	<input checked="" type="checkbox"/>	5569
170.00	248.40	-44.60	F	<input checked="" type="checkbox"/>	5393
200.00	251.50	-44.20	F	<input checked="" type="checkbox"/>	5421

LITHOLOGY REPORT
- Detailed -

Hole Number **WIS-183**

Project: **WISNER_GLENCORE NRJV**

Project Number: **642**

<i>From</i> (m)	<i>To</i> (m)	<i>Lithology</i>		<i>Sample #</i>	<i>From</i>	<i>To</i>	<i>Length</i>	<i>Au</i> (g/t)	<i>Pt</i> (g/t)	<i>Pd</i> (g/t)	<i>Ni</i> (%)	<i>Cu</i> (%)
0.00	1.00	CAS	Casing									
		Sudbury Breccia :										
1.00	31.85	DIA	Diabase									
		Sudbury Breccia :										
		Fine grained, homogeneous, dark grey to black, massive diabase that is moderately magnetic, rare (trace to 1%) creamy-white, irregular, 1cm feldspar phenocrysts (glomeroporphy) typical of Matchewan Dikes. Unevenly distributed, network of fine, straight 'regional' epidote (+/- quartz) veinlets ranging from 1mm to 2cm. Common but unevenly distributed veinlets and pockets of partial melt that amount to 3% of the mass of the core; pink PM veinlets display straight, sharp contacts, pockets somewhat wispy and gradational with the DIA; some PM pockets/veinlets contain disseminated, anhedral pyrite, locally calcite at core of PM. 5% SBX occurs in 3 x 30-50cm patches and some other finer veinlets, contacts with country rock are sharp; dark, fine grained matrix with relatively few wispy clasts (2A4). Three short intervals of clay gouge (at 9.43m with 2-3cm preserved gouge at 60TCA, at 23.45m is 3-4mm wide at 55TCA; at 25.85m is 1.5cm wide at 30TCA); at the 9.43m interval there is broken core and some core loss suggesting a potentially larger fault. CPY bleb at 31.05m.										
31.85	47.05	GAB	Gabbro									
		Sudbury Breccia :										
		Coarse grained, somewhat texturally heterogeneous, moderately magnetic (with visible trace to rare magnetite) gabbro that displays variably pinkish hematite staining of the plag minerals. Cut by locally abundant regional epidote and epidote-quartz veinlets and veins. Partial melt becomes increasingly more abundant down interval as pockets and veins up to 8cm wide with sharp contacts. Limited, small (1-2cm), discontinuous SDBX veins occur close to the bottom of the interval in proximity with the PM. Weakly disseminated, trace, fine grained, anhedral pyrite within the gabbro. No obvious sulphides in the PM or SDBX. At 42.95m is a short (3cm), pale salmon-coloured, pervasively calcite-flooded clay gouge with hematite at 30 TCA.										

LITHOLOGY REPORT
- Detailed -

Hole Number **WIS-183**

Project: **WISNER_GLENCORE NRJV**

Project Number: **642**

<i>From</i> (m)	<i>To</i> (m)	<i>Lithology</i>	<i>Sample #</i>	<i>From</i>	<i>To</i>	<i>Length</i>	<i>Au</i> (g/t)	<i>Pt</i> (g/t)	<i>Pd</i> (g/t)	<i>Ni</i> (%)	<i>Cu</i> (%)
47.05	50.25	SDBX Sudbury Breccia Sudbury Breccia : Gabbro cut by abundant (25% or more) SDBX veins that locally run sub-parallel to the core axis and are relatively abundantly cut by partial melt. The SDBX is hot, relatively light grey with wispy fragments with halos. 2B3									
50.25	93.35	GAB Gabbro Sudbury Breccia : Coarse grained, somewhat texturally heterogeneous (gneissic layering 66.5m to 68.5m, 81m to 86m in proximity with small diabase and granitic pegmatite dikes) moderately magnetic coarse grained gabbro that displays variably pinkish hematite staining of the plag minerals. Cut by 3 x 20cm wide pegmatitic granitoid dikes with abundant, coarse grained magnetite. Cut by a few small (10cm to 0.8m) diabase dikes. Rare regional epidote and epidote-quartz veinlets. Partial melt locally present near Sudbury Breccia as pockets and veins up to 8cm wide with sharp contacts, and near contacts between gabbro and diabase. SDBX abundant (10% of the upper 15m of the interval, less than 5% in the lower interval) in veins ranging from 2cm to 35cm. Hot, medium grey with wispy fragments and rare weak sulphides SDBX2B3. Actinolite and calcite veinlets (1mm) cut SDBX locally. CPY blebs at 79m and 84m and a band of disseminated, subhedral pyrite (3%) at 66.8m. The nice looking SDBX is sampled.									
93.35	95.55	SDBX Sudbury Breccia Sudbury Breccia : Approximately 30% SDBX in a contact zone between Gabbro and Diabase. Sharp contacts at top of interval and more diffuse contacts near the bottom. Medium grey, hot breccia with wispy, aligned to almost completely consumed, small fragments. Finely disseminated (1mm) relatively abundant (up to 1%), anhedral pyrite and very rare CPY. All lithologies cut by relatively rare regional epidote veinlets 1-	2A3								

LITHOLOGY REPORT
- Detailed -

Hole Number **WIS-183**

Project: **WISNER_GLENCORE NRJV**

Project Number: **642**

<i>From</i> (m)	<i>To</i> (m)	<i>Lithology</i>	<i>Sample #</i>	<i>From</i>	<i>To</i>	<i>Length</i>	<i>Au</i> (g/t)	<i>Pt</i> (g/t)	<i>Pd</i> (g/t)	<i>Ni</i> (%)	<i>Cu</i> (%)
		3mm. Entire interval was sampled.									
95.55	114.51	<p>GAB Gabbro Sudbury Breccia :</p> <p>Coarse grained, somewhat texturally heterogeneous, moderately magnetic, coarse grained gabbro that displays variably pinkish hematite staining of the plag minerals. Rare regional epidote and epidote-quartz veinlets and small patches of greenish epidote flooding. Partial melt locally present as pockets and veins up to 8cm wide with sharp contacts, and near contacts between gabbro and small diabase dikelets. SDBX present in veins ranging from 2cm to 25cm, approximately 5% of interval. Hot, medium grey with wispy fragments and rare weak sulphides SDBX2B3. Calcite veinlets/fracture fills (1-3mm) become more abundant down the interval. Calcite flooding associated with the underlying fault is pervasive and obscures the gabbroic texture in the lower 1.5m of interval. No CPY observed, but disseminated, fine pyrite occurs locally. Brick coloured hematite staining on some fractures, black to dark green, parallel, 1mm wide chlorite fracture-fills locally at 35 TCA and are cut by the regional epidote.</p>									
114.51	117.82	<p>FLT Fault Sudbury Breccia :</p> <p>5cm gouge zone with 15cm flanking of broken core at 115.45m. This discrete fault is flanked by pervasive calcite alteration zone and a well developed set of parallel tension gashes filled by pink calcite (2-5mm wide and occupying up to 5% of the core) occur below the gouge zone. Interpretation from the orientation is that the sigma three direction is parallel to the core axis. Dominant set of parallel tensional calcite veins are oriented at 35 TCA, while the near perpendicular ladder veinlets that are locally developed between the tension veinlets are oriented at 55 TCA and 110 (or 70) from the dominant set with the acute angle (70) aligned with the core axis. Photo taken of tension gash arrays.</p>									

LITHOLOGY REPORT
- Detailed -

Hole Number **WIS-183**

Project: **WISNER_GLENCORE NRJV**

Project Number: **642**

<i>From</i> (m)	<i>To</i> (m)	<i>Lithology</i>	<i>Sample #</i>	<i>From</i>	<i>To</i>	<i>Length</i>	<i>Au</i> (g/t)	<i>Pt</i> (g/t)	<i>Pd</i> (g/t)	<i>Ni</i> (%)	<i>Cu</i> (%)
117.82	189.67	GAB Gabbro Coarse grained, somewhat texturally heterogeneous, moderately magnetic, coarse grained gabbro. Small, deformed pegmatite veins most common between 135m and 170m are locus of SDBX development. Small (<10cm) DIA dikes and patches occur near the bottom of the interval at contacts both fine PM and SDBX occur. SDBX present in veins ranging from 2cm to 25cm, approximately 5% of interval between 135m-170m, less prevalent between 117m-135m. Hot, medium grey with wispy fragments and rare weak sulphides SDBX2B3. Partial melt locally present as pockets and veins up to 8cm wide with sharp contacts, and near contacts between gabbro and SDBX or pegmatitic granite. Calcite veinlets/fracture fills (1-3mm) become more abundant down the interval. Small patches of green regional epidote flooding, rare veinlets. Blebby CPY and PY in SDBX and PM are relatively common trace minerals between 160m-168m, up to 3-4mm. At 179.5m there is a 1cm wide hem-chlor-carb+/-qtz 'hydrothermal' vein (30TCA) with slicks at an intermediate angle to the vein orientation (relative to core axis) indicating a dynamic environment at time of deposition. At 182m-183m is a 0.8cm-1cm wide SDBX veinlet that weaves down the core axis and tapers out top and bottom; relatively abundant sulfides (py+/-cpy) within the vein; cut by sigmoidal tension gashes filled with calcite (Photo). Indicates sigma 3 direction sub-parallel to TCS (at around 20TCA) as above at fault.									
189.67	200.00	DIA Diabase Dark grey-green, fine to medium grained, highly magnetic diabase with small veinlets and patches of partial melt and veins of SDBX up to 25cm wide. Weakly disseminated pyrite (tr) throughout. Contact with overlying GAB is sharp but uneven and runs at approximately 38TCA (possible vertical marker?).									
200.00	200.01	EOH End of Hole 									

LITHOLOGY REPORT
- Detailed -

Hole Number **WIS-183**

Project: **WISNER_GLENCORE NRJV**

Project Number: **642**

<i>From</i> (m)	<i>To</i> (m)	<i>Lithology</i>	<i>Sample #</i>	<i>From</i>	<i>To</i>	<i>Length</i>	<i>Au</i> (g/t)	<i>Pt</i> (g/t)	<i>Pd</i> (g/t)	<i>Ni</i> (%)	<i>Cu</i> (%)
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DRILL HOLE REPORT

 Hole Number **WIS-184**

 Project: **WISNER_GLENCORE NRJV**

 Project Number: **642**

Drilling	Casing	Core	Location	Other
Azimuth: 356	Length: 0	Dimension: NQ	Township: WISNER	Logged by: Lindsay Hall
Dip: -74.9	Pulled: no	Storage: Core Shed	Claim No.: 984643	Relog by:
Length: 546.61	Capped: yes	Section:	NTS:	Contractor: Jacob & Samuel Drilling Ltd.
Started: 27-Oct-14	Cemented: yes	Hole Type DD	Hole: SURFACE	Spotted by: Tom Johnson
Completed: 04-Nov-14				Surveyed: yes
Logged: 31-Oct-14				Surveyed by: Wallbridge
Comment: Logged by Gy. Tuba to 67.58 m. Cemented 87-99 and 227-237m.			Coordinate - Gemcom	Geophysics: BHEM
			East: 498423.8	Geophysic Contractor:
			North: 5178083	Left in hole: Nothing
			Elev.: 404.36	Making water: no
				Multi shot survey: no
			Coordinate - UTM	
			East: 498420	
			North: 517880	
			Elev.: 403	
			Zone: 17	
			NAD: 27	

Deviation Tests

Distance	Azimuth	Dip	Type	Good	Comments
0.00	356.00	-74.90	C	<input checked="" type="checkbox"/>	
15.00	356.00	-74.90	F	<input checked="" type="checkbox"/>	5331
66.00	356.00	-75.40	F	<input checked="" type="checkbox"/>	5168
117.00	0.20	-75.60	F	<input checked="" type="checkbox"/>	5387
168.00	358.20	-75.60	F	<input checked="" type="checkbox"/>	5211
219.00	2.20	-75.00	F	<input checked="" type="checkbox"/>	5208
270.00	359.10	-75.30	F	<input checked="" type="checkbox"/>	5378
321.00	356.80	-75.00	F	<input checked="" type="checkbox"/>	5439
423.00	0.00	-74.90	F	<input checked="" type="checkbox"/>	5134
474.00	1.10	-74.70	F	<input checked="" type="checkbox"/>	5486
531.00	0.90	-74.60	F	<input checked="" type="checkbox"/>	5503

LITHOLOGY REPORT
- Detailed -

Hole Number **WIS-184**

Project: **WISNER_GLENCORE NRJV**

Project Number: **642**

<i>From</i> (m)	<i>To</i> (m)	<i>Lithology</i>		<i>Sample #</i>	<i>From</i>	<i>To</i>	<i>Length</i>	<i>Au</i> (g/t)	<i>Pt</i> (g/t)	<i>Pd</i> (g/t)	<i>Ni</i> (%)	<i>Cu</i> (%)
0.00	0.79	CAS	Casing									
			Sudbury Breccia :									
0.79	5.65	SDBX	Sudbury Breccia									
			Sudbury Breccia :	2A3								
			GAB clasts dominate with DIA intermingled with GAB (possibly a brecciated GAB/DIA contact). Hot SDBX with wispy PM and ductilly deformed clasts with occasional py (trace, dissminated). Some clasts may contain cpy (very tiny, hard to tell). 5-cm PM vein at lower contact, ~85TCA.									
5.65	26.56	DIA	Diabase									
			Sudbury Breccia :									
			Fine-grained, massive, homogeneous, moderately magnetic DIA with ~5% fsp glomeroporpha. 1-2 cm wide, irregular PM veins are quite common (usually 30-50 TCA), miarolitic cavities are filled by amph+/-cc+/-ep+/-sulphide. 6.66-6.80: 1% CPY disseminated in PM (with trace py).									
26.56	76.31	GAB	Gabbro									
			Sudbury Breccia :									
			Slightly magnetic, very heterogeneous with gneissic intervals (strongly gneissic from 60.20 m). PM common with py in m/c's (36.65-36.90: 5% py in PM). 47.31-47.43: 3 cc-hem veins (up to 1 cm) with mm-sized bands of bx'd host (85TCA); another 2 from 48.82-48.97, ~1 cm veins (small, insignificant structure with very little movement if any at all).									

LITHOLOGY REPORT
- Detailed -

Hole Number **WIS-184**

Project: **WISNER_GLENCORE NRJV**

Project Number: **642**

<i>From</i> (m)	<i>To</i> (m)	<i>Lithology</i>	<i>Sample #</i>	<i>From</i>	<i>To</i>	<i>Length</i>	<i>Au</i> (g/t)	<i>Pt</i> (g/t)	<i>Pd</i> (g/t)	<i>Ni</i> (%)	<i>Cu</i> (%)
76.31	78.92	DIA Diabase Sudbury Breccia : Glomeroporphyritic (4-6mm) Matachewan diabase, fine-medium grained, mod to strongly magnetic. No SDBX observed. PM occurs in the bottom half of the interval as a single large patch and several fine (<1cm) veinlets. Unevenly distributed regional epidote veinlets.									
78.92	82.41	SDBX Sudbury Breccia Sudbury Breccia : 0.85m of 3.5m of core is SDBX (approx. 25%). Host rock is primarily heterogeneous GAB with a 40cm wide highly magnetic DIA within it. SDBX is fine grained, medium grey, fine biotite phenocrysts in matrix with very wispy and somewhat aligned fragments: 2B3. Partial melt pods and veinlets are concentrated at the contacts of the Gab and SDBX. No CP noted, some disseminate PY.									
82.41	93.50	GAB Gabbro Sudbury Breccia : Slightly magnetic, relatively homogeneous (for this unit), coarse grained gabbro. PM present 88-91m (5%) with trace py. Calcite flooding obscures primary gabbroic texture (89.6m-92.4m) and is likely related to underlying fault that also displays pervasive calcite alteration, but also corresponds well with zone where PM is present. Pink calcite-quartz veins at high angle (70 TCA) to core axis, one that cuts the main orientation at 55 TCA (but angle between 2 veins is 35) contains CP blebs.									

LITHOLOGY REPORT
- Detailed -

Hole Number **WIS-184**

Project: **WISNER_GLENCORE NRJV**

Project Number: **642**

<i>From</i> (m)	<i>To</i> (m)	<i>Lithology</i>	<i>Sample #</i>	<i>From</i>	<i>To</i>	<i>Length</i>	<i>Au</i> (g/t)	<i>Pt</i> (g/t)	<i>Pd</i> (g/t)	<i>Ni</i> (%)	<i>Cu</i> (%)
93.50	96.34	FLT Fault Sudbury Breccia : Two loci of movement with limited gouge and rubbly core (93.6m-96.85m and 96.1m-96.2m - with gouge) within the broader zone of alteration and fracture fill. The lithology is GAB with one 10cm SDBX vein at upper limit of the zone. The gabbro is pervasively calcite altered and displays abundant fine conjugate array (55 TCA are sigmoidal>> 70 TCA are rarer and straight)of calcite veinlets. Thick, pinkish quartz-calcite-hematite +/- chlorite veins cut close to normal to the core axis (80-85 TCA) at 94m-94.25m. Calcite and quartz-calcite veins and veinlets account for up to 10% of the core.									
96.34	139.95	GAB Gabbro Sudbury Breccia : Slightly magnetic, somewhat heterogeneous, coarse grained gabbro. Small pegmatitic granitoid dikes that locally look cooked up into the Gab. PM present as veins, patches and somewhat amorphose zones close to small SDBX veins and larger patches (up to 20cm). SDBX (2B3) veins and patches become more common toward the bottom of the interval. 126.4m - 127m Black looking tensional fracture fill of chlorite-quartz-hematite (identifiable only in scope) - no obvious carbonate, not actinolite - 1mm-8mm wide, runs down the core axis; provides alteration front for epidote. Sigma 3 direction from tensional jogs in the fracture is 35 TCA (Photo).									
139.95	151.00	SDBX Sudbury Breccia Sudbury Breccia : 1.95m SDBX total in 11m interval of GAB (15-20%). Some sharp but irregular contacts between SDBX and country rock, others almost gradational - looking rather ductile. Very limited PM in this interval (surprising!). SDBX is medium grey, fine grained with fine black biotite; fragments are wispy and small and seem very ductile and resorbed into the matrix : 2B3. Limited PY in PM in one of the breccias.									

LITHOLOGY REPORT
- Detailed -

Hole Number **WIS-184**

Project: **WISNER_GLENCORE NRJV**

Project Number: **642**

<i>From</i> (m)	<i>To</i> (m)	<i>Lithology</i>	<i>Sample #</i>	<i>From</i>	<i>To</i>	<i>Length</i>	<i>Au</i> (g/t)	<i>Pt</i> (g/t)	<i>Pd</i> (g/t)	<i>Ni</i> (%)	<i>Cu</i> (%)
151.00	168.45	GAB Gabbro Sudbury Breccia : Slightly magnetic, heterogeneous, coarse grained gabbro. Small pegmatitic granitoid dikes. Rare, narrow, sharp sided PM veins. One 3mm PM vein has some blebby CP. SDBX (2B3) veins and patches become more common toward the top of the interval. Trace, subhedral, disseminated PY locally developed in Gab (1-2mm) particularly in vicinity of PEG and the CP in PM. Narrow (3-5mm) quartz fracture fill runs sub-parallel to the core axis (167.3m-lower contact with DIA) similar to that seen at 126.5m carries a small (1mm) bleb of CP and limited py.									
168.45	171.64	DIA Diabase Sudbury Breccia : Dark grey-green, very fine grained, moderately to strongly magnetic Matachewan diabase, no glomeroporphy. Epidote and epidote-chlorite regional alteration present in irregular fractures. Rare, narrow (6mm-1cm), discontinuous 'veins' or elongate pods of PM locally present - no apparent CP. One small PM veinlet is truncated on a small ep-qz fracture (1-2mm) oriented 40 TCA at 171m.									
171.64	202.71	GAB Gabbro Sudbury Breccia : Mechanically ground core (by drilling) 191.25m - 191.7m; 197.5-199m. Coarse grained, texturally heterogeneous gabbro with 2 layers or dikes (.4m-.5m) of very fine grained, amphibolitic gabbro - non-magnetitic so not part of the Matachewan suite. Several, wide granitoid pegmatites dikes (up to 80cm wide) intruding gabbro commonly flanked by narrow SDBX zones. Local zones with limited PM. Quartz-carbonate flooding 'bleaches' the gabbro at 179.3-179.6m and 190.8m - 191.2m. Parallel pair of core-axis sub-parallel chlorite-epidote fracture fills in a tensional zone filled with epidote that bleeds into the gabbro between 182.5m - 183.3m (10 TCA). 3 cm Offset of leucosome in reverse sense relative TCA, fracture surface is 45 TCA.									

LITHOLOGY REPORT
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Hole Number **WIS-184**

Project: **WISNER_GLENCORE NRJV**

Project Number: **642**

<i>From</i> (m)	<i>To</i> (m)	<i>Lithology</i>	<i>Sample #</i>	<i>From</i>	<i>To</i>	<i>Length</i>	<i>Au</i> (g/t)	<i>Pt</i> (g/t)	<i>Pd</i> (g/t)	<i>Ni</i> (%)	<i>Cu</i> (%)
202.71	203.42	SDBX Sudbury Breccia 35% SDBX with irregular and locally indistinct contacts cutting gabbro at margins of pegmatitic granite dikes. Medium grey, 'hot', fine grained bx matrix with wispy fragments with indistinct margins with limited contained PM in the SDBX. No obvious CP in the breccia. 2B3.									
203.42	207.48	GAB Gabbro Coarse grained gabbro with pegmatitic granite dikes. Limited (2%) narrow SDBX veinlets within this unit. Tensional fractures with chlorite-calcite fill (1-2mm) at 20 TCA.									
207.48	208.05	SDBX Sudbury Breccia 30% SDBX with irregular and locally indistinct contacts cutting gabbro. Medium grey, 'hot', fine grained bx matrix with wispy fragments with indistinct margins with limited contained PM in the SDBX. No obvious CP in the breccia. 2B3.									
208.05	209.26	GAB Gabbro Sudbury Breccia :									

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Hole Number **WIS-184**

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<i>From</i> (m)	<i>To</i> (m)	<i>Lithology</i>	<i>Sample #</i>	<i>From</i>	<i>To</i>	<i>Length</i>	<i>Au</i> (g/t)	<i>Pt</i> (g/t)	<i>Pd</i> (g/t)	<i>Ni</i> (%)	<i>Cu</i> (%)
		Large fragment of coarse grained gabbro, variably altered with pinkish 'wash' (Hem) on feldspars. Tensional fractures (1mm) with calcite +/- chlorite at 15 TCA. No CP evident.									
209.26	211.37	SDBX Sudbury Breccia 70% SDBX with irregular and locally indistinct contacts cutting gabbro. Medium grey, 'hot', fine grained bx matrix with fine wispy fragments and larger cobble-sized fragments with indistinct margins. Some pebble sized fragments with irregular margins appear to be fragments of granitic pegmatite. No obvious CP in the breccia. 2B3. Tensional calcite-chlorite fracture fills (4mm and 6mm wide) cutting at 20 TCA and 30 TCA respectively.									
211.37	213.76	GAB Gabbro Coarse grained, somewhat texturally heterogeneous gabbro with pegmatitic granite (12cm) and narrow (1-3cm) SDBX veins amounting to <5% of core. 1 x 1mm tensional fracture with calcite and epidote fill at 15 TCA.									
213.76	214.96	SDBX Sudbury Breccia 70% SDBX with irregular and locally indistinct contacts cutting gabbro. Medium grey, 'hot', fine grained bx matrix with fine wispy fragments and larger cobble-sized fragments with indistinct margins. Some pebble sized fragments with irregular margins appear to be fragments of granitic pegmatite. No obvious CP in the breccia. 2B3. Patchily distributed fine dissemination of subhedral to anhedral pyrite. One black (biotite phenocryst?) rimmed with very fine pyrite (<1mm).									

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- Detailed -

Hole Number **WIS-184**

Project: **WISNER_GLENCORE NRJV**

Project Number: **642**

<i>From</i> (m)	<i>To</i> (m)	<i>Lithology</i>	<i>Sample #</i>	<i>From</i>	<i>To</i>	<i>Length</i>	<i>Au</i> (g/t)	<i>Pt</i> (g/t)	<i>Pd</i> (g/t)	<i>Ni</i> (%)	<i>Cu</i> (%)
214.96	215.96	GAB Gabbro Texturally heterogeneous, coarse grained gabbro with small, curvilinear patch of partial melt that transects gabbroic fabric at a high angle (75-80 degrees) and a 1.5cm wide vein of SDBX at 40 TCA. Tensional fractures with calcite (1mm) at 25 TCA.									
215.96	216.58	SDBX Sudbury Breccia 90% SDBX with finely disseminated, subhedral pyrite (1mm) 0.5%.									
216.58	224.57	GAB Gabbro Coarse grained, heterogeneous gabbro (locally approaching gneissic) with several broad pegmatitic granitic dikes with patches of partial melt (not mineralized). Cut by short diabase dikes (20cm and 5cm) at 219m and 222m, at the lower margin of the small one is a contact parallel veinlet of pyrite (2-3mm) and another 2cm lower of magnetite (1-2mm) parallel to the contact, pyrite is abundantly disseminated adjacent to the py veinlet and diminishes both up and down the interval over 15cm. Total py over the 30cm interval is 1-2%.									

LITHOLOGY REPORT
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Hole Number **WIS-184**

Project: **WISNER_GLENCORE NRJV**

Project Number: **642**

<i>From</i> (m)	<i>To</i> (m)	<i>Lithology</i>	<i>Sample #</i>	<i>From</i>	<i>To</i>	<i>Length</i>	<i>Au</i> (g/t)	<i>Pt</i> (g/t)	<i>Pd</i> (g/t)	<i>Ni</i> (%)	<i>Cu</i> (%)
224.57	230.45	DIA Diabase <i>Sudbury Breccia :</i> Fine grained with relatively fine (3-5mm) pale glomeroporphanes, dark grey, strongly magnetic Matachewan dike with a large gabbro fragment (227.37m - 227.81m) and a few pebble sized granitic pegmatite fragments entrained within it. The lower 30cm of the interval is subjected to calcite alteration in irregular tension gash style that are sub-parallel at 70 TCA associated with the underlying fault. Calcite is partially dissolved from the tension gashes.									
230.45	231.34	GAB Gabbro <i>Sudbury Breccia :</i> Layered gabbro and diabase (primarily gabbro) with limited SDBX near upper contact at 65 TCA. This mixed unit is cut by partially dissolved tensional pyrite-calcite? Veins at 15 TCA.									
231.34	232.74	FLT Fault <i>Sudbury Breccia :</i> Upper-most 12cm is a milky quartz vein at 65 TCA showing slicks on the long axis of the vein (in the plane of maximum intersection with the core axis), lower section of the core is broken, grey fine grained diabase with eroded pyrite-calcite tension gashes at a high angle to the core axis which is likely a strong contributor to the broken core. Possible zones of gouge occur at 232.15m and 232.30m.									
232.74	241.22	DIA Diabase <i>Sudbury Breccia :</i> Fine to medium grained diabase (Matachewan). Weakly magnetic but with rare patches of high magnetism.									

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241.22	243.89	GAB Gabbro Sudbury Breccia : Coarse grained, relatively homogeneous and unaltered gabbro with nothing particularly interesting.									
243.89	244.81	SDBX Sudbury Breccia Sudbury Breccia : 100% SDBX; angular fragments of both pegmatitic and gabbroic fragments with mostly sharp contacts - markedly cooler here below the fault (2B3 to 2B4) Fine grained medium-dark grey matrix. 1% disseminated, anhedral pyrite 1-2mm.									
244.81	245.59	GAB Gabbro Sudbury Breccia : Coarse grained, relatively homogeneous and unaltered gabbro with nothing particularly interesting.									
245.59	246.82	SDBX Sudbury Breccia Sudbury Breccia : 25% SDBX in coarse grained, homogeneous gabbro. 2 x wider veins of SDBX have sharp sided									

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		pegmatitic fragments and looks relatively cool with dark grey quite fine grained matrix, while lower in interval the 2 x narrower veins are slightly lighter grey and slightly coarser grained (still fine) and the fragments are so small that they are difficult to identify possibly granitic. 2B3 to 2B4.									
246.82	251.21	GAB Gabbro Sudbury Breccia : relatively homogeneous, coarse grained gabbro cut by a 2mm fracture at 10 TCA with actinolite (?) and pyrite and possible cp in the vein and disseminated in the gabbro in proximity with the fracture/veinlet. Fracture is truncated on a break in the core - likely natural (a small fault) at 70 TCA.									
251.21	254.08	SDBX Sudbury Breccia Sudbury Breccia : 65% SDBX in coarse grained, homogen. Gab. Fragments with relatively sharp contacts of both pegmatitic granite and gabbro and some larger fragments that have clear contacts between both, the small pegmatitic fragments have slightly wispy contacts. The matrix is medium-dark grey, fine grained relatively cool. 2B3 to 2B4.									
254.08	255.26	GAB Gabbro Sudbury Breccia : Coarse grained, weak gneissic fabric (45 tca) in rel homogen. Gabbro with nothing particularly interesting.									

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255.26	255.81	SDBX Sudbury Breccia 100% SDBX looking quite cool with abundant pegmatitic granite and some gabbroic fragments with sharp contacts in a dark grey, fine grained matrix. 2B4									
255.81	257.66	GAB Gabbro Large, weakly foliated, coarse grained gabbro fragment in the Sudbury breccia. 2 chlorite fractures at 10 TCA.									
257.66	258.29	SDBX Sudbury Breccia 100% SDBX somewhat cool with abundant relatively fine, slightly aligned pegmatitic granite and some gabbroic fragments with sharp contacts in a dark grey, fine grained matrix. 2B3 to 2B4.									
258.29	267.92	GAB Gabbro Medium to coarse grained, somewhat heterogeneous gabbro cut by <5% narrow (<1cm to 20cm) SDBX veins, 1 x 3cm wide pegmatitic granite (258.35m) dike, and a non-magnetic, fine grained mafic-intermediate (diorite?) dike (10cm) at 265.85m. Below the dike the rocks take on a more penetratively altered form with apparent grain-size reduction and more penetrative chlorite-epidote-sericite alteration. Straight epidote veins that locally contain blebs of CP cut the diorite dike and the gabbro below it.									

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267.92	268.93	SDBX Sudbury Breccia Sudbury Breccia : 75% of interval is SDBX that cuts coarse grained gabbro, contacts are sharp but irregular and curvilinear. Sharp sided fragments of gabbro and peg. Gran. Abundant (gran more common near upper contact) in a medium grey fine grained matrix. Limited, small patches of PM. 2B3.									
268.93	275.00	GAB Gabbro Sudbury Breccia : Coarse grained, moderately heterogeneous gabbro with approximately 5% SDBX in irregular veins and a 8cm pegmatitic dike (275.5m). Patches of epidote alteration in association with parallel (slightly anastomosing) epidote veinlets with one small (1mm) fleck of CP and a possible association with very localized PM. SDBX contains 0.5% finely disseminated, anhedral PY.									
275.00	276.69	SDBX Sudbury Breccia Sudbury Breccia : 55% SDBX in coarse gabbro. Medium grey, fine grained matrix with some black flecks (biot phenos?). Abundant small (4-8mm), fine grained, mafic fragments many of which have a pale bleached halo and disseminated PY in them and rare CP flecks (2 seen), other larger gabbro fragments and rare peg gran frags.									

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276.69	279.12	GAB Gabbro Sudbury Breccia : Heterogeneous coarse grained gabbro with moderately developed fabric at 45 TCA. Small pegmatitic granitic dikes (2-6cm) with concentrations of anhedral PY at the core.									
279.12	279.53	SDBX Sudbury Breccia Sudbury Breccia : 100% SDBX much like 275-269.79m. 2B3. Actinolite-quartz-epidote fracture (irregular and sub-parallel to the core axis) transects the SDBX-Gab contact and lends stronger alteration with long bladed amphiboles to one of the gabbro fragments in the SDBX, coarse anhedral PY associated with it.									
279.53	282.50	GAB Gabbro Sudbury Breccia : Heterogeneous gabbro with Peg dike (8cm at 45 TCA) at 280.5m, very fine grained 'diorite' dike (2cm at 60 TCA) at 280.92m, and 5-10% SDBX in small, irregular dikes (2cm-10cm). Chlorite fracture at 40 TCA. Weak development of PM in a leucosome close to a small SDBX dike at 281.6-281.75m in a zone washed with regional epidote.									
282.50	284.65	SDBX Sudbury Breccia Sudbury Breccia : SDBX straddling the boundary between gab and coarse to pegmatitic granite. Large (.75m) gabbro fragment in the upper half and some cobble-sized granitoid fragments below 283.8m, and at 284.2-284.35m a fragment of mafic/intermediate dike with diffuse contacts. 2B3.									

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284.65	291.08	GRGN <i>granite gneiss</i> Coarse grained, banded, felsic gneiss or gneissic (at 50 TCA) granitoid with local graphic textures and dominant leucosomal bands with greenish melanosomes. Melanosomes are slightly finer grained with abundant chlorite. Straight chloritic fractures are almost perpendicular with the gneissic banding and also are at 50 TCA. Lower contact of the unit with the underlying gabbro is transected by a 20cm SDBX at a 25 degree angle. At 290.9 there are 2 narrow (3cm and 1 cm) anastomosing dark chloritic melanosomes with abundant pyrite (3%) - not sampled.									
291.08	297.25	GAB <i>Gabbro</i> Coarse grained gabbro with 10% SDBX in the upper 1/2 of interval and <5% in lower 1/2. 2 x 3cm graphic granite dikes separated by 5cm of gabbro at 292.59m. Lower contact that is at 10 TCA is marked with a 4cm wide (irregular width) SDBX vein.									
297.25	299.13	PEG <i>Pegmatite</i> "pegmatite" this is not really pegmatitic or aplitic but is approaching a graphic granite texture. Dark salmon pink colour with 25% irregular quartz in a feldspar matrix with indistinct crystal boundaries, xenoliths of gabbro, evidence of brittle offsets. Cut by SDBX veinlets at both margins. Cut by tensional qtz-chl, epi, epi-chl-qtz fracture fills all subparallel to each other at a low angle to the core axis and pointing to a sigma 3 orientation at between 25 and 35 TCA. No CP noted, limited PY.									

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299.13	304.32	MYL Mylonite Sudbury Breccia : Strongly foliated/gneissic gabbro with distinctive shears that transect the core at a low angle and a small true mylonite at the bottom of the interval. Deformation zone transect the core at 6 TCA. Patch of green epidote alteration and narrow epidote veinlets near normal TCA from 302.65-302.8m.									
304.32	361.64	GAB Gabbro Sudbury Breccia : Coarse grained heterogeneous gabbro, locally a gneissic fabric is weakly present, and at the top of the interval shears are present likely associated with the overlying mylonite zone. Numerous granitoid dikes of various sizes and textures are commonly cut by or the contacts are flanked by narrow SDBX zones (eg: 310.92-1.5cm peg with 0.8cm SDBX; 317.15m- 8cm peg with 0.6cm SDBX; 318.7m - 12cm peg with flanking SDBX of 0.8cm on each side) . Fractures filled with chlorite-quartz with bleached halos cut the core at a low angle TCA are cut and offset (3-4mm) by fractures with sericite-epidote (?) fills that intersect the core at high angles with an apparent reverse (relative TCA) sense of movement. Between 320m-322.5m there is approximately 10% SDBX veins of 3-5cm. Wider zones of pegmatite from 327m - 333m (up to 80cm). At 332.3-332.4m there is a light dusting of euhedral pyrite.									
361.64	364.17	DIA Diabase Sudbury Breccia : Matachewan diabase strongly magnetic at the top, weakly at the bottom; dark grey, fine grained with rare white irregular glomeroporphs (up to 1.5cm on long axis) larger and more abundant at the top of the interval. No PM or SDBX.									

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364.17	375.50	GAB Gabbro Sudbury Breccia : Heterogeneous, coarse grained gabbro, with narrow pegmatitic granitoid. Tensional epidote veinlets and chlorite-quartz veinlets; near the top of the interval is a zone with distinctive hematite-quartz (+/-chlor) tensional fracture fills/veins in a parallel array. Narrow (1.2cm) very fine grained medium grey 'diorite' dikelet with sharp contacts at 366.18m at 60 TCA.									
375.50	376.45	SDBX Sudbury Breccia Sudbury Breccia : Bleached pale grey/pink SDBX - very fine grained to almost aphanitic SDBX with sharp angular frags Peg->Gab. This SDBX body lies between Gab and Peg. Relatively cold looking 2B4. 4 x 1 cm, parallel qv/qtz-epi veins at 50 TCA. Hem-qtz+/- chlor fractures with bleached and red stained halos cut SDBX and Qtz-epid veins in a fine grid-like network - 80TCA>10TCA.									
376.45	378.30	PEG Pegmatite Sudbury Breccia : Pegmatitic granite with local graphitic texture that includes irregular grey qtz patches that might be mistaken for veins; local zones of ductile strain (mylonite zones - pre-Sudbury event). Dark green chlorite fracture fills that cut and offset epidote-sericite fracture fills in a 'normal' sense.									

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378.30	414.31	GAB Gabbro Sudbury Breccia : Coarse grained, heterolithic gabbro with patches with gneissic fabric (possible xenoliths of mafic gneiss entrained in the gabbro? - 384m-386m with gneissosity at 15 TCA), commonly foliated and elsewhere massive; numerous (<10) small (3cm - 15cm) pegmatite dikes commonly displaying graphic texture; small, commonly deformed SDBX veins (@387.8 is 0.8cm vein cutting Gab and Peg at 25 TCA, @ 388.18 is 0.4cm vein cutting at 90 TCA, 393.75 is 0.8cm strained vein cutting at 50 TCA, @401.15 is strained vein cutting at 80TCA, @402.10 is 5cm vein cutting at 65 TCA, 402.92 is 1 cm strained vein cutting at 5 TCA, @408.5 is 2cm vein at 90 TCA). Epidote-sericite fracture filled veins of 1-2mm; chlorite fracture fills in 2 generations with clear offset of 90 TCA chlorite generation, as well as epidote-quartz veins cut by 15 TCA generation. Late chlorite fractures (up to 4mm) at 15 TCA associated with bleaching of gabbro (up to 1cm on each side of fracture) in lower part of interval. An interpreted xenolith of mafic gneiss contains abundant stringer pyrite (412.3m-412.8m). Small strain zone at 413.95 @ 50 TCA with sharp lower contact that bleeds up 4cm - defined by anastomosing chlorite-sericite-epidote.									
414.31	415.50	SDBX Sudbury Breccia Sudbury Breccia : 40% SDBX at contact between Gabbro and Mata diabase. Fragments are sharp sided and include pegmatite, gabbro and diabase. Very fine grained dark grey matrix with trace, disseminated euhedral to subhedral pyrite. No PM. 2B4. Tensional epidote fracture fills at 10 TCA.									
415.50	422.38	DIA Diabase Sudbury Breccia : Highly magnetic, fine-medium grained Mata dike with no glomeroporphy. Cut by SDBX (417.95-418.15m; and 416.34-416.37m; and 417.00 - 417.02m), lower contact is also marked by an irregular 7-8cm SDBX. A narrow (3mm) PM veinlet at 418.63m. Vein controlled pyrrhotite-pyrite (418.82m) and pyrite (418.66m) mineralization very locally developed. A tensional epidote vein (4mm) occurs at 417.25m									

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422.38	450.00	GAB Gabbro Heterogeneous gabbro with gneissic patches, grain size variation and generally finer (medium to coarse grained) than overlying gabbro. Cut by several pegmatitic granite dikes (ranging from 4cm to 25cm) some displaying good graphic texture. Small SDBX dikes intrude and are locally strained, commonly at PEG contacts. Fine grained grey diorite dikelet at the margin of a PEG. Apparent 'normal' offset of a small (0.6cm) pegmatite dike along 2 x act-qtz-qtz-py-CP fracture controlled stringers.									
450.00	454.12	DIA Diabase highly magnetic, fine-med grained with large (up to 2cm) euhedral glomeroporphy (2%). Relatively abundant pyrite in much of interval in schlieren/enclaves of the host gabbro with pegmatite. Cut by younger pegmatite vein (0.8cm) at 85 TCA. Contacts are at 15 TCA so the dike is likely much narrower than the interval.									
454.12	456.88	GAB Gabbro Medium to coarse grained, relatively homogeneous GAB. Bleaching adjacent to chlorite-quartz fracture fills @ 35, 65 & 20 TCA. 1-2cm epidote alteration at the lower contact is likely altered dia - light grey-green.									

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456.88	457.70	DIA Diabase Magnetic, fine grained Mata dike with fine (0.5) glomeroporpha. Upper contact is grey-green epidote alteration, lower contact is at a low angle TCA where the dike intrudes along a grey quartz vein (metamorphic sweat) in the gneissic gabbro beneath it.									
457.70	462.77	GAB Gabbro Mod magnetic, heterogeneous gabbro variably gneissic or foliated with changes in grain size (medium to coarse grained).									
462.77	465.28	DIA Diabase Relatively coarse grained (medium) for this lith, with fine (0.4cm) glomeroporpha, and abundant, irregular enclaves of the country rock (GAB with PEG) locally with a PY stringer. Cut by PEG! @ 463.2m is 1.2cm dike- clearly indicating a granitoid younger than the 2.4Ga Matachewan event. Irregular SDBX at upper contact (8cm), straight SDBX at lower contact (6cm) with strained and epidote flooded section. Both SDBX veins are 2B4 and both transect both lithologies at the contact.									
465.28	475.85	DIA Diabase Mata diabase - dark grey and fine-medium grained, highly magnetic, rare large glomeroporpha with large enclaves of GAB/PEG with contacts sub-parallel TCA. Cut by late pegmatite. PEG and DIA are cut by tensional fractures with green chlorite and quartz filling - fractures concentrated in diabase but disperse in parallel array in the more brittle peg.									

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475.85	477.15	GAB Gabbro Sudbury Breccia : Med to coarse grained, relatively texturally homogeneous, colour varies from medium grey-green to salmon (hem). Cut by SDBX 2B4 and pegmatites									
477.15	477.25	FLT Fault Sudbury Breccia : Chaotic, polyphasic hematitic gouge cutting SDBX and GAB; has 2 primary orientations that describe rhombs at 70 and 40 TCA. Normal movement on a plane that is 75 TCA that is 45 degrees from the sigma 3 direction crossing the plane normal TCA - sigma 3 is 60 TCA.									
477.25	480.09	GAB Gabbro Sudbury Breccia : medium grained, salmon coloured penetratively and pervasively hematized gabbro. Zones of penetrative epidote alteration are sharp-sided and over-print the hem. A well constrained progression of alteration: 1st pen HEM, 2nd bright green EP at 60 TCA, 3rd green-grey fluidized looking EP-QTZ, 4th CHL-EP-QTZ fracture fills, 5th rare black chlorite fracture fills, 6th milky grey, very fine, almost saccharoidal looking, irregular bulky veins with a PM type morphology in a single patch.									

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480.09	482.93	SDBX Sudbury Breccia 40% SDBX that dominates the Nipissing Diabase dike that it cuts - particularly at the margins of the dike - but the whole dike is riddled with SDBX, so I chose to make that the Major Lithology. Looks warmer (though not that much) than the SDBX above the fault. Medium grey, fine grey with very fine biotite phenocrysts, but mostly sharp sided fragments. Some fragments have 1-2mm reaction halos. 2B3. Zones of pale grey-green, strained looking intense epidote alteration (3rd generation of those delineated in the overlying unit). Fragments DIA>GAB>PEG, but all reasonably abundant. Small SDBX veins (<1 to 3cm) are all penetratively grey strain-related epidote altered. 0.7cm, fibrous epidote-chlorite tensional vein @ 80 TCA.									
482.93	483.30	GAB Gabbro medium grained heterogeneous gabbro.									
483.30	483.67	PEG Pegmatite pegmatite cut by irregular grey quartz.									
483.67	484.08	SDBX Sudbury Breccia 100% SDBX with angular fragments in medium grey, fine grained groundmass. 2B4. Brittly deformed and chopped up on early tensional epidote pull-aparts and truncated on grey chlorite-sericite-qtz. CP in									

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		tensional purple-grey quartz transected by pale green epidote and cutting bright green epidote.									
484.08	484.15	FLT Fault Sudbury Breccia : 45 TCA sharp sided dark brick hematite gouge and limited (0.8cm) quartz with ancillary hematite fracture fills in broken core zone (10-15cm - no significant lost core).									
484.15	496.44	GAB Gabbro Sudbury Breccia : Coarse grained, heterogeneous gabbro with intervals of mafic gneiss, PEG (6cm dike), SDBX (2 x 2cm veins). Epidote tensional fracture fills.									
496.44	497.44	SDBX Sudbury Breccia Sudbury Breccia : 10-15% SDBX in heterogeneous GAB. Fine, wispy, branching and anastomosing, angular veins that are penetratively epidotized (pale grey-green) with very fine fragments up to granule sized of gabbro, diabase and pegmatite.									

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<i>From</i> (m)	<i>To</i> (m)	<i>Lithology</i>	<i>Sample #</i>	<i>From</i>	<i>To</i>	<i>Length</i>	<i>Au</i> (g/t)	<i>Pt</i> (g/t)	<i>Pd</i> (g/t)	<i>Ni</i> (%)	<i>Cu</i> (%)
497.44	505.16	GAB Gabbro Coarse grained, heterogeneous gabbro with intervals of mafic gneiss, PEG, SDBX. Epidote tensional fracture fills.									
505.16	505.75	DIA Diabase Weak to non-magnetic (MSN - 1.86), fine grained dark grey with no glomeroporphy. I think it may be a Nipissing Diabase. It is cut by a white pegmatite and epidote alteration in a fine network of fracture fills.									
505.75	507.82	SDBX Sudbury Breccia 40% SDBX cutting the contact between the DIA and GAB with PEG dikes. Fine, wispy, branching and anastomosing, angular veins that are penetratively epidotized (pale grey-green) with very fine fragments and local cobble to boulder sized fragments of gabbro and pegmatite.									
507.82	507.88	FLT Fault Silica sealed hematite gouge and broken core (507.73m - 508m) with penetrative hm alteration and wormy gypsum 5cm above the break and moderately penetrative hem alteration below it. No obvious calcite flooding associated with this family of faults.									

LITHOLOGY REPORT
- Detailed -

Hole Number **WIS-184**

Project: **WISNER_GLENCORE NRJV**

Project Number: **642**

<i>From</i> (m)	<i>To</i> (m)	<i>Lithology</i>	<i>Sample #</i>	<i>From</i>	<i>To</i>	<i>Length</i>	<i>Au</i> (g/t)	<i>Pt</i> (g/t)	<i>Pd</i> (g/t)	<i>Ni</i> (%)	<i>Cu</i> (%)
507.88	508.95	QMON Quartz Monzonite Medium to coarse grained, variably pink and white coloured quartz monzonite with 15% mafic accessory minerals metamorphosed to chlorite-magnetite-biotite									
508.95	509.30	SDBX Sudbury Breccia 40% SDBX with quartz monzonite fragments in a medium green, fine grained matrix - looking somewhat warmer. Trace disseminated CP and PY (<1mm).									
509.30	514.67	MCQMON Megacrystic Quartz Monzonite Kspar megacrysts (2cm and larger) in finer, strained/metamorphosed groundmass of chlorite-plag-quartz-biotite-magnetite with disseminated euhedral to subhedral pyrite. Rare bright green epidote veins that preferentially cut the groundmass. Unit is highly magnetic.									
514.67	517.41	MGN Mafic Gneiss Very coarse grained amphibolite gneiss (possibly meta gabbro but texturally distinct from GAB unit above and below). Homogeneous despite gneissocity. Patches, stringers, blebs and disseminations of pyrite and pyrrhotite in proximity with qtz-epidote veins.									

LITHOLOGY REPORT
- Detailed -

Hole Number **WIS-184**

Project: **WISNER_GLENCORE NRJV**

Project Number: **642**

<i>From</i> (m)	<i>To</i> (m)	<i>Lithology</i>	<i>Sample #</i>	<i>From</i>	<i>To</i>	<i>Length</i>	<i>Au</i> (g/t)	<i>Pt</i> (g/t)	<i>Pd</i> (g/t)	<i>Ni</i> (%)	<i>Cu</i> (%)
517.41	526.95	MCQMON <i>Megacrystic Quartz Monzonite</i> Sudbury Breccia : Kspar megacrysts (2cm and larger) in finer, strained/metamorphosed groundmass of chlorite-plag-quartz-biotite-magnetite with disseminated euhedral to subhedral pyrite. Rare bright green epidote veins that preferentially cut the groundmass. Unit is highly magnetic. SDBX (very fine grained medium-dark green-grey matrix with dark rare fine fragments and fine trace disseminated py (2B3/4)vein cuts at 20 TCA @ 520.92m - 520.97m is 5cm wide and pinches out, another at lower contact with mafic gneiss.									
526.95	528.40	DIA <i>Diabase</i> Sudbury Breccia : Highly magnetic weakly to non foliated, fine-medium grained Diabase with abundant enclaves of coarse grained gabbro entrained in it.									
528.40	529.35	SDBX <i>Sudbury Breccia</i> Sudbury Breccia : 30% SDBX at contact between the DIA and the underlying GAB with PEG. Fragments are large Peg and Gab riddled with breccia veinlets containing fine mafic and indistinct lithologies with sharp contacts in a penetratively epidote altered, strained looking fine grained matrix. 2B3/2B4. CP=PY bleb in chlorite quartz pod within an earlier epidote veinlet.									

LITHOLOGY REPORT
- Detailed -

Hole Number **WIS-184**

Project: **WISNER_GLENCORE NRJV**

Project Number: **642**

<i>From</i> (m)	<i>To</i> (m)	<i>Lithology</i>	<i>Sample #</i>	<i>From</i>	<i>To</i>	<i>Length</i>	<i>Au</i> (g/t)	<i>Pt</i> (g/t)	<i>Pd</i> (g/t)	<i>Ni</i> (%)	<i>Cu</i> (%)
529.35	538.40	GAB Gabbro Heterolithic with enclaves of mafic gneiss. Numerous SDBX veins (2B4 with penetrative epi-ser alteration) ate various orientations and at the contact zones with the mafic gneiss enclaves and at the contacts with small epidotized granitic/peg dikelets. Bright green epidote in zones of penetrative alteration adjacent to epidote-quartz veins (anastamosing); grey epidote-sericite in fracture fills; grey qtz and bright green epidote vein (tensional) - epidote is 2nd alteration mineral in stretched qv oriented 85 TCA.									
538.40	545.00	MGN Mafic Gneiss very heterolithic, gneissic. Very sharp irregular epi-ser alterd SDBX veinlets and patches (<5%). Very small PEG dikelets and dikes of deformed GAB. 1.3 cm blebs of py in epid in tensional veinlets									
545.00	546.60	GAB Gabbro heterolithic GAB to EOH.									
546.60	546.61	EOH End of Hole									

LITHOLOGY REPORT
- Detailed -

Hole Number **WIS-184**

Project: **WISNER_GLENCORE NRJV**

Project Number: **642**

<i>From</i> (m)	<i>To</i> (m)	<i>Lithology</i>	<i>Sample #</i>	<i>From</i>	<i>To</i>	<i>Length</i>	<i>Au</i> (g/t)	<i>Pt</i> (g/t)	<i>Pd</i> (g/t)	<i>Ni</i> (%)	<i>Cu</i> (%)
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DRILL HOLE REPORT

 Hole Number **WIS-185**

 Project: **WISNER_GLENCORE NRJV**

 Project Number: **642**

Drilling	Casing	Core	Location	Other
Azimuth: 185	Length: 0	Dimension: NQ	Township: WISNER	Logged by: Lindsay Hall
Dip: -45	Pulled: no	Storage: Core Shed	Claim No.: 984643	Relog by:
Length: 134.11	Capped: yes	Section:	NTS:	Contractor: Jacob & Samuel Drilling Ltd.
Started: 05-Nov-14	Cemented: no	Hole Type DD	Hole: SURFACE	Spotted by: Tom Johnson
Completed: 06-Nov-14				Surveyed:
Logged: 11-Nov-14				Surveyed by:
Comment:				Geophysics: None
		Coordinate - Gemcom	Coordinate - UTM	Geophysic Contractor:
		East: 498402	East: 498402	Left in hole: Nothing
		North: 5178206	North: 5178206	Making water: no
		Elev.: 410	Elev.: 410	Multi shot survey: no
			Zone: 17 NAD: 27	

Deviation Tests

<i>Distance</i>	<i>Azimuth</i>	<i>Dip</i>	<i>Type</i>	<i>Good</i>	<i>Comments</i>
0.00	185.00	-45.00	C	<input checked="" type="checkbox"/>	
14.00	185.40	-45.80	F	<input checked="" type="checkbox"/>	5796
65.00	185.40	-44.80	F	<input checked="" type="checkbox"/>	5338
116.00	184.00	-44.50	F	<input checked="" type="checkbox"/>	5455
134.00	184.00	-44.40	F	<input checked="" type="checkbox"/>	5480
134.00				<input type="checkbox"/>	

LITHOLOGY REPORT
- Detailed -

Hole Number **WIS-185**

Project: **WISNER_GLENCORE NRJV**

Project Number: **642**

<i>From</i> (m)	<i>To</i> (m)	<i>Lithology</i>	<i>Sample #</i>	<i>From</i>	<i>To</i>	<i>Length</i>	<i>Au</i> (g/t)	<i>Pt</i> (g/t)	<i>Pd</i> (g/t)	<i>Ni</i> (%)	<i>Cu</i> (%)
2.50	16.08	GAB Gabbro Variably coloured dark grey, bleached light grey, salmon, and pale green patches, coarse grained with variably developed foliation at 40 TCA. Narrow (2.5cm @ 6.35m and 1cm @ 11.37m) medium grey SDBX veins @ 50 TCA (2B3>2B2). Dark grey zones of penetrative chlorite alteration with PM developed around the rims of the mafic minerals (<1mm). Chlorite-sil+/-py with bleached zones as fracture-fills or									
16.08	51.00	DIA Diabase Matachewan diabase. Very fine grained, dark grey, highly magnetic (ave. 125 at top, 35 at bottom below PM on MSM). Above the PM sub-unit fine, wormy PM occurs (<3%) that are cut by straight, bleached fractures in a variety of orientations filled with ep-ser and rare trace CP. Broken core 16.45-17m. Below the PM sub-unit dike is coarser grained and less magnetic, less altered - PM veins are larger. The main PM zone seems to localize at the internal contact of the dike. Lower section shows early chlorite-py vein cut by bright green epidote-CP vein.									
51.00	51.81	SDBX Sudbury Breccia Medium grey, wispy fine fragments with abundant, pink PM with actinolite. Large blebs of CP. SDBX 2B3.									
51.81	53.82	DIA Diabase Matachewan dike: medium grained, medium-dark grey and moderately magnetic (35 on MSM). No SDBX and <3% PM in fine wormy veins. Relatively UAL.									

LITHOLOGY REPORT
- Detailed -

Hole Number **WIS-185**

Project: **WISNER_GLENCORE NRJV**

Project Number: **642**

<i>From</i> (m)	<i>To</i> (m)	<i>Lithology</i>	<i>Sample #</i>	<i>From</i>	<i>To</i>	<i>Length</i>	<i>Au</i> (g/t)	<i>Pt</i> (g/t)	<i>Pd</i> (g/t)	<i>Ni</i> (%)	<i>Cu</i> (%)
53.82	54.90	GAB Gabbro Sudbury Breccia : Dark grey and bleached light grey, coarse grained with variably developed foliation at 40 TCA GAB. Chlorite veins with dark chloritic haloes slightly transect the main foliation. Very fine DIA dikelets (1cm - 5cm). No SDBX or PM.									
54.90	59.43	SDBX Sudbury Breccia Sudbury Breccia : SDBX with large fragments of GAB (55.58m-56.35m) and DIA (56.48m - 57.19m) in dark grey matrix with aligned and slightly wispy fragments with rare halos. Quite abundant PM in Gab fragment with CP. Overall <5% PM with both bright green epi and bladed actinolite. Limited epidote overprinting alteration.									
59.43	60.41	GAB Gabbro Sudbury Breccia : Could be regarded as a 1m fragment in a SDBX unit. Coarse grained, foliated Gab cut by epi-ser veins with halos of salmon alteration. PM at 59.91m - 59.94m.									

LITHOLOGY REPORT
- Detailed -

Hole Number **WIS-185**

Project: **WISNER_GLENCORE NRJV**

Project Number: **642**

<i>From</i> (m)	<i>To</i> (m)	<i>Lithology</i>	<i>Sample #</i>	<i>From</i>	<i>To</i>	<i>Length</i>	<i>Au</i> (g/t)	<i>Pt</i> (g/t)	<i>Pd</i> (g/t)	<i>Ni</i> (%)	<i>Cu</i> (%)
60.41	60.71	SDBX Sudbury Breccia SDBX with dark grey matrix with aligned and slightly wispy fragments with rare halos. Overall <5% PM with both bright green epi and bladed actinolite. Limited epidote overprinting alteration.									
60.71	61.29	GAB Gabbro Coarse grained, foliated Gab cut by epi-ser veins with halos of salmon alteration.									
61.29	64.74	DIA Diabase Matachewan dike of bimodal character such as at 16m-51m. Enclave of GAB (62.45m - 62.6m); SDBX at upper contact and contact with GAB (61.29m - 61.71m; 62.6m - 62.64m). Epi-ser fracture fills (75 TCA) and black chlorite with halos (55 TCA).									
64.74	69.12	SDBX Sudbury Breccia Large fragments of GAB in medium-grey, fine grained matrix with somewhat wispy fine fragments and relatively abundant PM containing coarse actinolite. 2B3. Cut by relatively abundant dull green-grey epi-ser and darker chlorite-epidote (+/-qtz) fracture fills/small fault fills (some of which display slickensides) that are approximately parallel TCA causing broken core.									

LITHOLOGY REPORT
- Detailed -

Hole Number **WIS-185**

Project: **WISNER_GLENCORE NRJV**

Project Number: **642**

<i>From</i> (m)	<i>To</i> (m)	<i>Lithology</i>	<i>Sample #</i>	<i>From</i>	<i>To</i>	<i>Length</i>	<i>Au</i> (g/t)	<i>Pt</i> (g/t)	<i>Pd</i> (g/t)	<i>Ni</i> (%)	<i>Cu</i> (%)
69.12	83.12	DIA Diabase Sudbury Breccia : fine grained, dark grey, strongly magnetic DIA. PM at 75.65 (0.5cm irregular vein with actinolite); 79.75m-79.85m (2-3cm wide vein with adjacent SDBX vein of 3-4cm). Cut and offset in PM on 3mm wide chlorite-calcite+/-qtz filled fault with apparent reverse movement of 2.5cm at 50 TCA with associated broken core. Fault cut by (penecontemporaneous with) chlorite-calcite fractures at 40 TCA (70 degrees between the fault plane and plane of the fracture set suggesting a conjugate set with the fault orientation that failed. Chlorite fracture fills with associated bleaching throughout interval. Lower contact is strained and altered with a small SDBX zone and a brittle fault.									
83.18	95.25	GAB Gabbro Sudbury Breccia : GAB in faulted contact with overlying DIA. Heterogeneous, medium to v. coarse grained. Cut by small PEGs and numerous PM zones (83.25m - 83.33m - massive with epid and act; 84.2m - 84.45m at 30 TCA; 86.66- 86.82m with SDBX margins at 25 TCA and PY blebs; 89.2m - 89.23m with an epid fract at core at 60 TCA; 89.3 89.32m at 70 TCA). Blebby CP in 10cm wide silica alteration zone adjacent to a very small PM. Epi-chl-qtz fracture fill 0.8cm wide >5TCA with flanking bleaching, epid and hem staining.									
95.25	99.20	DIA Diabase Sudbury Breccia : fine grained, medium-dark grey WM magnetic diabase with GAB enclaves (largest at 96.65m - 97.35m) that is flanked by narrow SDBX zones. Small worms and patches of PM. Fault with 3 cm offset on the gneissic enclave with apparent normal movement, qtz-chl+/-py fill at 10 TCA - associated with broken core and several other parallel fractures with similar fills. 2cm SDBX at the lower contact.									

LITHOLOGY REPORT
- Detailed -

Hole Number **WIS-185**

Project: **WISNER_GLENCORE NRJV**

Project Number: **642**

<i>From</i> (m)	<i>To</i> (m)	<i>Lithology</i>	<i>Sample #</i>	<i>From</i>	<i>To</i>	<i>Length</i>	<i>Au</i> (g/t)	<i>Pt</i> (g/t)	<i>Pd</i> (g/t)	<i>Ni</i> (%)	<i>Cu</i> (%)
99.20	108.15	MGN Mafic Gneiss Sudbury Breccia : Chaotic zone of intimately interleaved lithologies including banded leucosome and melanasome, fine grained amphibolite, with abundant PEG, PM (100.68m - 100.8; 102.08m - 102.18m; 104.48m - 104.81; 105.70m - 105.73m) and SDBX (104.33m - 104.48 and numerous small ones at internal contacts within this heterogeneous unit). No significant sulphides seen despite an encouraging look.									
108.15	134.10	GAB Gabbro Sudbury Breccia : Heterogeneous, foliated GAB with PEG (with SDBX at contacts - 122.87m - 123.2; 127.04m - 127.08m - with lots of magnetite), SDBX (at internal contacts and 11.65m - 11.90m), and PM (115.4m - 115.48; 118.41m - 118.44m; 128.15m - 128.17m at 30 TCA; 133.04m - 133.06m at 40 TCA). Core axis sub-parallel, irregular fault with a clear offset of 40cm across a SDBX. Fault fill is chlorite-qtz-epi.									
134.10	134.11	EOH End of Hole Sudbury Breccia :									

DRILL HOLE REPORT

Hole Number **WIS-186**

Project: **WISNER_GLENCORE NRJV**

Project Number: **642**

Drilling	Casing	Core	Location	Other
Azimuth: 242	Length: 0	Dimension: NQ	Township: WISNER	Logged by: Györgyi Tuba
Dip: -44.8	Pulled: no	Storage: Core Shed	Claim No.: 984643	Relog by:
Length: 169.71	Capped: yes	Section:	NTS:	Contractor: Jacob & Samuel Drilling Ltd.
Started: 07-Nov-14	Cemented: no	Hole Type DD	Hole: SURFACE	Spotted by: Shannon Baird
Completed: 10-Nov-14				Surveyed:
Logged: 10-Nov-14				Surveyed by:
Comment:				Geophysics: None
		Coordinate - Gemcom	Coordinate - UTM	Geophysic Contractor:
		East: 498402	East: 498402	Left in hole: Nothing
		North: 5178206	North: 5178206	Making water: no
		Elev.: 410	Elev.: 410	Multi shot survey: no
			Zone: 17 NAD: 27	

Deviation Tests

Distance	Azimuth	Dip	Type	Good	Comments
0.00	242.00	-44.80	C	<input checked="" type="checkbox"/>	
17.00	242.00	-44.80	F	<input checked="" type="checkbox"/>	5421
65.00	243.30	-44.50	F	<input checked="" type="checkbox"/>	5370
116.00	243.00	-44.40	F	<input checked="" type="checkbox"/>	5432
169.71	246.20	-44.00	F	<input checked="" type="checkbox"/>	5361

LITHOLOGY REPORT
- Detailed -

Hole Number **WIS-186**

Project: **WISNER_GLENCORE NRJV**

Project Number: **642**

<i>From</i> (m)	<i>To</i> (m)	<i>Lithology</i>		<i>Sample #</i>	<i>From</i>	<i>To</i>	<i>Length</i>	<i>Au</i> (g/t)	<i>Pt</i> (g/t)	<i>Pd</i> (g/t)	<i>Ni</i> (%)	<i>Cu</i> (%)
0.00	1.76	CAS	Casing									
1.76	4.88	GAB	Gabbro									
			Sudbury Breccia : Coarse-grained, unaltered, homogeneous, non-magnetic GAB. 3.88-3.94 m: 5 cm SDBX vein, 2A3, very ductile and lots of PM (intermingled with matrix, matrix looks almost felsic at some spots); in situ pm at contact which is, thus, almost gradual; clasts are thermally altered with mafic "restite" in the centre and felsic pm corona.									
4.88	33.69	DIA	Diabase									
			Sudbury Breccia : Quite massive, moderately magnetic, fine-grained diabase with ca. 5% fsp glomeroporpha. 1% disseminated py, tends to be concentrated in sections of stronger regional ep veining or PM. PM veins common, typically 1 cm in width, miarolitic cavities filled by ep, cc, amph. 7.51-7.55 m: ~ 50-TCA c/g ep-qtz vein (broken in half, texture diminished). 2% SDBX, found from 23.90-24.34 m(2A3, small clasts and wispy and vein PM). Rare CPY, mostly in traces: at 12.65 (in 5 mm ep vein, 80 TCA, 1%), 19.57 (1 speck in 1mm ep vein, 60TCA), 31.92 (trace in PM), 32.37 (trace in PM).	R228001	12.38	12.72	0.34	0.00	0.00	0.00	0.01	0.01
				R228002	31.80	32.53	0.73	0.00	0.00	0.00	0.01	0.02
33.69	55.34	GAB	Gabbro									
			Sudbury Breccia : Same style as GAB above. Some sections are slightly hem stained. PM appears less commonly than in DIA above, but locally more massive (e.g., 41.90-42.56m: massive PM with ep-cc+/-amph in m/c's, 10-15									

LITHOLOGY REPORT
- Detailed -

Hole Number **WIS-186**

Project: **WISNER_GLENCORE NRJV**

Project Number: **642**

<i>From</i> (m)	<i>To</i> (m)	<i>Lithology</i>	<i>Sample #</i>	<i>From</i>	<i>To</i>	<i>Length</i>	<i>Au</i> (g/t)	<i>Pt</i> (g/t)	<i>Pd</i> (g/t)	<i>Ni</i> (%)	<i>Cu</i> (%)
		TCA). 40.40-40.61: small ductile zone with mylonitic texture (apparent dextral reverse; pre-Sudbury most probably). Trace SDBX in small (1-2 cm) veins here and there.									
55.34	65.00	MGN Mafic Gneiss Sudbury Breccia : Very heterogeneous, some sections are c/g and amph-rich, otherwise almost gabbroic and fine-grained, mafic domains mingle. Abundant, very common PM. 2-3% py, commonly in Pm, too, e.g., 61.43: 1x1 cm py patch in m/c. Trace cpy(?) in PM at 63.29 m (uncertain). Small fault gouge at 64.37m: poorly cemented clay-gouge, 5 mm, 60 TCA.	R228003	61.36	61.78	0.42	0.00	0.00	0.00	0.02	0.00
			R228004	63.11	63.42	0.31	0.00	0.00	0.00	0.03	0.00
65.00	169.70	GAB Gabbro Sudbury Breccia : Alternating c/g, homogeneous, and heterogeneous, gneissic lithologies. 74.40-103.26 m: Very heterogeneous with variable grain sizes (usually f/g and c/g alternate), gneissic but still part of the GAB (no large amount of amph as in MGN section above). 78.60-78.70: 50TCA Qtz veins (up to 5 mm) with bleached halo. Occasional PEG veins, usually pm'd to variable degrees. 1% SDBX: small (<1cm) veins, very ductile from 90.64-91.11. Trace CPY at 98.00 and 98.14: in zone of ep veins but cpy is not in the vein, might not be related to them. 101.17: possible tectonic bx with cc FG, very thin (2 mm), 70 TCA. 103.26-147.41 m: Back in the classic GAB. 107.53-107.90: something really alt'd with fuzzy, purplish-coloured texture - might have been a PEG vein at one point that is pm'd; has sharp contact with the GAB which is not alt'd. Abundant PM, m/c's filled with ep-amph-cc+/- trace py. 128.29-128.79 and 134.30-134.57: PEG, strongly pm'd. 147.41-153.01m: gneissic unit, ca. IGN, weird. To 148.10: looks like some meta-DIA with large fsp glomeroporphy (up to 2 cm, ~10%). 148.10-153.01: alternating GAB and f/g domains. 153.01-169.70: classic GAB again, with abundant PM (often along/in PEG). 153.00-154.00: occ. Qtz-cc-hem veins, 2-3 mm, about 40TCA (variable angles). Mechanically broken core from 159.00-159.30 and 165.80-166.80.	R228005	97.94	98.32	0.38	0.00	0.00	0.00	0.01	0.02

LITHOLOGY REPORT
- Detailed -

Hole Number **WIS-186**

Project: **WISNER_GLENCORE NRJV**

Project Number: **642**

<i>From</i> (m)	<i>To</i> (m)	<i>Lithology</i>	<i>Sample #</i>	<i>From</i>	<i>To</i>	<i>Length</i>	<i>Au</i> (g/t)	<i>Pt</i> (g/t)	<i>Pd</i> (g/t)	<i>Ni</i> (%)	<i>Cu</i> (%)
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169.70 169.71 **EOH** *End of Hole*

Sudbury Breccia :

DRILL HOLE REPORT

 Hole Number **WIS-187**

 Project: **WISNER_GLENCORE NRJV**

 Project Number: **642**

Drilling	Casing	Core	Location	Other
Azimuth: 360	Length: 0	Dimension: NQ	Township: WISNER	Logged by: Lindsay Hall
Dip: -45	Pulled: no	Storage: Core Shed	Claim No.: 984643	Relog by:
Length: 400.04	Capped: yes	Section:	NTS:	Contractor: Jacob & Samuel Drilling Ltd.
Started: 11-Nov-14	Cemented: yes	Hole Type DD	Hole: SURFACE	Spotted by: Tom Johnson
Completed: 18-Nov-14				Surveyed:
Logged: 12-Nov-14				Surveyed by:
Comment: Cemented 27m-45m.				Geophysics: BHEM
		Coordinate - Gemcom	Coordinate - UTM	Geophysic Contractor:
		East: 498492	East: 498492	Left in hole: Nothing
		North: 5178147	North: 5178147	Making water: no
		Elev.: 402	Elev.: 402	Multi shot survey: no
			Zone: 17 NAD: 27	

Deviation Tests

<i>Distance</i>	<i>Azimuth</i>	<i>Dip</i>	<i>Type</i>	<i>Good</i>	<i>Comments</i>
0.00	360.00	-45.00	C	<input checked="" type="checkbox"/>	
22.00	3.60	-45.60	F	<input checked="" type="checkbox"/>	5532
73.00	3.90	-45.00	F	<input checked="" type="checkbox"/>	5259
124.00	4.40	-45.00	F	<input checked="" type="checkbox"/>	5291
175.00	6.30	-44.80		<input checked="" type="checkbox"/>	5410
226.00	5.20	-44.90		<input checked="" type="checkbox"/>	5326
277.00	3.60	-44.00		<input checked="" type="checkbox"/>	5372
328.00	4.20	-42.90		<input checked="" type="checkbox"/>	5572
379.00	0.70	-42.20		<input checked="" type="checkbox"/>	5446
400.00	2.30	-42.20		<input checked="" type="checkbox"/>	5472

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0.00	3.15	O/B Overburden No recovery									
3.15	10.20	DIA Diabase Fine grained, dark grey, no glomeroporphs with moderate to strong magnetism. Matachewan diabase. Boring. Broken core 6.4-7m									
10.20	11.04	SDBX Sudbury Breccia Very dark grey-black, very fine grained matrix with pinkish gabbro fragments and fine aligned slightly wispy fragments. 2B3. Limited partial melt in small pinkish blebs and rare 1mm halos on fragments									
11.04	12.17	DIA Diabase Somewhat heterogeneous for Matachewan with very fine grained to fine grained portions; dark grey and MS magnetic. Cut by a 14 cm SDBX dike with a 1cm PM vein. Hematite filled fractures 2mm wide with slickensides perpendicular TCA.									

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12.17	13.58	SDBX Sudbury Breccia Very dark grey-black, very fine grained matrix with pinkish gabbro fragments and fine aligned slightly wispy fragments and others with sharp boundaries. 2B3. More partial melt veins and small patches with actinolite and rare 1mm halos on fragments. Cut by 2 sets of straight, tensional epid veinlets that are likely synchronous with grey-green sil-ep+/-ser veinlets that are narrower but more numerous. Sil>ep @ 45 TCA, sil=ep @ 80 TCA, angle between them is 45.									
13.58	17.26	DIA Diabase Fine-med grained with patches of fine phenocrysts/glomeroporphy (2-3mm), dark-medium grey-green with MS magnetism. Cut by 4cm SDBX vein (14.82m). Beginning of real influence of underlying fault with breaks (1mm - 8mm) containing brick red hem and Qtz. No slicks seen. Bright green quartz-epidote vein (1.5cm) with penetrative epidote staining for 2-8cm below the vein with outlying hematite staining that continues a further 20cm.									
17.26	26.33	GAB Gabbro Progressively more altered coarse grained heterogeneous GAB with penetrative Sil alt from WM at top to MS at bottom of interval. Upper contact with diabase is sharp at 85 TCA. Small pegmatite with small PM (21.8m - 22.05m). Several PM veins (20.24m - 20.27m; 24.15m - 24.23m with SDBX; 25.5m - 25.6m). SDBX veins and patches (17.5m; 24.65m - 24.79m; 20.6m - 20.61m). Chlorite shear (1-3cm) likely pre-Sudbury at 20 TCA (17.9m). Bright green, parallel, ep fract fills are somewhat irregular with margins of dark green chlorite (tensional?) at 20 TCA. Penetrative epidote alteration in straight, parallel sided zone 2cm wide (24.4m - 24.42m) at 70 TCA.									

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26.33	27.46	PMGB <i>partial melt - gabbroic</i> Sudbury Breccia : Penetratively silicified and hematite altered PM. Hard, salmon colour over good massive PM vein. Apparent breccia resulting from differential alteration effect. Limited SDBX in irregular wispy veinlets. Cut by straight tensional, bright green epidote veinlets in 2 orientations (70 and 40TCA - with 70 degrees between them)									
27.46	30.68	GAB <i>Gabbro</i> Sudbury Breccia : Penetratively silica-hematite altered Gabbro with a pitted surface where mafic minerals have been preferentially dissolved. Brick-maroon, hard. Relatively abundant patches of PM (29.29m - 29.45m; 29.9m - 30m; 30.58m-30.68m) and SDBX (29.45m - 29.58m; 29.9m - 30m; 30.58m-30.68m)both being penetratively altered.									
30.68	31.10	FLT <i>Fault</i> Sudbury Breccia : 4cm of preserved soft, hematite-clay gouge that cuts SDBX both above and below. Flanked by narrow hm gouge and fracture zones and broken core.									
31.10	31.59	SDBX <i>Sudbury Breccia</i> Sudbury Breccia : Grey matrix with sil and hem altered brick coloured, very angular fragments. Altered such that it is difficult									

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		to interp the type of SDBX. Riddled with parallel but somewhat irregular fractures/faults with hematite that are negative weathering (35 TCA). Patchy epidote.									
31.59	52.52	GAB Gabbro Sudbury Breccia : Progressively less sil-hem altered GAB as the effect of the fault diminishes down the interval. Gabbro is coarsely grained heterogeneous and cut by small brittle faults; PM (37.88m - 37.93m; 38.4m - 38.46m; 40.8m - 41m; 42.49m - 42.6; 43.25m - 43.38m - CP fleck; 44.64m - 44.68m; 45.91m - 46.1 - vein @ 10 TCA; 46.31m - 46.42m; 47.70m - 47.71m; 48.24m - 43.55m) and SDBX (31.9m - 32m; 38.21m - 38.24m; 40.5m - 40.53m; 42.53m - 42.63m; 44.64m - 45.05m -vein @ 15 TCA; 45.61m - 45.72m; 48.24m - 48.55m; 49.32m - 49.44m), likely pre-Sudbury sil-chlorite alteration. Hem fractures and bright green epidote preferentially alter SDBX. SDBX is medium grey with ill-defined and wispy fragments - 2B3.									
52.52	52.92	DIA Diabase Sudbury Breccia : Highly magnetic heterogeneous dark grey-green, medium grained DIA with slivers/enclaves of GAB caught up in it. Disseminated py locally.									
52.92	53.91	PMGB partial melt - gabbroic Sudbury Breccia : Massive pink, relatively uniform PM with exsolved grey qtz and dark green residual mafic minerals. Conjugate set of very fine, white, straight fractures with qtz fills at 70 TCA and 60 TCA and an angle of 50 degrees described between them.									

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53.91	54.50	DIA Diabase Sudbury Breccia : Highly magnetic heterogeneous dark grey-green, medium grained DIA with slivers/enclaves of GAB caught up in it. Disseminated py locally. Lower contact is marked by 5cm SDBX.									
54.50	63.44	GAB Gabbro Sudbury Breccia : Heterogeneous gabbro with small PM and SDBX (60.08m - -60.14 - both; 61.12m - 61.3m PM; 61.6m - 61.65m both; 61.8m - 61.84m both; 61.95m - 62.1 PM; 63.25m - 63.88m PM patches). Upper zone is strongly Sil-hem altered about a broken core zone with a core of silica-hem vein (55.35m). Small chloritic high strain zones are likely pre-Sudbury.									
63.44	65.11	SDBX Sudbury Breccia Sudbury Breccia : 20% SDBX with large fragments of MGN and lesser GAB. Matrix is fine grained (possible biot. Phenos), med-dark grey. Fragments have 1mm reaction rim and some PM in SDBX - 2B3.									

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65.11	67.69	GAB Gabbro Heterogeneous gabbro with small PM and SDBX. Small chloritic high strain zones are likely pre-Sudbury are susceptible to epidote alteration and PM generation . Silica bleaching around hem-qtz-chlorite bearing veins both irregular and straight sided (15 TCA and 45 TCA)									
67.69	71.00	DIA Diabase Matachewan dike with gabbro enclave (69.25m - 69.33m). Fine grained, dark grey-green, MS mag, rare 3mm glomeroporpha. SDBX (69.92m - 68.99m; 69.33m - 69.4m) at contact with enclave and PM (1 cm) at the lower contact.									
71.00	77.34	GAB Gabbro Typical gabbro with medium grey 2B3 SDBX veins (73.3m - 73.48m with PY; 75.8m - 75.85m with PY) and PM (73.65m - 73.68m with PYPO; 74.81m - 74.84 with PY; 75.22m - 75.23)									
77.34	78.22	SDBX Sudbury Breccia Dark grey matrix with wispy white fragments and sharper sided cobble sized gabbro fragments. 2B3. PM patch at 78m. Sulphides in gab frags.									

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78.22	116.65	GAB Gabbro Sudbury Breccia : Gab with very heterogeneous nature, and small DIA dikes or strange abundantly (30%) megacrystic (euhedral fspars up to 4cm) texture in fine-med grained, non-magnetic gabbro groundmass (could it be a late, ill-developed almost pegmatite in the gabbro?). Cut by SDBX dikes (78.58m - 78.75m with PM; 84.79m - 84.82m straight sharp sided at 20 TCA; 101.13m-101.4m with PY & PO dissemin in and in fine ACT fracture; 107.92m - 108m; 114.9m - 114.92m with PY; 113.9m - 114m with PM; 114.13m - 114.14m with PM) and PM (108.78m - 108.79m @ 40 TCA with ACT; 109.12 - 109.13m; 110.43m - 110.48m with EP; 111.12m - 111.18m; 113.5m - 113.51m with PY; 116.57m - 116.62m with SDBX rims). Enclaves of MGN (91.85m - 93.5m) and PEG dikes (87.85m - 88m; 92.55m - 92.8m; 98.46m - 98.56m; 102.32m - 102.54 with SDBX; 108.59m - 108.66m; 111.89m - 111.94m). Epidote-quartz-sericite with associated bleaching and epidote veinlets are sporadic. Hematitic fracture fills and epidote fracture fills are associated with broken core. A zone of mechanically broken core is between 105.46m - 106.53m.									
116.65	123.59	DIA Diabase Sudbury Breccia : very fine to fine grained, dark grey-green, MS magnetic Matachewan dike with v. rare 0.8cm glomeroporphy. No SDBX, PM or PEG and essentially unaltered.									
123.59	144.97	GAB Gabbro Sudbury Breccia : Very strongly magnetic. Heterogeneous (but less so than 78-116m) GAB. Coarse grained with weak to well developed foliation. Cut by SDBX +/- PM (125.03m - 125.34m with some PM, 2B3 with biotite phenos, wispy frags some of which have a PM rind; 127.66m - 127.83m; 135.54m - 135.58m with PM; 136.39m - 136.41m). Very narrow PM veins (143.8m - 143.84m; 144.42m - 144.44m). Small hematite gouge zone truncates a zone of epidote alteration. Patches/'veins' of pre-Sudbury chlorite-silica alteration occur sporadically.									

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144.97	148.40	SDBX Sudbury Breccia 60% SDBX with large GAB and MGN and some PEG fragments. Matrix is dark grey, fine grained with likely biotite phenos. Fragments have relatively sharp contacts with limited PM halos.									
148.40	149.25	MGN Mafic Gneiss Very highly magnetic, heterogeneous, medium-coarse grained with foliation in various orientation. Likely a meta-gabbro - possibly altered Wisner GAB.									
149.25	151.91	SDBX Sudbury Breccia 70% SDBX with large Gab and MGN fragments. Matrix is dark grey, fine grained with likely biotite phenos. Fragments have relatively sharp contacts with limited PM halos.									
151.91	156.70	GAB Gabbro Highly Magnetic homogeneous, medium grained chloritic gabbro that seems somewhat silicified.									

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156.70	157.36	SDBX Sudbury Breccia 100% 2B3 SDBX with medium grey matrix bearing abundant magnetite; fragments slightly wispy with limited PM. Tensional grey-green epi-ser veinlets									
157.36	158.65	GAB Gabbro Strongly magnetic, coarse grained GAB with local black, siliceous chloritic shears.									
158.65	159.00	SDBX Sudbury Breccia 60% SDBX: 2B3 with medium grey matrix bearing abundant magnetite; fragments slightly wispy with limited PM. Large GAB fragments									
159.00	159.98	GAB Gabbro Strongly magnetic, coarse grained GAB with local black, siliceous chloritic shears. 2cm SDBX vein with a 0.5cm core of PM @ 20 TCA (159.79m - 159.81m).									

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159.98	160.47	SDBX Sudbury Breccia 100% with PM 2B3 with medium grey matrix; fragments wispy with limited PM. Ductily deformed PEG fragments									
160.47	161.41	GAB Gabbro 5% SDBX in strongly magnetic, coarse grained GAB with local black, siliceous chloritic shears. 4cm wide SDBX with 0.5cm core of PM at bottom of interval									
161.41	169.24	GAB Gabbro Highly magnetic homogeneous medium grained gabbro with strong alteration overprint changing its apparent character. Sil-chl altered pre-Sudbury. Disseminated magnetite and pyrite. Sheared gabbro at 163.85-164m. Chloritic gouge at 164m.									
169.24	171.76	SDBX Sudbury Breccia									

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		100% 2B3 SDBX with dark grey, fine grained matrix and mix of equant and stretched fragments with very fine wispy halos. Matrix contains relatively abundant euhedral PY at lower part of the interval. Magnetic.									
171.76	181.91	GAB Gabbro Sudbury Breccia : Heterogeneous (in part due to SIL alteration near the top of the interval), coarse and medium grained, variably magnetic (highly at top with patches of weakly magnetic intervals), local early, dark grey-green silica-chlorite zones 0.3cm - 3cm in lower part. Cut by Qtz-epi-hem zones; small PEG @ 165m (2cm). SDBX 180.65-180.80 is dark brown with limited PM (2B3).									
181.91	185.90	SDBX Sudbury Breccia Sudbury Breccia : 90% SDBX with 2 x <10cm fragments of GAB. Medium-dark grey, fine grained with locally developed biotite porphs; fragments are quite wispy with thin PM halos but not aligned. In general it seems somewhat hotter here than in the overlying core, but still 2B3>2B2. Disseminated py-po throughout (trace). Cut by chlorite (possib ACT but I think not) fracture fills with bleached halos and relatively abundant Py PO in adjacent rock (sampled).									
185.90	189.85	GAB Gabbro Sudbury Breccia : Heterogeneous (in part due to SIL alteration zones), coarse and medium grained, variably magnetic; local early, dark grey-green silica-chlorite zones 0.3cm - 3cm. Narrow, discrete SDBX - 185.9-185.905m (@30 TCA); 186.11- 186.125m (@15 TCA). Lower contact somewhat gradational, but I chose to break it out at the first main SDBX vein.									

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189.85	192.17	SDBX Sudbury Breccia 35% SDBX in GAB - fragments of GAB>DIA (with Granitic frags near the lower contact) are wispy and look somewhat ductile - 2B3>2B2. Trace disseminated PY is irregularly distributed.									
192.17	198.07	GRGN granite gneiss Foliated, heterogeneous granite to gneissic granite cut by PEG, DIA, and SDBX. Epid zones with SIL zones outboard of them in patches and adjacent to SDBX. PY disseminated weakly throughout. DSBX: 193.26m - 193.61m; 193.83m - 193.85m; 193.96m - 194.6m; 197.58m - 197.62m.									
198.07	201.27	SDBX Sudbury Breccia 45% SDBX with large fragments of GR, DIA, PEG with a ductile aspect to it and the fragments have PM halos. Matrix is relatively coarse grained (fine-med) with abundant biot. 2B2>2B3. PY is irregularly distributed in subhedral disseminations. Hem fracture (limited gouge?) with 2cm bleached halo.									

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201.27	222.50	GRGN <i>granite gneiss</i> Sudbury Breccia : Very heterolithic granitic gneiss with local patches of "diabase" that cut the gneissosity/foliation (that is not swarm type rather a fine-med grained, mafic-intermediate homogeneous grey rock with an apparent igneous texture); PEG that locally cuts the foliation, and leucosomes and melanosomes. All cut by SDBX (214.19m - 214.24m; 215.1m - 215.12m @ 20TCA; 216.18m - 216.37m; 216.56m - 216.77m; 216.94m - 217.08m. Epid-qtz veins cut by Qtz-hem fracture fills. The angle between these features is 80. Chl-epid +/-qtz fracture fills have unclear timing relationship with the other alteration structures.									
222.50	223.43	SDBX <i>Sudbury Breccia</i> Sudbury Breccia : 100% SDBX with primarily GRGN fragments up to 20cm. Medium grey, fine-med grained matrix with biot phenos; fragments are rounded and have PM halo. 2B2=2B3. Limited dissem. PY throughout unit									
223.43	225.38	GRGN <i>granite gneiss</i> Sudbury Breccia : Very heterolithic granitic gneiss; PEG that locally cuts the foliation, and leucosomes and melanosomes. All cut by SDBX in thin veins that are locally flooded with Epi-Ser alteration. Very limited (trace), dissem. Euhedral PY.									
225.38	230.11	SDBX <i>Sudbury Breccia</i> Sudbury Breccia : 80% SDBX with a few large fragments primarily GRGN with some DIA (as in unit 201-222m; 230-231m) both species of >20cm sized fragments. Medium grey, fine-med grained matrix with biot phenos; fragments are rounded and have PM halo. 2B2=2B3. Limited dissem. PY throughout unit. Local									

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		moderate epidote flooding.									
230.11	231.15	DIA <i>Diabase</i> Sudbury Breccia : Fine-med grained, mafic-intermediate homogeneous grey rock with an igneous intrusive, homogeneous and equigranular texture; MS magnetic. Cut by irregular SDBX veins sub-parallel TCA that pinch and swell between 1cm-3cm width.									
231.15	232.24	SDBX <i>Sudbury Breccia</i> Sudbury Breccia : 100% SDBX. Medium grey, fine-med grained matrix with biot phenos; angular fragments of megacrystic qtz-monzonite. Irregular fractures with hem fracture fill in 2 (conjugate?) sets with 50 degree angle between them.									
232.24	236.19	MCQMON <i>Megacrystic Quartz Monzonite</i> Sudbury Breccia : Coarsely megacrystic (>2cm) quartz monzonite in fine grained, dark grey groundmas with fine SDBX veinlets locally.									

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236.19	236.88	SDBX Sudbury Breccia 100% SDBX with medium grey, fine-med grained matrix with biot phenos; fragments have PM halo (1-2mm). 2B2=2B3. Patches of alteration (ep-ser that is late) cut by negative weathering chlorite fractures with bleached halos and associated PY blebs/dissem.									
236.88	248.28	MCQMON Megacrystic Quartz Monzonite Coarsely fspar megacrystic (up to 4 cm) quartz monzonite with fine grained, dark grey-green groundmass of chlorite, quartz and very fine dissem subhedral PY. Fine SDBX veinlets locally and bigger veins 241.8m - 241.96m and 247.58m - 247.66m. Changes in the overall colour of the unit reflect hm +/-chl and qtz alteration (i.e. 242m - 245m) adjacent to BX vein. 2-8mm epidote irregular vein subparallel TCA is cored by and sltilyly transected by a black chlorite and qtz structure that follows the vein. Minor gouge and slickensides on the chlorite.Vein controlled CP+PY in qtz-chl-ep vein.									
248.28	249.88	SDBX Sudbury Breccia 50% SDBX with large, rounded fragments of MCQMON cut by granite. Matrix is grey, ep-ser altered, fine grained with biot. Porphs. Fragments are angular and rounded not elongate and wispy but with PM halos (1-2mm). 2B3.									
249.88	250.34	MCQMON Megacrystic Quartz Monzonite Large fragment of mega-crystic quartz monzonite in the SDBX. MS magnetic. Smaller fspars (1.5-2cm).									

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<i>From</i> (m)	<i>To</i> (m)	<i>Lithology</i>	<i>Sample #</i>	<i>From</i>	<i>To</i>	<i>Length</i>	<i>Au</i> (g/t)	<i>Pt</i> (g/t)	<i>Pd</i> (g/t)	<i>Ni</i> (%)	<i>Cu</i> (%)
		Ser-ep alteration zone is cut by black chlorite-qtz veins. Dissem PY in groundmass (tr). 2cm SDBX vein at 250.12m.									
250.34	251.25	SDBX Sudbury Breccia 30% SDBX in very fine grained, MS mag, medium grey diabase. SDBX in upper contact of DIA and MCQMON and running through the lower 'fragment' of the diabase. Conjugate pair of tensional QV with a 140 degree separation giving a Sigma 3 orientation of 85 TCA. Diabase is riddled with a very fine network of epidote cut by qtz-chl vein.									
251.25	264.64	MCQMON Megacrystic Quartz Monzonite Coarsely fspar megacrystic (up to 4 cm) quartz monzonite with fine grained, dark grey-green groundmass of chlorite, quartz and very fine dissem subhedral PY. A few Diabase enclaves or dikes (317.12m - 317.18m; 317.45m - 317.53m; 317.87m - 318.13m). Small, irregular SDBX veins occupying 5-10% of interval (1cm to 8cm wide) at 300.8m - 303m, and a single vein at 317.8m - 317.83m. Chl-ep fracturew with some movement associated with bleached and hem altered zones.									
264.64	280.50	GRGN granite gneiss Very heterogeneous with diabase, gneissic banding or strong foliation, small PEG dikes and large qtz-chl-ep veins (look like metamorphic sweats). Contact with underlying DIA is very diffues and interactive with flames and metamorphic qv associated. At a low angle TCA.									

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280.50	283.73	DIA Diabase Sudbury Breccia : Likely Matachewan dike, but with abundant enclaves of the overlying GRGN unit entrained in it - perhaps due to contact being at a low angle TCA (5 TCA). A wide contact related qtz-Chl-ep vein (sampled) with a tiny (<1mm) bleb of CP and a patch of euhedral PY. SDBX veins at 283.42m - 283.44m; 283.56m - 283.6m and marking the lower contact (10 TCA).									
283.73	319.18	MCQMON Megacrystic Quartz Monzonite Sudbury Breccia : Coarsely fspar megacrystic (up to 4 cm) quartz monzonite with fine grained, dark grey-green groundmass of chlorite, quartz and very fine dissem subhedral PY. A few Diabase enclaves or dikes (317.12m - 317.18m; 317.45m - 317.53m; 317.87m - 318.13m). Small, irregular SDBX veins occupying 5-10% of interval (1cm to 8cm wide) at 300.8m - 303m, and a single vein at 317.8m - 317.83m. Chl-ep fracturew with some movement associated with bleached and hem altered zones.									
319.18	322.18	MYL Mylonite Sudbury Breccia : MYL/GRGN/MCQMON - I believe this is an old shear zone interface between the megacrystic quartz-monzonite and the granitic gneiss (already gneissic). Highly ductily sheared particularly at the top of the interval, with dynamic interleaving of the gneiss and the strained MCQMON.									

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322.18	323.60	SDBX Sudbury Breccia 35% SDBX with medium grey fine grained with somewhat wispy fragments with PM halos 2B3. Dissem euhedral/subhedral PY in matrix. Fragments are strained MCQMON and GRGN.									
323.60	329.30	GRGN granite gneiss GRGN/MCQMON - Highly ductily sheared dynamically interleaved gneiss and the strained MCQMON; strained PEG at 326.3-326.75. Brittle fault with chlorite gouge									
329.30	333.22	MCQMON Megacrystic Quartz Monzonite Coarsely megacrystic - less strained and more uniform than the overlying unit, though still enjoying the effects of stress.									
333.22	333.52	SDBX Sudbury Breccia At contact between MCQMON and GRGN is a SDBX with medium grey (ser-ep altered) matrix with biot porphs and sharp edged fragments with no PM - looks cooler (we did cross a brittle fault). 2B3>2B4. A large MCQMON fragment occupies much of the unit.									

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333.52	367.37	GRGN <i>granite gneiss</i> Sudbury Breccia : Dynamically interleaved gneiss, sheaves of strained MCQMON and strained DIA and PEG. Cut by DSBX (2B3=2B4) (341.35m - 341.38m; 341.75m - 341.83m irregular). Zones of mechanical broken core. Pyrite is relatively abundant and coarse in chlorite-qtz-ep-pyrite veins (2-4mm wide) at low angles TCA (where mineralized they are at slightly higher angles - 10 TCA and 15 TCA respectively. Apparently barren chlorite-qtz-ep vein runs 5 or less tca.									
367.37	377.44	SDBX <i>Sudbury Breccia</i> Sudbury Breccia : 50% SDBX with GRGN, MCQMON, DIA frags all >20cm and <50cm. Matrix is locally ser-epi altered with subhedral to anhedral PY (tr), med to dark grey, fine grained, some biot porphs. Fragments round or angular not wispy, but commonly have a narrow reaction rim 1-2mm wide. 2B3. Irregular CP bleb (3-4mm) smeared on fracture surface in a patch of SIL alteration.									
377.44	378.49	MCQMON <i>Megacrystic Quartz Monzonite</i> Sudbury Breccia : Large fragment in SDBX zone with 3cm megacrysts and a weak foliation. Cut by PEG.									

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378.49	379.07	SDBX Sudbury Breccia 100% SDBX. Fragments have sharp contacts and no apparent reaction rims, matrix is fine grained and dark grey (except in ser-ep altered zones that are in patches and fractures). 2B3>2B4.									
379.07	381.55	DIA Diabase Looks like a Matachewan Diabase, with dark grey-green, fine grained, glomeroporphyritic. However it is weakly to non-magnetic. Weak ser-ep alteration at the contacts.									
381.55	382.11	MCQMON Megacrystic Quartz Monzonite Large fragment in SDBX zone with 3cm megacrysts and a weak foliation. Cut by PEG.									
382.11	383.25	SDBX Sudbury Breccia 60% SDBX with large, rounded MCQMON and GR fragments, fragments don't display reaction rims. Dark grey, fine grained matrix with limited biotite porphs and trace disseminated anhedral PY.									

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383.25	392.72	GRGN <i>granite gneiss</i> Very heterogeneous with strongly foliated MCQMON intervals and PY rich mafic bands. Small SDBX veins (385.49m - 385.56m; 385.95m - 385.97; 388.85m - 388.88m; 389.25m - 389.28m; 389.52m - 389.54m). Dark grey matrix, sharp fragment contacts. 2B3=2B4. Broken, late, drusy calcite vein/cavity fill with euhedral PY adorning the calcite crystals.									
392.72	393.62	GR <i>Granite</i> Dark salmon-pink, equigranular, med-coarse grained granitoid riddle with irregular and multi-directional chlorite-qtz fracture fills. Late tensional Calcite-qtz tensional fracture fills with Sigma 3 at 60 TCA. SDBX vein at 392.42m - 392.47m.									
393.62	400.04	GAB <i>Gabbro</i> Coarse grained mafic rock with large feldspars in a groundmass of chlorite and feldspar. Cut by PEG dikelets and a 10-15cm qtz-epidote vein. Late ser-ep veins/patches/zones of fracture fills. EOH									

DRILL HOLE REPORT

 Hole Number **WIS-188**

 Project: **WISNER_GLENCORE NRJV**

 Project Number: **642**

Drilling	Casing	Core	Location	Other
Azimuth: 360	Length: 0	Dimension: NQ	Township: WISNER	Logged by: Lindsay Hall
Dip: -45	Pulled: no	Storage: Core Shed	Claim No.: 984642	Relog by:
Length: 500.01	Capped: yes	Section:	NTS:	Contractor: Jacob & Samuel Drilling Ltd.
Started: 19-Nov-14	Cemented: no	Hole Type DD	Hole: SURFACE	Spotted by: Tom Johnson
Completed: 25-Nov-14				Surveyed:
Logged: 24-Nov-14				Surveyed by:
Comment: Some sections were logged by GyTuba (approximately 100m - 134m; 281m - 338m).			Coordinate - Gemcom	Geophysics: BHEM
			East: 498212	Geophysic Contractor:
			North: 5178193	Left in hole: Nothing
			Elev.: 415	Making water: no
			Zone: 17	Multi shot survey: no
			NAD: 27	

Deviation Tests

<i>Distance</i>	<i>Azimuth</i>	<i>Dip</i>	<i>Type</i>	<i>Good</i>	<i>Comments</i>
0.00	360.00	-45.00	C	<input checked="" type="checkbox"/>	
14.00	356.30	-46.00	F	<input checked="" type="checkbox"/>	5572
65.00	353.50	-45.60	F	<input checked="" type="checkbox"/>	5332
116.00	0.50	-45.60	F	<input checked="" type="checkbox"/>	5192
167.00	358.20	-45.00	F	<input checked="" type="checkbox"/>	5052
218.00	4.60	-44.40	F	<input checked="" type="checkbox"/>	5194
269.00	359.10	-43.70	F	<input checked="" type="checkbox"/>	5522
320.00	358.60	-43.50	F	<input checked="" type="checkbox"/>	5539
371.00	358.40	-43.30	F	<input checked="" type="checkbox"/>	5539
422.00	358.20	-43.10	F	<input checked="" type="checkbox"/>	5527
473.00	0.50	-43.00	F	<input checked="" type="checkbox"/>	5451

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0.82	6.18	DIA Diabase Fine grained, dark grey-green, strongly magnetic Matachewan Diabase with no glomeroporpha. Limited wispy PM (3-5mm). Broken core with limonitic flat fractures									
6.18	10.55	GRGN granite gneiss heterogeneous pink, green, grey, white banded (locally 'swirly') granitoid gneiss with patches of equigranular, massive medium grained feldspathic granitoid. Cut by late straight hematitic fractures with later yellow limonitic filling.									
10.55	11.37	MGN Mafic Gneiss Heterogeneous banded to foliated mafic gneiss intruded by (gneissic) granitoid. Locally cut by PM veinlets (<1cm) at 11.06m and 11.15m.									
11.37	13.50	GAB Gabbro Heterogeneous, coarse grained, amph-chlorite gabbro with weak to moderate foliation. Patches and dikes/domains of finer grained, weakly pyritic, mafite. Cut by small (<1cm) PM veinlets at 12.43m and 12.82m.									

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13.50	19.05	<p>MGN Mafic Gneiss</p> <p>Sudbury Breccia :</p> <p>Heterogeneous, strongly foliated to weakly banded, medium grained mafic (amphibolitic) rock with abundant meta granitic dikes/enclaves (25% of interval). PM veins most common and largest at mafic-felsic contacts and in felsic gneiss, but found individually in both. PM is abundant but <5% of interval. Straight late fractures with oxides on the surfaces. One family is epidote and oxide.</p>									
19.05	89.50	<p>GAB Gabbro</p> <p>Sudbury Breccia :</p> <p>Coarse-grained, amph-rich gabbro with slight fabric and short (<2 m) gneissic intervals of alternating coarser and finer grained gabbro. Enclaves of GRGN and PEG dikes are locally abundant. Patches of relatively abundant interstitial PY in the finer grained phase of the gabbro. PM small patches and veins with sharp contacts occur throughout the interval. Rare small SDBX veins occur at the contacts of PM and within the GAB. SDBX is characterised by wispy fragments in dark grey, very fine grained matrix (2B3). PM: 23.32m - 23.25m; 26.38m - 26.39m; - 29.92m - 29.26m (40 TCA); 28.6m - 28.61m (45 TCA); 28.68m - 28.72m (45TCA, with flanking SDBX); 29.9m - 29.94m (45 TCA); 30.33m - 23.38m (45 TCA); 35.07m - 35.09m; 37.8m - 37.89m; 41.77m - 41.87m (45 TCA); 72.8m - 72.85m; 77.15m - 77.22m; 86.03m; 87.76m - 87.78m; 88.3m - 88.55m. SDBX: 48.8m (1cm); 56.66-56.73m (ends against fault) with PM; 88.12m - 88.13m. Chlorite-epidote filled fault with chloritic gouge and slickensides and a late brittle cherry red hematite gouge zone/fault. Chlorite alteration is present in late fractures; epidote is present in fractures and adjacent rock as pervasive alteration; zones of silicification and bleaching +/- pyrite occur in patches.</p>									
89.50	100.92	<p>MGN Mafic Gneiss</p> <p>Sudbury Breccia :</p> <p>heterogeneous banded (but with interleaved intervals of foliated GAB), medium grained, reasonably equigranular mafic gneiss. Cut by PEG and enclaves of GRGN. SDBX 94.9m - 94.92m; 95.41m - 95.94m. PM veinlet 99.82m - 99.83m</p>									

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100.92	133.93	GAB Gabbro Sudbury Breccia : Coarse-grained, amph-rich gabbro with slight fabric and short (<2 m) gneissic intervals (e.g., 102.48-105.46: alternating c/g and f/g, mafic domains, latter contains 1% disseminated py). Felsic (granitoid) units, up to 1 m, occasionally appear cutting the gabbro, usually pm'd: 115.79-116.90 (with massive qtz at lower contact, probably mmph segreg), 119.71-120.40 (ductile shearing at lower section continued in GAB below to 120.69; PM vein cuts fabric and is not deformed), 124.9-126.00 (slightly pm'd), 133.55-133.93 (heavily pm'd with ep and cc in miarolitic cavities). Pm also occurs as veins (no systematic dip TCA but >40 degrees) and in situ pockets (up to 10 cm in diameter).									
133.93	137.94	MGN Mafic Gneiss Sudbury Breccia : banded intermediate-mafic, medium grained amphibolitic gabbroic to meta-mafic rock. Zones of ductile strain with finer grain size and stronger fabric normal TCA. Narrow (1-2cm) bands of pegmatitic granite/leucosomes are parallel with the gneissic fabric. Epidote is present as disseminations and in patches associated with abundant fractures. Disseminated PY relatively abundant throughout the interval.									
137.94	167.58	GAB Gabbro Sudbury Breccia : heterogeneous coarse grained gabbro with broad PM veins, PEG, DIA and limited SDBX at internal contacts with DIA. Small high strain zones with fine grained chlorite and strong fabric development - pre Sudbury. PM: 138.16m - 138.36m; 139.82m - 139.96m (SDBX); 143.7m - 143.71m; 146.24m - 146.26m (SDBX, 2% blebby PY); 147.2m - 147.23m (40 TCA); 149.2m - 149.23m (SDBX at DIA contact); 151.25m - 151.4m; 151.6m - 151.86m. SDBX: 163.13m - 163.15 (@ DIA contact). Large Mata DIA:									

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		161.4m - 163.13m.									
167.58	170.85	DIA Diabase Highly magnetic, dark grey-green fine grained Matachewan diabase with GAB enclave and no significant alteration. No PM or SDBX.									
170.85	189.98	GAB Gabbro heterogeneous, coarse grained gabbro with narrow DIA dikelets and small (3-5cm), relatively rare PEG dikes. PM and SDBX are commonly at contacts with PEG. Chloritic shears are pre-Sudbury. Late tensional chlorite fracture fills at 20 TCA cut others at 60 TCA. Epid is perv and in fract. SDBX: 174.56m - 174.58m; 182.81m - 182.82m; 187.07m - 187.18m; dark fine grained with indistinct wispy fragments. Limited to no PM. Sharp contacts - 2B3.									
189.98	190.30	SDBX Sudbury Breccia small zone of SDBX at contact between GAB and DIA. Medium to dark grey, very fine grained, with wispy fine, pinkish fragments. 2B3									

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190.30	193.98	DIA Diabase Sudbury Breccia : very fine grained, dark grey-green, variably magnetitic (weak where it has had epid alt). Small zones of 'in situ' looking PM with rare flecks of CP. Perv, fract-fill epid-ser alt.									
193.98	194.47	MGN Mafic Gneiss Sudbury Breccia : banded intermediate-mafic, medium grained amphibolitic gabbroic to meta-mafic rock. Zones of ductile strain with finer grain size and stronger fabric normal TCA. Narrow (1-2cm) bands of pegmatitic granite/leucosomes are parallel with the gneissic fabric. Epidote is present as disseminations and in patches associated with abundant fractures. Disseminated PY relatively abundant throughout the interval. Nothing really interesting.									
194.47	215.44	GAB Gabbro Sudbury Breccia : coarse grained GAB - heterogeneous with bands of finer grained diabasic mat'l and likely enclaves of MGN. Variable foliation development. VERY strongly magnetic. Cut by SDBX, PM oft. Together. All cut by late black chl-sil fractures that are somewhat irregular and nearly parallel TCA. SDBX: 199.35m - 199.5m (45 TCA); 203.84m - 203.9m; 207.78m - 207.79m (10 TCA). PM: 200.82m - 200.98 with SDBX.									
215.44	216.75	SDBX Sudbury Breccia Sudbury Breccia : 2B2/2B3? Very intimately PM intruded SDBX so it looks particularly hot with wispy GAB fragments that									

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		are very diffuse and 'swirly'. Matrix is medium pinkish (due to PM) grey with black biotite porphs (1mm, common). Fine veinlets and broader veins of PM with abundant epidote and quartz. No apparent mineralization. Sampled. Late fine epidote-sericite fractures overprinting all.									
216.75	220.40	PMGB <i>partial melt - gabbroic</i> Sudbury Breccia : Very coarse PM (with some hot SDBX remnant enclaves 219-219.66m). No apparent sulphides. Large patches with predominant feldspar and limited interstitial epidote-qtz-amph, other patches dominated by epidote, amphibole or epidote-quartz. No note-worthy over-printing alteration or structures.									
220.40	229.33	GAB <i>Gabbro</i> Sudbury Breccia : Coarse grained, foliated, variably coloured, heterogeneous GAB is cut by a PEG dike subparallel TCA (approx. 5 TCA). PEG-GAB contact is intruded by SDBX (1-2cm) that is fine grained, medium grey and subsequently intruded and partially replaced by PM which locally replaces PEG as well. All cut by a tensional array of white-grey 'bull' quartz veins at a somewhat higher angle TCA (10 TCA) than the PEG/SDBX/PM. No significant sulphides noted. Bottom 50cm of interval is PM=SDBX each occupying 50% of the core in a local blow-out.									
229.33	233.58	GAB <i>Gabbro</i> Sudbury Breccia : Coarse grained, foliated, variably coloured, heterogeneous GAB as above unit but lacking the significant proportion of PEG/SDBX/PM. Two PM veins do intrude at (231.2m - 231.31m with narrow flanking SDBX veinlets; 231.52m - 231.63m)									

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233.58	241.22	DIA Diabase Strongly magnetic, unaltered, unmineralized, fine grained, dark grey-green Matachewan Diabase. No SDBX or PM noted in this interval.									
241.22	281.50	GAB Gabbro This unit continues into Gy Tuba logging section. Coarse-grained, heterogeneous, amph-rich gabbro with slight fabric and local fine grained chloritic (+/-SIL) high strain zones with PY (242.75m - 242.92m). PEG intrudes high strain zones (245.33m - 245.53m; 245.7m - 245.77m) and in unstrained rock (268.08m - 268.3). PM intrudes the PEG at 268.3m - 268.57, and the GAB at 263.31m - 263.34m. SDBX at 257.51m - 257.56m. Strong epidote-qtz alteration at PEG/PM zone (268.57m - 268.7m)									
281.50	281.81	FLT Fault Sudbury Breccia :									

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281.81	287.35	GAB	Gabbro										
287.35	291.22	SDBX	Sudbury Breccia										
291.22	299.33	GAB	Gabbro										
299.33	300.29	SDBX	Sudbury Breccia										
300.29	303.87	GAB	Gabbro										

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Project: **WISNER_GLENCORE NRJV**

Project Number: **642**

<i>From</i> (m)	<i>To</i> (m)		<i>Lithology</i>	<i>Sample #</i>	<i>From</i>	<i>To</i>	<i>Length</i>	<i>Au</i> (g/t)	<i>Pt</i> (g/t)	<i>Pd</i> (g/t)	<i>Ni</i> (%)	<i>Cu</i> (%)
303.87	310.43	SDBX	<i>Sudbury Breccia</i>									
310.43	311.76	PEG	<i>Pegmatite</i>									
311.76	317.11	DIA	<i>Diabase</i>									
317.11	318.22	SDBX	<i>Sudbury Breccia</i>									

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318.22	321.04	GAB	Gabbro										
321.04	325.19	SDBX	Sudbury Breccia										
325.19	328.77	MCQMON	Megacrystic Quartz Monzonite										
328.77	330.43	MGN	Mafic Gneiss										

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330.43	333.65	SDBX	Sudbury Breccia									
				Sudbury Breccia :								
333.65	337.48	IGN	Intermediate Gneiss									
				Sudbury Breccia :								
337.48	337.80	SDBX	Sudbury Breccia									
				Sudbury Breccia :								
				2B3 - mix of GAB and PEG fragments (up to cobble sized) in a dark grey, very fine grained matrix. Fragment margins are sharp with very limited PM development (<1mm primarily on PEG frags). Anhedral PY is dissem (0.5%) throughout. Parallel, straight, thin (<1mm) qtz fractures with narrow bleached halos.								
337.80	342.19	MGN	Mafic Gneiss									
				Sudbury Breccia :								
				Moderate to strong foliation of med grained chl-amph bearing gabbroic gneiss cut by MCQMON dikelets that are dismembered and foliated with the meta-gabbro. Epidote alteration is focussed in MCQMON.								

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342.19	345.85	IGN Intermediate Gneiss Sudbury Breccia : Grey, coarse grained, foliated intermediate gneiss of 65% fspar, 10% qtz, 25% chlorite. Calcite-chlorite fracture (3mm) with narrow bleached halo (30 TCA).									
345.85	368.35	MGN Mafic Gneiss Sudbury Breccia : Moderate to strong foliation of med grained chl-amph bearing gabbroic gneiss cut by MCQMON dikelets that are dismembered and foliated with the meta-gabbro. Coarse zones with big biotite crystals are cut by chloritic fractures. PEG dikes are deformed within the gneiss and locally undeformed (363.4m - 363.75m). Cut by various alteration facies and styles: weak chlorite fracture fills (20 TCA); weak to mod chlorite-qtz fracture fills (50 TCA) concentrated in PEG; chlorite fractures with bleached halos (30 TCA). PY bearing chl-qtz veins with bleaching and PY disseminated in proximity to these veins. A bleached zone that 'nicks' the core surface contains relatively abundant blebby CP while other neighbouring bleach zones have ep and PY. 6mm QV, zones of SIL and ep and a calcite-quartz-amphibole veinlet also occur near the lower contact of unit.									
368.35	371.20	FLT Fault Sudbury Breccia : Broad alteration zone surrounding a qtz vein sealed fault with limited associated broken core. Strongly foliated country rock with grainsize reduction and bluish-green chlorite. Up hole from the qv, the silica flooding is less well developed than down hole where it is penetrative and MS -obscuring the underlying textures in the rock. Up hole, qtz-cal-chl veins in 2 sets (20 TCA and 50 TCA - with only 30 degrees between them) cut the older qtz-blue chlorite that locally occurs as pull-aparts in a PEG dikelet. There is									

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		also relatively abundant, disseminated, euh PY. Down hole a parallel array of squiggly calcite tension gashes with pull aparts indicating apparent normal movement relative TCA, and indicate a Sigma 3 at 10 TCA and a Sigma 1 at 80 TCA.									
371.20	412.48	IGN Intermediate Gneiss Very heterogeneous, variably foliated/banded, coarse to fine grained, compositionally varied (granitic to gabbroic) gneiss. Patches of SIL that obscures the texture are overprinted by a spaced tensional array of calcite fractures indicating a sigma 3 at 90 TCA. Patches of pervasive and fracture controlled epidote alteration overprints a QV and the silicification with PY									
412.48	450.70	MCQMON Megacrystic Quartz Monzonite Megacrystic (up to 4cm) qtz monzonite with fine grained dark grey qtz-chl-amph groundmass (30%); patches that are equigranular; mafic xenoliths and enclaves of MGN; cut by PEG. Zones of penetrative silicification. Small, penetratively ep-ser altered with sharp fragment contacts, very irregular and wispy in form SDBX veinlets that are locally abundant (416.33m - 416.61m - 10 % of interval; 428.85m - 1 cm veinlet; 449.6m - 449.75 - 50% of interval; 450.25m - 450.55m - 25% of interval.									
450.70	453.00	DIA Diabase Magnetic, fine grained, dark grey, rare glomeroporphy, Matachewan diabase with an enclave of MCQMON. Cut by thin irregular SDBX veinlets 2B4 with no sulphides (450.95m - 451.55m 20%;									

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		452.28m - 453m 15%). Cut by Ser-ep alt. small PM patches (251.69m - 251.83m - 10%). Fault near the top of the interval has 0.8cm wide well preserved, soft, cherry red hematite gouge.									
453.00	500.00	MCQMON <i>Megacrystic Quartz Monzonite</i> Sudbury Breccia : Megacrystic (up to 4cm) qtz monzonite with fine grained dark grey qtz-chl-amph groundmass (30%); patches that are equigranular and darker - these textural domains are intimately interleaved particularly near the bottom of the interval; mafic xenoliths and enclaves of MGN; cut by PEG that are preferentially brittle fractured with epi and chl fracture fills. PEG dikes at the bottom of the interval are penetratively ep-ser altered. Small chloritic high strain zones (pre-Sudbury). Variably magnetic, but mostly strongly. Epidote alteration is best developed in equigranular phases as pervasive and fracture fills. 1 cm > SDBX veinlets (469.48m and 476.85 in a chloritic high strain zone; 479.5m - 479.52m at internal contact of a textural change) are penetratively ep-ser altered. Trace - 0.5% disseminated subhedral PY throughout interval.									
500.00	500.01	EOH <i>End of Hole</i> Sudbury Breccia :									

DRILL HOLE REPORT

 Hole Number **WIS-189**

 Project: **BROKEN_HAMMER_NRJV**

 Project Number: **263**

Drilling	Casing	Core	Location	Other
Azimuth: 270	Length: 0	Dimension: NQ	Township: WISNER	Logged by: Lindsay Hall
Dip: -45	Pulled: no	Storage: Core Shed	Claim No.: L108106	Relog by:
Length: 349.6	Capped: yes	Section:	NTS:	Contractor: Jacob & Samuel Drilling Ltd.
Started: 26-Nov-14	Cemented: no	Hole Type DD	Hole: SURFACE	Spotted by: Tom Johnson
Completed: 30-Nov-14				Surveyed: yes
Logged: 27-Nov-14				Surveyed by: Wallbridge
Comment:				Geophysics: None
		Coordinate - Gemcom	Coordinate - UTM	Geophysic Contractor:
		East: 497352.1	East: 497352.1	Left in hole: Nothing
		North: 5178094.05	North: 5178094.05	Making water: no
		Elev.: 407.06	Elev.: 407.06	Multi shot survey: no
			Zone: 17 NAD: 27	

Deviation Tests

Distance	Azimuth	Dip	Type	Good	Comments
0.00	270.00	-45.00	C	<input checked="" type="checkbox"/>	
19.00	270.00	-44.80	F	<input checked="" type="checkbox"/>	5550
70.00	271.60	-44.60	F	<input checked="" type="checkbox"/>	5561
121.00	270.40	-44.10	F	<input checked="" type="checkbox"/>	5447
172.00	271.50	-44.00	F	<input checked="" type="checkbox"/>	5371
226.00	274.90	-43.30	F	<input checked="" type="checkbox"/>	5403
277.00	274.90	-42.80	F	<input checked="" type="checkbox"/>	5432
328.00	275.90	-42.80	F	<input checked="" type="checkbox"/>	5437
349.00	273.40	-42.50	F	<input checked="" type="checkbox"/>	5473

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Hole Number **WIS-189**

Project: **BROKEN_HAMMER_NRJV**

Project Number: **263**

<i>From</i> (m)	<i>To</i> (m)	<i>Lithology</i>		<i>Sample #</i>	<i>From</i>	<i>To</i>	<i>Length</i>	<i>Au</i> (g/t)	<i>Pt</i> (g/t)	<i>Pd</i> (g/t)	<i>Ni</i> (%)	<i>Cu</i> (%)
0.00	1.84	O/B	Overburden									
1.84	12.75	GAB	Gabbro									
12.75	13.38	SDBX	Sudbury Breccia									
13.38	14.38	GAB	Gabbro									

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Project: **BROKEN_HAMMER_NRJV**

Project Number: **263**

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14.38	14.87	SDBX Sudbury Breccia Hot looking with streamlined, elongate wispy fragments with PM contacts, altered GAB frags, medium grey fg matrix with biot porphs. Lower section is not complete core by a curved vein cutting Gab. No sulphides noted nor significant alteration over-print.									
14.87	21.52	GAB Gabbro Heterogenous, foliated, coarse grained gabbro with diffuse patches of dark green chlorite-silica pervasive alteration. Chloritic shear with broken, friable core 15.7-16m. SDBX vein 15.39m - 15.57m as irregular veins up to 8cm wide cored by a 3cm PM vein that occupy approx. 30% of the subinterval; 18.37m - 18.41m (ser-ep altered pervasive); 19.85m - 19.93m (2B2); 20.98m - 21.06m (ser-ep alterd). 5cm PEG at 17m - 15 TCA. Chlorite-SIL in straight fracture fills up to 8mm wide in predominantly 45 TCA and 25 TCA (with 80 degrees between them) with no alteration halo.									
21.52	22.73	SDBX Sudbury Breccia 70% SDBX that is 2B2->2B3. PM in patches, wisps and around fragments; frags are round and large GAB and fine elongate and aligned frags of indeterminant origin (likely gab). Ser-ep perv alt (1) is cut first by ep-chlorite ff (sometimes black and pygmatic) then all cut by hem bearing fractures.									
22.73	42.10	GAB Gabbro Sudbury Breccia :									

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		Very heterogeneous gabbro with numerous strong alteration overprints. PM 28-28.1 patchy and bearing PY in EP veins. An early sil-chl strain zone Pre-Suds? SDBX at 26.55m - 26.58m (45 TCA); 29.96m - 30.1m diffuse patches of v.fine, mid-grey; 32.62m - 32.65m flanking 2cm PEG. Early epid veins (bright yellow-green) assoc with local blebby CP-PY and pen Sil; cut by drusy qtz; intense patches of Epid alt (generation unclear) obliterate primary lith; late straight qv with coarse magnetite; patches of broken core with extensive oxide development on the flat surfaces									
42.10	45.10	SDBX Sudbury Breccia Hot looking SDBX - med-dark grey fine grained with elong wispy diffuse frags and local PM devel as veins, small patches and frag coatings. Frags are GAB and GRGN. Ltd. Py as fine euhedral dissem (tr)									
45.10	159.49	GAB Gabbro Medium coarse grained, heterogen. Gab (but less hetero than above); locally v. strongly magnetic. Eclaves of mafic and granitic gneiss and 2 generations of diabase dikes. SDBX - 47m - 47.2m (2 cm ser-ep altered vein cutting at 10 TCA); 75.43m - 75.46 blob of bx; 122.1m - 122.11m (with 2mm biot phenos); 122.2m - 122.23m (with 2mm biot phenos); 138.17m - 138.45m (with PM and cut by irreg white qtz and earlier epid veinlets); 154.24m - 154.32m (with biot phenos in mid-grey fg matrix - 2B2=2B3. PM at 50.33m - 50.38m; 91.6m - 91.87m; 119.27m - 119.47m (assoc with high strain zone in gneiss); 122.59m - 122.6m (assoc with high strain zone in gneiss); PM in PEG at 130.75m - 131.3m, 147.5m - 148m, 149.41m - 149.5m. PEG at 57.08m - 57.35m with 1cm silica alt on lower contact; several at 93.5m - 94.5m and 128m - 150m. Distinctive fault with dismembered qv and 10cm wide zone of silicified BX gouge with chloritic silicified rock fragments (PHOTO); flanked by strait white qtz veins/fault seals, mare's tails of hm fractures and ltd qv with broken core. Drusy qtz and red hem veins zone at 84m (PHOTO) 4cm wide and 20 TCA. 2 over-printing alterations are mutually x-cutting - bright yellow-green epid and pink red qtz-hem. At 91.4m there is a sprinkling of euhed dis PY up to 3mm assoc with grey pervasive SIL that obscures the primary text of lith, adjacent to but not in PM. Sample 246 includes 3 parallel .7cm qv cutting SIL-ep-py alt. Sample 247 includes SIL and PY and PM. Interpreted fault as a 15cm qv with lateral white qvs and parallel fract with hm staining on uphole side. 1.5m interval of 30%									

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		qv (almost a QTZ Bx) overprinting small aones of sil-ep and chl-sil alt. QV acts as alteration front (PHOTO) with hem uphole and epid down hole. Primary qv is 50 TCA and secondary are 70 TCA with 40 degrees between them yeilding a sigma 3 at about 15 TCA. Pre-Sudbury chloritized high strain zones may nucleate PM. Dark grey SIL and PY in 2 zones have overprinting PY remobilized into white QV.									
159.49	163.42	FLT Fault									
		Sudbury Breccia : Zone with intermitten broken core, large quartz veins small, chlorite-hem gougees and penetrative chlorite fractures with slicks: penetrative but irregular anastamosing. In situ qtz breccia at 159.95-161m. Iron oxides a mix of hem and lim/goe.									
163.42	167.08	GAB Gabbro									
		Sudbury Breccia : 35-50% qtz vein and qtz bx over silicified and chloritic gabbro- more than 1 silica/qtz event, the early one is 30 TCA associated with chlorite and second was QV at 70-85 TCA. Diminishing influence of hem through upper .5m in late post QV fractures. All is super-imposed on green chloritic medium grained meta gabbro									
167.08	176.40	GRGN granite gneiss									
		Sudbury Breccia : Penetratively silicified with hem; brick orange with primary textures obscured - likely a granitoid (primary grey qtz and 2ndary green accessory are now chlorite preserved). Cut by early bright green epid veinlet network (spatially variable) locally straight and regular locally fine stockwork. Epid cut by first grey and 2nd white qv; all cut by fracture fill of calcite and pyrite. Locally developed, coarsely (6-8 mm) euhedral PY where SIL is strongest. Small brittle offsets on epid and grey qtz veins parallel to white qv (PHOTO).									

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176.40	204.20	GRGN <i>granite gneiss</i> Sudbury Breccia : compositional and texturally heterogeneous fels/int orthogneiss (qtz-bearing), largely coarse grained, variably SIL, with short IGN intervals of finer grained, more mafic (with chlorite and amph) banded gneiss. Cut by deformed PEGs. Epid alt in locally abundant fine network, strong correl with SIL zones. Cut by QV and QBx in situ jigsaw bx and local drusy bx veins. Very finely dissem PY linked to SIL in IGN and commonly assoc with chlorite/mafic mins (early?). Fract controled hem (+/- calcite) cuts qv and other alterations. SIL assoc with EPId (PHOTO). SDBX - patch 184.22m - 184.31m mid grey with sharp frag boundaries and no PM - relatively cool looking, trace dissem fine PY; 193m - 193.05m - narrow veins at margin of chloritic PEG; 201.5m - 201.6m as first SDBX. Broken core 197.15m - 197.75m assoc with vuggy acid leached zone leaving drusy calcite filled zones. V. fine euhedral PY is rel abund where leaching least prevalent (sample).									
204.20	205.85	SDBX Sudbury Breccia Sudbury Breccia : ductile, irregular curvaceous veins of SDBX 30% of core cutting foliated GRGN, IGN that has been patchily silicified and epidotized. 3C3/3C2									
205.85	207.88	GRGN <i>granite gneiss</i> Sudbury Breccia : Compositionally and texturally heterogeneous fels/int orthogneiss (qtz-bearing), largely coarse grained, variably SIL, with short MGN interval of finer grained, more mafic (with chlorite and amph) banded gneiss									

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		with SDBX margins. SDBX (206m - 206.12m; 206.96m - 207.2m). Narrow (4mm), bright green, parallel epidote veinlets in SDBX.									
207.88	208.50	SDBX <i>Sudbury Breccia</i> 30% SDBX with GRGN; hot looking, wispy vein morph, mid-grey, fg, but frags are sharp sided (3C3). Rare euhedral PY dissem throughout.									
208.50	214.35	MGN <i>Mafic Gneiss</i> Medium grained foliated to banded meta-dabase with amph-chlor-plag. Small SDBX - 209.14m - 209.16m at 90 TCA with PM. PM patch at 209.18m. PEG at 209.45m - 209.94m.									
214.35	223.08	IGN <i>Intermediate Gneiss</i> Hetero, banded/foliated gneiss with qtz, but generally very abundant mafic minerals (chlorite/amph of 30-50%). Intermediate composition orthogneiss with dikes or enclaves of foliated diabasic composition. Unit cut by PEGs (i.e. 214.64m - 219.72m). Cut by SDBX (217.54m - 217.59m; 219.86m - 219.91m).									

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223.08	229.00	GRGN <i>granite gneiss</i> Sudbury Breccia : Long, coarse grained, heterogeneous felsic orthogneiss unit cut by some significant SDBX zones that are broken up. Near top of interval very altered patches. Fault at 225.2m - 225.34 as a hem breccia (in situ tectonic BX) that brittly brecciates earlier QV (upper 3cm of bx) and other fragments are clearly SDBX - multiply reactivated structure! Unit also cut by meta-mafic dikes (or enclaves), PEGs. PY associated with SIL zones adjacent to qtz-chl and qtz-chl-ep and qtz-epid veins/veinlets. Other SDBX patches/veins (224.23m - 224.34m; 225.9m - 225.96m)									
229.00	229.33	SDBX <i>Sudbury Breccia</i> Sudbury Breccia : Wide SDBX dike with sharp contacts at 45TCA. Medium green (ser-ep altered) matrix. Fels frags commonly with PM halo. PY in frags that have earlier (?) ep alt and very finely disseminated in matrix.									
229.33	232.52	GRGN <i>granite gneiss</i> Sudbury Breccia : Continuation of long, coarse grained, heterogeneous felsic orthogneiss unit cut by some significant SDBX zones that are broken out. Near top of interval very altered patches. Fault at 225.2m - 225.34 as a hem breccia (in situ tectonic BX) that brittly brecciates earlier QV (upper 3cm of bx) and other fragments are clearly SDBX - multiply reactivated structure! Unit also cut by meta-mafic dikes (or enclaves), PEGs. PY associated with SIL zones adjacent to qtz-chl and qtz-chl-ep and qtz-epid veins/veinlets. Other SDBX patches/veins (231.5m - 231.8m as a narrow curvilinear vein cutting sub parallel TCA).									

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232.52	233.10	SDBX Sudbury Breccia SDBX that is broadly obscured by pervasive, WM SIL alt. Extensive (MS) ep and white QV (penecontemp seeming); PY abund (1%) in halo of the veins finely dissem; veins and fract at 55 TCA.									
233.10	237.52	GRGN granite gneiss Continuation of long, coarse grained, heterogeneous felsic orthogneiss unit cut by some significant SDBX zones that are broken out. Near top of interval very altered patches. Fault at 225.2m - 225.34 as a hem breccia (in situ tectonic BX) that brittly brecciates earlier QV (upper 3cm of bx) and other fragments are clearly SDBX - multiply reactivated structure! Unit also cut by meta-mafic dikes (or enclaves), PEGs. PY associated with SIL zones adjacent to qtz-chl and qtz-chl-ep and qtz-epid veins/veinlets.									
237.52	238.98	SDBX Sudbury Breccia SDBX with sharply defined frags, PM blebs, locally abundant dissem py adj to SIL-hem fractures (40TCA) at 238.06m). 'blebby' epid sprinkled throughout unit but most abund adj to fractures.									
238.98	239.92	GRGN granite gneiss Continuation of long, coarse grained, heterogeneous felsic orthogneiss unit cut by some significant SDBX zones that are broken out. Near top of interval very altered patches. Fault at 225.2m - 225.34 as a hem breccia (in situ tectonic BX) that brittly brecciates earlier QV (upper 3cm of bx) and other fragments are clearly SDBX - multiply reactivated structure! Unit also cut by meta-mafic dikes (or enclaves), PEGs. PY associated with SIL zones adjacent to qtz-chl and qtz-chl-ep and qtz-epid veins/veinlets.									

LITHOLOGY REPORT
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Hole Number **WIS-189**

Project: **BROKEN_HAMMER_NRJV**

Project Number: **263**

<i>From</i> (m)	<i>To</i> (m)	<i>Lithology</i>	<i>Sample #</i>	<i>From</i>	<i>To</i>	<i>Length</i>	<i>Au</i> (g/t)	<i>Pt</i> (g/t)	<i>Pd</i> (g/t)	<i>Ni</i> (%)	<i>Cu</i> (%)
239.92	240.35	SDBX Sudbury Breccia Wide SDBX dike. Medium green (ser-ep altered) matrix. Fels frags commonly with PM halo. PY in frags that have earlier (?) ep alt and very finely disseminated in matrix.									
240.35	305.18	GRGN granite gneiss Main body of long, coarse grained, heterogeneous felsic orthogneiss unit cut by some significant SDBX zones that are broken out. Near top of interval very altered patches. Fault at 225.2m - 225.34 as a hem breccia (in situ tectonic BX) that brittly brecciates earlier QV (upper 3cm of bx) and other fragments are clearly SDBX - multiply reactivated structure! Unit also cut by meta-mafic dikes (or enclaves), PEGs. PY associated with SIL zones adjacent to Qtz-chl and Qtz-chl-ep and Qtz-epid veins/veinlets. SDBX veins are abundant (30%) within the interval of 241.25m - 241.64m are all hot looking but they have SIL alteration giving a diffuse and indistinct cast. SDBX (256.53m - 256.69m - wispy frags with PM halos; 278.87m - 279.03m - primarily sharp sided with some PM - 3C3 with ser-ep pervasive alt). PM (0.8cm wide) in the contact zone of mafic enclave/dike (30 TCA) at 295.25m and 296.75m.									
305.18	311.48	MGN Mafic Gneiss Banded, amphibolitic gneiss with abundant (10-15%), patchy, wormy PM unevenly distributed (see Minor Lith). Relatively unaltered compared with overlying units. Small epid vein with ltd SIL and PY between them. Large enclave of GRGN (310.2m - 310.7m) and other smaller ones. Possib. 1cm wide, 90 TCA									

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Project Number: **263**

<i>From</i> (m)	<i>To</i> (m)	<i>Lithology</i>	<i>Sample #</i>	<i>From</i>	<i>To</i>	<i>Length</i>	<i>Au</i> (g/t)	<i>Pt</i> (g/t)	<i>Pd</i> (g/t)	<i>Ni</i> (%)	<i>Cu</i> (%)
		weak acid leach zone at 310.1m (after PY?). Lower cct marked by 15cm SDBX vein.									
311.48	311.61	SDBX <i>Sudbury Breccia</i> 2C3>2C2 SDBX with dark grey fg matrix with some ltd. Biot porphs; primarily wispy felsic fragments with relatively abundant PM. Cut by bright green epid fracture fills and late calcite fract fills.									
311.61	349.59	GRGN <i>granite gneiss</i> Hetero, coarse grained, banded to foliated felsic gneiss with patches of strong over-printing alteration; intervals of med grained mafic composition. Cut by PY-SIL zones - not all sampled. 2 generations of PY noted at 322.5m an early hackly gen (looks more interesting to me - seems associated with CP!) with an overprinting, coarser euhedral PY. SDBX is quite abundant (313.66m - 313.9m 70% SDBX; 319.15m - 319.62m; 345.05m - 345.3m; 345.93m - 346.04m; 347.77m - 347.9m; 348.26m - 348.28m; 343.61m - 343.63m). Seems hotter than above 3C2>3C3.									
349.59	349.60	EOH <i>End of Hole</i>									

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Project: **BROKEN_HAMMER_NRJV**

Project Number: **263**

<i>From</i> (m)	<i>To</i> (m)	<i>Lithology</i>	<i>Sample #</i>	<i>From</i>	<i>To</i>	<i>Length</i>	<i>Au</i> (g/t)	<i>Pt</i> (g/t)	<i>Pd</i> (g/t)	<i>Ni</i> (%)	<i>Cu</i> (%)
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DRILL HOLE REPORT

 Hole Number **WIS-190**

 Project: **BROKEN_HAMMER_NRJV**

 Project Number: **263**

Drilling	Casing	Core	Location	Other
Azimuth: 270	Length: 0	Dimension: NQ	Township: WISNER	Logged by: Lindsay Hall
Dip: -45	Pulled: no	Storage: Core Shed	Claim No.: L108106	Relog by:
Length: 380.03	Capped: yes	Section:	NTS:	Contractor: Jacob & Samuel Drilling Ltd.
Started: 01-Dec-14	Cemented: no	Hole Type DD	Hole: SURFACE	Spotted by: Tom Johnson
Completed: 21-Oct-13				Surveyed: yes
Logged: 05-Dec-14				Surveyed by: Wallbridge
Comment:				Geophysics: None
		Coordinate - Gemcom	Coordinate - UTM	Geophysic Contractor:
		East: 497140.86	East: 497140.86	Left in hole: Nothing
		North: 5178095.04	North: 5178095.04	Making water: no
		Elev.: 399.95	Elev.: 399.95	Multi shot survey: no
			Zone: 17 NAD: 27	

Deviation Tests

Distance	Azimuth	Dip	Type	Good	Comments
0.00	270.00	-45.00	C	<input checked="" type="checkbox"/>	
14.00	264.40	-46.30	F	<input checked="" type="checkbox"/>	5515
65.00	264.50	-45.90	F	<input checked="" type="checkbox"/>	5294
116.00	271.90	-45.80	F	<input checked="" type="checkbox"/>	5486
167.00	273.20	-45.00	F	<input checked="" type="checkbox"/>	5478
218.00	271.90	-44.60	F	<input checked="" type="checkbox"/>	5498
269.00	271.70	-44.10	F	<input checked="" type="checkbox"/>	5486
320.00	268.60	-44.00	F	<input checked="" type="checkbox"/>	5485
371.00	268.80	-43.80		<input checked="" type="checkbox"/>	5503

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Project: **BROKEN_HAMMER_NRJV**

Project Number: **263**

<i>From</i> (m)	<i>To</i> (m)	<i>Lithology</i>	<i>Sample #</i>	<i>From</i>	<i>To</i>	<i>Length</i>	<i>Au</i> (g/t)	<i>Pt</i> (g/t)	<i>Pd</i> (g/t)	<i>Ni</i> (%)	<i>Cu</i> (%)
0.00	0.57	O/B Overburden OVB									
0.57	18.66	MGN Mafic Gneiss Banded, heterogeneous, mafic, chlorite and amphibole bearing, gabbroic gneiss with a variety of colour due to alteration and metamorphism. More banded than the typical GAB elsewhere, so I called it mafic gneiss - but it is likely a meta-gabbro. Wash of hematite gives local orange tint. Small gouge zone (hem +/- Qtz) cut earlier (pre-Sudbury) chloritic ductile shears. Variably magnetic (m to s)									
18.66	20.18	GRGN granite gneiss Somewhat bleached with a creamy pink tone coarse grained, heterogeneous, compositionally banded and foliated granitic orthogneiss cut by PEG dikelets. Variably intense (non to WM/M) pervasive EP and SIL alteration. Variably magnetic (W to MS).									
20.18	45.34	IGN Intermediate Gneiss Mixed compositionally banded orthogneiss primarily of intermediate composition cut by PEG and GR, enclaves/dikes of dark amphibolitic mafic gneiss that is preferentially epidotized. Variably magnetic. Near top of interval is a fracture controlled HEM patch. Epid veins with SIL halo and Qtz-chl-veins with SIL-HEM halo. PY disseminations in halos associated with Qtz-chl-ep veins with SIL halos both in veinlets and in halos. PM locally developed in veins, patches and worms (i.e. 40.85m is 3cm vein). SDBX cuts the									

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		gneissic fabric (29.59m - 29.69 - 50 TCA ductile med. Grey diffuse looking, relatively hot, fg but visibly fluidized; 30.57m - 30.58m "incipient SDBX"; 30.62m - 30.7m "incipient SDBX" - all ductile and fluidized aspect.									
45.34	47.28	GAB Gabbro Sudbury Breccia : Relatively homogen. Medium grained gabbro. Highly magnetic, relatively unaltered with parallel veinlets of calcite-hematite becoming less common down interval. Patch of incipient PM at 46.05m - 46.15m. Trace disseminated PY throughout interval.									
47.28	58.35	MGN Mafic Gneiss Sudbury Breccia : Banded, gneissic, hetero mafic > intermediate rock with variable magnetism (WM-MS) and changes in colour reflect composition and alteration. Some bands of felsic gneiss are interleaved. PEGs are deformed and altered. Weakly SIL altered in pervasive broad patches that are cut by fracture/vein SIL, qtz-ep, qtz-chl, qtz-chl-epi-PY most with silica halos. Incipient PM and full on PM (53.08m - 53.22m). Epid patch centered on PEG.									
58.35	70.10	GAB Gabbro Sudbury Breccia : Hetero, medium gr., highly magn, relatively weakly foliated, approx. equant, meta-mafic intrusive. Patches of incipient PM (62.2m - 62.35m; 62.7m - 62.8m; 63.48m - 63.53m; 66.3m - 66.35m ; 66.5m - 66.55m; 68.85m - 68.95m) and PM vein zones with some associated PY. Gab cut by EP veins and fract									

LITHOLOGY REPORT
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<i>From</i> (m)	<i>To</i> (m)	<i>Lithology</i>	<i>Sample #</i>	<i>From</i>	<i>To</i>	<i>Length</i>	<i>Au</i> (g/t)	<i>Pt</i> (g/t)	<i>Pd</i> (g/t)	<i>Ni</i> (%)	<i>Cu</i> (%)
		fills. PY vein (1cm) at 70.1m in 4cm wide SIL-HEM alt zone. PY in late calcite FF.									
70.10	70.51	SDBX Sudbury Breccia Sudbury Breccia : Whole unit sampled. Ductile, wispy (and 'swirly') SDBX with GAB frags exhibiting incipient SDBX. Dark grey, fg matrix but the frags are indistinct. Strong chlorite overprint with epid-SIL-hem and PY veinlets (50 TCA) locally abundant. Cut by late calcite veins (20 TCA).									
70.51	74.98	DIA Diabase Sudbury Breccia : Classic Matachewan dike (no glomeroporhs) dark grey, highly magnetic, fine grained diabasic texture. Cut by difficult to distinguish SDBX of dark fine grained highly magnetic with rare, indistinct, fine frags. Cut by pink calcite cored veins with qtz margins and flanking PY bands. PM with PY. Qtz-CP-PY vein with flanking epid-ser alt zone.									
74.98	76.50	SDBX Sudbury Breccia Sudbury Breccia : Greater than 30% SDBX in Mata diabase. Difficult to distinguish two units. Contacts are irregular. SDBX with dark grey, fine grained matrix with irregular blobs of PM, GAB, DIA and other wispy indistinct fragments. Where unit is DIA pyritiferous PM occurs.									

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<i>From</i> (m)	<i>To</i> (m)	<i>Lithology</i>	<i>Sample #</i>	<i>From</i>	<i>To</i>	<i>Length</i>	<i>Au</i> (g/t)	<i>Pt</i> (g/t)	<i>Pd</i> (g/t)	<i>Ni</i> (%)	<i>Cu</i> (%)
76.50	103.73	GRGN <i>granite gneiss</i> Sudbury Breccia : Heterogeneous felsic, variably banded and foliated felsic gneiss. Cut by very hot looking SDBX (3C3=3C2) causing lateral heating and metasomatism of rocks in contact with them and of large frags within the med green matrix with abundant pink PM halos and patches . SIL-EP alt. PM associated with Granite dike at 81.65m - 81.88m and 95m - 95.65m. SDBX at 81.04m - 81.1; 82.62m - 82.82m - hot!; 83.08 (1cm incipient); 84.09m - 84.34m - hot with PM; 86.05m - 86.12 - silicified; 91.85m - 92.25m - 20% veins and wisps).									
103.73	104.48	SDBX <i>Sudbury Breccia</i> Sudbury Breccia : Fine grained medium dark green with wispy and diffuse ductily deformed frags of GRGN. Contacts with cct meta in GRGN 1 cm wide with bleaching. Cut by calcite-hem veins.									
104.48	105.28	GRGN <i>granite gneiss</i> Sudbury Breccia : Large fragment of granitic gneiss within the SDBX zone. Coarse relatively unaltered except ragged epidote vein (5TCA) with 3cm SIL halo and euh PY.									
105.28	111.20	SDBX <i>Sudbury Breccia</i> Sudbury Breccia : More than 50% SDBX but some large (>50cm) frags of both GRGN and DIA. PM patches and worms,									

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<i>From</i> (m)	<i>To</i> (m)	<i>Lithology</i>	<i>Sample #</i>	<i>From</i>	<i>To</i>	<i>Length</i>	<i>Au</i> (g/t)	<i>Pt</i> (g/t)	<i>Pd</i> (g/t)	<i>Ni</i> (%)	<i>Cu</i> (%)
		wispy frags throughout - relatively hot bx. Irreg epid veins with SIL+PY halos. CP in large blebs associated with PM in SDBX adjacent to DIA frag and to a lesser degree in PM in GRGN frags. PY in SIL-chl veinlet. Interval with Hem-Cal fract-fills - becoming more abundant down interval (from WM to MS).									
111.20	114.84	DIA <i>Diabase</i> Sudbury Breccia : Typical Matachewan Diabase with rare glomeroporpha. Top of interval is cut by hem-cal frags and weak gouge. Irreg (1-2mm) qtz-cal-hem veinlet with halo of Po>PY dissemin and euhedral (20 TCA).									
114.84	126.10	GRGN <i>granite gneiss</i> Sudbury Breccia : coarse grained and heterogeneous banded/foliated felsic gneiss. Everywhere altered, strained and metamorphosed. Bright yellow green epid. Blebs and veins (60 TCA and 20 TCA) also cut by dark green sil-chl+/-hem frags (straight but in several orientations - 40 TCA, 50 TCA, 60TCA, 70TCA). All cut by late calcite. Below 119m se SIL (+/- Chl) with hem halos. Chl (2-4mm)-SIL (10cm halo) at 25 TCA, with seeming overprint by EP-SER +CP+PY - but CP and PY also present in SIL outside EP-SER alt.									
126.10	130.20	SDBX <i>Sudbury Breccia</i> Sudbury Breccia : 50:50 SDBX:DIA all deeply altered and difficult to distinguish with broken core @ both upper and lower contacts with HEM on fracture surfaces on upper BC zone and CHL on surfaces of lower BC zone. QV with chlorite in fractures at 30 degrees to the qv orientation (quite friable here) large square (1.2cm x 1.2cm) PY with one side coated (1.2cm x 0.3cm) CP. Ep zone on an internal SDBX-DIA contact that is fracture controlled (15 TCA).									

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130.20	229.70	GRGN <i>granite gneiss</i> Sudbury Breccia : coarse grained and heterogeneous banded/foliated felsic gneiss. Hem from gouge and fract fills smeared and diminishingly discolours the interval from the top of the unit with BC. Mafic gneiss enclaves (156.6m - 157.7m; 161.6m - 162.3m; 173.93m - 174.03m - PM veins; 174.35m - 174.48m - PM patch veins). SDBX (143.13m - 143.34m 3C3 - sharp frag boundaries with cloudy halo and sharp dike contacts; 175m - 175.2 - 3C3/3C2 hot and ductile look; 181.35m - 181.5m "incipient SDBX"; 181.68m - 182m - with 3mm PM and sulphide). Late black sil-chl and coarse carb vein (1.2cm) with subsidiary veinlet at 40 degrees to the main veinlet yeild and interp sigma 3 of 45 TCA, all with SIL halo. 3cm wide white-grey QV with abund hackly CP>PY of 10-15% of the vein, with a 2cm SIL halo bearing dis PY. Primarily PY vein with some qtz cuts SDBX has a halo of SIL>ep-ser and ff. SDBX 203.95m - 204m (hot, ductile wispy and fluidized with pen ep-ser alt 3C2>3C2; 213.58m - 214m - 20% of interval in patches and veins of SDBX with fracgs are primarily fg mafic with sharp sids, matrix is fg, med-green-grey with limited PM halos (2B3). Mafic enclave/dike 221.25m - 224.77m.									
229.70	229.97	SDBX <i>Sudbury Breccia</i> Sudbury Breccia : Hot, ductile, fluidized SDBX with abund PM halos and patches, frags primarily sm. Elong. Fels with PM and single round cobble of DIA with contact metasomatism, other material appears to 'flow' around this cobble. Matrix is med - dark grey-green, fg, +/- biot porps. Ep-ser alt is penetrative at both margins. PY in very fine, rare, anhedral dissem throughout.									
229.97	230.56	GRGN <i>granite gneiss</i> Sudbury Breccia : coarse gr. Foliated granitoid gneiss with 30% mafic accessory mins - chl and amph									

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230.56	230.79	SDBX Sudbury Breccia Hot, ductile, fluidized SDBX with abund PM halos and patches, frags primarily sm. Elong. Fels with PM. Matrix is med - dark grey-green, fg, +/- biot porps. Ep-ser alt is penetrative at both margins. PY in very fine, rare, anhedral dissem throughout.									
230.79	237.21	GRGN granite gneiss coarse gr grgn foliated with 30% mafic accessories cut by MGN and narrow silicic-ep-py zone									
237.21	238.81	SDBX Sudbury Breccia Quite hot looking and ductile with wispy frag, and curved/swirly frags with thick halos and diffuse patches of PM. Frags are 90% GRGN, rare round with PM and PY MGN frags; matrix is med-dark grey-green variably pen ep-ser +/-SIL alt									
238.81	241.75	GRGN granite gneiss									

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		coarse gr fels gneiss with bright gr epid patches (fspar spp controlled) throughout. Maroon SIL-Hem zone overprints EP controlled by irregular fractures									
241.75	242.47	SDBX Sudbury Breccia Sudbury Breccia : 25% SDBX in irreg dikes with wispy margins (PHOTO). Hot 2C2>2C3 primarily wispy grgn frags with halos and PM, matrix is med-dk grey green and fg.									
242.47	244.17	SDBX Sudbury Breccia Sudbury Breccia : 100% SDBX with predom, GRGN frags 10cm and smaller and 1 x a 20cm MGN frag with some smaller mafic - 70% GRGN : 30% MGN frags. Frag contacts somewhat sharper than above, but still generally diffuse 2C3=2C2; matrix is dark grey locally silicified in patches, fg but visible; rare anhedral dissem py.									
244.17	245.70	IGN Intermediate Gneiss Sudbury Breccia : heterogeneous, fels-int orthogneiss with >30% mafic accessory minerals. Small patches and worms of PM. Cut by SIL zones and ep-ser-PY									

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<i>From</i> (m)	<i>To</i> (m)	<i>Lithology</i>	<i>Sample #</i>	<i>From</i>	<i>To</i>	<i>Length</i>	<i>Au</i> (g/t)	<i>Pt</i> (g/t)	<i>Pd</i> (g/t)	<i>Ni</i> (%)	<i>Cu</i> (%)
245.70	246.00	SDBX Sudbury Breccia Sudbury Breccia : 100% SDBX with predom, GRGN frags 10cm and smaller and 1 x a 20cm MGN frag with some smaller mafic - 70% GRGN : 30% MGN frags. Frag contacts somewhat sharper than above, but still generally diffuse 2C3=2C2; matrix is dark grey locally silicified in patches, fg but visible; rare anhedral dissem py. Cut by PY-qtz vein (3-4mm) with a halo of euh py dissem of 8cm.									
246.00	246.50	GRGN granite gneiss Sudbury Breccia : heterogeneous, fels orthogneiss with 30% mafic accessory minerals.									
246.50	247.08	SDBX Sudbury Breccia Sudbury Breccia : 100% hot looking SDBX with 100% GRGN frags much like 237-238m. Wispy margins and halos more pronounced near margins of dike, at center looks cooler.									
247.08	308.97	GRGN granite gneiss Sudbury Breccia : Coarse grained, foliated, felsic orthogneiss with 30% mafic accessories; with GR and PEG dikes (small). Numerous SDBX and 'incipient' SDBX veins. One cut and offset by a PY-ep-ser-chl fracture with SIL halo (PHOTO) - SDBX is 85 TCA while fract with apparent normal offset is oriented at 10 TCA. SDBX (262.76m - 262.85m - 2C2=2C3; 266.55m - 266.59m - sharp - 2C3>2C2; 267.62m- 267.91m - 3C3=3C2; 270.34m - 270.48m - in apparent en echelon array of 3 veins with sigma 3 at 35 TCA, veins at 12 TCA; 271.3m - 271.77m - 8cm vein cutting at 10-15 TCA; 275.84m - 275.87m - 3C2=3C3; 279.42m - 279.91 -									

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<i>From</i> (m)	<i>To</i> (m)	<i>Lithology</i>	<i>Sample #</i>	<i>From</i>	<i>To</i>	<i>Length</i>	<i>Au</i> (g/t)	<i>Pt</i> (g/t)	<i>Pd</i> (g/t)	<i>Ni</i> (%)	<i>Cu</i> (%)
		20% 'incipient bx'; 281.09m - 281.13m; 281.34m - 281.36m; 282.37m - 282.43m - ep-ser-chl alt; 283.57m - 283.58m at 45 TCA; 291.95m - 292 - ep-ser 3C3=3C2; 294.59m - 294.63m - 3C3>3C2; 296.64m - 296.7 cut by PY-qtz-ep-chl alt that is oblique to SDBX - sampled; 300.14m - 300.37m 2C2=2C3 with ser-ep veins.									
308.97	324.09	GAB Gabbro Sudbury Breccia : Coarse grained black-white speckled gabbro - hetero with amph and chlorite. Cut by narrow SDBX veins 2B3>2B2 - 310.38m - 310.46m; 311.08m - 311.17m; 311.55m - 311.84m (30% vein and incipient SDBX); 312.45m - 312.55m; 313.08m - 313.12m; 314.66m - 314.68m; 316.48m - 316.52m; 321.38m - 321.41m; 321.49m - 321.52m; 322.16m - 322.63m (70% SDBX); 323.74m - 323.82m.									
324.09	338.71	GRGN granite gneiss Sudbury Breccia : Very heterogeneous; with patches of PEG and GR lacking mafic accessories; but main lith has 30% mafics. Coarse granitoid, variably silicified and ep altered. Cut by discrete SDBX veins (325.14m - 325.19m; 330.51m - 330.55m). Hem-SIL centered on yellow ep-qtz veinlets with assoc dissem PY. Mafic dike/enclave at 337.5m - 337.8m.									
338.71	340.54	SDBX Sudbury Breccia Sudbury Breccia : 25-30% SDBX in coarse gr. Gab unit - 'incipient' SDBX and real with wispy, elongate frags - looking ductile and hot.									

LITHOLOGY REPORT
- Detailed -

Hole Number **WIS-190**

Project: **BROKEN_HAMMER_NRJV**

Project Number: **263**

<i>From</i> (m)	<i>To</i> (m)	<i>Lithology</i>	<i>Sample #</i>	<i>From</i>	<i>To</i>	<i>Length</i>	<i>Au</i> (g/t)	<i>Pt</i> (g/t)	<i>Pd</i> (g/t)	<i>Ni</i> (%)	<i>Cu</i> (%)
340.54	341.29	SDBX Sudbury Breccia 100% SDBX - 2C3 with frags more distinct than in the units higher in the hole. Some halos but not wispy. Straight epid veins follow break that truncated a lg clast and offset the other half an unknown distance and direction - minimum of 5cm offset. 2cm wide bleaching adjacent to the ep vein and offset.									
341.29	353.24	GRGN granite gneiss coarse hetero felsic gneiss with mafic schlieren and enclaves; cut by PEGS and SIL alt zones with ep-chl-sil fract fills/veins at their cores.									
353.24	353.59	SDBX Sudbury Breccia SDBX with grn frags in med-dark grey-green 2C3 - cooler but still with thin halos on many frags.									
353.59	380.02	GRGN granite gneiss very heterogeneous with enclaves of MGN/DIA, PEG and cut by SDBX veins: 360.72m - 360.75m; 361.16m - 361.21m; 364.85 - 365.42m (20%); 376.4m - 376.38m (15%); 376.56m - 377m (5%); 2C3									

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Project: **BROKEN_HAMMER_NRJV**

Project Number: **263**

<i>From</i> (m)	<i>To</i> (m)	<i>Lithology</i>	<i>Sample #</i>	<i>From</i>	<i>To</i>	<i>Length</i>	<i>Au</i> (g/t)	<i>Pt</i> (g/t)	<i>Pd</i> (g/t)	<i>Ni</i> (%)	<i>Cu</i> (%)
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style with abund 'incipient SDBX' in the larger intervals.

380.02 380.03 **EOH** *End of Hole*

Sudbury Breccia :

DRILL HOLE REPORT

 Hole Number **WIS-191**

 Project: **BROKEN_HAMMER_NRJV**

 Project Number: **263**

Drilling	Casing	Core	Location	Other
Azimuth: 360	Length: 0	Dimension: NQ	Township: WISNER	Logged by: Attila Pentek
Dip: -50	Pulled: no	Storage: Core Shed	Claim No.: L108106	Relog by:
Length: 589.53	Capped: yes	Section:	NTS:	Contractor: Jacob & Samuel Drilling Ltd.
Started: 07-Dec-14	Cemented: no	Hole Type DD	Hole: SURFACE	Spotted by: Tom Johnson
Completed: 17-Dec-14				Surveyed: yes
Logged: 10-Dec-14				Surveyed by: Wallbridge
Comment: Logged by A. Pentek up to 365m and S. Baird thereafter.				Geophysics: None
		Coordinate - Gemcom	Coordinate - UTM	Geophysic Contractor:
		East: 497216.76	East: 497216.76	Left in hole: Nothing
		North: 5178232.23	North: 5178232.23	Making water: no
		Elev.: 396.81	Elev.: 396.81	Multi shot survey: no
			Zone: 17 NAD: 27	

Deviation Tests

Distance	Azimuth	Dip	Type	Good	Comments
0.00	360.00	-50.00	C	<input checked="" type="checkbox"/>	
16.00	357.90	-49.50	F	<input checked="" type="checkbox"/>	5571
67.00	3.40	-49.10	F	<input checked="" type="checkbox"/>	5421
118.00	353.00	-49.00	F	<input type="checkbox"/>	5186
124.00	4.20	-48.90	F	<input checked="" type="checkbox"/>	5419
175.00	5.90	-48.50	F	<input checked="" type="checkbox"/>	5435
226.00	7.40	-48.60	F	<input checked="" type="checkbox"/>	5356
277.00	2.20	-48.20	F	<input checked="" type="checkbox"/>	5378
328.00	5.30	-47.80	F	<input checked="" type="checkbox"/>	5311
379.00	3.50	-45.90	F	<input checked="" type="checkbox"/>	5486
430.00	5.10	-45.40	F	<input checked="" type="checkbox"/>	5483
481.00	6.10	-46.50	F	<input checked="" type="checkbox"/>	5472
532.00	6.50	-46.30	F	<input checked="" type="checkbox"/>	5407

Deviation Tests

Distance	Azimuth	Dip	Type	Good	Comments
583.00	7.20	-45.70	F	<input checked="" type="checkbox"/>	5448

LITHOLOGY REPORT
- Detailed -

Hole Number **WIS-191**

Project: **BROKEN_HAMMER_NRJV**

Project Number: **263**

<i>From</i> (m)	<i>To</i> (m)	<i>Lithology</i>	<i>Sample #</i>	<i>From</i>	<i>To</i>	<i>Length</i>	<i>Au</i> (g/t)	<i>Pt</i> (g/t)	<i>Pd</i> (g/t)	<i>Ni</i> (%)	<i>Cu</i> (%)
0.00	13.80	GAB Gabbro Wisner Gabbro 1% SDBX 2A2 veins. Few PM veinlets 70TCA									
13.80	18.95	SDBX Sudbury Breccia 2AB2 approx. 60% mtx. Ductile, minor PM									
18.95	29.59	GAB Gabbro Wisner Gabbro 1% SDBX 2A2 veins. Few PM veinlets 70TCA									
29.59	117.70	IGN Intermediate Gneiss Some PM veinlets 60 TCA. 75-85% could be part of the Wisner Gab									
117.70	131.26	GAB Gabbro									

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Hole Number **WIS-191**

Project: **BROKEN_HAMMER_NRJV**

Project Number: **263**

<i>From</i> (m)	<i>To</i> (m)	<i>Lithology</i>	<i>Sample #</i>	<i>From</i>	<i>To</i>	<i>Length</i>	<i>Au</i> (g/t)	<i>Pt</i> (g/t)	<i>Pd</i> (g/t)	<i>Ni</i> (%)	<i>Cu</i> (%)
		No PM									
131.26	182.04	FGN <i>Felsic Gneiss</i> 1% SDBX 2D3 slightly ductile, sharp clast boundaries. No PM									
182.04	185.40	SDBX <i>Sudbury Breccia</i> No PM or ductile but coarse grained				2D3					
185.40	199.37	IGN <i>Intermediate Gneiss</i>									
199.37	206.29	SDBX <i>Sudbury Breccia</i> PM veins and ductile				2DA2					

LITHOLOGY REPORT
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Hole Number **WIS-191**

Project: **BROKEN_HAMMER_NRJV**

Project Number: **263**

<i>From</i> (m)	<i>To</i> (m)		<i>Lithology</i>		<i>Sample #</i>	<i>From</i>	<i>To</i>	<i>Length</i>	<i>Au</i> (g/t)	<i>Pt</i> (g/t)	<i>Pd</i> (g/t)	<i>Ni</i> (%)	<i>Cu</i> (%)
206.29	231.80	FGN	<i>Felsic Gneiss</i>										
231.80	233.22	DIA	<i>Diabase</i>										
233.22	236.18	SDBX	<i>Sudbury Breccia</i> PM veins and ductile										
236.18	243.36	DIOR	<i>Diorite</i>										

LITHOLOGY REPORT
- Detailed -

Hole Number **WIS-191**

Project: **BROKEN_HAMMER_NRJV**

Project Number: **263**

<i>From</i> (m)	<i>To</i> (m)	<i>Lithology</i>	<i>Sample #</i>	<i>From</i>	<i>To</i>	<i>Length</i>	<i>Au</i> (g/t)	<i>Pt</i> (g/t)	<i>Pd</i> (g/t)	<i>Ni</i> (%)	<i>Cu</i> (%)
243.36	245.50	SDBX <i>Sudbury Breccia</i>									
			<i>Sudbury Breccia :</i>			2B3					
245.50	278.87	IGN <i>Intermediate Gneiss</i> 2% SDBX with a few PM veins									
			<i>Sudbury Breccia :</i>			2B3					
278.87	281.48	SDBX <i>Sudbury Breccia</i> Sharp Clast Boundaries									
			<i>Sudbury Breccia :</i>			2D3					
281.48	329.14	FGN <i>Felsic Gneiss</i>									
			<i>Sudbury Breccia :</i>								

LITHOLOGY REPORT
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<i>From</i> (m)	<i>To</i> (m)	<i>Lithology</i>	<i>Sample #</i>	<i>From</i>	<i>To</i>	<i>Length</i>	<i>Au</i> (g/t)	<i>Pt</i> (g/t)	<i>Pd</i> (g/t)	<i>Ni</i> (%)	<i>Cu</i> (%)
329.14	330.15	SDBX <i>Sudbury Breccia</i> PM veins and ductile									
			<i>Sudbury Breccia :</i>			2DA3					
330.15	331.82	DIA <i>Diabase</i> PM veinlets									
			<i>Sudbury Breccia :</i>								
331.82	333.82	SDBX <i>Sudbury Breccia</i> PM veins and ductile									
			<i>Sudbury Breccia :</i>								
333.82	358.95	FGN <i>Felsic Gneiss</i>									
			<i>Sudbury Breccia :</i>								
358.95	362.20	DIA <i>Diabase</i>									
			<i>Sudbury Breccia :</i>								

LITHOLOGY REPORT
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Hole Number **WIS-191**

Project: **BROKEN_HAMMER_NRJV**

Project Number: **263**

<i>From</i> (m)	<i>To</i> (m)	<i>Lithology</i>	<i>Sample #</i>	<i>From</i>	<i>To</i>	<i>Length</i>	<i>Au</i> (g/t)	<i>Pt</i> (g/t)	<i>Pd</i> (g/t)	<i>Ni</i> (%)	<i>Cu</i> (%)
		2DA3 SDBX at lower contact									
362.20	379.20	IGN <i>Intermediate Gneiss</i> PM and quartz veins from 378.8 to 379.2m. Quartz sealed veins at lower contact at low angle to core (~15-20 dtca), similar to Joe Lake Fault, so it is probably associated.									
379.20	386.15	FGN <i>Felsic Gneiss</i> Minor SDBX up to 3-5% throughout, mainly small bands or veinlets of 2D3.				2D3					
386.15	399.30	IGN <i>Intermediate Gneiss</i> IGN with zones of near megacrystic Qtz-Kspar FGN with up to 10% SDBX (2D3). Very altered and ductile with PM veinlets in last meter.									
399.30	400.80	SDBX <i>Sudbury Breccia</i>				2BD3					

LITHOLOGY REPORT
- Detailed -

Hole Number **WIS-191**

Project: **BROKEN_HAMMER_NRJV**

Project Number: **263**

<i>From</i> (m)	<i>To</i> (m)	<i>Lithology</i>	<i>Sample #</i>	<i>From</i>	<i>To</i>	<i>Length</i>	<i>Au</i> (g/t)	<i>Pt</i> (g/t)	<i>Pd</i> (g/t)	<i>Ni</i> (%)	<i>Cu</i> (%)
		Band of SDBX at contact with PM at lower contact.									
400.80	414.25	IGN <i>Intermediate Gneiss</i> Intercalated, alternating IGN to FGN (Fg with minor foliations to Cg foliated) some larger bands of PM and shows ductile deformation. Some minor SDBX veinlets.									
414.25	416.10	PMGR <i>partial melt - granitoid</i> Zone of Partial Melt quartz-feldspar within the IGN.									
416.10	417.95	IGN <i>Intermediate Gneiss</i> IGN with zones of near megacrystic Qtz-Kspar FGN. Very altered and ductile with PM veinlets throughout.									
417.95	418.85	PMGR <i>partial melt - granitoid</i> Zone of Partial Melt quartz-feldspar within the IGN.									

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Hole Number **WIS-191**

Project: **BROKEN_HAMMER_NRJV**

Project Number: **263**

<i>From</i> (m)	<i>To</i> (m)	<i>Lithology</i>	<i>Sample #</i>	<i>From</i>	<i>To</i>	<i>Length</i>	<i>Au</i> (g/t)	<i>Pt</i> (g/t)	<i>Pd</i> (g/t)	<i>Ni</i> (%)	<i>Cu</i> (%)
418.85	424.80	IGN Intermediate Gneiss IGN with zones of near megacrystic Qtz-Kspar FGN. Very altered and ductile with PM veinlets throughout.									
424.80	430.40	FGN Felsic Gneiss Ductile with minor PM Veins within. Could just be a larger Partial Melt zone above the Diabase dyke intrusion. Bleached with epidote alteration.									
430.40	439.60	DIA Diabase Vfg, dark grey with some alteration and Qtz-Biotite veins in center of dyke and slightly coarser grained.									
439.60	455.50	FGN Felsic Gneiss Mg to Cg with SDBX at lower contact.									

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Hole Number **WIS-191**

Project: **BROKEN_HAMMER_NRJV**

Project Number: **263**

<i>From</i> (m)	<i>To</i> (m)	<i>Lithology</i>	<i>Sample #</i>	<i>From</i>	<i>To</i>	<i>Length</i>	<i>Au</i> (g/t)	<i>Pt</i> (g/t)	<i>Pd</i> (g/t)	<i>Ni</i> (%)	<i>Cu</i> (%)
455.50	458.50	SDBX IGN host <i>Sudbury Breccia</i>				<i>Sudbury Breccia : 2B3</i>					
458.50	462.10	IGN Fg to Mg, banded with minor SDBX veinlets. <i>Intermediate Gneiss</i>				<i>Sudbury Breccia :</i>					
462.10	462.80	SDBX IGN host with disseminated and glomeritic pyrite comprising up to 2% <i>Sudbury Breccia</i>				<i>Sudbury Breccia : 2B3</i>					
462.80	468.80	IGN Mg with minor SDBX veinlets <i>Intermediate Gneiss</i>				<i>Sudbury Breccia :</i>					

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Hole Number **WIS-191**

Project: **BROKEN_HAMMER_NRJV**

Project Number: **263**

<i>From</i> (m)	<i>To</i> (m)	<i>Lithology</i>	<i>Sample #</i>	<i>From</i>	<i>To</i>	<i>Length</i>	<i>Au</i> (g/t)	<i>Pt</i> (g/t)	<i>Pd</i> (g/t)	<i>Ni</i> (%)	<i>Cu</i> (%)
468.80	470.50	SDBX Sudbury Breccia SDBX with PM veins mostly hosted in the IGN portion									
						2B3					
470.50	471.40	FLT Fault Quartz-Epidote-+/-Biotite filled altered veins at low angle (15-20 dtca). Probably a small subsidiary fault set related to Joe Lake Fault.									
471.40	483.00	FGN Felsic Gneiss PM veins and ductile near upper SDBX contact. Heavily K-spar altered and/or hematized pervasively.									
483.00	486.50	SDBX Sudbury Breccia Up to 70% SDBX hosted in IGN and FGN.									
						2BD3					

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Project: **BROKEN_HAMMER_NRJV**

Project Number: **263**

<i>From</i> (m)	<i>To</i> (m)	<i>Lithology</i>	<i>Sample #</i>	<i>From</i>	<i>To</i>	<i>Length</i>	<i>Au</i> (g/t)	<i>Pt</i> (g/t)	<i>Pd</i> (g/t)	<i>Ni</i> (%)	<i>Cu</i> (%)
486.50	490.27	IGN Intermediate Gneiss IGN with 10-15% SDBX fractures and veinlets									
						Sudbury Breccia :					
490.27	491.67	SDBX Sudbury Breccia Up to 30-40% SDBX hosted in IGN and FGN.				2BD3					
						Sudbury Breccia :					
491.67	495.00	IGN Intermediate Gneiss IGN+FGN with up to 15% SDBX veinlets and bands cutting throughout. Epidote alteration banding and alteration of the SDBX matrix.				2BD2					
						Sudbury Breccia :					
495.00	501.68	SDBX Sudbury Breccia SDBX in IGN with PM veins and zones as well. Lower contact grades in to IGN to FGN or may just be altered and hematized before turning in to Diabase.				2B3					
						Sudbury Breccia :					

LITHOLOGY REPORT
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Project: **BROKEN_HAMMER_NRJV**

Project Number: **263**

<i>From</i> (m)	<i>To</i> (m)	<i>Lithology</i>	<i>Sample #</i>	<i>From</i>	<i>To</i>	<i>Length</i>	<i>Au</i> (g/t)	<i>Pt</i> (g/t)	<i>Pd</i> (g/t)	<i>Ni</i> (%)	<i>Cu</i> (%)
501.68	504.00	FGN <i>Felsic Gneiss</i> Mg with PM veins and Quartz veins associated with the Joe Lake Fault that cuts at a low angle to the core.									
504.00	507.87	DIA <i>Diabase</i> Vfg-Fg, dark grey with up to 30%. Low angle quartz veins associated with the nearby Joe Lake Fault.									
507.87	508.72	SDBX <i>Sudbury Breccia</i> SDBX at lower contact of DIA that is Epidote altered and hematized.				2B3					
508.72	510.37	MCQMON <i>Megacrystic Quartz Monzonite</i> Heavily hematized with up to 10% SDBX.									
510.37	510.90	SDBX <i>Sudbury Breccia</i>				2B3					

LITHOLOGY REPORT
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Hole Number **WIS-191**

Project: **BROKEN_HAMMER_NRJV**

Project Number: **263**

<i>From</i> (m)	<i>To</i> (m)	<i>Lithology</i>	<i>Sample #</i>	<i>From</i>	<i>To</i>	<i>Length</i>	<i>Au</i> (g/t)	<i>Pt</i> (g/t)	<i>Pd</i> (g/t)	<i>Ni</i> (%)	<i>Cu</i> (%)
		SDBX at contact of Diabase.									
510.90	513.00	DIA <i>Diabase</i> Sudbury Breccia : Vfg to Fg, dark grey Diabase with ~10cm of SDBX at lower contact as well.									
513.00	514.25	MCQMON <i>Megacrystic Quartz Monzonite</i> Sudbury Breccia : Vcg to Cg QMON that is heavily altered with pervasive hematite, banded and interstitial epidote+/-Pyrite.									
514.25	516.25	SDBX <i>Sudbury Breccia</i> Sudbury Breccia : Brecciated zone with small dykes of Dia and quartz veins but hosted mainly in heavily altered (Hematized-Epidote) MCQMON.									
516.25	552.30	MCQMON <i>Megacrystic Quartz Monzonite</i> Sudbury Breccia : PM Quartz-feldspar veins between 520-523m with epidote alteration banding. Heavy potassic/hematite									

LITHOLOGY REPORT
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Hole Number **WIS-191**

Project: **BROKEN_HAMMER_NRJV**

Project Number: **263**

<i>From</i> (m)	<i>To</i> (m)	<i>Lithology</i>	<i>Sample #</i>	<i>From</i>	<i>To</i>	<i>Length</i>	<i>Au</i> (g/t)	<i>Pt</i> (g/t)	<i>Pd</i> (g/t)	<i>Ni</i> (%)	<i>Cu</i> (%)
		alteration from 541.30-552.30m in the hangingwall above the Joe Lake Fault.									
552.30	560.55	FLT Fault Sudbury Breccia : Joe Lake Fault main branch. Quartz sealed, large scale fault cutting at a fairly low angle to core (15-20 dtca). Large pockets of drusy and prismatic terminus quartz crystals present. From 552.30-554.10m it is mostly MCQMON but is full of low angle subsidiary fault seals. Appears to be at a point in the fault that is beginning to "Horsetail" and hitting boiling point and crack-seal.									
560.55	573.25	MCQMON Megacrystic Quartz Monzonite Sudbury Breccia : Heavily altered with potassic/hematitic and epidote in banding and fracture controlled. Several larger alteration bands from 569-570m.									
573.25	574.75	FLT Fault Sudbury Breccia : Quartz sealed in the center. Heavily Chlorite-Epidote altered as well as some potassic, mostly biotite alteration. Subordinate fault to the main JL fault above.									

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Hole Number **WIS-191**

Project: **BROKEN_HAMMER_NRJV**

Project Number: **263**

<i>From</i> (m)	<i>To</i> (m)	<i>Lithology</i>	<i>Sample #</i>	<i>From</i>	<i>To</i>	<i>Length</i>	<i>Au</i> (g/t)	<i>Pt</i> (g/t)	<i>Pd</i> (g/t)	<i>Ni</i> (%)	<i>Cu</i> (%)
574.75	587.58	MCQMON <i>Megacrystic Quartz Monzonite</i> Sudbury Breccia : Megacrystic, dark red quartz monzonite with small fracture filling subsidiary quartz-biotite+/-pyrite sealed veins associated to fault above. Larger quartz-biotite+/-Pyrite veins subordinate to Joe Lake Fault at 15-20 dtca and 1-3cm wide.									
587.58	588.37	MGN <i>Mafic Gneiss</i> Sudbury Breccia : Fg, greenish grey, amphibolized and biotite/epidote altered, minor foliation. Small bands of epidote altered SDBX that are dextrally offset by small quartz-biotite veins. Contacts to MCQMON at ~35 dtca.									
588.37	589.13	MCQMON <i>Megacrystic Quartz Monzonite</i> Sudbury Breccia : Megacrystic, dark red quartz monzonite with small fracture filling subsidiary quartz-biotite+/-pyrite sealed veins associated to fault above.									
589.13	589.53	MGN <i>Mafic Gneiss</i> Sudbury Breccia : Fg, greenish grey, amphibolized and biotite/epidote altered, minor foliation. Small bands of epidote altered SDBX that are dextrally offset by small quartz-biotite veins. Contacts to MCQMON at ~35 dtca.									

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Project: **BROKEN_HAMMER_NRJV**

Project Number: **263**

<i>From</i> (m)	<i>To</i> (m)	<i>Lithology</i>	<i>Sample #</i>	<i>From</i>	<i>To</i>	<i>Length</i>	<i>Au</i> (g/t)	<i>Pt</i> (g/t)	<i>Pd</i> (g/t)	<i>Ni</i> (%)	<i>Cu</i> (%)
589.53	0.00	EOH <i>End of Hole</i>									

DRILL HOLE REPORT

 Hole Number **WIS-192**

 Project: **WISNER_GLENCORE NRJV**

 Project Number: **642**

Drilling	Casing	Core	Location	Other
Azimuth: 360	Length: 0	Dimension: NQ	Township: WISNER	Logged by: Shannon Baird
Dip: -45	Pulled: no	Storage: Core Shed	Claim No.: 984632	Relog by:
Length: 160.65	Capped: yes	Section:	NTS:	Contractor: Jacob & Samuel Drilling Ltd.
Started: 17-Dec-14	Cemented: no	Hole Type DD	Hole: SURFACE	Spotted by: Dave Coventry
Completed: 19-Dec-14				Surveyed: yes
Logged: 18-Dec-14				Surveyed by: Wallbridge
Comment:				Geophysics: None
		Coordinate - Gemcom	Coordinate - UTM	Geophysic Contractor:
		East: 496008.29	East: 496008.29	Left in hole: Nothing
		North: 5178772.18	North: 5178772.18	Making water: no
		Elev.: 428.78	Elev.: 428.78	Multi shot survey: no
			Zone: 17 NAD: 27	

Deviation Tests

<i>Distance</i>	<i>Azimuth</i>	<i>Dip</i>	<i>Type</i>	<i>Good</i>	<i>Comments</i>
0.00	360.00	-45.00	C	<input checked="" type="checkbox"/>	
17.00	358.30	-46.30	F	<input checked="" type="checkbox"/>	Mag: 5559
68.00	359.40	-45.70	F	<input checked="" type="checkbox"/>	Mag: 5480
119.00	359.30	-45.20	F	<input checked="" type="checkbox"/>	Mag:5472
160.00	359.10	-45.00	F	<input checked="" type="checkbox"/>	Mag:5494

LITHOLOGY REPORT
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Hole Number **WIS-192**

Project: **WISNER_GLENCORE NRJV**

Project Number: **642**

<i>From</i> (m)	<i>To</i> (m)	<i>Lithology</i>	<i>Sample #</i>	<i>From</i>	<i>To</i>	<i>Length</i>	<i>Au</i> (g/t)	<i>Pt</i> (g/t)	<i>Pd</i> (g/t)	<i>Ni</i> (%)	<i>Cu</i> (%)
0.00	1.25	CAS Casing									
		Casing									
		Sudbury Breccia :									
1.25	38.40	FGN Felsic Gneiss Felsic Gneiss with intermittent IGN bands and PM or MCQMON zones. 0.5-1.0cm Qtz-Pyrite+/-Hm vein around 16m sub-parallel to core.									
		Sudbury Breccia :									
38.40	65.25	IGN Intermediate Gneiss Banded and foliated IGN with bands of Qtz-Kspar (MCQMON?) with associated interstitial Magnetite. Potential cause of IP anomaly.									
		Sudbury Breccia :									
65.25	71.60	MCQMON Megacrystic Quartz Monzonite Heavily hematized with Magnetite alteration associated with MCQMON felsic bands.									
		Sudbury Breccia :									

LITHOLOGY REPORT
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Hole Number **WIS-192**

Project: **WISNER_GLENCORE NRJV**

Project Number: **642**

<i>From</i> (m)	<i>To</i> (m)	<i>Lithology</i>	<i>Sample #</i>	<i>From</i>	<i>To</i>	<i>Length</i>	<i>Au</i> (g/t)	<i>Pt</i> (g/t)	<i>Pd</i> (g/t)	<i>Ni</i> (%)	<i>Cu</i> (%)
71.60	106.80	IGN <i>Intermediate Gneiss</i> Banded, foliated IGN with PM zones and MCQMON bands as well.									
106.80	108.00	MCQMON <i>Megacrystic Quartz Monzonite</i> Large band of MCQMON within the IGN package. No major alteration.									
108.00	115.20	IGN <i>Intermediate Gneiss</i> IGN with large packages of MCQMON throughout.									
115.20	118.00	MCQMON <i>Megacrystic Quartz Monzonite</i> Gneissic or foliated zone of MCQMON with minor K-spar and hematite.									
118.00	159.30	IGN <i>Intermediate Gneiss</i> IGN with zone of hematized spar and bleaching or sericite+epidote. Pyrite vein cuts near parallel to core									

LITHOLOGY REPORT
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Hole Number **WIS-192**

Project: **WISNER_GLENCORE NRJV**

Project Number: **642**

<i>From</i> <i>(m)</i>	<i>To</i> <i>(m)</i>	<i>Lithology</i>	<i>Sample #</i>	<i>From</i>	<i>To</i>	<i>Length</i>	<i>Au</i> <i>(g/t)</i>	<i>Pt</i> <i>(g/t)</i>	<i>Pd</i> <i>(g/t)</i>	<i>Ni</i> <i>(%)</i>	<i>Cu</i> <i>(%)</i>
		with interstitial actinolite blades and epidote. Large "clasts" of hematized Quartz-Feldspar from the MCQMON below and split out especially near the lower MCQMON contact from ~153-159,30m									
159.30	160.65	MCQMON <i>Megacrystic Quartz Monzonite</i>									
		Near massive and megacrystic with minor hematite alteration around fracturing. Epidote replaced SDBX bands at ~159.50m.									
160.65	0.00	EOH <i>End of Hole</i>									

DRILL HOLE REPORT

 Hole Number **WIS-193**

 Project: **WISNER_GLENCORE NRJV**

 Project Number: **642**

Drilling	Casing	Core	Location	Other
Azimuth: 360	Length: 0	Dimension: NQ	Township: WISNER	Logged by: Shannon Baird
Dip: -45	Pulled: no	Storage: Core Shed	Claim No.: 984632	Relog by:
Length: 217.06	Capped: yes	Section:	NTS:	Contractor: Jacob & Samuel Drilling Ltd.
Started: 19-Dec-14	Cemented: no	Hole Type DD	Hole: SURFACE	Spotted by: Dave Coventry
Completed: 22-Dec-14				Surveyed: yes
Logged: 23-Dec-14				Surveyed by: Wallbridge
Comment: IP Anomaly appears to be associated with high (3-5%) Magnetite content in hole from ~40m to 125m depth. Magnetic Susceptibility reading were also taken for the complete downhole profile and plotted. They also verify and coincide with the IP anomaly depth.			Coordinate - Gemcom	Geophysics: None
			East: 496086.08	Geophysic Contractor:
			North: 5178629.56	Left in hole: Nothing
			Elev.: 401.04	Making water: no
			Zone: 17 NAD: 27	Multi shot survey: no

Deviation Tests

<i>Distance</i>	<i>Azimuth</i>	<i>Dip</i>	<i>Type</i>	<i>Good</i>	<i>Comments</i>
0.00	360.00	-45.00	C	<input checked="" type="checkbox"/>	
16.00	356.70	-45.30	F	<input checked="" type="checkbox"/>	MAG: 5513
67.00	359.00	-45.10	F	<input checked="" type="checkbox"/>	MAG: 5489
118.00	355.60	-44.40	F	<input checked="" type="checkbox"/>	MAG: 5467
169.00	358.00	-44.30	F	<input checked="" type="checkbox"/>	MAG: 5439
217.00	356.90	-43.80	F	<input checked="" type="checkbox"/>	MAG: 5448

LITHOLOGY REPORT

- Detailed -

 Hole Number **WIS-193**

 Project: **WISNER_GLENCORE NRJV**

 Project Number: **642**

<i>From</i> (m)	<i>To</i> (m)	<i>Lithology</i>		<i>Sample #</i>	<i>From</i>	<i>To</i>	<i>Length</i>	<i>Au</i> (g/t)	<i>Pt</i> (g/t)	<i>Pd</i> (g/t)	<i>Ni</i> (%)	<i>Cu</i> (%)
0.00	2.85	CAS	Casing									
2.85	5.50	MDIA	Matachewan Diabase									
5.50	12.45	IGN	Intermediate Gneiss									
12.45	16.15	SDBX	Sudbury Breccia									

LITHOLOGY REPORT
- Detailed -

Hole Number **WIS-193**

Project: **WISNER_GLENCORE NRJV**

Project Number: **642**

<i>From</i> (m)	<i>To</i> (m)	<i>Lithology</i>	<i>Sample #</i>	<i>From</i>	<i>To</i>	<i>Length</i>	<i>Au</i> (g/t)	<i>Pt</i> (g/t)	<i>Pd</i> (g/t)	<i>Ni</i> (%)	<i>Cu</i> (%)
16.15	73.45	IGN Intermediate Gneiss 5% SDBX veinlets throughout. Hematite altered throughout. Chlorite veinlets with disseminated Py+Cpy present from 33.50 to 35m.									
73.45	89.50	FGN Felsic Gneiss Hematite altered FGN with epidote breccia alteration as well up to 3%.									
89.50	98.60	MCQMON Megacrystic Quartz Monzonite Large Quartz-Feldspar Megacrysts within intermittent FGN bands.									
98.60	101.70	IGN Intermediate Gneiss Typical with minor Hematite alteration. Also, up to 3% interstitial disseminated Magnetite present.									
101.70	103.30	MCQMON Megacrystic Quartz Monzonite									

LITHOLOGY REPORT
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Hole Number **WIS-193**

Project: **WISNER_GLENCORE NRJV**

Project Number: **642**

<i>From</i> (m)	<i>To</i> (m)	<i>Lithology</i>	<i>Sample #</i>	<i>From</i>	<i>To</i>	<i>Length</i>	<i>Au</i> (g/t)	<i>Pt</i> (g/t)	<i>Pd</i> (g/t)	<i>Ni</i> (%)	<i>Cu</i> (%)
		Large Quartz-Feldspar Megacrysts within intermittent FGN bands. This section has pervasive hematite alteration throughout.									
103.30	105.70	IGN Intermediate Gneiss Typical with minor Hematite alteration. Also, up to 5% interstitial disseminated Magnetite present.									
105.70	107.00	MCQMON Megacrystic Quartz Monzonite Large Quartz-Feldspar Megacrysts within intermittent FGN bands. This section has pervasive hematite alteration throughout.									
107.00	138.65	IGN Intermediate Gneiss Typical and fairly equal parts felsic and mafic from 107-129m but mainly mafic dominated with intermittent bands from from 129-138.60m.									

LITHOLOGY REPORT
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Hole Number **WIS-193**

Project: **WISNER_GLENCORE NRJV**

Project Number: **642**

<i>From</i> (m)	<i>To</i> (m)	<i>Lithology</i>	<i>Sample #</i>	<i>From</i>	<i>To</i>	<i>Length</i>	<i>Au</i> (g/t)	<i>Pt</i> (g/t)	<i>Pd</i> (g/t)	<i>Ni</i> (%)	<i>Cu</i> (%)
138.65	139.15	PEG <i>Pegmatite</i> Band of massive grey bull quartz that is skirted by hematite altered feldspar megacrysts over 10cm or so.									
139.15	150.60	IGN <i>Intermediate Gneiss</i> Mostly mafic with 30% felsic bands, much of which are megacrystic feldspar. Mostly megacrystic felsic zone from 142-145.50m.									
150.60	153.40	DIA <i>Diabase</i> Fg, dark grey diabase with minor large plagioclase porphyroblasts.									
153.40	158.50	FGN <i>Felsic Gneiss</i> Mostly felsic and hematite altered megacrystic zones in gneissic package.									
158.50	160.10	MCQMON <i>Megacrystic Quartz Monzonite</i>									

LITHOLOGY REPORT
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Hole Number **WIS-193**

Project: **WISNER_GLENCORE NRJV**

Project Number: **642**

<i>From</i> (m)	<i>To</i> (m)	<i>Lithology</i>	<i>Sample #</i>	<i>From</i>	<i>To</i>	<i>Length</i>	<i>Au</i> (g/t)	<i>Pt</i> (g/t)	<i>Pd</i> (g/t)	<i>Ni</i> (%)	<i>Cu</i> (%)
		Typical megacrystic feldspars and quartz rich monzonite that has hematite alteration along grain									
160.10	173.30	MGN <i>Mafic Gneiss</i> Sudbury Breccia : Mostly mafic gneiss with some bands of near pegmatitic partial melt or altered MCQMON that have been hematized. Up to 1% Disseminated Pyrite throughout.									
173.30	175.20	MCQMON <i>Megacrystic Quartz Monzonite</i> Sudbury Breccia : Typical megacrystic feldspars and quartz rich monzonite that has hematite alteration along grain									
175.20	178.60	IGN <i>Intermediate Gneiss</i> Sudbury Breccia : Mostly mafic with bands and quartz clasts dragged throughout. Lower 1-2m is chloritized and has accessory magnetite.									
178.60	181.00	MCQMON <i>Megacrystic Quartz Monzonite</i> Sudbury Breccia :									

LITHOLOGY REPORT
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Hole Number **WIS-193**

Project: **WISNER_GLENCORE NRJV**

Project Number: **642**

<i>From</i> (m)	<i>To</i> (m)	<i>Lithology</i>	<i>Sample #</i>	<i>From</i>	<i>To</i>	<i>Length</i>	<i>Au</i> (g/t)	<i>Pt</i> (g/t)	<i>Pd</i> (g/t)	<i>Ni</i> (%)	<i>Cu</i> (%)
Typical megacrystic feldspars and quartz rich monzonite that has intense hematite alteration throughout.											
181.00	189.70	IGN <i>Intermediate Gneiss</i> Pods of quartz-Actinolite/Chlorite with sericite+/-Magnetite alteration.									
189.70	192.00	MCQMON <i>Megacrystic Quartz Monzonite</i> Minor gneissosity with Hematite-Chlorite-Magnetite alteration.									
192.00	194.60	IGN <i>Intermediate Gneiss</i> IGN with Hematite-Chlorite-Epidote-Magnetite alteration and Quartz-carbonate-Chlorite veins. Intensely altered mafic portion of the gneissic package.									
194.60	200.60	FGN <i>Felsic Gneiss</i> Very quartz-feldspar rich potentially and altered pegmatitic zone. Large bands of Epidote-Chlorite									

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Hole Number **WIS-193**

Project: **WISNER_GLENCORE NRJV**

Project Number: **642**

<i>From</i> (m)	<i>To</i> (m)	<i>Lithology</i>	<i>Sample #</i>	<i>From</i>	<i>To</i>	<i>Length</i>	<i>Au</i> (g/t)	<i>Pt</i> (g/t)	<i>Pd</i> (g/t)	<i>Ni</i> (%)	<i>Cu</i> (%)
		alteration throughout similar to alteration in unit above.									
200.60	217.06	IGN <i>Intermediate Gneiss</i> Mostly mafic zones with intermittent felsic bands and fragments throughout.									
217.06	0.00	EOH <i>End of Hole</i>									

DRILL HOLE REPORT

 Hole Number **WIS-194**

 Project: **BROKEN_HAMMER_NRJV**

 Project Number: **263**

Drilling	Casing	Core	Location	Other
Azimuth: 360	Length: 0	Dimension: NQ	Township: WISNER	Logged by: Shannon Baird
Dip: -45	Pulled: no	Storage: Core Shed	Claim No.: L108106	Relog by:
Length: 371.08	Capped: yes	Section:	NTS:	Contractor: Jacob & Samuel Drilling Ltd.
Started: 06-Jan-15	Cemented: no	Hole Type DD	Hole: SURFACE	Spotted by: Dave Coventry
Completed: 11-Jan-15				Surveyed: yes
Logged: 07-Jan-15				Surveyed by: Wallbridge
Comment:				Geophysics: BHEM
		Coordinate - Gemcom	Coordinate - UTM	Geophysic Contractor:
		East: 496718.5	East: 496718.5	Left in hole: Nothing
		North: 5178023.13	North: 5178023.13	Making water: no
		Elev.: 397.44	Elev.: 397.44	Multi shot survey: no
			Zone: 17 NAD: 27	

Deviation Tests

Distance	Azimuth	Dip	Type	Good	Comments
0.00	360.00	-45.00	C	<input checked="" type="checkbox"/>	
20.00	355.10	-46.50	F	<input checked="" type="checkbox"/>	Mag:5476
71.00	357.80	-46.20	F	<input checked="" type="checkbox"/>	Mag:5478
122.00	357.60	-46.10	F	<input checked="" type="checkbox"/>	Mag:5393
173.00	1.30	-45.70	F	<input checked="" type="checkbox"/>	Mag:5540
224.00	358.10	-45.90	F	<input checked="" type="checkbox"/>	Mag:5534
275.00	359.70	-45.70	F	<input checked="" type="checkbox"/>	Mag:5432
329.00	2.10	-45.30	F	<input checked="" type="checkbox"/>	Mag: 5446
371.00	8.00	-45.30	F	<input checked="" type="checkbox"/>	Mag: 5299

LITHOLOGY REPORT
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Hole Number **WIS-194**

Project: **BROKEN_HAMMER_NRJV**

Project Number: **263**

<i>From</i> (m)	<i>To</i> (m)	<i>Lithology</i>	<i>Sample #</i>	<i>From</i>	<i>To</i>	<i>Length</i>	<i>Au</i> (g/t)	<i>Pt</i> (g/t)	<i>Pd</i> (g/t)	<i>Ni</i> (%)	<i>Cu</i> (%)
0.00	3.63	CAS Casing Casing									
3.63	14.27	GRGN granite gneiss Medium grained, very light pinkish cream colored with minor foliations. Minor Hematite alteration throughout along fractures and forming halos.									
14.27	17.77	IGN Intermediate Gneiss Mostly mafic zone with up to 15% felsic bands that have been hematite altered.									
17.77	27.00	GRGN granite gneiss Medium grained, very light pinkish cream colored with minor foliations. Minor Hematite alteration throughout along fractures and forming halos.									

LITHOLOGY REPORT
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Hole Number **WIS-194**

Project: **BROKEN_HAMMER_NRJV**

Project Number: **263**

<i>From</i> (m)	<i>To</i> (m)	<i>Lithology</i>	<i>Sample #</i>	<i>From</i>	<i>To</i>	<i>Length</i>	<i>Au</i> (g/t)	<i>Pt</i> (g/t)	<i>Pd</i> (g/t)	<i>Ni</i> (%)	<i>Cu</i> (%)
27.00	30.20	SDBX <i>Sudbury Breccia</i> Hot Brecciated and recrystallized IGN zone with moderate hematite pervasive throughout. Coarse epidote replacement as well at lower contact.				Sudbury Breccia : 2B2					
30.20	56.50	GRGN <i>granite gneiss</i> Minor SDBX bands (<5%) with intense epidote replacement from ~41-52m. Small mariolitic vein cavities with quartz crystals and minor disseminated pyrite infilling their cores. There are bleached halos around the veins that have been partially replaced by epidote and entire vein is haloed on both sides by hematite, mostly between 45.5-46.5m.				Sudbury Breccia :					
56.50	60.00	SDBX <i>Sudbury Breccia</i> Hot breccia hosted in altered GRGN. Hematite and epidote altered. Light creamy greenish looking matrix that has been recrystallized.				Sudbury Breccia : 2D2					
60.00	75.50	GRGN <i>granite gneiss</i> Same as above GRGN but heavily altered from 60-65.5m with intense epidote vein filling and bleaching with epidote replacement patches and pervasive hematite throughout.				Sudbury Breccia :					

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Hole Number **WIS-194**

Project: **BROKEN_HAMMER_NRJV**

Project Number: **263**

<i>From</i> (m)	<i>To</i> (m)	<i>Lithology</i>	<i>Sample #</i>	<i>From</i>	<i>To</i>	<i>Length</i>	<i>Au</i> (g/t)	<i>Pt</i> (g/t)	<i>Pd</i> (g/t)	<i>Ni</i> (%)	<i>Cu</i> (%)
75.50	86.45	IGN Intermediate Gneiss Typical of area. Minor SDBX bands/veinlets (<5%).									
86.45	97.60	SDBX Sudbury Breccia Up to 30% SDBX. Hot 2DB2. Magnetite alteration throughout breccia zone especially at upper contact. PM vein at ~95.75m with up to 5% blebby Py. SDBX microfractures cutting gneiss with disseminated Py up to 5%.									
97.60	103.50	DIA Diabase Fine grained, dark grey diabase dyke.									
103.50	105.12	IGN Intermediate Gneiss IGN block within the diabase dyke									

LITHOLOGY REPORT
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Hole Number **WIS-194**

Project: **BROKEN_HAMMER_NRJV**

Project Number: **263**

<i>From</i> (m)	<i>To</i> (m)	<i>Lithology</i>	<i>Sample #</i>	<i>From</i>	<i>To</i>	<i>Length</i>	<i>Au</i> (g/t)	<i>Pt</i> (g/t)	<i>Pd</i> (g/t)	<i>Ni</i> (%)	<i>Cu</i> (%)
105.12	109.85	DIA Diabase Sudbury Breccia : Same as above DIA with fairly sharp, but irregular contact to the breccia below									
109.85	110.50	SDBX Sudbury Breccia Sudbury Breccia : Very hot recrystallized breccia, mainly located near at contact.				2C2					
110.50	112.80	IGN Intermediate Gneiss Sudbury Breccia : Potentially MGN, very dark but typical looking									
112.80	114.00	FGN Felsic Gneiss Sudbury Breccia : Up to 5% SDBX veinlets with Hematite and Epidote alteration throughout. Weak to moderate patchy.									

LITHOLOGY REPORT
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Hole Number **WIS-194**

Project: **BROKEN_HAMMER_NRJV**

Project Number: **263**

<i>From</i> (m)	<i>To</i> (m)	<i>Lithology</i>	<i>Sample #</i>	<i>From</i>	<i>To</i>	<i>Length</i>	<i>Au</i> (g/t)	<i>Pt</i> (g/t)	<i>Pd</i> (g/t)	<i>Ni</i> (%)	<i>Cu</i> (%)
114.00	119.00	SDBX Sudbury Breccia Very hot 2C2 SDBX. Up to 40% SDBX matrix. Minor disseminated Pyrite.									
119.00	132.00	FGN Felsic Gneiss Up to 3% SDBX veinlets with zones of finer grained, potentially unfoliated Wisner Gabbro.									
132.00	133.65	SDBX Sudbury Breccia ~15-20% SDBX and Partial melt zones hosted in IGN. 2BD2.				2B2					
133.65	147.50	IGN Intermediate Gneiss Typical with a few partial melt veins. Minor bleaching and epidote from 133.83-136.00m.									
147.50	150.30	DIA Diabase Medium grained DIA dyke with up to 5% SDBX microfractures throughout.									

LITHOLOGY REPORT
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Hole Number **WIS-194**

Project: **BROKEN_HAMMER_NRJV**

Project Number: **263**

<i>From</i> (m)	<i>To</i> (m)	<i>Lithology</i>	<i>Sample #</i>	<i>From</i>	<i>To</i>	<i>Length</i>	<i>Au</i> (g/t)	<i>Pt</i> (g/t)	<i>Pd</i> (g/t)	<i>Ni</i> (%)	<i>Cu</i> (%)
150.30	161.00	IGN Intermediate Gneiss Sudbury Breccia : Typical IGN with a few larger but <20cm partial melt zones throughout.									
161.00	163.70	FGN Felsic Gneiss Sudbury Breccia : Light pinkish cream, medium grained with minor foliations with minor epidote (<1mm) veinlets and biotite.									
163.70	165.75	DIA Diabase Sudbury Breccia : Mg, dark grey, dyke. Very magnetic with small feldspar porphs throughout. Partial melt bands at lower contact.									
165.75	172.75	GRGN granite gneiss Sudbury Breccia : Light pinkish green tinted, creamy looking, medium grained granitoid (QMON) with minor foliations. Pervasive epidote alteration throughout.									

LITHOLOGY REPORT
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Hole Number **WIS-194**

Project: **BROKEN_HAMMER_NRJV**

Project Number: **263**

<i>From</i> (m)	<i>To</i> (m)	<i>Lithology</i>	<i>Sample #</i>	<i>From</i>	<i>To</i>	<i>Length</i>	<i>Au</i> (g/t)	<i>Pt</i> (g/t)	<i>Pd</i> (g/t)	<i>Ni</i> (%)	<i>Cu</i> (%)
172.75	180.00	IGN Intermediate Gneiss Up to 176m is mostly mafic and almost looks like a WGAB. Lower half is more typical.									
180.00	183.73	SDBX Sudbury Breccia Very hot, recrystallized breccia bands that are greenish grey and hosted in epidote altered FGN to IGN. Up to 15-20% SDBX (2BD2).									
183.73	187.00	MGN Mafic Gneiss Medium grained, mostly mafic, potentially foliated WGAB with some felsic bands.									
187.00	192.66	IGN Intermediate Gneiss Typical. Same as above IGN.									

LITHOLOGY REPORT
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Hole Number **WIS-194**

Project: **BROKEN_HAMMER_NRJV**

Project Number: **263**

<i>From</i> (m)	<i>To</i> (m)	<i>Lithology</i>	<i>Sample #</i>	<i>From</i>	<i>To</i>	<i>Length</i>	<i>Au</i> (g/t)	<i>Pt</i> (g/t)	<i>Pd</i> (g/t)	<i>Ni</i> (%)	<i>Cu</i> (%)
192.66	197.13	DIA Diabase Mg, dark grey, dyke. Very magnetic with small feldspar porphs throughout. Partial melt bands at contact.									
197.13	203.92	IGN Intermediate Gneiss Typical. Same as above IGN.									
203.92	204.80	DIA Diabase Fg to Mg, dark grey, dyke. Very magnetic with small feldspar porphs throughout. SDBX at contact.									
204.80	207.20	SDBX Sudbury Breccia Large clasts of granite and IGN. 60% 2BD2 SDBX hosted in IGN with hematite and epidote alteration.									

LITHOLOGY REPORT
- Detailed -

Hole Number **WIS-194**

Project: **BROKEN_HAMMER_NRJV**

Project Number: **263**

<i>From</i> (m)	<i>To</i> (m)	<i>Lithology</i>	<i>Sample #</i>	<i>From</i>	<i>To</i>	<i>Length</i>	<i>Au</i> (g/t)	<i>Pt</i> (g/t)	<i>Pd</i> (g/t)	<i>Ni</i> (%)	<i>Cu</i> (%)
207.20	210.00	IGN <i>Intermediate Gneiss</i> Sudbury Breccia : Significant partial melt with hematite alteration and epidote. Disseminated Pyrite in mafic bands at ~209m.									
210.00	214.90	SDBX <i>Sudbury Breccia</i> Sudbury Breccia : 35% 2D3 SDBX hosted in IGN with Hm and Ep alteration.				2D3					
214.90	226.65	IGN <i>Intermediate Gneiss</i> Sudbury Breccia : ~10% SDBX bands and veins hosted in a minor gneissic IGN with hematite throughout upper portion and several partial melt bands throughout.									
226.65	229.30	SDBX <i>Sudbury Breccia</i> Sudbury Breccia : ~20% SDBX in 2D2 hosted in intensely hematite and epidote altered IGN. Larger clasts with ragged boundaries and biotite porphyroblasts in dark greenish colored matrix.									

LITHOLOGY REPORT
- Detailed -

Hole Number **WIS-194**

Project: **BROKEN_HAMMER_NRJV**

Project Number: **263**

<i>From</i> (m)	<i>To</i> (m)	<i>Lithology</i>	<i>Sample #</i>	<i>From</i>	<i>To</i>	<i>Length</i>	<i>Au</i> (g/t)	<i>Pt</i> (g/t)	<i>Pd</i> (g/t)	<i>Ni</i> (%)	<i>Cu</i> (%)
229.30	237.90	IGN Intermediate Gneiss Intense epidote alteration, especially close to the upper boundary. Heavily hematite altered or potassic as well. Up to 10% SDBX bands.									
237.90	240.55	SDBX Sudbury Breccia ~30% SDBX hosted in IGN. Hot 2D2-3 breccia.				2D3					
240.55	274.90	IGN Intermediate Gneiss ~5% hot 2D2 SDBX. Weak hematite alteration throughout. Minor partial melt bands.									
274.90	277.80	SDBX Sudbury Breccia ~15% hot 2D2 SDBX, minor clasts, mostly green and recrystallized. Hosted in IGN with some partial melt bands.									

LITHOLOGY REPORT
- Detailed -

Hole Number **WIS-194**

Project: **BROKEN_HAMMER_NRJV**

Project Number: **263**

<i>From</i> (m)	<i>To</i> (m)	<i>Lithology</i>	<i>Sample #</i>	<i>From</i>	<i>To</i>	<i>Length</i>	<i>Au</i> (g/t)	<i>Pt</i> (g/t)	<i>Pd</i> (g/t)	<i>Ni</i> (%)	<i>Cu</i> (%)
277.80	287.55	IGN Intermediate Gneiss Typical with minor hematite									
287.55	288.55	PEG Pegmatite Intense hematite alteration with quartz-carbonate vein with Pyrite+Chlorite with coarse epidote interstitially.									
288.55	301.30	IGN Intermediate Gneiss Typical with some Partial melt containing intense hematite (pervasive) and epidote (interstitial) alteration throughout.									
301.30	326.50	FGN Felsic Gneiss Mostly felsic gneiss with some more intermediate zones.									

LITHOLOGY REPORT
- Detailed -

Hole Number **WIS-194**

Project: **BROKEN_HAMMER_NRJV**

Project Number: **263**

<i>From</i> (m)	<i>To</i> (m)	<i>Lithology</i>	<i>Sample #</i>	<i>From</i>	<i>To</i>	<i>Length</i>	<i>Au</i> (g/t)	<i>Pt</i> (g/t)	<i>Pd</i> (g/t)	<i>Ni</i> (%)	<i>Cu</i> (%)
326.50	327.50	PEG <i>Pegmatite</i> Coarse feldspar and quartz cutting boundary of FGN and GRGN. Chlorite-Py-Cpy cutting pegmatite and interstitial as well.									
327.50	353.00	GRGN <i>granite gneiss</i> Albite? And epidote alteration throughout replacing plagioclase by sausseritization. <5% SDBX bands cutting 2D2. Partial melt bands throughout.									
353.00	358.20	SDBX <i>Sudbury Breccia</i> ~20% hot, 2D2 SDBX mostly smaller bands and veinlets cutting GRGN.									
358.20	361.45	GRGN <i>granite gneiss</i> ~5% SDBX bands and fractures throughout. Chlorite and epidote altered in the matrix. Minor albite and epidote+hematite alteration throughout.									

LITHOLOGY REPORT
- Detailed -

Hole Number **WIS-194**

Project: **BROKEN_HAMMER_NRJV**

Project Number: **263**

<i>From</i> (m)	<i>To</i> (m)	<i>Lithology</i>	<i>Sample #</i>	<i>From</i>	<i>To</i>	<i>Length</i>	<i>Au</i> (g/t)	<i>Pt</i> (g/t)	<i>Pd</i> (g/t)	<i>Ni</i> (%)	<i>Cu</i> (%)
361.45	365.00	SDBX Sudbury Breccia ~20% SDBX with larger bands of matrix with clasts. Recrystallized matrix 2D2 with a greenish color.									
365.00	371.08	IGN Intermediate Gneiss Mostly coarser grained mafic zones with some more felsic (with hematite alteration). No SDBX present.									
371.08	0.00	EOH End of Hole									

DRILL HOLE REPORT

 Hole Number **WIS-195**

 Project: **BROKEN_HAMMER_NRJV**

 Project Number: **263**

Drilling	Casing	Core	Location	Other
Azimuth: 4.5	Length: 0	Dimension: NQ	Township: WISNER	Logged by: Györgyi Tuba
Dip: -44.3	Pulled: no	Storage: Core Shed	Claim No.: L108106	Relog by:
Length: 407.19	Capped: yes	Section:	NTS:	Contractor: Jacob & Samuel Drilling Ltd.
Started: 11-Jan-15	Cemented: no	Hole Type DD	Hole: SURFACE	Spotted by: Tom Johnson
Completed: 18-Jan-15				Surveyed: yes
Logged: 19-Jan-15				Surveyed by: Wallbridge
Comment:				Geophysics: BHEM
		Coordinate - Gemcom	Coordinate - UTM	Geophysic Contractor:
		East: 496769.82	East: 496769.82	Left in hole: Nothing
		North: 5178467.03	North: 5178467.03	Making water: no
		Elev.: 391.42	Elev.: 391.42	Multi shot survey: no
			Zone: 17 NAD: 27	

Deviation Tests

Distance	Azimuth	Dip	Type	Good	Comments
0.00	4.50	-44.30	C	<input checked="" type="checkbox"/>	
35.00	4.50	-44.30	F	<input checked="" type="checkbox"/>	5527
86.00	2.60	-43.70	F	<input checked="" type="checkbox"/>	5333
137.00	357.30	-43.10	F	<input checked="" type="checkbox"/>	5338
188.00	356.80	-42.90	F	<input checked="" type="checkbox"/>	5225
239.00	2.30	-42.40	F	<input checked="" type="checkbox"/>	5421
290.00	3.20	-41.20	F	<input checked="" type="checkbox"/>	5467
341.00	5.10	-40.90	F	<input checked="" type="checkbox"/>	5473
392.00	4.80	-40.40	F	<input checked="" type="checkbox"/>	5645

LITHOLOGY REPORT
- Detailed -

Hole Number **WIS-195**

Project: **BROKEN_HAMMER_NRJV**

Project Number: **263**

<i>From</i> <i>(m)</i>	<i>To</i> <i>(m)</i>	<i>Lithology</i>		<i>Sample #</i>	<i>From</i>	<i>To</i>	<i>Length</i>	<i>Au</i> <i>(g/t)</i>	<i>Pt</i> <i>(g/t)</i>	<i>Pd</i> <i>(g/t)</i>	<i>Ni</i> <i>(%)</i>	<i>Cu</i> <i>(%)</i>
0.00	15.70	CAS	Casing									
15.70	73.41	FGN	Felsic Gneiss									
73.41	79.45	QMON	Quartz Monzonite									
79.45	105.67	IGN	Intermediate Gneiss									

LITHOLOGY REPORT
- Detailed -

Hole Number **WIS-195**

Project: **BROKEN_HAMMER_NRJV**

Project Number: **263**

<i>From</i> (m)	<i>To</i> (m)	<i>Lithology</i>	<i>Sample #</i>	<i>From</i>	<i>To</i>	<i>Length</i>	<i>Au</i> (g/t)	<i>Pt</i> (g/t)	<i>Pd</i> (g/t)	<i>Ni</i> (%)	<i>Cu</i> (%)
105.67	118.32	FGN Felsic Gneiss Sudbury Breccia : Same FGN with strong fabric as above. Mechanically crushed from 108.75-108.88 m. 112.92-113.04: 1 cm c/g ep-qtz-chl vein, similar to that at 100.48 m; 30 TCA.									
118.32	207.42	MGN Mafic Gneiss Sudbury Breccia : Medium- to coarse-grained, quite typical MGN, usually slight fabric that locally gets stronger. Trace py, locally increased to 2-3% and appears interstitial to c/g amph. Ca. 146-157: possible metagabbro alternating with PEG felsic domain, both with (relatively) large amount of c/g amph (dominates mafic). 152.77-152.93: 25-30 TCA, 1-2 cm irregular vein of sericite-silica-py (py 2%, finely disseminated). Amount of regional ep veins and ser-sil altn increases towards the lower contact (ep veining still weak) from 205 m.									
207.42	208.65	SDBX Sudbury Breccia Sudbury Breccia : 40%, at DIA/MGN contact. Slightly deformed clasts, no PM veins but little pm halo around clasts.				2D4					
208.65	222.14	DIA Diabase Sudbury Breccia :									

LITHOLOGY REPORT
- Detailed -

Hole Number **WIS-195**

Project: **BROKEN_HAMMER_NRJV**

Project Number: **263**

<i>From</i> (m)	<i>To</i> (m)	<i>Lithology</i>	<i>Sample #</i>	<i>From</i>	<i>To</i>	<i>Length</i>	<i>Au</i> (g/t)	<i>Pt</i> (g/t)	<i>Pd</i> (g/t)	<i>Ni</i> (%)	<i>Cu</i> (%)
		Massive, homogeneous, f/g DIA. Trace feldspar porphyroblasts.									
222.14	223.14	SDBX <i>Sudbury Breccia</i>									
		45%. Looks colder than the breccia above: virtually no deformation, quite sharp clast margins.	Sudbury Breccia :			2D4					
223.14	255.02	IGN <i>Intermediate Gneiss</i>									
		Same as IGN above, slightly more mafic. Occasional <few-mm qtz-chl veins, and a 7-mm drusy qtz-chl-hem vein (251.25-251.43), 30 TCA. Rare and insignificant ep-chl veins (regional, <2mm). 249.22-250.09: ductile shear zone, likely pre-impact.	Sudbury Breccia :								
255.02	257.04	SDBX <i>Sudbury Breccia</i>									
		In DIA from 255.82 m. Quite cold, no deformation, clear, sharp clast margins.	Sudbury Breccia :			2DA5					
257.04	261.60	MGN <i>Mafic Gneiss</i>									
			Sudbury Breccia :								

LITHOLOGY REPORT
- Detailed -

Hole Number **WIS-195**

Project: **BROKEN_HAMMER_NRJV**

Project Number: **263**

<i>From</i> (m)	<i>To</i> (m)	<i>Lithology</i>	<i>Sample #</i>	<i>From</i>	<i>To</i>	<i>Length</i>	<i>Au</i> (g/t)	<i>Pt</i> (g/t)	<i>Pd</i> (g/t)	<i>Ni</i> (%)	<i>Cu</i> (%)
		Medium- to coarse-grained, less amphibole than in MGN section above.									
261.60	294.98	FGN <i>Felsic Gneiss</i> Sudbury Breccia : Greyish white to salmon pink, moderate to strong fabric, mafic restite 10% of interval. Locally short sections of strongly hem-stained QMON, up to 1 m. Trace disseminated with ep in QMON sections. Trace SDBX, cold, in up to 5-cm intervals; matrix pervasively ep-altered. Very rare, <2 mm, low-angle chl-cc-qtz veins.									
294.98	359.30	QMON <i>Quartz Monzonite</i> Sudbury Breccia : Medium- to coarse-grained QMON, cherry red due to strong hem-staining. No (or locally very slight) metamorph fabric. Locally pegmatitic, e.g., 294.30-296.10: graphic texture, up to 5-cm K-fsp's, trace magnetite in few-mm patches. 298.20-298.30: mechanically crushed (not structure). 305.50-317.00: QMON alternating with FGN (local mmph fabric, gradual contact). From 321 m to end of section: 1% porphyric K-fsp, up to 2 cm in diameter. Trace SDBX, matrix ep-altered, cold with sharp clast margins and no ductile def or pm at all. Lower contact with DIA is brecciated: 10% 2GA5 SDBX from 356.56 to 359.30m. Ep veining insignificant, except from 316.48-320.86 and 346.65-348.90: weak veining of regional ep, f/g, individual veins <2 mm, anastomosing and mesh-texture, with occasional trace py. Rare chl-qtz-hem+/-cc veins (<2 mm, low angles ~15 TCA).									
359.30	365.19	MDIA <i>Matatchewan Diabase</i> Sudbury Breccia :									

LITHOLOGY REPORT
- Detailed -

Hole Number **WIS-195**

Project: **BROKEN_HAMMER_NRJV**

Project Number: **263**

<i>From</i> (m)	<i>To</i> (m)	<i>Lithology</i>	<i>Sample #</i>	<i>From</i>	<i>To</i>	<i>Length</i>	<i>Au</i> (g/t)	<i>Pt</i> (g/t)	<i>Pd</i> (g/t)	<i>Ni</i> (%)	<i>Cu</i> (%)	
		Fine-grained DIA, ~5% fsp porphyroblasts, concentrated from 363.56-364.35. Inhomogeneous, with short sections of QMON (362.70-363.20, trace py) bracketed by SDBX.										
365.19	390.00	DIOR <i>Diorite</i>										
		<i>Sudbury Breccia :</i> Coarse-grained, dark, massive unit somewhere along the MNZ-DIOR line (felsic:mafic~2:1). Local hem staining along ep veins. 366.00-366.56: mechanically crushed (not a structure). Rare chl-hem+/-qtz+/-cc veins, <2mm, low-angle, hem halo. 389.26-390.00: QMON clast with SDBX at upper and lower contacts (5 and 15 cm, respectively).										
390.00	394.07	MGN <i>Mafic Gneiss</i>										
		<i>Sudbury Breccia :</i> Fine-grained MGN with not much felsic domains.										
394.07	401.30	FGN <i>Felsic Gneiss</i>										
		<i>Sudbury Breccia :</i> Strong mmph fabric. Trace SDBX, cold, 2AD5, ep-altered matrix. 394.07-397.60: finer-grained than rest of the interval, with sericite-silicic alteration.										

LITHOLOGY REPORT
- Detailed -

Hole Number **WIS-195**

Project: **BROKEN_HAMMER_NRJV**

Project Number: **263**

<i>From</i> (m)	<i>To</i> (m)	<i>Lithology</i>	<i>Sample #</i>	<i>From</i>	<i>To</i>	<i>Length</i>	<i>Au</i> (g/t)	<i>Pt</i> (g/t)	<i>Pd</i> (g/t)	<i>Ni</i> (%)	<i>Cu</i> (%)
401.30	404.43	MGN <i>Mafic Gneiss</i> As MGN above. 401.55-401.57: ~1 cm fault gouge, moderately cemented, grey matrix, ~60TCA. 402.80-403.39: mechanical crushing, aided by <1 mm cc-chl veins at some spots.									
404.43	406.10	SDBX <i>Sudbury Breccia</i> ~0.5 m sections of MNZ and MGN with ~25% SDBX. Cold, sharp clast margins and no def at all. Pervasive ep in matrix.				2DA5					
406.10	407.18	QMON <i>Quartz Monzonite</i> Coarse-grained to pegmatitic with 2% magnetite in few-mm patches. Trace py.									
407.18	407.19	EOH <i>End of Hole</i>									

DRILL HOLE REPORT

Hole Number **WIS-196**

Project: **BROKEN HAMMER OPERATIO**

Project Number: **8000**

Drilling	Casing	Core	Location	Other
Azimuth: 32.1	Length: 0	Dimension: NQ	Township: WISNER	Logged by: Györgyi Tuba
Dip: -63	Pulled: no	Storage: Core Shed	Claim No.:	Relog by:
Length: 130.8	Capped: yes	Section:	NTS:	Contractor: Jacob & Samuel Drilling Ltd.
Started: 26-Jan-15	Cemented: no	Hole Type DD	Hole: SURFACE	Spotted by: Tom Johnson
Completed: 29-Jan-15				Surveyed:
Logged: 29-Jan-15				Surveyed by:
Comment:				Geophysics:
		Coordinate - Gemcom	Coordinate - UTM	Geophysic Contractor:
		East: 497158.1	East: 497158.1	Left in hole:
		North: 5178719.2	North: 5178719.2	Making water: no
		Elev.: 408.8	Elev.: 408.8	Multi shot survey: no
			Zone: 17 NAD: 27	

Deviation Tests

<i>Distance</i>	<i>Azimuth</i>	<i>Dip</i>	<i>Type</i>	<i>Good</i>	<i>Comments</i>
0.00	32.10	-63.00	C	<input checked="" type="checkbox"/>	
14.00	31.90	-63.30	F	<input checked="" type="checkbox"/>	5403
48.00	32.10	-63.00	F	<input checked="" type="checkbox"/>	5392
104.00	32.90	-63.20	F	<input checked="" type="checkbox"/>	5411

LITHOLOGY REPORT
- Detailed -

Hole Number **WIS-196**

Project: **BROKEN HAMMER OPERATIO**

Project Number: **8000**

<i>From</i> (m)	<i>To</i> (m)	<i>Lithology</i>	<i>Sample #</i>	<i>From</i>	<i>To</i>	<i>Length</i>	<i>Au</i> (g/t)	<i>Pt</i> (g/t)	<i>Pd</i> (g/t)	<i>Ni</i> (%)	<i>Cu</i> (%)
56.07	90.50	IGN Intermediate Gneiss									
		Sudbury Breccia :									
		Same IGN as above. 56.45-56.93: SDBX (2DA3); some ductile deformation, gradual clast boundaries.	R228017	55.61	56.94	1.33	0.00	0.00	0.00	0.01	0.01
		Several low-angle, drusy qtz-hem-chl veins, e.g., 59.10-59.23 (1-cm vein, reactivated and cut by 3-mm hem-chl vein; 20-25 TCA), 70.06-70.20 (7-mm qtz vein w/ hem-chl along walls, cut by a salmon-coloured vein of cc-hem(?); 20 TCA), 75.53-75.71 (similar, 15 TCA). 68.71-69.00: Trace disseminated sulphide in regional ep vein zone w/ chl patches - might be cpy, but the alteration is not the footwall-type. 87.29-87.60: tiny sulphide grains associated w/ ep in PM, most of it is py but might be some cpy too. 89.90-89.93: 1 cm qtz vein w/ minor ep and 2% (tarnished) py. 90.40-90.50: tiny sulphide grains with ep in pm'd leucosome + PM vein; majority is py but might be accompanied with trace cpy.	R228018	56.94	57.26	0.32	0.01	0.28	0.13	0.02	0.08
			R228019	57.26	58.71	1.45	0.00	0.00	0.00	0.01	0.00
			R228020	68.71	69.05	0.34	0.00	0.00	0.00	0.00	0.06
			R228021	73.83	75.30	1.47	0.00	0.00	0.00	0.00	0.01
			R228022	75.30	76.15	0.85	0.00	0.20	0.16	0.01	0.01
			R228023	76.15	77.35	1.20	0.01	0.72	0.51	0.01	0.03
			R228024	77.35	77.67	0.32	0.56	2.75	1.89	0.03	0.15
			R228025	77.67	78.00	0.33	0.06	0.57	0.74	0.06	0.63
			R228026	78.00	78.48	0.48	0.00	0.00	0.02	0.01	0.02
			R228027	78.48	79.98	1.50	0.00	0.01	0.01	0.00	0.00
			R228028	79.98	81.45	1.47	0.00	0.00	0.00	0.00	0.00
			R228029	87.29	87.72	0.43	0.00	0.00	0.00	0.02	0.00
			R228030	90.32	90.62	0.30	0.00	0.00	0.00	0.01	0.00
		CPY mineralization: 57.06m: 2-mm irregular, discontinuous CPY vein surrounded by the characteristic greyish ep halo; 50 TCA (might be a small PM vein) 76.14-77.50 m: fine dissemination (0.5%) w/ greyish ep halo, fracture-controlled (running parallel TCA) - 1.5% py (dissemination to patchy) w/o visible cpy appears from 75.30 to 76.14, fr-controlled and in 1-cm pm'd PEG veinlet 77.50-77.89 m: small, few-mm patches, 1% 77.89-77.96 m: (semi-)massive, 1 cm vein, cpy intergrown with very f/g ep, 30 TCA - no sharp wall, rather gradual towards host rock 77.96-78.50 m: disseminated, 0.5%									

LITHOLOGY REPORT
- Detailed -

Hole Number **WIS-196**

Project: **BROKEN HAMMER OPERATIO**

Project Number: **8000**

<i>From</i> (m)	<i>To</i> (m)	<i>Lithology</i>	<i>Sample #</i>	<i>From</i>	<i>To</i>	<i>Length</i>	<i>Au</i> (g/t)	<i>Pt</i> (g/t)	<i>Pd</i> (g/t)	<i>Ni</i> (%)	<i>Cu</i> (%)
90.50	122.32	QMON Quartz Monzonite									
		Sudbury Breccia :	R232013	106.38	107.86	1.48	0.00	0.00	0.00	0.00	0.00
		C/g QMON-MNZ, locally PEG, 2% porphyritic fsp (up to 3 cm). Contact with IGN is "gradual", as usual - the major difference between this section and the IGN above is the complete lack of mafic domains here.	R232014	107.86	109.28	1.42	0.00	0.00	0.00	0.00	0.00
		91.18-91.42: either a really hot SDBX (in which case it is a 2D2 with very coarse, quite felsic matrix mixed with pm from the clasts) or a strangely altered QMON (I'd say the first one). 97.18-97.74: chl-hem-qtz (drusy) vein, 5 mm, 5 TCA (cut be 2mm, 20 TCA cc-hem vein). 110.89-110.92: reg ep zone, same as that at 68.71-69.00, w/ 1% py and possible trace cpy. 113.45-113.50: extensional ep-qtz vein, 7 mm, 60TCA.	R232015	109.28	110.70	1.42	0.00	0.00	0.00	0.00	0.00
			R228031	110.70	111.00	0.30	0.03	0.08	0.09	0.01	0.08
			R228032	111.00	112.10	1.10	0.00	0.00	0.00	0.00	0.00
			R228033	112.10	113.61	1.51	0.00	0.04	0.08	0.00	0.00
			R228036	113.61	114.10	0.49	0.02	1.02	1.94	0.01	0.08
			R228037	114.10	115.56	1.46	0.00	0.00	0.01	0.00	0.02
			R228038	115.56	116.86	1.30	0.03	0.19	0.23	0.01	0.07
			R228039	116.86	117.90	1.04	0.01	1.70	1.19	0.00	0.01
			R228040	117.90	118.79	0.89	0.00	0.00	0.00	0.00	0.01
			R228041	118.79	119.88	1.09	0.03	1.68	1.24	0.02	0.05
			R228042	119.88	120.63	0.75	0.02	2.17	1.77	0.02	0.05
			R228043	120.63	121.45	0.82	0.02	0.03	0.04	0.00	0.01
			R228044	121.45	122.14	0.69	0.19	0.81	0.54	0.05	0.21
122.32	130.79	SDBX									
		Sudbury Breccia :	R228045	122.14	123.56	1.42	0.01	0.02	0.04	0.01	0.01
			R228046	123.56	125.04	1.48	0.00	0.00	0.00	0.01	0.01
			R228047	125.04	126.15	1.11	0.00	0.00	0.00	0.01	0.01
			R228048	126.15	126.94	0.79	0.00	0.00	0.00	0.01	0.02
			R228049	126.94	128.30	1.36	0.00	0.00	0.00	0.01	0.01
			R228050	128.30	128.94	0.64	0.00	0.00	0.00	0.01	0.06
			R230370	128.94	129.91	0.97	0.00	0.00	0.00	0.01	0.01
			R230371	129.91	130.78	0.87	0.00	0.00	0.00	0.01	0.01
130.79	130.80	EOH									
		End of Hole									
		Sudbury Breccia :									

LITHOLOGY REPORT
- Detailed -

Hole Number **WIS-196**

Project: **BROKEN HAMMER OPERATIO**

Project Number: **8000**

<i>From</i> (m)	<i>To</i> (m)	<i>Lithology</i>	<i>Sample #</i>	<i>From</i>	<i>To</i>	<i>Length</i>	<i>Au</i> (g/t)	<i>Pt</i> (g/t)	<i>Pd</i> (g/t)	<i>Ni</i> (%)	<i>Cu</i> (%)
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DRILL HOLE REPORT

 Hole Number **WIS-197**

 Project: **BROKEN HAMMER OPERATIO**

 Project Number: **8000**

Drilling	Casing	Core	Location	Other
Azimuth: 38	Length: 0	Dimension: NQ	Township: WISNER	Logged by: Györgyi Tuba
Dip: -54	Pulled:	Storage: Core Shed	Claim No.:	Relog by:
Length: 149.58	Capped:	Section:	NTS:	Contractor: Jacob & Samuel Drilling Ltd.
Started: 29-Jan-15	Cemented:	Hole Type DD	Hole: SURFACE	Spotted by: Tom Johnson
Completed: 02-Feb-15				Surveyed:
Logged: 04-Feb-15				Surveyed by:
Comment:				Geophysics:
		Coordinate - Gemcom	Coordinate - UTM	Geophysic Contractor:
		East: 497181.9	East: 497181.9	Left in hole:
		North: 5178688.5	North: 5178688.5	Making water:
		Elev.: 408.8	Elev.: 408.8	Multi shot survey:
			Zone: 17 NAD: 27	

Deviation Tests

<i>Distance</i>	<i>Azimuth</i>	<i>Dip</i>	<i>Type</i>	<i>Good</i>	<i>Comments</i>
0.00	38.00	-54.00	C	<input checked="" type="checkbox"/>	
14.00	38.40	-55.80	F	<input checked="" type="checkbox"/>	5226
65.00	41.00	-55.90	F	<input checked="" type="checkbox"/>	5448
116.00	45.30	-55.40	F	<input checked="" type="checkbox"/>	5355
149.58	42.60	-55.10	F	<input checked="" type="checkbox"/>	5483

LITHOLOGY REPORT
- Detailed -

Hole Number **WIS-197**

Project: **BROKEN HAMMER OPERATIO**

Project Number: **8000**

<i>From</i> (m)	<i>To</i> (m)	<i>Lithology</i>	<i>Sample #</i>	<i>From</i>	<i>To</i>	<i>Length</i>	<i>Au</i> (g/t)	<i>Pt</i> (g/t)	<i>Pd</i> (g/t)	<i>Ni</i> (%)	<i>Cu</i> (%)
0.00	5.62	CAS Casing Sudbury Breccia : Casing in IGN. There is a large, solid piece among the rubble that is most likely a boulder; it is mineralized from 3.76 to 4.82 m (1% patchy cpy in few-mm patches) but not sampled.									
5.62	47.71	GAB Gabbro Sudbury Breccia : Massive (meta)gabbro, not sure if it is the Wisner Gabbro though (looks more metamorphosed, slightly gneissic, with less sharp grain boundaries). Weak hematite staining and ep altn. Cut by occasional GR PEG veins (e.g., 35.88-37.32, 5 TCA, hem-stained). Low-angle hem-chl veins (with variable min ratios) and drusy, zoned qtz veins with chl are common (detailed in Major Alt). 8.48-8.60: Trace sulphide, possibly cpy, in pm'd and alt'd PEG vein (1.5 cm, 25 TCA). 18.06-18.22: Trace SDBX (2A3) with little ductile def and diminished clast boundaries. 9.68-9.73: pervasive ep zone and ep vein with trace diss sulph, most likely py.	R230374 R230375	8.30 9.53	8.64 9.97	0.34 0.44	0.00 0.00	0.00 0.00	0.00 0.00	0.01 0.02	0.01 0.00
47.71	81.60	FGN Felsic Gneiss Sudbury Breccia : FGN for the most part of the interval, quite typical with nice gneissic fabric. 47.71-48.08: SDBX at contact, 2DA3, with trace sulphide in clasts: dissem and fr-controlled, most of it is py but some fr-controlled might be cpy. Hydrothermal bx with drusy, zoned qtz, same as everywhere at Wisner, shows up at 54.85-54.91 (20 TCA, thickness n/a because runs at side of core and is broken), 58.32-58.51 (jigsaw bx, 30 (lower cont) to 70 (upper cont) TCA), 82.12-82.25 (jigsaw, 4 cm wide, 30 TCA). 77.79-84.36:~10% SDBX in >10 cm sections; mtrx strongly ep alt'd and has quite a bit of pm mixed in from clasts; trace CPY at 79.18 in ep alt'd zone (ep does not seem to be footwall-type and DIA clasts are present in the interval, too).	R230376 R230377	47.61 78.95	47.93 79.31	0.32 0.36	0.00 0.00	0.00 0.00	0.00 0.00	0.01 0.00	0.00 0.01

LITHOLOGY REPORT
- Detailed -

 Hole Number **WIS-197**

 Project: **BROKEN HAMMER OPERATIO**

 Project Number: **8000**

<i>From</i> (m)	<i>To</i> (m)	<i>Lithology</i>	<i>Sample #</i>	<i>From</i>	<i>To</i>	<i>Length</i>	<i>Au</i> (g/t)	<i>Pt</i> (g/t)	<i>Pd</i> (g/t)	<i>Ni</i> (%)	<i>Cu</i> (%)
81.60	101.07	QMON Quartz Monzonite Sudbury Breccia : None of the contacts are sharp, they are rather gradual (as usual), and, therefore, meterage is approximate. Difference between FGN above/below and QMON is the lack of gneissosity and the very weak mmp fabric in latter. Strong hematite staining, weak patchy ep altn. Ext ep-qtz veins and younger hem-qtz veining (detailed in Major Alt). Drusy qtz bx from 89.00-89.30, >2 cm, parallel TCA.									
101.07	149.57	FGN Felsic Gneiss Sudbury Breccia : Same as FGN above. 147.15-149.57: ~10% SDBX, 2D3, quite hot with ductile deformation and pm'd clasts. CPY mineralization: 107.94-110.55: patchy to disseminated, 1.5% with concentration of patches from 109.25-109.30. 112.01-115.15: fr-controlled (35-45 TCA, hairline fractires) and patchy, 1 % 144.65-144.9: trace in chl-ep vein (1 mm, 15 TCA) 145.52-145.71: 1% dissem to patchy with ep in PM veins (30 TCA) 145.75-145.79: irregular vein, cpy with very fine ep, 70 TCA 146.20-146.40: trace dissem in reg(?) ep zone (1 mm veins + perv altn), but ep halo around cpy looks footwall-type (?)149.25-149.29: trace sulph (cpy?) along 50-TCA fracture cutting SDBX	R230378	103.65	105.05	1.40	0.00	0.00	0.00	0.00	0.00
			R230379	105.05	106.45	1.40	0.00	0.01	0.00	0.00	0.00
			R230380	106.45	107.86	1.41	0.00	0.00	0.00	0.00	0.00
			R230381	107.86	108.36	0.50	0.10	1.21	1.08	0.01	0.08
			R230382	108.36	109.11	0.75	0.02	0.39	0.36	0.01	0.01
			R230383	109.11	110.00	0.89	0.65	4.33	3.15	0.04	0.23
			R230384	110.00	110.55	0.55	0.31	1.14	0.51	0.01	0.04
			R230385	110.55	112.01	1.46	0.00	0.00	0.00	0.00	0.01
			R230386	112.01	112.32	0.31	1.11	0.03	0.22	0.03	0.19
			R230387	112.32	113.15	0.83	0.08	0.10	0.43	0.01	0.09
			R230388	113.15	114.64	1.49	0.52	2.00	1.12	0.02	0.18
			R230389	114.64	115.51	0.87	0.02	0.00	0.03	0.00	0.03
			R230390	115.51	117.00	1.49	0.00	0.00	0.00	0.00	0.00
			R230391	117.00	118.43	1.43	0.00	0.00	0.00	0.00	0.00
			R230392	118.43	119.85	1.42	0.00	0.00	0.00	0.00	0.00
			R230393	141.50	142.97	1.47	0.00	0.00	0.00	0.00	0.00
			R230396	142.99	144.45	1.46	0.00	0.00	0.00	0.00	0.00
			R230397	144.45	145.05	0.60	0.01	0.00	0.00	0.01	0.02

LITHOLOGY REPORT
- Detailed -

Hole Number **WIS-197**

Project: **BROKEN HAMMER OPERATIO**

Project Number: **8000**

<i>From (m)</i>	<i>To (m)</i>	<i>Lithology</i>	<i>Sample #</i>	<i>From</i>	<i>To</i>	<i>Length</i>	<i>Au (g/t)</i>	<i>Pt (g/t)</i>	<i>Pd (g/t)</i>	<i>Ni (%)</i>	<i>Cu (%)</i>
			R230398	145.05	145.39	0.34	0.00	0.00	0.00	0.00	0.00
			R230399	145.39	146.00	0.61	0.19	6.95	14.50	0.22	0.22
			R230400	146.00	146.46	0.46	0.02	0.01	0.02	0.01	0.11
			R232001	146.46	147.97	1.51	0.00	0.00	0.00	0.00	0.01
			R232002	147.97	149.19	1.22	0.00	0.01	0.02	0.00	0.00
			R232003	149.19	149.56	0.37	0.00	0.00	0.00	0.00	0.00
149.57	149.58	EOH	Sudbury Breccia :								
		End of Hole									

DRILL HOLE REPORT

 Hole Number **WIS-198**

 Project: **WISNER_WEST NRJV**

 Project Number: **674**

Drilling	Casing	Core	Location	Other
Azimuth: 269.7	Length: 0	Dimension: NQ	Township: WISNER	Logged by: Györgyi Tuba
Dip: -44.3	Pulled: no	Storage: Core Shed	Claim No.: L108508	Relog by: Shannon Baird
Length: 115.94	Capped: yes	Section:	NTS:	Contractor: Jacob & Samuel Drilling Ltd.
Started: 09-Feb-15	Cemented:	Hole Type DD	Hole: SURFACE	Spotted by: Tom Johnson
Completed: 15-Feb-15				Surveyed:
Logged: 18-Feb-15				Surveyed by:
Comment: First 16 boxes up to ~ 74m, logged by Gyorgyi. Remainder logged by Shannon. Wooden block at 42.6 says "void", but pieces fit all right; block was probably placed at ~43 m originally in the FLT zone.			Coordinate - Gemcom	Geophysics:
			East: 497301	Geophysic Contractor:
			North: 5178914	Left in hole:
			Elev.: 400	Making water:
			Zone: 17	Multi shot survey:
			NAD: 27	

Deviation Tests

<i>Distance</i>	<i>Azimuth</i>	<i>Dip</i>	<i>Type</i>	<i>Good</i>	<i>Comments</i>
0.00	269.70	-44.30	C	<input checked="" type="checkbox"/>	
14.00	269.70	-44.30	F	<input checked="" type="checkbox"/>	5607
65.00	267.90	-43.40	F	<input checked="" type="checkbox"/>	5523
115.94	272.40	-43.60	F	<input checked="" type="checkbox"/>	5735

LITHOLOGY REPORT
- Detailed -

Hole Number **WIS-198**

Project: **WISNER_WEST NRJV**

Project Number: **674**

<i>From</i> (m)	<i>To</i> (m)	<i>Lithology</i>		<i>Sample #</i>	<i>From</i>	<i>To</i>	<i>Length</i>	<i>Au</i> (g/t)	<i>Pt</i> (g/t)	<i>Pd</i> (g/t)	<i>Ni</i> (%)	<i>Cu</i> (%)
0.00	5.00	CAS	Casing									
5.00	6.90	QMON	Quartz Monzonite									
			Quite typical QMON, c/g to locally pegmatitic, weak mmph fabric.									
6.90	17.75	MGN	Mafic Gneiss									
			Fine- to coarse-grained, dark gneiss with 1/3-1/4 part leucosome. 2% disseminated, euhedral py (up to 1 mm grains). Mica-rich, mica alt'd to a bronzey colour. Trace SDBX to 16.50 (<1 cm stringers), ca. 15% from 16.50 to 17.75 (2D4-5): smaller clasts are alt'd (soft clast boundaries) but larger ones (~1 cm) are sharp; no pm, no ductile deformation.									
17.75	36.55	IGN	Intermediate Gneiss									
			No real sharp contact to MGN: contact was established where leucosome:melanosome ratio reached ~1:1, and strong gneissosity and moderate-strong mmph fabric appears. 19.63-21.00: very few and thin (<2 mm) extensional ep-qtz veins; one at 20.51 has trace sulphide that might be cpy with weak ep altn in the vicinity; 50-70 TCA. 21.55-23.25: core is split in half along axis, ~1/3 of it is missing: a vein runs parallel to the axis, rock is alt'd and crumbly along it; altn is the type with the talc-green colour and bleaching of host rock, covered surface is waxy to the touch but not as soft as talc. 35.62-36.45: very fine mesh of suspicious ep altn: darker green than typical regional ep and appears in patches rather than									

LITHOLOGY REPORT
- Detailed -

Hole Number **WIS-198**

Project: **WISNER_WEST NRJV**

Project Number: **674**

<i>From</i> (m)	<i>To</i> (m)	<i>Lithology</i>	<i>Sample #</i>	<i>From</i>	<i>To</i>	<i>Length</i>	<i>Au</i> (g/t)	<i>Pt</i> (g/t)	<i>Pd</i> (g/t)	<i>Ni</i> (%)	<i>Cu</i> (%)
		being fr-controlled; trace py appears with it.									
36.55	42.64	QMON Quartz Monzonite Again, no sharp contact with overlying IGN. No gneissosity, very weak mmph fabric. Trace py, some LG inclusions. 40.73-40.84: trace cpy in 2-3 mm, 35 TCA, ep-qtz-cc vein (looks regional). 41.36-41.41: trace cpy in ep-qtz vein, 1 mm, 50 TCA. 41.60-42.64: altn halo of the underlying FLT: 40-60 TCA stwk of hem-lim and very f/g chl-ep veins; host is locally chl'd.									
42.64	43.96	FLT Fault Chisel Creek Fault. Lost core from 42.86-43.82 (some rubble, not much, hole had to be cemented). Upper contact ~60 TCA (not well defined), lower contact 30-40 TCA. The whole host rock is FUBAR: upper section slightly bx'd (in situ, very weak, cc-cemented) with dense veining of <1mm chl(?) veinlets, and some parts are bleached white; lower section weakly cc bx'd and intensely hem-chl'd w/ hem-gouge at lower contact (~1cm). Does not seem to have a lot of displacement along the fault, and I am good with this being compressional, too.									
43.96	52.00	QMON Quartz Monzonite As above; weak mmph fabric locally, some LG clasts. Occasional ext ep-qtz veins show up, 1mm - 2cm, 50-70 TCA.									

LITHOLOGY REPORT
- Detailed -

Hole Number **WIS-198**

Project: **WISNER_WEST NRJV**

Project Number: **674**

<i>From</i> (m)	<i>To</i> (m)	<i>Lithology</i>	<i>Sample #</i>	<i>From</i>	<i>To</i>	<i>Length</i>	<i>Au</i> (g/t)	<i>Pt</i> (g/t)	<i>Pd</i> (g/t)	<i>Ni</i> (%)	<i>Cu</i> (%)
52.00	60.78	MGN Mafic Gneiss									
		Sudbury Breccia : F/g mafic gneiss, not quite like the one that's at the top of the hole: this is more felsic, more homogeneous, less gneissic but has stronger mmpg fabric (protolith is rather a subvolcanic rock, e.g., DIA, than plutonic like the "classic" MGN). 1% dissem py. Trace cpy shows up in two 1-mm cc veins at 56.01 (45 TCA) and 60.50 (35 TCA). 56.88-59.72: 1 mm cc+/-chl vein, parallel TCA.									
60.78	72.92	IGN Intermediate Gneiss									
		Sudbury Breccia : Same as IGN above. 63.17-64.95: drusy qtz-chl-hem veins (weak veining, few mm to 1.5 cm veins), 50 TCA in avg; widest vein at 64.31: asymmetric infilling with up to 1 cm euh qtz on lower wall growing upward and small, few-mm qtz on opposite wall (chl-hem inbetween qtz crystals); at 64.79 a 7-mm qtz vein clearly cuts a 5-mm ext ep-qtz vein (50 TCA but opp dip to qtz). 71.02-72.02: SDBX, 70%, 2D4-5, no ductile def, no pm, soft clast margins (especially smaller clasts') but it is lukewarm at best, not hot; partly cuts DIA.									
72.92	77.50	DIA DIA									
		Sudbury Breccia : Mg, grey diabase with igneous textures of intergrown plagioclase needles throughout.									

LITHOLOGY REPORT
- Detailed -

Hole Number **WIS-198**

Project: **WISNER_WEST NRJV**

Project Number: **674**

<i>From</i> (m)	<i>To</i> (m)	<i>Lithology</i>	<i>Sample #</i>	<i>From</i>	<i>To</i>	<i>Length</i>	<i>Au</i> (g/t)	<i>Pt</i> (g/t)	<i>Pd</i> (g/t)	<i>Ni</i> (%)	<i>Cu</i> (%)
77.50	93.80	MGN MGN <i>Sudbury Breccia</i> : Variable textures and degrees of gneissosity and change between more felsic IGN and MGN. Quartz-Sericite-Biotite boxwork alteration veins from ~93.10 - 93.80m.									
93.80	94.20	SDBX SDBX <i>Sudbury Breccia</i> : 2A4 SDBX up up 20% brecciated fine grained MGN contacting a pegmatite below.				2AD4					
94.20	95.00	PEG Pegmatite <i>Sudbury Breccia</i> : Pinkish orange, coarse grained massive K-spar and Quartz pegmatite.									
95.00	96.77	SDBX Sudbury Breccia <i>Sudbury Breccia</i> : 2A4 up to 40%. Small brecciated interval between the pegmatite and intruded MDIA below. Might be intrusion related breccia. Also hosted in IGN with epidote alteration.				2A4					

LITHOLOGY REPORT
- Detailed -

Hole Number **WIS-198**

Project: **WISNER_WEST NRJV**

Project Number: **674**

<i>From</i> (m)	<i>To</i> (m)	<i>Lithology</i>	<i>Sample #</i>	<i>From</i>	<i>To</i>	<i>Length</i>	<i>Au</i> (g/t)	<i>Pt</i> (g/t)	<i>Pd</i> (g/t)	<i>Ni</i> (%)	<i>Cu</i> (%)
96.77	99.53	MDIA <i>Matachewan Diabase</i> Fine grained matrix with porphyritic plagioclase, most likely MDIA. Contains up to 10% large 0.5-1.0cm glomeroporphyritic plagioclase. Also some clasts of massive magnetite in the matrix.									
99.53	105.50	SDBX <i>Sudbury Breccia</i> Hosted in MGN +/- PEG with up to 25% SDBX (2AD4. The upper portion is brecciated MDIA.									
105.50	115.94	MGN <i>MGN</i> Up to 5% SDBX veinlets hosted in MGN to IGN variants. Appears to be slightly porphyritic with some bleaching of sericitization (patchy)									
115.94	0.00	EOH <i>End of Hole</i>									

LITHOLOGY REPORT
- Detailed -

Hole Number **WIS-198**

Project: **WISNER_WEST NRJV**

Project Number: **674**

<i>From</i> (m)	<i>To</i> (m)	<i>Lithology</i>	<i>Sample #</i>	<i>From</i>	<i>To</i>	<i>Length</i>	<i>Au</i> (g/t)	<i>Pt</i> (g/t)	<i>Pd</i> (g/t)	<i>Ni</i> (%)	<i>Cu</i> (%)
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DRILL HOLE REPORT

 Hole Number **WIS-199**

 Project: **WISNER_EAST NRJV**

 Project Number: **675**

Drilling	Casing	Core	Location	Other
Azimuth: 0	Length: 0	Dimension: NQ	Township: WISNER	Logged by: Shannon Baird
Dip: -45	Pulled: no	Storage: Core Shed	Claim No.: 1230728	Relog by:
Length: 396.15	Capped: yes	Section:	NTS:	Contractor: Jacob & Samuel Drilling Ltd.
Started: 22-Feb-15	Cemented: no	Hole Type DD	Hole: SURFACE	Spotted by: Tom Johnson
Completed: 02-Mar-15				Surveyed:
Logged: 23-Feb-15				Surveyed by:
Comment:				Geophysics: None
		Coordinate - Gemcom	Coordinate - UTM	Geophysic Contractor:
		East: 500750	East: 500750	Left in hole: Nothing
		North: 5178530	North: 5178530	Making water: no
		Elev.: 355	Elev.: 355	Multi shot survey: yes
			Zone: 17 NAD: 27	

Deviation Tests

Distance	Azimuth	Dip	Type	Good	Comments
0.00	0.00	-45.00	C	<input checked="" type="checkbox"/>	
23.00	0.70	-46.80	F	<input checked="" type="checkbox"/>	MAG = 5497
74.00	3.80	-46.10	F	<input checked="" type="checkbox"/>	MAG = 5526
125.00	4.60	-45.50	F	<input checked="" type="checkbox"/>	MAG = 5547
176.00	4.20	-44.60	F	<input checked="" type="checkbox"/>	MAG = 5561
227.00	6.90	-44.00	F	<input checked="" type="checkbox"/>	MAG = 5506
278.00	4.50	-42.90	F	<input checked="" type="checkbox"/>	MAG = 5539
329.00	8.00	-42.10	F	<input checked="" type="checkbox"/>	MAG = 5218
380.00	5.60	-41.30	F	<input checked="" type="checkbox"/>	MAG = 5477

LITHOLOGY REPORT
- Detailed -

Hole Number **WIS-199**

Project: **WISNER_EAST NRJV**

Project Number: **675**

<i>From</i> (m)	<i>To</i> (m)	<i>Lithology</i>		<i>Sample #</i>	<i>From</i>	<i>To</i>	<i>Length</i>	<i>Au</i> (g/t)	<i>Pt</i> (g/t)	<i>Pd</i> (g/t)	<i>Ni</i> (%)	<i>Cu</i> (%)
0.00	7.53	CAS Casing	Casing									
7.53	8.00	DIA Fg, massive, dark grey diabase. Probably a subcrop or boulder?	Diabase									
8.00	9.37	SDBX Up to 35-40% hot, recrystallized, porphyroblastic SDBX matrix hosted in FGN to Monzonite.	Sudbury Breccia									
9.37	15.75	QMON Granitoid to Quartz Monzonite with up to 10% SDBX veins throughout as well as a few small partial melt veins.	Quartz Monzonite									
15.75	20.45	SDBX	Sudbury Breccia									

LITHOLOGY REPORT
- Detailed -

Hole Number **WIS-199**

Project: **WISNER_EAST NRJV**

Project Number: **675**

<i>From</i> (m)	<i>To</i> (m)	<i>Lithology</i>	<i>Sample #</i>	<i>From</i>	<i>To</i>	<i>Length</i>	<i>Au</i> (g/t)	<i>Pt</i> (g/t)	<i>Pd</i> (g/t)	<i>Ni</i> (%)	<i>Cu</i> (%)
		Very hot, recrystallized, greenish tinged SDBX with fine to medium grained poikiloblastic biotite and amphibole throughout the matrix. Up to 75% matrix with IGN to tonalitic sub-rounded clasts up to 5cm in size.									
20.45	24.25	IGN <i>Intermediate Gneiss</i> Sudbury Breccia : Some felsic bands, weak fabric with up to 15% hot SDBX matrix bands. Some partial melt veins throughout as well.									
24.25	25.00	SDBX <i>Sudbury Breccia</i> Sudbury Breccia : 2BD2 Same as SDBX above. Hosted in IGN to FGN. Up to 50% matrix. There are some partial melt veins at ~24.50m.									
25.00	26.55	IGN <i>Intermediate Gneiss</i> Sudbury Breccia : IGN with heavy alteration from fluids off of the aplite below. The IGN has been silicified and felsified to look more like a FGN from ~26.09 to 26.55m.									

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26.55	28.29	APL <i>Aplite Dike</i> Fine grained, massive, pinkish orange quartz and k-spar rich aplitic dyke or partial melt?									
28.29	29.35	SDBX <i>Sudbury Breccia</i> Massive, hot, recrystallized SDBX matrix rich (up to 90%) zone. There is also a large partial melt vein from ~28.80 to 29m.									
29.35	30.77	FGN <i>Felsic Gneiss</i> Potassic alteration and hematization throughout. Mg-Cg, pinkish red with up to 5% SDBX veins. Several partial melt zones throughout.									
30.77	39.71	SDBX <i>Sudbury Breccia</i> Hot, recrystallized, greenish tinted SDBX with several larger clasts up to 10cm up to 37m and ~75% matrix but falling to ~30% matrix from 37 to 39.71m in to FGN or IGN. <1cm sized Partial melt veins in the SDBX with fairly low angles ~20dca located at ~31m, 34m, and 38m.									
											2BD2

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39.71	43.20	IGN <i>Intermediate Gneiss</i> Sudbury Breccia : More felsic on upper 1m. Up to 10-15% hot SDBX matrix bands throughout.									
43.20	43.87	SDBX <i>Sudbury Breccia</i> Sudbury Breccia : Up to 30% hot, recrystallized SDBX matrix within altered and felsified IGN host at contact to UMAF	2BD2								
43.87	45.37	UMAF <i>Ultramafic</i> Sudbury Breccia : Bluish grey, altered rock that is soft and fairly magnetic but not unusual for for UMAF (only 50 milli SI instead of 100-200).									
45.37	48.50	IGN <i>Intermediate Gneiss</i> Sudbury Breccia : Typical IGN with Partial melting prevalent from 47.0-48.5m									

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48.50	50.75	MDIA <i>Matatchewan Diabase</i> Sudbury Breccia : Fg-Mg recrystallized matrix with amphibole porphyroblasts as well as large 0.5-2cm glomeroporphyroblast plagioclase throughout.									
50.75	52.97	SDBX <i>Sudbury Breccia</i> Sudbury Breccia : 2BD2 Quartz-Siliceous and epidote at contact from ~50.75-51.15m. Contact at ~35dtca. Mostly hot 2BD2 matrix (up to 75%), same as above with 1-2cm clasts of granitoid and IGN with a larger fractured/brecciated clast from 52.25-52.97m. There are partial melt and epidote at ~52m.									
52.97	53.66	FGN <i>Felsic Gneiss</i> Sudbury Breccia : Altered and hematized. Probably still part of the IGN block at the lower end of the SDBX above but heavily altered from intrusion of the DIA below.									
53.66	59.20	DIA <i>Diabase</i> Sudbury Breccia : Fg, dark grey dyke with small plagioclase needles intergrown throughout. SDBX that has been heavily recrystallized and epidotized from ~56.05-56.20m. Partial Melt and Epidote at ~58.15m at ~45 dtca.									

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59.20	59.60	SDBX Sudbury Breccia Same as SDBX above but appears to be partially an intrusion breccia from the dyke emplacement.									
59.60	62.00	MCQMON Megacrystic Quartz Monzonite Has either been silicified then hematized or is just a phase of MCQMON? Some thin <mm microveinlets of Actinolite? And epidote/sericite. Large megacrystic Feldspar and quartz grains.									
62.00	66.20	FGN Felsic Gneiss Mg FGN with minor foliations as well as some Cg megacrystic partial melt bands and some IGN pods.									
66.20	68.60	IGN Intermediate Gneiss Mg, greenish grey salt and pepper IGN with up to 5% SDBX mainly along the contact to the upper FGN.									

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68.60	73.11	FGN <i>Felsic Gneiss</i> Mostly Mg-Cg, salmon pink FGN to tonalite with zones of darker reddish pink stained (hematized?) closer to the lower contact. Very siliceous. Some hematite and actinolite filled fractures from ~71.75-73.00m.									
73.11	73.33	SDBX <i>Sudbury Breccia</i> Sharp upper contact with diffuse lower contact. Hot, recrystallized (2BD2) with some biotite/amphibole porphyroblasts.									
73.33	74.05	DIA <i>Diabase</i> Fg, dark grey diabase at contact between FGN and IGN.									
74.05	75.27	IGN <i>Intermediate Gneiss</i> Mg, salt and pepper with foliations and strong fabric									

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75.27	83.60	SDBX Sudbury Breccia SDBX in FGN, IGN and DIA. Up to 30% SDBX matrix throughout. The breccia is hot, recrystallized and contains some Partial melt veins especially between 81.40-82.40m. SDBX matrix is up to 85% for 0.5m at upper and lower contacts (very hot). Several actinolite microveinlets from ~77-78m.									
83.60	85.60	DIA Diabase Fg, dark grey DIA with diffuse upper and lower contacts to the SDBX (hot).									
85.60	88.75	SDBX Sudbury Breccia 90% hot matrix from 85.6-86.1m, 30% matrix to 87.70m hosted in tonalite/FGN, 15% SDBX up to 88.75m hosted in IGN. Hot, recrystallized matrix 2BD2 with epidote alteration throughout.									
88.75	90.60	MCQMON Megacrystic Quartz Monzonite Hematized or K-altered tonalite/Quartz Monzonite with very minor fabric. Sericite and hematite microveinlets (<5% SDBX matrix).									

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90.60	96.00	SDBX Sudbury Breccia Top half hosted in MCQMON up to 91.30m and IGN in lower half. Some minor partial melt. Mostly 80% matrix from 91.00-92.50m. Remainder is between 15-30% matrix.									
96.00	100.80	IGN Intermediate Gneiss Typical, well foliated IGN with minor felsic bands and partial melt.									
100.80	116.50	SDBX Sudbury Breccia Hot, recrystallized SDBX, up to 70% matrix from 100.80-107.00m along with hematite and actinolite microveinlets with minor disseminated pyrite. Several partial melt veins as well. From 107.00-116.50m is a mixture of brecciated blocks of tonalite/IGN with matrix ranging from 20% to 45% and still hot. Well developed, 1-2cm partial melt at ~111.00m.									
116.50	121.94	FGN Felsic Gneiss Orangy salmon tonalite gneiss with heavier hematite alteration from 119-120m.									

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121.94	123.11	SDBX Sudbury Breccia Sudbury Breccia : Zone of massive, hot SDBX with up to 85-90% matrix and irregular tonalitic fragments mostly in the 1cm size but some go up to 3-5cm. Matrix is still "hot" but there aren't as many large biotite/amphibole porphyroblasts growing and it appears more "clouded" or grey and hazy, maybe a sericite/chlorite overprinting?									
123.11	126.50	FGN Felsic Gneiss Sudbury Breccia : Light beigey pink to orange. Mostly massive from 123.11-125.11m and then turns to a much more foliated FGN instead of tonalite.									
126.50	130.10	SDBX Sudbury Breccia Sudbury Breccia : Hot SDBX still but without major porphyroblasts of biotite/amphibole. Most fragments (large) are FGN while the smaller ones are IGN with some partial melt as well. Up to 40% matrix throughout.									
130.10	131.75	IGN Intermediate Gneiss Sudbury Breccia : Foliated, typical IGN with 5-7% SDBX veinlets.									

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131.75	132.05	SDBX Sudbury Breccia Thick, hot, recrystallized matrix band cutting at same orientation as fabric in gneiss.									
132.05	133.60	IGN Intermediate Gneiss Foliated, typical IGN with 5% SDBX veinlets.									
133.60	135.10	GRGN granite gneiss Light, cream colored, quartz feldspar rich Mg-Cg granitoid or granodiorite with light foliation.									
135.10	138.55	IGN Intermediate Gneiss Same as above IGN but with a couple bands of the GRGN above and SDBX at contact up to 5%.									

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138.55	140.20	SDBX Sudbury Breccia Most clasts are hematized or K-altered. Mostly matrix with 1-2cm clasts of IGN and FGN but a couple larger 5cm FGN clasts as well. Up to 80% hot matrix with what looks like quartz eyes? And amphibole porphyroblasts with epidote overprinting?									
140.20	141.50	IGN Intermediate Gneiss Same as above IGN but with a couple bands of the GRGN above and SDBX at contact up to 5%.									
141.50	141.75	SDBX Sudbury Breccia Partial melt in a small SDBX, moderately hot zone at the contact between IGN and DIA									
141.75	143.15	DIA Diabase VFg, greenish grey diabase with the typical sub-millimeter plagioclase needles throughout.									

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143.15	147.15	SDBX Sudbury Breccia Up to 60% hot, recrystallized, epidote altered matrix with several large FGN, hematite altered fragments. Actinolite+Carbonate microveinlets. Some minor hematite veinlets as well.									
147.15	148.95	DIA Diabase Typical but with some carbonate <1mm veinlets.									
148.95	150.95	SDBX Sudbury Breccia Same as breccia above. Mostly matrix but with a 50cm FGN hematized clast in the center.									
150.95	151.50	DIA Diabase Same as above but the carbonate veins are 1-2mm wide.									

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151.50	156.07	IGN <i>Intermediate Gneiss</i> Typical with some partial melt veins cutting at ~55-60 dtca.									
156.07	158.65	SDBX <i>Sudbury Breccia</i> Large FGN, hematized fragments and partial melt veins within breccia.									
158.65	160.40	IGN <i>Intermediate Gneiss</i> Typical with some partial melt veins cutting at ~55-60 dtca.									
160.40	163.70	SDBX <i>Sudbury Breccia</i> Hosted in IGN with hematized veinlets. Up to 40%, hot, recrystallized epidote and/or bleached matrix with large 1-2mm porphyroblasts (amphibole?) and quartz eyes.									
163.70	170.85	FGN <i>Felsic Gneiss</i>									

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		Hematized and K-altered FGN with hematized veinlets and carbonate veinlets. There is a ~2cm wide quartz-carbonate vein cutting at ~170m.									
170.85	171.85	GRGN <i>granite gneiss</i> Sudbury Breccia : Slight greenish cream colored, heavily altered and bleached with up to 10% SDBX and hematite filled veinlets.									
171.85	173.00	SDBX <i>Sudbury Breccia</i> Sudbury Breccia : Solid matrix dominated zone of up to 90% matrix with up to 2cm sized IGN and FGN fragments. Hot, recrystallized matrix with amphibole and quartz eyes.									
173.00	179.00	IGN <i>Intermediate Gneiss</i> Sudbury Breccia : Typical IGN with quartz-feldspar pegmatitic bands cutting throughout, especially from 173-176m with large, megacrystic quartz and feldspar and some late actinolite-chlorite filled microfaults as well as some small partial melts.									

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179.00	179.20	FLT Fault Hematite microfractures and a sealed gouge.									
179.20	181.50	IGN Intermediate Gneiss Hematized IGN with some hematite filled microveinlets throughout and overprinting pervasively.									
181.50	185.30	GRGN granite gneiss Granular looking granitoid (tonalite/QM) with minor gneissic fabric. Some small, <5cm bands of SDBX. Appears bleached and cream to reddened.									
185.30	189.40	SDBX Sudbury Breccia Hot (2-3) SDBX hosted in IGN to GRGN. Partial melt veins present as well. Odd alteration and appears to have acicular white/cream colored needles throughout the matrix as well as amphibole growths and quartz eyes. Some quartz carbonate veins at ~186m. Epidote pervasive also.									

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189.40	192.08	IGN Intermediate Gneiss Heavily altered at lower contact area with actinolite and hematite veinlets +/- carbonate from 191.70 - 192.10m.									
192.08	196.50	FGN Felsic Gneiss Quartz and Feldspar rich, siliceous, dark pinkish red unit with moderate gneissic fabric. Up to 5% SDBX bands that seem colder (maybe a 3-4?).									
196.50	196.80	FLT Fault Microfault or gouged area that is rubbly but sealed and infilled with hematite.									
196.80	201.90	FGN Felsic Gneiss Orangy red potassic color, potentially an overprint from fluid flow related to the gouge/fault above? Up to 5% SDBX bands. Large quartz and k-spar eyes throughout around 199-200m.									

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201.90	203.57	DIA Diabase Typical Fg, dark grey DIA with minor plagioclase porphyroblasts.									
203.57	207.10	FGN Felsic Gneiss Light salmon orangy pink with minor gneissic fabric.									
207.10	208.10	SDBX Sudbury Breccia Bands of hot SDBX (probably 3) cutting the FGN and comprising up to 30% of the 1m unit.									
208.10	211.45	FGN Felsic Gneiss Block meterages reset at 209m. Very deep red and silicified from 208 to 209m. Bleached and/or cream colored and silicified from 209m onward.									

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211.45	212.05	SDBX Sudbury Breccia Hosted in FGN from above with up to 35-40% matrix that is still fairly hot but has begun to cool to a potential 3 or 4?									
212.05	213.45	IGN Intermediate Gneiss Typical IGN of the area that is highly gneissic and dark, steel grey and white salt and pepper textured.									
213.45	224.10	SDBX Sudbury Breccia Hot SDBX (3) hosted in IGN from 213-214m, DIA to 215.5m and IGN to 217.9m, from 217.9 to 219m it is matrix dominated with FGN clasts (slightly cooler, maybe 3-4). Hosted in IGN up to 223m and in FGN to the lower contact. Overall, there is up to 40% matrix throughout.									
224.10	224.40	FLT Fault May not be fault but it is a highly fractured and hematite sealed contact zone at the contact of the breccia.									

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224.40	238.60	FGN Felsic Gneiss Mg-Cg with K-spar and quartz rich nature. Could potentially be MCQMON? Numerous hematite filled microveinlets throughout.									
238.60	239.60	SDBX Sudbury Breccia Hosted by both FGN and IGN at the contact with Actinolite/Carbonate veinlets and a "blurring" of the rock turning it a greyish blue.									
239.60	241.50	IGN Intermediate Gneiss Typical IGN of the are but without any heavy alteration like the remainder of the hole.									
241.50	243.60	SDBX Sudbury Breccia Very siliceous, light greyish green matrix with quartz veins. Minor disseminated sulfides. Actinolite/Amphibole alteration also with Actinolite and Carbonate microveinlets. Breccia is cooler but more altered (3-4?).									

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243.60	252.60	FGN Felsic Gneiss Typical reddish color with hematite microfractures.									
252.60	252.80	FLT Fault Small brecciated fault zone with sealed hematite/carbonate fractures.									
252.80	253.93	SDBX Sudbury Breccia Hosted in FGN, with up to 20% SDBX bands of fairly cool matrix 2D4?									
253.93	255.24	DIA Diabase VFg, dark grey diabase dyke with an epidote/carbonate +/- Actinolite altered zone with no magnetism from 254.35 to 254.65m.									

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<i>From</i> (m)	<i>To</i> (m)	<i>Lithology</i>	<i>Sample #</i>	<i>From</i>	<i>To</i>	<i>Length</i>	<i>Au</i> (g/t)	<i>Pt</i> (g/t)	<i>Pd</i> (g/t)	<i>Ni</i> (%)	<i>Cu</i> (%)
255.24	267.00	FGN <i>Felsic Gneiss</i> Sudbury Breccia : Varying degrees of silicification and hematite fractures throughout. Up to 2% SDBX veinlets.									
267.00	272.85	SDBX <i>Sudbury Breccia</i> Sudbury Breccia : Hosted in FGN from 267-269m with up to 15% SDBX, 80% matrix from 269-269.75m/ a brecciated DIA from 269.75-272 and up to 15% SDBX in FGN up to 272.85m.									
272.85	293.30	FGN <i>Felsic Gneiss</i> Sudbury Breccia : Typical FGN but may have been a MCQMON first? It has more of a reddish hue to it. Minor microfractures and hematite filling.									
293.30	360.80	IGN <i>Intermediate Gneiss</i> Sudbury Breccia : Typical salt and pepper colored small structure quartz-carbonate-actinolite filled veins from 294.5 to 295m. Quartz-carbonate alteration in sealed veins from 299-308m. Several SDBX bands that are green tinted (Epidote?) and cold (probably a 4?) and 5-7% matrix in this 304-307m. Fine, cold (4) black breccia veins running sub-parallel to core from 319-321m (~5% SDBX). There are carbonate + Pyrite veins with chlorite halos cutting throughout 338.85-342.25m in an altered zone of the IGN.									

LITHOLOGY REPORT
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Hole Number **WIS-199**

Project: **WISNER_EAST NRJV**

Project Number: **675**

<i>From</i> (m)	<i>To</i> (m)	<i>Lithology</i>	<i>Sample #</i>	<i>From</i>	<i>To</i>	<i>Length</i>	<i>Au</i> (g/t)	<i>Pt</i> (g/t)	<i>Pd</i> (g/t)	<i>Ni</i> (%)	<i>Cu</i> (%)
360.80	361.33	DIA Diabase Fg, greenish grey with minor foliations. Unsure if it is a diabase or maybe just a small mafic zone within the gneiss.									
361.33	365.30	FGN Felsic Gneiss Typical FGN or close to MCQMON with minor gneissic fabric.									
365.30	368.04	UMAF Ultramafic Bluish grey Mg, mafic to Ultramafic unit with disseminated Pyrite throughout. However, it is not magnetic or very soft, so I am unsure of exact rock classification?									
368.04	391.00	MCQMON Megacrystic Quartz Monzonite Megacrystic quartz-feldspar (1-2cm) in the QMON host with minor disseminated pyrite up to 0.05% (Trace).									

LITHOLOGY REPORT
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Hole Number **WIS-199**

Project: **WISNER_EAST NRJV**

Project Number: **675**

<i>From</i> (m)	<i>To</i> (m)	<i>Lithology</i>	<i>Sample #</i>	<i>From</i>	<i>To</i>	<i>Length</i>	<i>Au</i> (g/t)	<i>Pt</i> (g/t)	<i>Pd</i> (g/t)	<i>Ni</i> (%)	<i>Cu</i> (%)
391.00	391.44	DIA Diabase Faulted and brecciated DIA. Greenish colored and Fg-Mg with amphibole growths and chlorite altered.									
391.44	392.10	PEG Pegmatite Large massive megacrysts of Quartz-Feldspar.									
392.10	395.15	IGN Intermediate Gneiss Typical with minor thin, cold (4-5) breccia bands throughout (<2%).									
395.15	0.00	EOH End of Hole									

LITHOLOGY REPORT
- Detailed -

Hole Number **WIS-199**

Project: **WISNER_EAST NRJV**

Project Number: **675**

<i>From</i> (m)	<i>To</i> (m)	<i>Lithology</i>	<i>Sample #</i>	<i>From</i>	<i>To</i>	<i>Length</i>	<i>Au</i> (g/t)	<i>Pt</i> (g/t)	<i>Pd</i> (g/t)	<i>Ni</i> (%)	<i>Cu</i> (%)
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DRILL HOLE REPORT

 Hole Number **WIS-200**

 Project: **WISNER_EAST NRJV**

 Project Number: **675**

Drilling	Casing	Core	Location	Other
Azimuth: 0	Length: 0	Dimension: NQ	Township: WISNER	Logged by: Shannon Baird
Dip: -70	Pulled: no	Storage: Core Shed	Claim No.: 1230728	Relog by:
Length: 214.05	Capped: yes	Section:	NTS:	Contractor:
Started: 02-Mar-15	Cemented:	Hole Type DD	Hole: SURFACE	Spotted by: Tom Johnson
Completed: 10-Mar-15				Surveyed:
Logged: 02-Mar-15				Surveyed by:
Comment:				Geophysics:
		Coordinate - Gemcom	Coordinate - UTM	Geophysic Contractor:
		East: 500990	East: 500990	Left in hole:
		North: 5178710	North: 5178710	Making water: yes
		Elev.: 410	Elev.: 410	Multi shot survey:
			Zone: 17 NAD: 27	

Deviation Tests

<i>Distance</i>	<i>Azimuth</i>	<i>Dip</i>	<i>Type</i>	<i>Good</i>	<i>Comments</i>
0.00	0.00	-70.00	C	<input checked="" type="checkbox"/>	
14.00	0.00	-71.40	F	<input checked="" type="checkbox"/>	MAG=5575
65.00	359.30	-71.30	F	<input checked="" type="checkbox"/>	MAG=5506
116.00	0.40	-71.50	F	<input checked="" type="checkbox"/>	MAG=5560
167.00	1.00	-71.40	F	<input checked="" type="checkbox"/>	MAG=5395
214.00	359.50	-71.00	F	<input checked="" type="checkbox"/>	MAG=5551

LITHOLOGY REPORT
- Detailed -

Hole Number **WIS-200**

Project: **WISNER_EAST NRJV**

Project Number: **675**

<i>From</i> (m)	<i>To</i> (m)	<i>Lithology</i>	<i>Sample #</i>	<i>From</i>	<i>To</i>	<i>Length</i>	<i>Au</i> (g/t)	<i>Pt</i> (g/t)	<i>Pd</i> (g/t)	<i>Ni</i> (%)	<i>Cu</i> (%)
0.00	0.05	CAS Casing									
0.05	0.87	SDBX Sudbury Breccia									
		Collared in SDBX matrix with 2-3cm IGN and 1-2cm GRGN fragments with wispy edged and semi-rounded. Hot (2BD2) matrix with amphibole and small quartz eyes throughout. The matrix is very igneous looking and greenish-grey colored.									
0.87	1.65	FGN Felsic Gneiss									
		Light beige to pink with light foliations. Quartz with k-feldspar rimming throughout.									
1.65	7.15	SDBX Sudbury Breccia									
		Same as above but with a few larger IGN fragments up to 5-8cm in size									

LITHOLOGY REPORT
- Detailed -

Hole Number **WIS-200**

Project: **WISNER_EAST NRJV**

Project Number: **675**

<i>From</i> (m)	<i>To</i> (m)	<i>Lithology</i>	<i>Sample #</i>	<i>From</i>	<i>To</i>	<i>Length</i>	<i>Au</i> (g/t)	<i>Pt</i> (g/t)	<i>Pd</i> (g/t)	<i>Ni</i> (%)	<i>Cu</i> (%)
7.15	10.65	FGN <i>Felsic Gneiss</i> Same as above except from 8.5m to 10m it is very reddish pink and appears to be k-spar rich with hematite alteration									
10.65	11.05	DIA <i>Diabase</i> Diabase with up to 10% SDBX at the lower contact. Mg, greenish colored with 1-3mm feldspar porphyroblasts throughout.									
11.05	18.55	FGN <i>Felsic Gneiss</i> Same as FGN above with several k-spar rich patches as well including partial melt features. Minor 2% hot SDBX. Partial melt with miarolitic cavities filled with quartz (1-2mm void) at ~13.80m.									
18.55	21.55	SDBX <i>Sudbury Breccia</i> Hematite altered from 21-21.55m also with hematite veinlets cutting along the core axis. Very hot (2D2), same recrystallized style igneous matrix. Core is also very blocky from 18.55-19.50m.									

LITHOLOGY REPORT
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Hole Number **WIS-200**

Project: **WISNER_EAST NRJV**

Project Number: **675**

<i>From</i> (m)	<i>To</i> (m)	<i>Lithology</i>	<i>Sample #</i>	<i>From</i>	<i>To</i>	<i>Length</i>	<i>Au</i> (g/t)	<i>Pt</i> (g/t)	<i>Pd</i> (g/t)	<i>Ni</i> (%)	<i>Cu</i> (%)
21.55	24.85	IGN Intermediate Gneiss Sudbury Breccia : Up to 10% SDBX + partial melt at ~22.80-22.90m plus epidote alteration. Otherwise, the IGN is typical with minor SDBX microveinlets throughout.									
24.85	26.60	SDBX Sudbury Breccia Sudbury Breccia : Very hot, same as above breccias but mostly 3-4cm sized granitoid irregular fragments in the center and a larger IGN fragment at the contacts. Minor partial melt as well near contact.									
26.60	29.60	IGN Intermediate Gneiss Sudbury Breccia : Same as above, typical.									
29.60	32.25	SDBX Sudbury Breccia Sudbury Breccia : Clast dominated and up to 20% SDBX but is matrix dominated (Hot) from ~31-31.80m with partial melt ~5-7cm as well at ~31.6-31.7m.									

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Hole Number **WIS-200**

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<i>From</i> (m)	<i>To</i> (m)	<i>Lithology</i>	<i>Sample #</i>	<i>From</i>	<i>To</i>	<i>Length</i>	<i>Au</i> (g/t)	<i>Pt</i> (g/t)	<i>Pd</i> (g/t)	<i>Ni</i> (%)	<i>Cu</i> (%)
32.25	39.60	IGN Intermediate Gneiss Sudbury Breccia : Up to 5%, hot SDBX. More of a FGN or GRGN with K-spar and Quartz rich zones from 34-35.5m and more of a WGAB with very minor foliation from 38-39.6m.									
39.60	43.43	SDBX Sudbury Breccia Sudbury Breccia : 2B2 Large blocks, 10-30cm of IGN closer to upper contact. DIA from 41.6-43.10m that has been heavily brecciated and has Partial Melt veins cutting through and wrapping around fragments. Partial melt and matrix dominated from 43.1-43.43m The matrix is very hot, at least a 2, and very recrystallized.									
43.43	44.30	IGN Intermediate Gneiss Sudbury Breccia : Typical IGN of the area, nothing special. Just a large block in the breccia package.									
44.30	45.00	SDBX Sudbury Breccia Sudbury Breccia : 2B2 IGN clast dominated with 15-20% SDBX and Partial Melt cutting through the breccia zone.									

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<i>From</i> (m)	<i>To</i> (m)	<i>Lithology</i>	<i>Sample #</i>	<i>From</i>	<i>To</i>	<i>Length</i>	<i>Au</i> (g/t)	<i>Pt</i> (g/t)	<i>Pd</i> (g/t)	<i>Ni</i> (%)	<i>Cu</i> (%)
45.00	51.00	IGN Intermediate Gneiss Sudbury Breccia : Up to 10% Hot SDBX with patchy Epidote alteration throughout. Quartz-Chlorite +/- Hematite veins cutting through at ~45 dtca and along core access, respectively.									
51.00	54.10	SDBX Sudbury Breccia Sudbury Breccia : 2B2 ~20% bands and veins of SDBX matrix throughout, cutting the IGN host. The matrix is very hot and recrystallized with minor fragments and is greenish colored. There are also partial melts present.									
54.10	63.80	IGN Intermediate Gneiss Sudbury Breccia : Appears to alternate from Mg-Cg and Intermediate to Mafic bands with Partial Melt cutting through, especially between 57-59m. Up to 5% SDBX throughout.									
63.80	66.20	SDBX Sudbury Breccia Sudbury Breccia : 2BD2 Quartz-Epidote veins cutting sub-parallel to core through an IGN block from ~64.75-66.0m. Will Sample Zone. Matrix is Hot and probably a 2BD2.									

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<i>From</i> (m)	<i>To</i> (m)	<i>Lithology</i>	<i>Sample #</i>	<i>From</i>	<i>To</i>	<i>Length</i>	<i>Au</i> (g/t)	<i>Pt</i> (g/t)	<i>Pd</i> (g/t)	<i>Ni</i> (%)	<i>Cu</i> (%)
66.20	69.20	IGN Intermediate Gneiss It is more like a GRGN that is K-spar and Quartz rich from ~66.2 to 57.0m There is another Quartz-Epidote vein cutting sub-parallel from ~66.9 to 67.10m.									
69.20	70.00	SDBX Sudbury Breccia Same SDBX as above hosted in IGN with some Partial Melt.				2B2					
70.00	93.00	IGN Intermediate Gneiss There is a 1cm wide Quartz-Epidote vein with Chlorite as well as K-spar halo. The vein runs sub-parallel to axis from 70-70.7m and has K-spar blowouts. The remainder of the IGN has Partial Melt and Pegmatite as well as Quartz-Epidote and Chlorite-Actinolite veins with K-spar Halos. Very K-spar (or Partial Melt?) rich from 80.5 to 90.0m. Looks like WGAB from ~90-93m, with very little gneissocity.									
93.00	97.20	SDBX Sudbury Breccia Hot SDBX (2BD2) with WGAB, IGN, and GRGN fragments. Up to 20% matrix with Partial Melt bands throughout associated with more felsic clasts.				2BD2					

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<i>From</i> (m)	<i>To</i> (m)	<i>Lithology</i>	<i>Sample #</i>	<i>From</i>	<i>To</i>	<i>Length</i>	<i>Au</i> (g/t)	<i>Pt</i> (g/t)	<i>Pd</i> (g/t)	<i>Ni</i> (%)	<i>Cu</i> (%)
97.20	99.50	IGN <i>Intermediate Gneiss</i> Band of pervasive Epidote from 98.75m to 99.50m within a typical but partially brecciated IGN with up to 5% SDBX matrix.									
99.50	101.65	GRGN <i>granite gneiss</i> 1-2cm Quartz-Epidote-Kspar +/- Chlorite vein from 99.5 - 100m hosted in a Fg to Mg Quartz-Kspar rich intrusive with light gneissosity plus patchy Epidote throughout altering the grains.									
101.65	104.00	SDBX <i>Sudbury Breccia</i> Up to 30% hot SDBX matrix with fragments of GAB, IGN, GRGN, and DIA. The lower contact is 30cm of Fg-Mg DIA.									
104.00	105.42	GRGN <i>granite gneiss</i> Very Quartz and K-spar rich zone with Mg-Cg crystals, and grades to a more typical felsic to granitoid gneiss.									

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Hole Number **WIS-200**

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<i>From</i> (m)	<i>To</i> (m)	<i>Lithology</i>	<i>Sample #</i>	<i>From</i>	<i>To</i>	<i>Length</i>	<i>Au</i> (g/t)	<i>Pt</i> (g/t)	<i>Pd</i> (g/t)	<i>Ni</i> (%)	<i>Cu</i> (%)
105.42	105.84	SDBX Sudbury Breccia Very hot (2D2), sharp edged SDBX matrix with only small <1cm fragments of granitoid or FGN. The matrix is green tinted, recrystallized and has 1-2mm sized dark green clasts of regrowth (amphibole? And quartz-eyes).									
105.84	108.75	GRGN granite gneiss Same as above. Lower contact is fragmented and brecciated with thermomechanical erosion of the contact and alteration to K-spar and Epidote.									
108.75	110.50	SDBX Sudbury Breccia Same as SDBX above except the contacts aren't sharp. Upper is mechanically eroded and lower is moderately sharp.									
110.50	112.10	IGN Intermediate Gneiss Sudbury Breccia :									

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<i>From</i> (m)	<i>To</i> (m)	<i>Lithology</i>	<i>Sample #</i>	<i>From</i>	<i>To</i>	<i>Length</i>	<i>Au</i> (g/t)	<i>Pt</i> (g/t)	<i>Pd</i> (g/t)	<i>Ni</i> (%)	<i>Cu</i> (%)
		Typical but lower contact is fragmented, brecciated by minor amounts of matrix, mostly into the GRGN below. Only 5% matrix or so.									
112.10	115.75	GRGN <i>granite gneiss</i>									
		Very light salmon pinkish orange, massive with Mg grains that are mostly K-spar-Quartz-Epidote after plagioclase. Up to 5-7% SDBX around 113.70-114.40m.									
115.75	118.75	SDBX <i>Sudbury Breccia</i>									
		Sharp upper contact with apparent flow banding and finer grained. Otherwise, matrix is same as above, very hot matrix. There is Partial Melt from 116.5-117m. There appears to be patchy Epidote alteration throughout.									
118.75	121.22	IGN <i>Intermediate Gneiss</i>									
		Typical with minor <5% hot SDBX.									

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121.22	123.80	SDBX <i>Sudbury Breccia</i> Small Partial Melt zone from 121.83-122.03m. Large K-spar rich GRGN fragment from 122.52-123.4m with minor brecciation through it. Hot matrix dominated up to 80% 2D2 from 121.22-122.52m.									
123.80	131.90	IGN <i>Intermediate Gneiss</i> Mg-Cg IGN with some zones of near megacrystic sized feldspar bands from 126-127m. Patchy Epidote throughout. Up to 5-7% SDBX bands and veins. Partial Melt veins from ~130-131.9m.									
131.90	133.05	GRGN <i>granite gneiss</i> Fg-Mg greenish grey intrusive with minor gneissosity and Partial Melt throughout as well. Carbonate-Chlorite and Carbonate-Hematite veinlets cutting through as well as some Quartz-Carbonate.									
133.05	136.83	GRGN <i>granite gneiss</i> Hematite veinlets throughout as well as Carbonate-Hematite. Same kind of intrusive as above but slightly more gneissic.									

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<i>From</i> (m)	<i>To</i> (m)	<i>Lithology</i>	<i>Sample #</i>	<i>From</i>	<i>To</i>	<i>Length</i>	<i>Au</i> (g/t)	<i>Pt</i> (g/t)	<i>Pd</i> (g/t)	<i>Ni</i> (%)	<i>Cu</i> (%)
136.83	140.45	SDBX Sudbury Breccia Hot, recrystallized breccia along contact of intrusive gneiss and lower MDIA. Up to 20% SDBX throughout with Partial Melt at upper contact and K-spar + Hematite at lower contact.									
140.45	143.22	MDIA Matachewan Diabase Fg, dark grey diabase with 2-5mm glomeroporphyroblasts of plagioclase throughout.									
143.22	154.30	SDBX Sudbury Breccia IGN and DIA at upper contact with Partial Melt. The matrix dominated portions are very hot and recrystallized. Mostly DIA fragments from 143.22 to 146m and changes to mostly GRGN afterwards to ~152m and then IGN and DIA to 154.30m. There are several Partial Melt bands throughout especially between 149-151m.									
154.30	157.08	DIA Diabase Fg, dark grey diabase with no plagioclase porphyroblasts. Up to 5% SDBX cutting through.									

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157.08	160.78	SDBX Sudbury Breccia Up to 30% SDBX in IGN host with several Partial Melt veins cutting from 157.08 to 160m. Very hot, 2BD2, recrystallized matrix. Minor carbonate microveinlets cutting.	Sudbury Breccia :	2BD2							
160.78	166.00	IGN Intermediate Gneiss Typical but with some K-spar and Epidote rich zones from 161.90 to 162.20m and 163.7 to 164m.	Sudbury Breccia :								
166.00	169.75	SDBX Sudbury Breccia Hosted in greenish, altered intrusive with up to 90% hot, recrystallized matrix, 2BD2 from ~166.3 to 169.75m. A larger, partially melted IGN fragments around 169.2m. The lower contact is fairly sharp and slightly chloritized.	Sudbury Breccia :	2BD2							
169.75	171.95	GRGN granite gneiss Typical, light pinkish cream colored GRGN fragment with sharp contacts.	Sudbury Breccia :								

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171.95	177.37	SDBX Sudbury Breccia Upper contact is Partially Melted and Pegmatitic Quartz-Kspar to 172.4m. Several large 10-30cm clasts of GAB, IGN, FGN, and GRGN from 173 to 176m. Fragments are rounded with dark rims around them. The remainder is matrix dominated, hot, recrystallized SDBX with up to 60-65% matrix overall throughout the unit.	Sudbury Breccia :			2BD2					
177.37	178.37	GRGN granite gneiss Larger, Fg-Mg GRGN fragment with Partial Melt K-spar-Quartz rich zones near each contact.	Sudbury Breccia :								
178.37	183.47	SDBX Sudbury Breccia Hot (2BD2-3), recrystallized breccia with a few larger 30-50cm IGN clasts in the center with up to 55-60% matrix overall. Contacts to clasts and lower contact are quite sharp but upper is more broken apart.	Sudbury Breccia :			2BD3					
183.47	185.07	GRGN granite gneiss GRGN to FGN with up to 5-7% SDBX matrix cutting in fine veinlets.	Sudbury Breccia :								

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<i>From</i> (m)	<i>To</i> (m)	<i>Lithology</i>	<i>Sample #</i>	<i>From</i>	<i>To</i>	<i>Length</i>	<i>Au</i> (g/t)	<i>Pt</i> (g/t)	<i>Pd</i> (g/t)	<i>Ni</i> (%)	<i>Cu</i> (%)
185.07	193.50	SDBX Sudbury Breccia Hot, recrystallized SDBX with up to 40% matrix and with larger fragments of DIA, FGN, and IGN throughout up to 50cm in size. There are sympathetic tension gash carbonate +/- chlorite filled veinlets associated with the FLT below from 191.5 to 193.5m at 70-80 dtca.	Sudbury Breccia :			2BD3					
193.50	193.80	FLT Fault Small Fault zone with a 70-80 dtca orientation sealed by Quartz-Carbonate + Pyrite-Hematite veins.	Sudbury Breccia :								
193.80	195.25	DIA Diabase Nipissing Diabase dyke with up to 10-15% SDBX. Large fragment abutting up to Fault with SDBX up to 195m. Fg, greenish grey with 1-3mm carbonate veins cutting at high angles to the core axis.	Sudbury Breccia :								
195.25	195.75	SDBX Sudbury Breccia Small zone of hot, recrystallized matrix that is greenish colored. There are quite a few, <0.5cm clasts comprising up to 30% of the matrix.	Sudbury Breccia :			2D2					

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Project: **WISNER_EAST NRJV**

Project Number: **675**

<i>From</i> <i>(m)</i>	<i>To</i> <i>(m)</i>	<i>Lithology</i>	<i>Sample #</i>	<i>From</i>	<i>To</i>	<i>Length</i>	<i>Au</i> <i>(g/t)</i>	<i>Pt</i> <i>(g/t)</i>	<i>Pd</i> <i>(g/t)</i>	<i>Ni</i> <i>(%)</i>	<i>Cu</i> <i>(%)</i>
195.75	214.05	IGN Intermediate Gneiss Typical IGN to FGN with some Partial Melt at ~198.80m and between 212-214m. Quartz-Chlorite + K-spar vein at 204.15m ~5-7cm in size with some SDBX.									
214.05	0.00	EOH End of Hole									

DRILL HOLE REPORT

Hole Number **WIS-201**

Project: **WISNER_EAST NRJV**

Project Number: **675**

Drilling	Casing	Core	Location	Other
Azimuth: 355	Length: 0	Dimension: NQ	Township: WISNER	Logged by: Shannon Baird
Dip: -45	Pulled: no	Storage: Core Shed	Claim No.: 1230728	Relog by:
Length: 401.06	Capped: yes	Section:	NTS:	Contractor:
Started: 12-Mar-15	Cemented:	Hole Type DD	Hole: SURFACE	Spotted by:
Completed: 21-Oct-15				Surveyed:
Logged: 13-Mar-15				Surveyed by:
Comment:				Geophysics:
		Coordinate - Gemcom	Coordinate - UTM	Geophysic Contractor:
		East: 501080	East: 501080	Left in hole:
		North: 5178538	North: 5178538	Making water:
		Elev.: 385	Elev.: 380	Multi shot survey:
			Zone: 17 NAD: 27	

Deviation Tests

<i>Distance</i>	<i>Azimuth</i>	<i>Dip</i>	<i>Type</i>	<i>Good</i>	<i>Comments</i>
0.00	355.00	-45.00	C	<input checked="" type="checkbox"/>	
14.00	354.30	-45.90	F	<input checked="" type="checkbox"/>	MAG=5639
65.00	353.40	-45.60	F	<input checked="" type="checkbox"/>	MAG=5510
116.00	354.30	-44.70	F	<input checked="" type="checkbox"/>	MAG=5562
167.00	356.50	-44.20	F	<input checked="" type="checkbox"/>	MAG=5542
218.00	359.80	-43.30	F	<input checked="" type="checkbox"/>	MAG=5536
269.00	359.30	-43.00	F	<input checked="" type="checkbox"/>	MAG=5515
320.00	0.20	-43.00	F	<input checked="" type="checkbox"/>	MAG=5552
371.00	0.30	-42.50	F	<input checked="" type="checkbox"/>	MAG=5530

LITHOLOGY REPORT
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Hole Number **WIS-201**

Project: **WISNER_EAST NRJV**

Project Number: **675**

<i>From</i> (m)	<i>To</i> (m)	<i>Lithology</i>		<i>Sample #</i>	<i>From</i>	<i>To</i>	<i>Length</i>	<i>Au</i> (g/t)	<i>Pt</i> (g/t)	<i>Pd</i> (g/t)	<i>Ni</i> (%)	<i>Cu</i> (%)
0.00	2.00	CAS	Casing									
				Sudbury Breccia :								
2.00	4.00	FGN	Felsic Gneiss									
			Fg-Mg, pinkish colored and Quartz-Kspar rich.	Sudbury Breccia :								
4.00	9.60	SDBX	Sudbury Breccia									
			Very Hot, 2BD2, up to 25% SDBX matrix, that is greenish tinged and recrystallized. FGN + PM from 4-7m, IGN+PM from 7-9m. 9-9.6m is GRGN to PEG (Kspar+Quartz)	Sudbury Breccia :	2BD2							
9.60	11.80	PEG	Pegmatite									
			K-spar and Quartz rich, dark orangy-red colored with up to 5-10%, hot SDBX matrix	Sudbury Breccia :	2D2							
11.80	14.15	IGN	Intermediate Gneiss									
				Sudbury Breccia :								

LITHOLOGY REPORT
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Hole Number **WIS-201**

Project: **WISNER_EAST NRJV**

Project Number: **675**

<i>From</i> (m)	<i>To</i> (m)	<i>Lithology</i>	<i>Sample #</i>	<i>From</i>	<i>To</i>	<i>Length</i>	<i>Au</i> (g/t)	<i>Pt</i> (g/t)	<i>Pd</i> (g/t)	<i>Ni</i> (%)	<i>Cu</i> (%)
		Light pinkish altered feldspar and quartz in a PM IGN									
14.15	17.75	GRGN <i>granite gneiss</i> Dark reddish orange, mostly all felsics (Quartz-Kspar) and near massive or fine grained with up to 10-15% hot, recrystallized, SDBX matrix throughout.	Sudbury Breccia :			2BD2					
17.75	21.80	SDBX <i>Sudbury Breccia</i> 80%+, hot recrystallized, greenish tinged matrix with Kspar alteration throughout (2BD2). A lot of Partial Melt from ~20-21.80m hosted in IGN to FGN.	Sudbury Breccia :			2BD2					
21.80	25.25	FGN <i>Felsic Gneiss</i> Same as GRGN-PEG from 14.15-17.75m above. Near massive, felsic dominated, K-spar + Quartz rich orangish-pink unit.	Sudbury Breccia :								

LITHOLOGY REPORT
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Hole Number **WIS-201**

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Project Number: **675**

<i>From</i> (m)	<i>To</i> (m)	<i>Lithology</i>	<i>Sample #</i>	<i>From</i>	<i>To</i>	<i>Length</i>	<i>Au</i> (g/t)	<i>Pt</i> (g/t)	<i>Pd</i> (g/t)	<i>Ni</i> (%)	<i>Cu</i> (%)
25.25	32.85	SDBX Sudbury Breccia 70-75%, hot recrystallized SDBX matrix hosted in GRGN from 25.25 to 26.65m and matrix from 26.65-31.75m and IGN host from 31.75-32.85m. No sulfides. Some Partial Melt from 31.30-31.50m.	Sudbury Breccia :			2BD2					
32.85	34.55	IGN Intermediate Gneiss Typical IGN with up to 10% SDBX and some Pegmatitic quartz-Feldspar+/-Kspar rich from 33.80-34.30m.	Sudbury Breccia :								
34.55	39.25	SDBX Sudbury Breccia Same as the SDBX unit above but with 65-70% matrix instead.	Sudbury Breccia :			2BD2					
39.25	41.30	UMAF Ultramafic Mg, dark black, mafic to ultramafic with possible IGN band in it or PM as well. Could possibly be a very dark phase of the Wisner Gabbro?	Sudbury Breccia :								

LITHOLOGY REPORT
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Hole Number **WIS-201**

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<i>From</i> (m)	<i>To</i> (m)	<i>Lithology</i>	<i>Sample #</i>	<i>From</i>	<i>To</i>	<i>Length</i>	<i>Au</i> (g/t)	<i>Pt</i> (g/t)	<i>Pd</i> (g/t)	<i>Ni</i> (%)	<i>Cu</i> (%)
41.30	42.20	SDBX <i>Sudbury Breccia</i> Up to 95% matrix dominated, 2D2 that is greenish tinged and recrystallized, similar to the rest.				2D2					
42.20	43.75	PEG <i>Pegmatite</i> Pegmatitic Quartz-Kspar, massive and megacrystic with minor SDBX up to 5%.									
43.75	48.45	SDBX <i>Sudbury Breccia</i> 90%, hot, recrystallized, greenish tinged matrix with FGN and GRGN fragments (2D2)				2D2					
48.45	49.60	IGN <i>Intermediate Gneiss</i> Up to 10% SDBX matrix, hot bands cutting somewhat felsic IGN with minor gneissosity.									
49.60	51.05	SDBX <i>Sudbury Breccia</i> Hot, recrystallized, SDBX matrix cutting along contact between IGN and DIA with partial melt in center				2AB3					

LITHOLOGY REPORT
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Hole Number **WIS-201**

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Project Number: **675**

<i>From</i> (m)	<i>To</i> (m)	<i>Lithology</i>	<i>Sample #</i>	<i>From</i>	<i>To</i>	<i>Length</i>	<i>Au</i> (g/t)	<i>Pt</i> (g/t)	<i>Pd</i> (g/t)	<i>Ni</i> (%)	<i>Cu</i> (%)
		and lower contact.									
51.05	51.50	DIA <i>Diabase</i> Sudbury Breccia : Small diabase with 1mm plagioclase porphyroblasts. Fg, greenish colored.									
51.50	52.20	SDBX <i>Sudbury Breccia</i> Sudbury Breccia : IGN host with up to 40% matrix and some partial melt at lower contact.	2AB3								
52.20	55.75	IGN <i>Intermediate Gneiss</i> Sudbury Breccia : Typical IGN with up to 3-5% hot, SDBX matrix.									
55.75	56.60	DIA <i>Diabase</i> Sudbury Breccia : DIA cutting through IGN in 2 smaller bands with a k-spar altered GRGN and PEG. Small, <1mm plagioclase porphyroblasts throughout. Fg, dark grey.									

LITHOLOGY REPORT
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Project Number: **675**

<i>From</i> (m)	<i>To</i> (m)	<i>Lithology</i>	<i>Sample #</i>	<i>From</i>	<i>To</i>	<i>Length</i>	<i>Au</i> (g/t)	<i>Pt</i> (g/t)	<i>Pd</i> (g/t)	<i>Ni</i> (%)	<i>Cu</i> (%)
56.60	58.20	FGN Felsic Gneiss Mg-Cg with patchy quartz-kspars throughout beige to pink colored									
58.20	59.40	SDBX Sudbury Breccia Some partial melt at 58.30-58.40m cutting through FGN with patchy quartz-kspars as well as veinlets of Chlorite-Actinolite.									
59.40	62.35	FGN Felsic Gneiss Same as above									
62.35	63.50	SDBX Sudbury Breccia Up to 15-20% SDBX matrix with some partial melt hosted in a dark gabbro or IGN-MGN. Fg-Mg, dark grey and beige.									

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<i>From</i> (m)	<i>To</i> (m)	<i>Lithology</i>	<i>Sample #</i>	<i>From</i>	<i>To</i>	<i>Length</i>	<i>Au</i> (g/t)	<i>Pt</i> (g/t)	<i>Pd</i> (g/t)	<i>Ni</i> (%)	<i>Cu</i> (%)
63.50	64.80	GRGN <i>granite gneiss</i> Light cream to pink with patchy quartz-kspar throughout. Mg-Cg.									
64.80	67.38	SDBX <i>Sudbury Breccia</i> 95% hot greenish grey, recrystallized matrix with partial melt and FGN to GRGN fragments up to 0.5cm in size.									
67.38	69.15	FGN <i>Felsic Gneiss</i> GRGN to FGN, Fg-Mg with Quartz-kspar patchy alteration									
69.15	70.60	SDBX <i>Sudbury Breccia</i> Up to 90% hot matrix, (2D2) with FGN to GRGN fragments up to 2cm and some partial melt throughout.									

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<i>From</i> (m)	<i>To</i> (m)	<i>Lithology</i>	<i>Sample #</i>	<i>From</i>	<i>To</i>	<i>Length</i>	<i>Au</i> (g/t)	<i>Pt</i> (g/t)	<i>Pd</i> (g/t)	<i>Ni</i> (%)	<i>Cu</i> (%)
70.60	77.80	FGN Felsic Gneiss Sudbury Breccia : Patchy K-spar alteration throughout with patchy quartz as well. Minor SDBX (<5%).									
77.80	79.00	IGN Intermediate Gneiss Sudbury Breccia : Very dark 80% mafics with K-spar rich partial melt as well as a thin veinlet of Chl-Act cutting sub-parallel to the core from ~78.50-79.0m.									
79.00	81.00	PEG Pegmatite Sudbury Breccia : Quartz-Kspar altered pegmatite or GRGN with carbonate veinlets cutting through.									
81.00	81.55	SDBX Sudbury Breccia Sudbury Breccia : 2D2 Zone of 90% green, hot (2D2) recrystallized SDBX matrix with FGN to GRGN fragments up to 2-3cm. Some chlorite microveinlets cutting sub-parallel to core.									

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<i>From</i> (m)	<i>To</i> (m)	<i>Lithology</i>	<i>Sample #</i>	<i>From</i>	<i>To</i>	<i>Length</i>	<i>Au</i> (g/t)	<i>Pt</i> (g/t)	<i>Pd</i> (g/t)	<i>Ni</i> (%)	<i>Cu</i> (%)
81.55	89.70	GRGN <i>granite gneiss</i> Sudbury Breccia : 3-5% SDBX (Hot). Mg, dark reddish orange with Quartz (bull) rich bands. Massive quartz-kspars, salmon pink from 89.20-89.70m.									
89.70	91.20	UMAF <i>Ultramafic</i> Sudbury Breccia : Mg-Cg, dark bluish grey to black ultramafic unit with minor partial melt. Minor pyrite. Mag≈-1-3 milli SI, not sure why the mag is so low?									
91.20	91.95	GRGN <i>granite gneiss</i> Sudbury Breccia : Massive quartz, K-spar zone within the ultramafic unit, potentially a block within.									
91.95	97.23	UMAF <i>Ultramafic</i> Sudbury Breccia : Same as above but grades to Fg, massive black to dark grey and highly magnetic from ~15-200 milli SI. Lower contact has partial melt at contact.									

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97.23	117.45	FGN Felsic Gneiss Typical with minor 2-3% SDBX.									
117.45	118.05	SDBX Sudbury Breccia Minor, hot green recrystallized matrix (2D2) with partial melt at lower contact.				2D2					
118.05	122.00	FGN Felsic Gneiss Same as above, typical.									
122.00	122.70	SDBX Sudbury Breccia Small SDBX band cutting at IGN-FGN contact. Typical hot matrix as above.				2D2					

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122.70	134.50	IGN Intermediate Gneiss Typical with felsic quartz-Kspar rich massive bands from 129.50-131.00m.									
134.50	135.10	SDBX Sudbury Breccia Small, nearly sub-parallel bands of SDBX. Up to 15-20% matrix of hot, recrystallized SDBX.				2B3					
135.10	137.75	IGN Intermediate Gneiss Same as above with the felsic bands from 136-136.5m. Minor, <5% SDBX at lower contact.									
137.75	142.50	FGN Felsic Gneiss Mostly massive quartz-Kspar rich from 137.75-138.50m but typical otherwise. Closer to an IGN and potassic rich from 140-141m.									

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<i>From</i> (m)	<i>To</i> (m)	<i>Lithology</i>	<i>Sample #</i>	<i>From</i>	<i>To</i>	<i>Length</i>	<i>Au</i> (g/t)	<i>Pt</i> (g/t)	<i>Pd</i> (g/t)	<i>Ni</i> (%)	<i>Cu</i> (%)
142.50	143.60	SDBX Sudbury Breccia Brecciated and partial melt at contact between FGN and IGN. Up to 20% SDBX matrix.									
143.60	144.40	IGN Intermediate Gneiss Typical IGN of the area.									
144.40	145.10	SDBX Sudbury Breccia Matrix at contact between IGN-FGN. 2BD2. Hot, recrystallized as usual.				2BD2					
145.10	146.13	FGN Felsic Gneiss Deep reddish orange FGN that is Kspar rich.									

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146.13	146.60	SDBX <i>Sudbury Breccia</i> Hot, recrystallized, matrix cutting at contact between the MDIA and the FGN above.				2BD2					
146.60	148.45	MDIA <i>Matachewan Diabase</i> Fg, grey Matachewan diabase with 0.1-2.0cm sized plagioclase glomeroporphyroblasts comprising up to 15% of the dyke.									
148.45	149.10	SDBX <i>Sudbury Breccia</i> Same as the rest (2BD2) with 0.1-1.0cm GRGN-FGN-MDIA fragments throughout.				2BD2					
149.10	157.40	GRGN <i>granite gneiss</i> Potassically altered and rich gneiss with up to 5% SDBX matrix brecciated lower contact.									

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157.40	159.80	SDBX Sudbury Breccia Same as usual. Hot, 2BD2 matrix with a large IGN block from ~158.3-158.6m and hematite stained carbonate infilled veins at lower contact up to 2cm in width.									
159.80	161.83	IGN Intermediate Gneiss Cg, feldspar rich gneiss from 159.8-161.0m and a Fg-Mg IGN with only minor gneissosity with chlorite-sericite overprinting.									
161.83	163.40	SDBX Sudbury Breccia Green tinged SDBX matrix, hot recrystallized with mostly only small 1-3mm sized clasts throughout of IGN-FGN. (2) 3-4mm wide, sub-parallel Qtz-Alb veins cutting from ~162.4-162.5m at ~25 dtca.									
163.40	165.45	IGN Intermediate Gneiss Typical of the area									

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165.45	166.00	SDBX Sudbury Breccia Up to 15% SDBX veins cutting mostly sub-parallel to core axis. Still hot but maybe only a 2-3 despite the thinness of the bands, 3-4cm wide.									
						Sudbury Breccia : 2B3					
166.00	167.35	IGN Intermediate Gneiss Up to 5-10% SDBX matrix but otherwise typical. Some alteration with Kspar and Carb-Chl veins from 166.0-166.7m.									
						Sudbury Breccia :					
167.35	170.25	SDBX Sudbury Breccia Typical SDBX matrix, hot, recrystallized. Up to 70% matrix. Hosted in IGN for the most part but lower contact is a Fg, dark grey to black DIA from ~170-170.25m.									
						Sudbury Breccia : 2B3					
170.25	171.60	FGN Felsic Gneiss Very gneissic, light orangy pink in color with quartz veins, 1-3mm and also patchy Epidote throughout altering the rims of the mafics and the rest is quartz-Kspar.									
						Sudbury Breccia :					

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171.60	176.94	SDBX Sudbury Breccia 25% hot matrix from 171.6-173.4m and matrix dominated with larger clasts for remainder. Quartz, Kspar and partial melt bands from 174.5-175.1m and 176.7-176.8m.	Sudbury Breccia :			2BD2					
176.94	179.45	IGN Intermediate Gneiss Up to 10% SDBX in typical black and white Mg IGN. Brecciated from 177.90-178.60m and hematite altered with carbonate as well.	Sudbury Breccia :								
179.45	179.65	SDBX Sudbury Breccia Small, hot band of SDBX cutting through IGN with Chlorite alteration around clasts and at contacts or quenching.	Sudbury Breccia :			2B2					
179.65	180.10	IGN Intermediate Gneiss Mg-Cg IGN with minor K-spar alteration	Sudbury Breccia :								

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180.10	181.40	GRGN <i>granite gneiss</i> Pegmatitic to partial melt looking but with some gneissosity but mostly massive K-spar and quartz.									
181.40	183.60	SDBX <i>Sudbury Breccia</i> Typical, very hot breccia of the area but with some intense hematite and carbonate alteration from 182.48-183.18m.									
183.60	185.30	IGN <i>Intermediate Gneiss</i> Intermediate intrusive with very minor gneissosity. Maybe a GRDR or GAB?									
185.30	186.06	SDBX <i>Sudbury Breccia</i> Typical and with Hematite alteration									

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<i>From</i> (m)	<i>To</i> (m)	<i>Lithology</i>	<i>Sample #</i>	<i>From</i>	<i>To</i>	<i>Length</i>	<i>Au</i> (g/t)	<i>Pt</i> (g/t)	<i>Pd</i> (g/t)	<i>Ni</i> (%)	<i>Cu</i> (%)
186.06	188.06	IGN Intermediate Gneiss Cg, K-spar and Epidote (patchy) altered. Very quartz-plagioclase rich with albite alteration.									
188.06	190.40	SDBX Sudbury Breccia Hot, same as rest, has epidote alteration and chlorite-carbonate veinlets. Partial melt and Kspar altered IGN-GRGN from 188.50-189.70m.									
190.40	191.30	FGN Felsic Gneiss K-spar dominant gneiss, nothing special									
191.30	194.56	SDBX Sudbury Breccia Hot as usual, 2BD2 with partial melt surrounding a larger clast at ~192.10-192.20m, quartz-Kspar+Chlorite. Some larger FGN clasts as well up to 20-30cm.									

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Project: **WISNER_EAST NRJV**

Project Number: **675**

<i>From</i> (m)	<i>To</i> (m)	<i>Lithology</i>	<i>Sample #</i>	<i>From</i>	<i>To</i>	<i>Length</i>	<i>Au</i> (g/t)	<i>Pt</i> (g/t)	<i>Pd</i> (g/t)	<i>Ni</i> (%)	<i>Cu</i> (%)
199.65	203.65	MDIA <i>Matachewan Diabase</i> Same as above									
203.65	207.55	SDBX <i>Sudbury Breccia</i> Hot with IGN, FGN and DIA clasts throughout up to 20-30cm but most <1-2cm. Small carbonate-chlorite and actinolite veinlets. Some partial melts surrounding clasts of DIA.									
207.55	208.65	IGN <i>Intermediate Gneiss</i> Large clast of IGN with up to 5% SDBX with partial melt as well at lower contact.									
208.65	210.00	SDBX <i>Sudbury Breccia</i> DIA near upper contact ~10cm wide and a FGN up to 10cm wide same as rest, very hot.									
210.00	213.30	FGN <i>Felsic Gneiss</i>									

LITHOLOGY REPORT
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Hole Number **WIS-201**

Project: **WISNER_EAST NRJV**

Project Number: **675**

<i>From</i> (m)	<i>To</i> (m)	<i>Lithology</i>	<i>Sample #</i>	<i>From</i>	<i>To</i>	<i>Length</i>	<i>Au</i> (g/t)	<i>Pt</i> (g/t)	<i>Pd</i> (g/t)	<i>Ni</i> (%)	<i>Cu</i> (%)
		Small hematite altered quartz-carbonate vein cutting ~45 dtca and ~2cm true width. K-spar and quartz rich with hematite.									
213.30	213.80	SDBX <i>Sudbury Breccia</i> Very altered and fabric rich with partial melt at contacts and chlorite alteration.				2B2					
213.80	215.20	IGN <i>Intermediate Gneiss</i> Typical Mg-Cg									
215.20	218.68	SDBX <i>Sudbury Breccia</i> K-spar and partial melt rich at upper contact very hot and matrix dominated 95% from 215.20-217.70m and a large clast IGN to 218.25m and matrix again to UMAF block.									
218.68	219.40	UMAF <i>Ultramafic</i>									

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Hole Number **WIS-201**

Project: **WISNER_EAST NRJV**

Project Number: **675**

<i>From</i> (m)	<i>To</i> (m)	<i>Lithology</i>	<i>Sample #</i>	<i>From</i>	<i>To</i>	<i>Length</i>	<i>Au</i> (g/t)	<i>Pt</i> (g/t)	<i>Pd</i> (g/t)	<i>Ni</i> (%)	<i>Cu</i> (%)
		Large clast of UMAF. Dark black to greyish blue in color and very magnetic.									
219.40	220.60	SDBX <i>Sudbury Breccia</i> Same as above, hot with recrystallization and quenching around larger clasts. Fine later microfractures of chlorite-carbonate throughout. Several 2-5cm and a 10cm clast of GRGN.									
220.60	222.30	GRGN <i>granite gneiss</i> Light pinkish cream colored Mg GRGN with up to 5% SDBX.									
222.30	222.60	SDBX <i>Sudbury Breccia</i> Hot brecciated zone cutting through GRGN with minor hematite alteration									
222.60	223.10	GRGN <i>granite gneiss</i> Same as above									

LITHOLOGY REPORT
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Hole Number **WIS-201**

Project: **WISNER_EAST NRJV**

Project Number: **675**

<i>From</i> (m)	<i>To</i> (m)	<i>Lithology</i>	<i>Sample #</i>	<i>From</i>	<i>To</i>	<i>Length</i>	<i>Au</i> (g/t)	<i>Pt</i> (g/t)	<i>Pd</i> (g/t)	<i>Ni</i> (%)	<i>Cu</i> (%)
223.10	230.00	SDBX Sudbury Breccia									
		<p>Sudbury Breccia : 2AC2</p> <p>Mostly larger QMON + GRGN clasts from 1-10cm in size but also some mafic clasts of WGAB to Diorite? Up to 1-5cm in size. Very hot and recrystallized. Green tinted matrix. Larger GRGN to QMON clasts up to 40cm in size from 225-229m. Chlorite-Epidote veins cutting from 225-226.2m with some minor Chalcopyrite in the center of a Chlorite vein from 225.9-226.1m.</p>									
230.00	242.48	MCQMON Megacrystic Quartz Monzonite									
		<p>Sudbury Breccia :</p> <p>Kspar rich, deep reddish pink colored with minor Chlorite-Epidote veinlets throughout. There is a Quartz-Epidote, <1cm vein from 232.5-233.0m.</p>									
242.48	248.15	SDBX Sudbury Breccia									
		<p>Sudbury Breccia : 2AB2</p> <p>Very hot (2AB2-3), recrystallized green colored SDBX matrix. Large DIA, Fg, black clast from 243.42m to 244.02m and an IGN clast from 244.02m to 244.42m. The lower contact is gradual brecciating through the IGN for ~1.5m. The upper contact to the QMON is sharp.</p>									

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Hole Number **WIS-201**

Project: **WISNER_EAST NRJV**

Project Number: **675**

<i>From</i> (m)	<i>To</i> (m)	<i>Lithology</i>	<i>Sample #</i>	<i>From</i>	<i>To</i>	<i>Length</i>	<i>Au</i> (g/t)	<i>Pt</i> (g/t)	<i>Pd</i> (g/t)	<i>Ni</i> (%)	<i>Cu</i> (%)
248.15	253.05	IGN Intermediate Gneiss Up to 5-7% SDBX matrix as well as minor pegmatitic. All the plagioclase is yellowed to green tinged and some minor pinkish (Albite/Epidote and K-spar alteration).									
253.05	253.55	SDBX Sudbury Breccia Hot, same as usual with 2B2				2B2					
253.55	254.55	DIA Diabase MDIA large clast in SDBX. Plagioclase glomeroporphyroblasts up to 0.5cm in size.									
254.55	258.93	SDBX Sudbury Breccia Same as usual 2BD2 with some trace disseminated Pyrite+/-Chalcopyrite throughout along with some Chlorite-Carbonate veinlets and Pyrite-Hematite veinlets throughout. Disseminated Pyrite-Chalcopyrite is also associated with chloritic halos in some cases.				2BD2					

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Hole Number **WIS-201**

Project: **WISNER_EAST NRJV**

Project Number: **675**

<i>From</i> (m)	<i>To</i> (m)	<i>Lithology</i>	<i>Sample #</i>	<i>From</i>	<i>To</i>	<i>Length</i>	<i>Au</i> (g/t)	<i>Pt</i> (g/t)	<i>Pd</i> (g/t)	<i>Ni</i> (%)	<i>Cu</i> (%)
258.93	261.07	DIA Diabase Up to 5% SDBX matrix bands and partial melt cutting through. Vfg, dark grey to black DIA with carbonate veins crosscutting throughout.									
261.07	271.60	IGN Intermediate Gneiss Typical but more potassic rich than usual and felsic									
271.60	275.40	FGN Felsic Gneiss Typical, very Quartz-Kspar rich, salmon pinkish orange and very felsic rich									
275.40	279.70	IGN Intermediate Gneiss Same as above but not potassic rich									
279.70	292.00	MDIA Matachewan Diabase									

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Hole Number **WIS-201**

Project: **WISNER_EAST NRJV**

Project Number: **675**

<i>From</i> (m)	<i>To</i> (m)	<i>Lithology</i>	<i>Sample #</i>	<i>From</i>	<i>To</i>	<i>Length</i>	<i>Au</i> (g/t)	<i>Pt</i> (g/t)	<i>Pd</i> (g/t)	<i>Ni</i> (%)	<i>Cu</i> (%)
		Up to 10-15% SDBX, hot matrix from 279.70m to 282.30m and minor breccia from there on. Chlorite-Carbonate veining from 282.30m to 282.80m. Up to 20% plagioclase (0.1-1.0cm) glomeroporphyroblasts throughout.									
292.00	297.90	IGN <i>Intermediate Gneiss</i> Mg-Cg and Kspar rich with minor SDBX (<5%).									
297.90	306.20	MDIA <i>Matatchewan Diabase</i> Minor SDBX, especially near upper and lower contact, <5%. Fg-Mg with plagioclase needles throughout as well as 5% plagioclase glomeroporphyroblasts up to 1cm in size. Some Carbonate-Chlorite veins crosscutting throughout.									
306.20	314.00	FGN <i>Felsic Gneiss</i> Mg, light pinkish orange and typical of the area.									

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Hole Number **WIS-201**

Project: **WISNER_EAST NRJV**

Project Number: **675**

<i>From</i> (m)	<i>To</i> (m)	<i>Lithology</i>	<i>Sample #</i>	<i>From</i>	<i>To</i>	<i>Length</i>	<i>Au</i> (g/t)	<i>Pt</i> (g/t)	<i>Pd</i> (g/t)	<i>Ni</i> (%)	<i>Cu</i> (%)
314.00	319.00	SDBX Sudbury Breccia 15% SDBX cutting through contact area of FGN to MCQMON. Minor Hematite alterations and a bit colder (3-4).				Sudbury Breccia : 2D4					
319.00	401.06	MCQMON Megacrystic Quartz Monzonite Very minor foliation with Cg plagioclase throughout. Pegmatitic bands crosscutting throughout. Minor SDBX (<5%) with Hematite overprinting and Carbonate veining +/- Pyrite throughout.				Sudbury Breccia :					
401.06	0.00	EOH End of Hole				Sudbury Breccia :					

DRILL HOLE REPORT

 Hole Number **WIS-202**

 Project: **BROKEN_HAMMER_NRJV**

 Project Number: **263**

Drilling	Casing	Core	Location	Other
Azimuth: 360	Length: 0	Dimension: NQ	Township: WISNER	Logged by: Shannon Baird
Dip: -54	Pulled: no	Storage: Core Shed	Claim No.: L108106	Relog by:
Length: 300	Capped: yes	Section:	NTS:	Contractor: Jacob & Samuel Drilling Ltd.
Started: 22-Mar-15	Cemented:	Hole Type DD	Hole: SURFACE	Spotted by: Shannon Baird
Completed: 28-Mar-15				Surveyed:
Logged: 24-Mar-15				Surveyed by:
Comment: On L108106 for first 263m but then crosses over to L108508 claims.				Geophysics:
		Coordinate - Gemcom	Coordinate - UTM	Geophysic Contractor:
		East: 497484	East: 497484	Left in hole:
		North: 5178699	North: 5178699	Making water:
		Elev.: 396	Elev.: 396	Multi shot survey:
			Zone: 17 NAD: 27	

Deviation Tests

<i>Distance</i>	<i>Azimuth</i>	<i>Dip</i>	<i>Type</i>	<i>Good</i>	<i>Comments</i>
0.00	360.00	-54.00	C	<input checked="" type="checkbox"/>	
15.00	356.90	-53.60	F	<input checked="" type="checkbox"/>	MAG=5453
65.00	350.70	-53.90	F	<input type="checkbox"/>	MAG=5211 - BAD
117.00	358.10	-53.80	F	<input checked="" type="checkbox"/>	MAG=5525
168.00	356.10	-53.50	F	<input checked="" type="checkbox"/>	MAG=5399
219.00	3.90	-53.60	F	<input checked="" type="checkbox"/>	MAG=5289
270.00	3.90	-53.40	F	<input checked="" type="checkbox"/>	MAG=5486
300.00	2.60	-53.40	F	<input checked="" type="checkbox"/>	MAG=5456

LITHOLOGY REPORT
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Hole Number **WIS-202**

Project: **BROKEN_HAMMER_NRJV**

Project Number: **263**

<i>From</i> (m)	<i>To</i> (m)	<i>Lithology</i>	<i>Sample #</i>	<i>From</i>	<i>To</i>	<i>Length</i>	<i>Au</i> (g/t)	<i>Pt</i> (g/t)	<i>Pd</i> (g/t)	<i>Ni</i> (%)	<i>Cu</i> (%)
0.00	2.80	CAS Casing									
2.80	71.40	GAB Gabbro Wisner Gabbro. Fg-Mg greenish grey, dark and very magnetic, appears to be a fringe or contact phase of the WGAB. Patchy biotite alteration throughout.									
71.40	78.90	IGN Intermediate Gneiss Typical IGN of the area, Mg, salt and pepper with minor gneissosity. Patchy hematite alteration throughout.									
78.90	79.50	SDBX Sudbury Breccia SDBX with Hematite and Epidote 2B4				2B4					

LITHOLOGY REPORT
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Hole Number **WIS-202**

Project: **BROKEN_HAMMER_NRJV**

Project Number: **263**

<i>From</i> (m)	<i>To</i> (m)	<i>Lithology</i>	<i>Sample #</i>	<i>From</i>	<i>To</i>	<i>Length</i>	<i>Au</i> (g/t)	<i>Pt</i> (g/t)	<i>Pd</i> (g/t)	<i>Ni</i> (%)	<i>Cu</i> (%)
79.50	82.54	IGN <i>Intermediate Gneiss</i> Same as above									
82.54	83.46	SDBX <i>Sudbury Breccia</i> 80%, cool, dark grey to black matrix with rounded sharp granitoid and IGN clasts. Minor partial melt at ~83.30m to 83.40m.				2BD4					
83.46	84.78	GRGN <i>granite gneiss</i> Very felsic Quartz-Kspar rich band with minor gneissosity									
84.78	85.28	SDBX <i>Sudbury Breccia</i> Colder breccia with low angle contact ~30 dtca. Smaller IGN clasts, <1cm in size.				2B4					
85.28	86.96	IGN <i>Intermediate Gneiss</i>									

LITHOLOGY REPORT
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Hole Number **WIS-202**

Project: **BROKEN_HAMMER_NRJV**

Project Number: **263**

<i>From</i> (m)	<i>To</i> (m)	<i>Lithology</i>	<i>Sample #</i>	<i>From</i>	<i>To</i>	<i>Length</i>	<i>Au</i> (g/t)	<i>Pt</i> (g/t)	<i>Pd</i> (g/t)	<i>Ni</i> (%)	<i>Cu</i> (%)
Typical as above but with some Carbonate-Chlorite veinlets cutting through a a low angle at ~86.2-86.6m.											
86.96	87.71	SDBX Sudbury Breccia									
Fairly hot matrix (2BD3) with greenish tint and some recrystallization and partial melting of clasts. Epidote alteration and some minor carbonate-chlorite veinlets. Minor Pyrite+/-Chalcopyrite disseminations.			Sudbury Breccia :	2BD3							
87.71	91.36	IGN Intermediate Gneiss									
5% SDBX throughout. Typical but more plagioclase rich and epidote altered.			Sudbury Breccia :								
91.36	93.56	SDBX Sudbury Breccia									
Hotter (2BD3), epidote altered and hematized with a fair amount of partial melt. Pyrite+/-Chalcopyrite in small fracture filling.			Sudbury Breccia :	2BD3							
93.56	112.75	IGN Intermediate Gneiss									
			Sudbury Breccia :								

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Hole Number **WIS-202**

Project: **BROKEN_HAMMER_NRJV**

Project Number: **263**

<i>From</i> (m)	<i>To</i> (m)	<i>Lithology</i>	<i>Sample #</i>	<i>From</i>	<i>To</i>	<i>Length</i>	<i>Au</i> (g/t)	<i>Pt</i> (g/t)	<i>Pd</i> (g/t)	<i>Ni</i> (%)	<i>Cu</i> (%)
		Typical with up to 3% SDBX. Patchy epidote and hematite throughout fracture filling with minor Pyrite. 111.9m to 112.75m has carbonate-chlorite veins and patchy epidote and small mariolitic cavities filled with epidote.									
112.75	113.05	SDBX Sudbury Breccia Sudbury Breccia : Hot (2D3) SDBX matrix with Carbonate-Chlorite veins cutting it and patchy epidote.									
113.05	118.00	IGN Intermediate Gneiss Sudbury Breccia : Typical IGN but from 113.05m to 114m is K-spar-epidote rich and altered. There are a few dark bands of MGN throughout.									
118.00	122.75	FGN Felsic Gneiss Sudbury Breccia : With epidote alteration throughout as well as hematite. Several Carbonate-Hematite+/-Chlorite veins are present that are related to the fault below. Tension gashes?									

LITHOLOGY REPORT
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Hole Number **WIS-202**

Project: **BROKEN_HAMMER_NRJV**

Project Number: **263**

<i>From (m)</i>	<i>To (m)</i>	<i>Lithology</i>	<i>Sample #</i>	<i>From</i>	<i>To</i>	<i>Length</i>	<i>Au (g/t)</i>	<i>Pt (g/t)</i>	<i>Pd (g/t)</i>	<i>Ni (%)</i>	<i>Cu (%)</i>
122.75	123.58	FLT Fault Massive Carbonate vein sealed from 122.95m to 123.08m and broke up core to 123.58m. Epidote fracture filling and altered from 122.75m to 122.95m. Entire zone is hematized. Chisel Creek Fault!									
123.58	140.40	IGN Intermediate Gneiss Typical but varying in places. K-spar and hematite altered from 123.58m to 126.30m.									
140.40	143.80	MCQMON Megacrystic Quartz Monzonite Some gneissosity with large megacrystic quartz-feldspar patches throughout up to 2cm in size									
143.80	181.60	IGN Intermediate Gneiss Typical with albite and epidote alteration throughout.									
181.60	184.65	SDBX Sudbury Breccia									
											2B3

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Hole Number **WIS-202**

Project: **BROKEN_HAMMER_NRJV**

Project Number: **263**

<i>From</i> (m)	<i>To</i> (m)	<i>Lithology</i>	<i>Sample #</i>	<i>From</i>	<i>To</i>	<i>Length</i>	<i>Au</i> (g/t)	<i>Pt</i> (g/t)	<i>Pd</i> (g/t)	<i>Ni</i> (%)	<i>Cu</i> (%)
		15% SDBX matrix in IGN up to contact of MCQMON									
184.65	186.44	MCQMON <i>Megacrystic Quartz Monzonite</i> Quartz-Kspar rich, megacrystic QMON.									
186.44	187.90	IGN <i>Intermediate Gneiss</i> Typical. Nothing noteworthy									
187.90	189.15	MCQMON <i>Megacrystic Quartz Monzonite</i> Same as above MCQMON but even larger grain size, up to 2cm in size as well as what looks like flow banding but is probably the beginning of gneissosity.									
189.15	189.90	IGN <i>Intermediate Gneiss</i> Typical. Nothing noteworthy									

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Project: **BROKEN_HAMMER_NRJV**

Project Number: **263**

<i>From</i> (m)	<i>To</i> (m)	<i>Lithology</i>	<i>Sample #</i>	<i>From</i>	<i>To</i>	<i>Length</i>	<i>Au</i> (g/t)	<i>Pt</i> (g/t)	<i>Pd</i> (g/t)	<i>Ni</i> (%)	<i>Cu</i> (%)
189.90	190.65	MCQMON <i>Megacrystic Quartz Monzonite</i> Same as 184.65m to 186.44m with the slightly smaller grain size.									
190.65	196.20	IGN <i>Intermediate Gneiss</i> Typical but there is a large mafic band from ~192m to 193m.									
196.20	196.80	SDBX <i>Sudbury Breccia</i> Hot epidote altered SDBX matrix.									
						2BD3					
196.80	201.72	IGN <i>Intermediate Gneiss</i> Typical with 5-7% SDBX and Hematite+Epidote fracture filling throughout.									

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<i>From</i> (m)	<i>To</i> (m)	<i>Lithology</i>	<i>Sample #</i>	<i>From</i>	<i>To</i>	<i>Length</i>	<i>Au</i> (g/t)	<i>Pt</i> (g/t)	<i>Pd</i> (g/t)	<i>Ni</i> (%)	<i>Cu</i> (%)
201.72	204.80	SDBX Sudbury Breccia Brecciated IGN with 15% SDBX from 201.72m to 203.00m and up to 50% SDBX matrix up to 204.80m. Matrix is green colored and patchy epidote altered. Mostly cooler (2BD4) but hotter (2BD3) from 204.00 to 204.50m.									
204.80	212.00	DIA Diabase Vfg, dark grey to black nearly massive and polished diabase, probably Nipissing, no porphyroblasts.									
212.00	214.00	SDBX Sudbury Breccia GRGN and partial melt from 212.35m to 213.75m. Fairly cold (2D4). The fragments are larger but broken apart.									
214.00	218.00	DIA Diabase Same as above except it has 1-2mm plagioclase porphyroblasts comprising up to 5% of the dyke.									

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<i>From</i> (m)	<i>To</i> (m)	<i>Lithology</i>	<i>Sample #</i>	<i>From</i>	<i>To</i>	<i>Length</i>	<i>Au</i> (g/t)	<i>Pt</i> (g/t)	<i>Pd</i> (g/t)	<i>Ni</i> (%)	<i>Cu</i> (%)
218.00	218.40	SDBX Sudbury Breccia GRGN fragment comprising most of the unit but it may just be a block from the wall during intrusion of the dyke. There are minor sulfides probably related to the dyke leaching. Epidote altered +/- chalcopyrite.	Sudbury Breccia :	2AB4							
218.40	220.00	DIA Diabase Same as above but no porphyroblasts	Sudbury Breccia :								
220.00	220.70	SDBX Sudbury Breccia Moderately cool (2D4) SDBX with a larger GRGN block from 220.7m to 221.4m below. Disseminated trace and fracture filling pyrite.	Sudbury Breccia :	2D4							
220.70	221.40	GRGN granite gneiss Large block in SDBX with Albite+Epidote alteration	Sudbury Breccia :								

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Project: **BROKEN_HAMMER_NRJV**

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<i>From</i> (m)	<i>To</i> (m)	<i>Lithology</i>	<i>Sample #</i>	<i>From</i>	<i>To</i>	<i>Length</i>	<i>Au</i> (g/t)	<i>Pt</i> (g/t)	<i>Pd</i> (g/t)	<i>Ni</i> (%)	<i>Cu</i> (%)
221.40	222.25	SDBX Sudbury Breccia Same as above with trace and fracture filling pyrite. Some partial melt present.									
			Sudbury Breccia :			2AB4					
222.25	224.32	DIA Diabase Same as above but with some minor plagioclase porphyroblasts.									
			Sudbury Breccia :								
224.32	228.70	SDBX Sudbury Breccia Massive K-spar-Quartz+Epidote from 224.32m to 224.45m. The remainder is smaller granitoid fragments and cold 2D4 up to 225.40m. 225.40m to 228.70m is hosted in IGN that is K-spar altered and up to 20% matrix.									
			Sudbury Breccia :			2D4					
228.70	241.60	IGN Intermediate Gneiss K-spar rich gneiss with up to 5-7% SDBX matrix moderately cool breccia (2B4). Patchy Hematite+Epidote throughout as well as albite.									
			Sudbury Breccia :			2B4					

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Project: **BROKEN_HAMMER_NRJV**

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<i>From</i> (m)	<i>To</i> (m)	<i>Lithology</i>	<i>Sample #</i>	<i>From</i>	<i>To</i>	<i>Length</i>	<i>Au</i> (g/t)	<i>Pt</i> (g/t)	<i>Pd</i> (g/t)	<i>Ni</i> (%)	<i>Cu</i> (%)
241.60	244.30	GAB Gabbro Very dark, Mg, Wisner Gabbro zone. May just be a coarser grained phase of the DIA below?									
244.30	252.00	DIA Diabase Same as DIA above									
252.00	265.50	GAB Gabbro Same as WGAB above									
265.50	266.60	FLT Fault Hematite and Epidote altered but quite competent and carbonate sealed.									

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Project: **BROKEN_HAMMER_NRJV**

Project Number: **263**

<i>From</i> (m)	<i>To</i> (m)	<i>Lithology</i>	<i>Sample #</i>	<i>From</i>	<i>To</i>	<i>Length</i>	<i>Au</i> (g/t)	<i>Pt</i> (g/t)	<i>Pd</i> (g/t)	<i>Ni</i> (%)	<i>Cu</i> (%)
266.60	268.00	GRGN <i>granite gneiss</i> Greenish cream colored GRGN with minor Epidote and Hematite throughout.									
268.00	269.95	SDBX <i>Sudbury Breccia</i> Moderately cold (2BD4) SDBX with small intermediate to granitic fragments. Epidote altered and carbonate veining. A few larger clasts of WGAB and FGN up to 30cm in size.									
269.95	271.70	FGN <i>Felsic Gneiss</i> Typical, nothing special									
271.70	272.70	FLT <i>Fault</i> Heavily hematized and mildly fractured but still fairly competent rock with epidote veining and carbonate.									

LITHOLOGY REPORT
- Detailed -

Hole Number **WIS-202**

Project: **BROKEN_HAMMER_NRJV**

Project Number: **263**

<i>From</i> (m)	<i>To</i> (m)	<i>Lithology</i>	<i>Sample #</i>	<i>From</i>	<i>To</i>	<i>Length</i>	<i>Au</i> (g/t)	<i>Pt</i> (g/t)	<i>Pd</i> (g/t)	<i>Ni</i> (%)	<i>Cu</i> (%)
276.50	278.75	MGN Mafic Gneiss More mafic than usual with up to 5-7% SDBX throughout with up to 5-8% Pyrite within the more mafic zones.									
278.75	282.50	SDBX Sudbury Breccia Minor partial melt throughout and quite cold (2BD4) and no noticeable alteration or recrystallization. Mostly matrix from 278.75m to 282.0m.									
282.50	288.00	MCQMON Megacrystic Quartz Monzonite Cg to Megacrystic QMON with very minor gneissosity, nearly porphyritic looking with finer grained, dark green interstitial grains.									
288.00	288.95	SDBX Sudbury Breccia Brecciated Mafic Gneiss (2A4), no visible sulfides present.									

LITHOLOGY REPORT
- Detailed -

Hole Number **WIS-202**

Project: **BROKEN_HAMMER_NRJV**

Project Number: **263**

<i>From</i> (m)	<i>To</i> (m)	<i>Lithology</i>	<i>Sample #</i>	<i>From</i>	<i>To</i>	<i>Length</i>	<i>Au</i> (g/t)	<i>Pt</i> (g/t)	<i>Pd</i> (g/t)	<i>Ni</i> (%)	<i>Cu</i> (%)
288.95	294.20	MGN Mafic Gneiss Amphibolized Mafic Gneiss with some Kspar altered small bands that may be partial melt. Up to 3% Pyrite within foliations.									
294.20	300.00	MCQMON Megacrystic Quartz Monzonite Same as MCQMON above.									
300.00	0.00	EOH End of Hole									

DRILL HOLE REPORT

Hole Number **WIS-203**

Project: **WISNER_WEST NRJV**

Project Number: **674**

Drilling	Casing	Core	Location	Other
Azimuth: 150	Length: 0	Dimension: NQ	Township: WISNER	Logged by: Eilidh Lewis
Dip: -45	Pulled: no	Storage: Core Shed	Claim No.: L108508	Relog by:
Length: 73.93	Capped: yes	Section:	NTS:	Contractor: Jacob & Samuel Drilling Ltd.
Started: 29-Mar-15	Cemented: no	Hole Type DD	Hole: SURFACE	Spotted by: Tom Johnson
Completed: 30-Mar-15				Surveyed:
Logged: 01-Apr-15				Surveyed by:
Comment:				Geophysics: UTEM
		Coordinate - Gemcom	Coordinate - UTM	Geophysic Contractor: Lamontagne
		East: 497445	East: 497445	Left in hole:
		North: 5178900	North: 5178900	Making water: no
		Elev.: 410	Elev.: 410	Multi shot survey: no
			Zone: 17 NAD: 27	

Deviation Tests

Distance	Azimuth	Dip	Type	Good	Comments
0.00	150.00	-45.00	C	<input checked="" type="checkbox"/>	
23.00	145.10	-45.30	F	<input checked="" type="checkbox"/>	MAG=5541
73.93	145.40	-44.40	F	<input checked="" type="checkbox"/>	MAG=5608

LITHOLOGY REPORT
- Detailed -

Hole Number **WIS-203**

Project: **WISNER_WEST NRJV**

Project Number: **674**

<i>From</i> (m)	<i>To</i> (m)	<i>Lithology</i>		<i>Sample #</i>	<i>From</i>	<i>To</i>	<i>Length</i>	<i>Au</i> (g/t)	<i>Pt</i> (g/t)	<i>Pd</i> (g/t)	<i>Ni</i> (%)	<i>Cu</i> (%)
0.00	8.00	CAS	Casing									
8.00	13.43	FGN	Felsic Gneiss coarse grained feldspar and quartz									
13.43	22.50	IGN	Intermediate Gneiss coarse grained sections with finer grained more mafic bands									
22.50	29.11	FGN	Felsic Gneiss coarse grained feldspar and quartz with occasional PEG-like bands									
29.11	29.85	SDBX	Sudbury Breccia									

LITHOLOGY REPORT
- Detailed -

Hole Number **WIS-203**

Project: **WISNER_WEST NRJV**

Project Number: **674**

<i>From</i> (m)	<i>To</i> (m)	<i>Lithology</i>	<i>Sample #</i>	<i>From</i>	<i>To</i>	<i>Length</i>	<i>Au</i> (g/t)	<i>Pt</i> (g/t)	<i>Pd</i> (g/t)	<i>Ni</i> (%)	<i>Cu</i> (%)
		1C3									
29.85	33.61	FGN <i>Felsic Gneiss</i> MGN band 33.19-33.28 with he and ep alteration									
33.61	42.37	MGN <i>Mafic Gneiss</i> dominantly mafic fine to intermediate grained, with bands of more intermediate composition									
42.37	51.56	FGN <i>Felsic Gneiss</i> coarse grained with pervasive hematite alteration. Magnetite alteration in the more mafic bands									
51.56	56.04	IGN <i>Intermediate Gneiss</i> medium to coarse grained									

LITHOLOGY REPORT
- Detailed -

Hole Number **WIS-203**

Project: **WISNER_WEST NRJV**

Project Number: **674**

<i>From</i> (m)	<i>To</i> (m)	<i>Lithology</i>	<i>Sample #</i>	<i>From</i>	<i>To</i>	<i>Length</i>	<i>Au</i> (g/t)	<i>Pt</i> (g/t)	<i>Pd</i> (g/t)	<i>Ni</i> (%)	<i>Cu</i> (%)
56.04	64.15	FGN <i>Felsic Gneiss</i> Sudbury Breccia : coarse grained feldspar and quartz, patchy epidote alteration throughout. PEG vein at 60.61-60.84									
64.15	67.80	IGN <i>Intermediate Gneiss</i> Sudbury Breccia : medium to coarse grained with more mafic bands. Trace PY associated with mafics and epidote									
67.80	73.93	FGN <i>Felsic Gneiss</i> Sudbury Breccia : EOH. Coarse grained with feldspar and quartz, fine grained mafic bands at 70.4-70.7 and 72.6-72.73									
73.93	0.00	EOH <i>End of Hole</i> Sudbury Breccia :									

LITHOLOGY REPORT
- Detailed -

Hole Number **WIS-203**

Project: **WISNER_WEST NRJV**

Project Number: **674**

<i>From</i> (m)	<i>To</i> (m)	<i>Lithology</i>	<i>Sample #</i>	<i>From</i>	<i>To</i>	<i>Length</i>	<i>Au</i> (g/t)	<i>Pt</i> (g/t)	<i>Pd</i> (g/t)	<i>Ni</i> (%)	<i>Cu</i> (%)
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DRILL HOLE REPORT

 Hole Number **WIS-204**

 Project: **WISNER_WEST NRJV**

 Project Number: **674**

Drilling	Casing	Core	Location	Other
Azimuth: 60	Length: 0	Dimension: NQ	Township: WISNER	Logged by: Eilidh Lewis
Dip: -60	Pulled: no	Storage: Core Shed	Claim No.: L108508	Relog by:
Length: 353	Capped: yes	Section:	NTS:	Contractor: Jacob & Samuel Drilling Ltd.
Started: 30-Mar-15	Cemented: yes	Hole Type DD	Hole: SURFACE	Spotted by: Tom Johnson
Completed: 06-Apr-15				Surveyed: yes
Logged: 01-Apr-15				Surveyed by: Dave Coventry
Comment: Collar DGPS-ed. 8-23m cemented				Geophysics: UTEM
		Coordinate - Gemcom	Coordinate - UTM	Geophysic Contractor: Lamontagne
		East: 497436.2	East: 497440	Left in hole: Nothing
		North: 5178874	North: 5178877	Making water: no
		Elev.: 410.3	Elev.: 410	Multi shot survey: no
			Zone: 17 NAD: 27	

Deviation Tests

Distance	Azimuth	Dip	Type	Good	Comments
0.00	60.00	-60.00	C	<input checked="" type="checkbox"/>	
14.00	65.10	-60.60	F	<input checked="" type="checkbox"/>	mag=5537
65.00	64.10	-60.90	F	<input checked="" type="checkbox"/>	mag=5478
116.00	65.70	-61.10	F	<input checked="" type="checkbox"/>	mag=5378
218.00	61.40	-60.70	F	<input checked="" type="checkbox"/>	mag=5497
269.00	60.40	-60.20	F	<input checked="" type="checkbox"/>	mag=5457
320.00	65.30	-59.90	F	<input checked="" type="checkbox"/>	mag=5148
353.00	74.60	-60.00	F	<input type="checkbox"/>	mag=5337

LITHOLOGY REPORT
- Detailed -

Hole Number **WIS-204**

Project: **WISNER_WEST NRJV**

Project Number: **674**

<i>From</i> (m)	<i>To</i> (m)	<i>Lithology</i>	<i>Sample #</i>	<i>From</i>	<i>To</i>	<i>Length</i>	<i>Au</i> (g/t)	<i>Pt</i> (g/t)	<i>Pd</i> (g/t)	<i>Ni</i> (%)	<i>Cu</i> (%)
0.00	2.60	CAS Casing									
2.60	5.11	GAB Gabbro Wisner Gabbro. Medium grained gabbro with coarser grained bands, small PY blebs mainly in the medium grained bands.									
5.11	15.30	FGN Felsic Gneiss coarse grained feldspar and quartz with epidote and hematite alteration	R232108	11.52	12.26	0.74	0.00	0.00	0.01	0.00	0.01
			R232109	12.26	13.26	1.00	0.00	0.01	0.01	0.01	0.02
			R232110	13.26	14.70	1.44	0.00	0.00	0.00	0.02	0.01
			R232111	14.70	15.50	0.80	0.00	0.00	0.00	0.00	0.00
15.30	17.55	FLT Fault Fracture filled quartz, carb, epidote, very hematite altered. Core broken and rubbly with healed sections.	R232112	15.50	17.00	1.50	0.00	0.00	0.00	0.00	0.00
			R232113	17.00	17.41	0.41	0.00	0.00	0.00	0.00	0.00
17.55	24.39	FGN Felsic Gneiss	R232114	17.41	18.41	1.00	0.00	0.00	0.00	0.00	0.00

LITHOLOGY REPORT
- Detailed -

Hole Number **WIS-204**

Project: **WISNER_WEST NRJV**

Project Number: **674**

<i>From</i> (m)	<i>To</i> (m)	<i>Lithology</i>	<i>Sample #</i>	<i>From</i>	<i>To</i>	<i>Length</i>	<i>Au</i> (g/t)	<i>Pt</i> (g/t)	<i>Pd</i> (g/t)	<i>Ni</i> (%)	<i>Cu</i> (%)
		coarse grained quartz and feldspar									
24.39	39.56	IGN Intermediate Gneiss medium to coarse grained									
39.56	49.86	SDBX Sudbury Breccia 1C3, 70% breccia, 30% IGN-FGN	R232115	43.94	44.61	0.67	0.00	0.00	0.00	0.00	0.00
		Alteration Maj: Type/Style/Intensity Comment	R232116	44.61	45.25	0.64	0.00	0.00	0.00	0.00	0.01
		39.56 - 49.86 MAG INT S	R232117	45.25	45.86	0.61	0.00	0.00	0.00	0.00	0.00
		Mineralization Maj. : Type/Style/%Mineral Comment									
		39.56 - 49.86 PY BL 0.1									
49.86	51.53	DIA Diabase fine to medium grained with 1% SDBX, 1C3. Magnetic throughout									

LITHOLOGY REPORT
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Hole Number **WIS-204**

Project: **WISNER_WEST NRJV**

Project Number: **674**

<i>From</i> (m)	<i>To</i> (m)	<i>Lithology</i>	<i>Sample #</i>	<i>From</i>	<i>To</i>	<i>Length</i>	<i>Au</i> (g/t)	<i>Pt</i> (g/t)	<i>Pd</i> (g/t)	<i>Ni</i> (%)	<i>Cu</i> (%)
51.53	64.89	FGN Felsic Gneiss coarse grained quartz and feldspar with 10% SDBX, 2C3 Alteration Maj: Type/Style/Intensity Comment 51.53 - 64.89 HE P MS									
64.89	75.69	DIA Diabase very fine grained aphanitic									
75.69	85.30	MGN Mafic Gneiss medium to coarse grained Alteration Maj: Type/Style/Intensity Comment 75.69 - 85.30 HE PCH MS 75.69 - 85.30 Qtz VN S 75.69 - 85.30 MAG P MS									
85.30	90.70	DIA Diabase very fine grained aphanitic, 4cm of SDBX at each contact									

LITHOLOGY REPORT
- Detailed -

Hole Number **WIS-204**

Project: **WISNER_WEST NRJV**

Project Number: **674**

<i>From</i> (m)	<i>To</i> (m)	<i>Lithology</i>	<i>Sample #</i>	<i>From</i>	<i>To</i>	<i>Length</i>	<i>Au</i> (g/t)	<i>Pt</i> (g/t)	<i>Pd</i> (g/t)	<i>Ni</i> (%)	<i>Cu</i> (%)
90.70	97.08	FGN Felsic Gneiss medium to coarse grained quartz and feldspar									
		Alteration Maj: Type/Style/Intensity Comment									
		90.70 - 97.08 EP PCH M									
		90.70 - 97.08 EP FF MS									
97.08	102.58	MGN Mafic Gneiss medium grained									
102.58	111.49	IGN Intermediate Gneiss medium to coarse grained									
		Alteration Maj: Type/Style/Intensity Comment									
		102.58 - 111.49 EP FF S									

LITHOLOGY REPORT
- Detailed -

Hole Number **WIS-204**

Project: **WISNER_WEST NRJV**

Project Number: **674**

<i>From</i> (m)	<i>To</i> (m)	<i>Lithology</i>	<i>Sample #</i>	<i>From</i>	<i>To</i>	<i>Length</i>	<i>Au</i> (g/t)	<i>Pt</i> (g/t)	<i>Pd</i> (g/t)	<i>Ni</i> (%)	<i>Cu</i> (%)
111.49	113.76	DIA Diabase very fine grained aphanitic									
113.76	122.69	FGN Felsic Gneiss <i>Alteration Maj:</i> <i>Type/Style/Intensity</i> <i>Comment</i> 113.76 - 122.69 EP PCH M 113.76 - 122.69 HE P M 113.76 - 122.69 HE FF S									
122.69	125.68	SDBX Sudbury Breccia 1C3 <i>Alteration Maj:</i> <i>Type/Style/Intensity</i> <i>Comment</i> 122.69 - 125.68 HE P M									
125.68	130.12	DIA Diabase very fine grained aphanitic									

LITHOLOGY REPORT
- Detailed -

Hole Number **WIS-204**

Project: **WISNER_WEST NRJV**

Project Number: **674**

<i>From</i> (m)	<i>To</i> (m)	<i>Lithology</i>	<i>Sample #</i>	<i>From</i>	<i>To</i>	<i>Length</i>	<i>Au</i> (g/t)	<i>Pt</i> (g/t)	<i>Pd</i> (g/t)	<i>Ni</i> (%)	<i>Cu</i> (%)
130.12	138.42	FGN Felsic Gneiss medium to coarse grained quartz and feldspar. 5% SDBX, 1C3 Alteration Maj: Type/Style/Intensity Comment 130.12 - 138.42 HE P M									
138.42	141.07	SDBX Sudbury Breccia 2C3, with larger (up to 10cm) clasts of FGN Alteration Maj: Type/Style/Intensity Comment 138.42 - 141.07 HE P M									
141.07	147.00	MGN Mafic Gneiss fine to medium grained with blebby PY throughout	R232118	141.77	142.73	0.96	0.00	0.00	0.00	0.01	0.00
			R232119	142.73	143.67	0.94	0.00	0.00	0.00	0.01	0.01
			R232120	143.67	144.79	1.12	0.00	0.00	0.00	0.00	0.00
			R232121	144.79	145.83	1.04	0.00	0.00	0.00	0.01	0.00

LITHOLOGY REPORT
- Detailed -

Hole Number **WIS-204**

Project: **WISNER_WEST NRJV**

Project Number: **674**

<i>From</i> (m)	<i>To</i> (m)	<i>Lithology</i>	<i>Sample #</i>	<i>From</i>	<i>To</i>	<i>Length</i>	<i>Au</i> (g/t)	<i>Pt</i> (g/t)	<i>Pd</i> (g/t)	<i>Ni</i> (%)	<i>Cu</i> (%)
147.00	169.92	FGN Felsic Gneiss medium to coarse grained quartz and feldspar with fine grained mafic bands	R232122	155.81	156.22	0.41	0.00	0.00	0.00	0.01	0.00
			R232123	156.22	156.60	0.38	0.00	0.00	0.00	0.00	0.00
			R232124	156.60	157.00	0.40	0.00	0.00	0.00	0.00	0.00
		Alteration Maj: Type/Style/Intensity Comment									
		154.00 - 154.59 EP PCH M									
		156.23 - 156.49 EP FF S									
		156.23 - 156.49 HE P M									
		156.23 - 156.49 Qtz FF S									
		158.55 - 158.66 EP FF MS									
		161.55 - 169.92 EP FF MS									
		Minor Interval:									
		167.83 167.89 SDBX 2C3 <i>Sudbury Breccia</i>									
		Minor Interval:									
		169.36 169.57 SDBX 2C3 <i>Sudbury Breccia</i>									
		Minor Interval:									
		169.80 169.91 SDBX 2C3 <i>Sudbury Breccia</i>									
169.92	175.93	IGN Intermediate Gneiss									
		Minor Interval:									
		172.30 172.33 SDBX 2C3 <i>Sudbury Breccia</i>									

LITHOLOGY REPORT
- Detailed -

Hole Number **WIS-204**

Project: **WISNER_WEST NRJV**

Project Number: **674**

<i>From</i> (m)	<i>To</i> (m)	<i>Lithology</i>	<i>Sample #</i>	<i>From</i>	<i>To</i>	<i>Length</i>	<i>Au</i> (g/t)	<i>Pt</i> (g/t)	<i>Pd</i> (g/t)	<i>Ni</i> (%)	<i>Cu</i> (%)
		Minor Interval:									
	171.80	171.83	SDBX 2C3								
			<i>Sudbury Breccia</i>								
175.93	177.59	SDBX	<i>Sudbury Breccia</i>								
			1C3								
		Mineralization Maj. :	<i>Type/Style/%Mineral</i>	<i>Comment</i>							
			176.99 - 177.07	PY BL 0.1							
			176.99 - 177.07	PY FF 0.1							
177.59	194.10	IGN	<i>Intermediate Gneiss</i>								
		Alteration Maj:	<i>Type/Style/Intensity</i>	<i>Comment</i>							
			177.59 - 194.10	HE P M							
		Minor Interval:									
	187.26	187.52	SDBX 2C3								
			<i>Sudbury Breccia</i>								
194.10	212.89	SDBX	<i>Sudbury Breccia</i>	R232125	194.00	194.28	0.28	0.00	0.00	0.00	0.00
			1C3, with large felsic blocks	R232126	194.28	194.63	0.35	0.00	0.00	0.00	0.01
		Alteration Maj:	<i>Type/Style/Intensity</i>	<i>Comment</i>	R232127	194.63	194.97	0.34	0.00	0.00	0.00
			194.34 - 194.44	Carb VN S							
			205.17 - 205.37	EP PCH M							

LITHOLOGY REPORT
- Detailed -

Hole Number **WIS-204**

Project: **WISNER_WEST NRJV**

Project Number: **674**

<i>From</i> (m)	<i>To</i> (m)	<i>Lithology</i>	<i>Sample #</i>	<i>From</i>	<i>To</i>	<i>Length</i>	<i>Au</i> (g/t)	<i>Pt</i> (g/t)	<i>Pd</i> (g/t)	<i>Ni</i> (%)	<i>Cu</i> (%)
		Mineralization Maj. :									
		194.34 - 194.60									
		194.60 - 204.00									
		Minor Interval:									
		200.63 201.45									
		DIA									
		Diabase									
		fine grained with plag phenocrysts - Metachewan?									
212.89	218.00	FGN Felsic Gneiss									
		coarse grained quartz and feldspar									
		Alteration Maj:									
		212.89 - 218.00									
		EP PCH M									
218.00	224.40	IGN Intermediate Gneiss									
		medium to coarse grained									
		Alteration Maj:									
		219.72 - 220.00									
		Qtz VN S									
		219.72 - 220.00									
		EP FF S									
		219.72 - 220.00									
		MAG P MS									
		Mineralization Maj. :									
		219.72 - 224.40									
		PY BL 0.1									
			R232128	219.37	219.69	0.32	0.00	0.00	0.00	0.00	0.01
			R232129	219.69	220.00	0.31	0.00	0.00	0.00	0.01	0.00
			R232130	220.00	220.30	0.30	0.00	0.00	0.00	0.01	0.00

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- Detailed -

Hole Number **WIS-204**

Project: **WISNER_WEST NRJV**

Project Number: **674**

<i>From</i> (m)	<i>To</i> (m)	<i>Lithology</i>		<i>Sample #</i>	<i>From</i>	<i>To</i>	<i>Length</i>	<i>Au</i> (g/t)	<i>Pt</i> (g/t)	<i>Pd</i> (g/t)	<i>Ni</i> (%)	<i>Cu</i> (%)
224.40	231.87	DIA	Diabase									
		fine grained with plag phenocrysts - Metachewan?										
		Minor Interval:										
		225.00	225.91	SDBX								
				1C3								
		Minor Interval:										
		231.16	231.42	SDBX								
				1C3								
231.87	239.22	IGN	Intermediate Gneiss									
		5% SDBX, 2C3										
		Alteration Maj:		Type/Style/Intensity	Comment							
		235.21 - 235.30		EP FF S								
239.22	241.52	DIA	Diabase									
		fine grained with plag phenocrysts - Metachewan?										
241.52	281.00	SDBX	Sudbury Breccia									
		mix of 1C3 and 2C3 with larger blocks of hematized monzonite										

LITHOLOGY REPORT
- Detailed -

Hole Number **WIS-204**

Project: **WISNER_WEST NRJV**

Project Number: **674**

<i>From</i> (m)	<i>To</i> (m)	<i>Lithology</i>	<i>Sample #</i>	<i>From</i>	<i>To</i>	<i>Length</i>	<i>Au</i> (g/t)	<i>Pt</i> (g/t)	<i>Pd</i> (g/t)	<i>Ni</i> (%)	<i>Cu</i> (%)
		Alteration Maj:									
		<i>Type/Style/Intensity</i> <i>Comment</i>									
		241.52 - 281.00									
		HE P S									
		271.47 - 271.65									
		EP FF S									
		271.71 - 271.86									
		EP FF MS									
		271.71 - 271.86									
		Qtz VN S									
		Mineralization Maj. :									
		<i>Type/Style/%Mineral</i> <i>Comment</i>									
		269.71 - 275.90									
		PY FF 0.1									
		276.00 - 279.00									
		PY FF 0.1									
		280.05 - 280.15									
		PY FF 0.5									
		Minor Interval:									
		247.10 254.60									
		MNZ									
		strongly hematized with small 1-2cm fingers of SDBX									
		Minor Interval:									
		265.13 266.43									
		MNZ									
		<i>Monzonite</i>									
		Minor Interval:									
		269.71 275.90									
		MNZ									
		<i>Monzonite</i>									
		Minor Interval:									
		276.27 277.21									
		MNZ									
		<i>Monzonite</i>									
281.00	287.17	IGN									
		<i>Intermediate Gneiss</i>									
		fine to medium grained									
		Alteration Maj:									
		<i>Type/Style/Intensity</i> <i>Comment</i>									
		282.58 - 282.63									
		HE P MS									
		282.58 - 282.63									
		Qtz VN S									
		285.30 - 286.00									
		HE P S									

LITHOLOGY REPORT
- Detailed -

Hole Number **WIS-204**

Project: **WISNER_WEST NRJV**

Project Number: **674**

<i>From</i> (m)	<i>To</i> (m)	<i>Lithology</i>	<i>Sample #</i>	<i>From</i>	<i>To</i>	<i>Length</i>	<i>Au</i> (g/t)	<i>Pt</i> (g/t)	<i>Pd</i> (g/t)	<i>Ni</i> (%)	<i>Cu</i> (%)
		Mineralization Maj. :									
		282.58 - 282.63									
		Type/Style/%Mineral									
		PY FF 0.1									
		Comment									
287.17	317.83	MCQMON Megacrystic Quartz Monzonite									
		very coarse grained, dark grey mafic matrix with quartz and feldspar									
		Alteration Maj:									
		291.58 - 292.07									
		305.59 - 305.70									
		Type/Style/Intensity									
		HE P M									
		EP VN S									
		Comment									
		Minor Interval:									
		288.07 288.29									
		SDBX									
		2C3									
		Minor Interval:									
		295.06 295.74									
		SDBX									
		2C3									
		Minor Interval:									
		302.22 303.06									
		SDBX									
		2C3									
		Minor Interval:									
		307.70 308.18									
		SDBX									
		2C3									
		Minor Interval:									
		308.40 309.74									
		DIOR									
		feldspar porphyritic									

LITHOLOGY REPORT
- Detailed -

Hole Number **WIS-204**

Project: **WISNER_WEST NRJV**

Project Number: **674**

<i>From</i> (m)	<i>To</i> (m)	<i>Lithology</i>	<i>Sample #</i>	<i>From</i>	<i>To</i>	<i>Length</i>	<i>Au</i> (g/t)	<i>Pt</i> (g/t)	<i>Pd</i> (g/t)	<i>Ni</i> (%)	<i>Cu</i> (%)
317.83	322.53	MGN <i>Mafic Gneiss</i> fine to medium grained with small MONZ bands									
322.53	326.00	PEG <i>Pegmatite</i> coarse grained	R232133	322.52	323.52	1.00	0.00	0.00	0.00	0.00	0.00
			R232134	323.52	324.52	1.00	0.00	0.00	0.00	0.00	0.00
		Alteration Maj: <i>Type/Style/Intensity</i> Comment	R232135	324.52	326.00	1.48	0.00	0.00	0.00	0.00	0.00
		322.53 - 326.00 HE P S									
		Mineralization Maj. : <i>Type/Style/%Mineral</i> Comment									
		322.53 - 326.00 PY FF 0.1									
		322.53 - 326.00 PY BL 0.1									
		323.17 - 323.20 GR BL 0.5									
326.00	336.89	MGN <i>Mafic Gneiss</i> medium to coarse grained									
		Alteration Maj: <i>Type/Style/Intensity</i> Comment									
		326.00 - 336.89 HE PCH W									
		334.46 - 334.52 EP VN S									
		334.46 - 334.52 HE VN S									
		334.46 - 334.52 Qtz VN S									
		Mineralization Maj. : <i>Type/Style/%Mineral</i> Comment									
		326.00 - 336.89 PY BL 0.1 trace									

LITHOLOGY REPORT
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Hole Number **WIS-204**

Project: **WISNER_WEST NRJV**

Project Number: **674**

<i>From</i> (m)	<i>To</i> (m)	<i>Lithology</i>	<i>Sample #</i>	<i>From</i>	<i>To</i>	<i>Length</i>	<i>Au</i> (g/t)	<i>Pt</i> (g/t)	<i>Pd</i> (g/t)	<i>Ni</i> (%)	<i>Cu</i> (%)
336.89	342.59	MNZ Monzonite coarse grained	R232136	336.83	337.40	0.57	0.00	0.00	0.00	0.00	0.00
			R232137	337.40	338.00	0.60	0.00	0.00	0.00	0.00	0.00
			R232138	338.00	339.00	1.00	0.00	0.00	0.00	0.00	0.00
		Mineralization Maj. : Type/Style/%Mineral Comment	R232139	339.00	340.00	1.00	0.00	0.00	0.00	0.00	0.00
		337.71 - 337.76 PY STR 1	R232140	340.00	340.97	0.97	0.00	0.00	0.00	0.00	0.00
			R232141	340.97	341.74	0.77	0.00	0.00	0.00	0.00	0.00
			R232142	341.74	342.59	0.85	0.00	0.00	0.00	0.00	0.00
342.59	353.00	SDBX Sudbury Breccia partial melting zone 343.85-344, mix of 1C3 and 2C3 with Monz blocks and some diorite. 20% MONZ, 5% DIOR	R232143	342.59	344.00	1.41	0.00	0.00	0.00	0.00	0.00
			R232144	344.00	345.00	1.00	0.00	0.00	0.00	0.00	0.00
			R232145	345.00	346.00	1.00	0.00	0.00	0.00	0.00	0.00
		Alteration Maj: Type/Style/Intensity Comment	R232146	346.00	347.00	1.00	0.00	0.00	0.00	0.00	0.00
		342.59 - 353.00 ACTL FF S with PY	R232147	347.00	348.00	1.00	0.00	0.00	0.00	0.00	0.00
		Mineralization Maj. : Type/Style/%Mineral Comment	R232148	348.00	349.27	1.27	0.00	0.00	0.00	0.00	0.00
		342.59 - 353.00 PY STR 0.5	R232149	349.27	350.79	1.52	0.00	0.00	0.00	0.00	0.00
			R232150	350.79	352.00	1.21	0.00	0.00	0.00	0.00	0.00
			R232151	352.00	353.00	1.00	0.00	0.00	0.00	0.00	0.00

DRILL HOLE REPORT

 Hole Number **WIS-205**

 Project: **BROKEN_HAMMER_NRJV**

 Project Number: **263**

Drilling	Casing	Core	Location	Other
Azimuth: 40	Length: 0	Dimension: BQ	Township: WISNER	Logged by: Eilidh Lewis
Dip: -50	Pulled: no	Storage: Core Shed	Claim No.:	Relog by:
Length: 163	Capped: yes	Section:	NTS:	Contractor: Jacob & Samuel Drilling Ltd.
Started: 08-Apr-15	Cemented: no	Hole Type DD	Hole: SURFACE	Spotted by: Tom Johnson
Completed: 12-Apr-15				Surveyed: yes
Logged: 13-Apr-15				Surveyed by: Dave Coventry
Comment: Collar DGPS-ed. Started with HW casing, reduced to NW, then reduced to NQ rods which acted as casing. Lost water return at 40m.				Geophysics: None
		Coordinate - Gemcom	Coordinate - UTM	Geophysic Contractor:
		East: 497018.3	East: 497025	Left in hole: Nothing
		North: 5178784	North: 5178790	Making water: no
		Elev.: 433	Elev.: 430	Multi shot survey: no
			Zone: 17 NAD: 27	

Deviation Tests

Distance	Azimuth	Dip	Type	Good	Comments
0.00	40.00	-50.00	C	<input checked="" type="checkbox"/>	
34.00	38.70	-51.30	F	<input checked="" type="checkbox"/>	mag=5584, temp=12.3
61.00	38.70	-50.10	F	<input checked="" type="checkbox"/>	mag=5525, temp=12.4
112.00	39.60	-48.20	F	<input checked="" type="checkbox"/>	mag=5478, tmep=12.6
163.00	48.40	-46.10	F	<input checked="" type="checkbox"/>	mag=5270, temp=11.9

LITHOLOGY REPORT
- Detailed -

Hole Number **WIS-205**

Project: **BROKEN_HAMMER_NRJV**

Project Number: **263**

<i>From</i> (m)	<i>To</i> (m)	<i>Lithology</i>		<i>Sample #</i>	<i>From</i>	<i>To</i>	<i>Length</i>	<i>Au</i> (g/t)	<i>Pt</i> (g/t)	<i>Pd</i> (g/t)	<i>Ni</i> (%)	<i>Cu</i> (%)
0.00	15.00	CAS	Casing									
15.00	20.00	FGN	Felsic Gneiss									
		NQ core, used as casing, broken and missing core. Coarse grained quartz and feldspar.										
		Alteration Maj:	Type/Style/Intensity	Comment								
		18.00 - 20.00	EP PCH S									
		18.00 - 20.00	HE P MS									
20.00	22.60	FGN	Felsic Gneiss									
		BQ core from 20m to EOH.										
		Alteration Maj:	Type/Style/Intensity	Comment								
		20.00 - 22.60	EP PCH S									
		20.00 - 22.60	HE P MS									
		Minor Interval:										
		21.29	21.58	SDBX	<i>Sudbury Breccia</i>							
				1C3								

LITHOLOGY REPORT
- Detailed -

Hole Number **WIS-205**

Project: **BROKEN_HAMMER_NRJV**

Project Number: **263**

<i>From</i> (m)	<i>To</i> (m)	<i>Lithology</i>	<i>Sample #</i>	<i>From</i>	<i>To</i>	<i>Length</i>	<i>Au</i> (g/t)	<i>Pt</i> (g/t)	<i>Pd</i> (g/t)	<i>Ni</i> (%)	<i>Cu</i> (%)
22.60	24.73	SDBX <i>Sudbury Breccia</i> 1C3 <i>Mineralization Maj. :</i> <i>Type/Style/%Mineral</i> <i>Comment</i> 22.60 - 24.73 PY BL 0.1									
24.73	29.17	MGN <i>Mafic Gneiss</i> medium to coarse grained mafic <i>Alteration Maj:</i> <i>Type/Style/Intensity</i> <i>Comment</i> 28.16 - 28.43 HE PCH W <i>Mineralization Maj. :</i> <i>Type/Style/%Mineral</i> <i>Comment</i> 24.73 - 29.17 PY BL 0.2 <i>Minor Interval:</i> 29.02 29.16 SDBX <i>Sudbury Breccia</i> 2C3									
29.17	48.56	IGN <i>Intermediate Gneiss</i> medium to coarse grained. No water return at 40m, nothing noted to explain this. <i>Alteration Maj:</i> <i>Type/Style/Intensity</i> <i>Comment</i> 31.74 - 38.05 HE P W 44.17 - 45.14 HE P W <i>Mineralization Maj. :</i> <i>Type/Style/%Mineral</i> <i>Comment</i> 45.26 - 47.00 PY BL 0.1									

LITHOLOGY REPORT
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Hole Number **WIS-205**

Project: **BROKEN_HAMMER_NRJV**

Project Number: **263**

<i>From</i> (m)	<i>To</i> (m)	<i>Lithology</i>	<i>Sample #</i>	<i>From</i>	<i>To</i>	<i>Length</i>	<i>Au</i> (g/t)	<i>Pt</i> (g/t)	<i>Pd</i> (g/t)	<i>Ni</i> (%)	<i>Cu</i> (%)
48.56	52.79	DIA Diabase fine grained aphanitic									
		Alteration Maj:	Type/Style/Intensity	Comment							
		48.56 - 52.79	MAG P MS								
		Minor Interval:									
		49.11 49.61	IGN	<i>Intermediate Gneiss</i>							
		Minor Interval:									
		49.61 50.03	SDBX 1C3	<i>Sudbury Breccia</i>							
		Minor Interval:									
		51.46 51.67	SDBX 1C3	<i>Sudbury Breccia</i>							
52.79	66.73	MGN Mafic Gneiss medium to coarse grained									
		Alteration Maj:	Type/Style/Intensity	Comment							
		56.28 - 56.72	Qtz FF S								
		56.28 - 56.72	HE P S								
		60.55 - 60.64	Qtz VN S								
		Mineralization Maj. :	Type/Style/%Mineral	Comment							
		52.79 - 55.00	PY FF 0.1								
		52.79 - 55.00	PY BL 0.1								

LITHOLOGY REPORT
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Hole Number **WIS-205**

Project: **BROKEN_HAMMER_NRJV**

Project Number: **263**

<i>From</i> (m)	<i>To</i> (m)	<i>Lithology</i>	<i>Sample #</i>	<i>From</i>	<i>To</i>	<i>Length</i>	<i>Au</i> (g/t)	<i>Pt</i> (g/t)	<i>Pd</i> (g/t)	<i>Ni</i> (%)	<i>Cu</i> (%)
	61.61 - 66.73	PY BL 0.1									
	Minor Interval: 56.72 - 57.50	SDBX 1C3									
66.73	80.72	DIA Diabase fine grained aphanitic to porphyritic between 77 and 79m									
		Alteration Maj:	Type/Style/Intensity	Comment							
	71.17 - 71.34		EP FF S								
		Mineralization Maj. :	Type/Style/%Mineral	Comment							
	66.73 - 80.72		PY BL 0.1								
	Minor Interval: 69.70 - 69.82	FGN									
	Minor Interval: 70.53 - 70.76	FGN									
	Minor Interval: 72.38 - 73.29	SDBX 1C3									
	Minor Interval: 75.46 - 75.77	SDBX 1C3									
80.72	94.10	IGN Intermediate Gneiss medium to coarse grained									
		Alteration Maj:	Type/Style/Intensity	Comment							

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Hole Number **WIS-205**

Project: **BROKEN_HAMMER_NRJV**

Project Number: **263**

<i>From</i> (m)	<i>To</i> (m)	<i>Lithology</i>	<i>Sample #</i>	<i>From</i>	<i>To</i>	<i>Length</i>	<i>Au</i> (g/t)	<i>Pt</i> (g/t)	<i>Pd</i> (g/t)	<i>Ni</i> (%)	<i>Cu</i> (%)
	93.66 - 94.10	HE PCH S									
	93.66 - 94.10	Qtz VN I									
		Mineralization Maj. :									
	81.72 - 94.10	PY FF 0.1									
	81.72 - 94.10	PY BL 0.1									
		Minor Interval:									
	82.49 - 82.70	SDBX 1C3									
		Minor Interval:									
	84.31 - 84.47	SDBX 1C3									
94.10	107.06	DIA Diabase fine grained aphanitic to porphyritic									
		Minor Interval:									
	97.35 - 97.51	SDBX 1C3									
107.06	121.59	IGN Intermediate Gneiss medium to coarse grained									
		Alteration Maj:									
	107.06 - 121.59	HE P M									
	119.30 - 119.40	EP FF M									

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Hole Number **WIS-205**

Project: **BROKEN_HAMMER_NRJV**

Project Number: **263**

<i>From</i> (m)	<i>To</i> (m)	<i>Lithology</i>	<i>Sample #</i>	<i>From</i>	<i>To</i>	<i>Length</i>	<i>Au</i> (g/t)	<i>Pt</i> (g/t)	<i>Pd</i> (g/t)	<i>Ni</i> (%)	<i>Cu</i> (%)
		Mineralization Maj. :									
		118.43 - 120.15									
		118.43 - 120.15									
		Minor Interval:									
		109.34 110.53									
		SDBX 1C3									
		Minor Interval:									
		114.05 114.41									
		SDBX 2C3									
		Minor Interval:									
		115.58 115.78									
		SDBX 1C3									
		Minor Interval:									
		116.18 117.38									
		SDBX 1C3									
121.59	129.55	SDBX									
		Sudbury Breccia									
		1C3									
		Alteration Maj:									
		128.35 - 128.64									
		Carb VN S									
		128.35 - 128.64									
		Qtz VN S									
		128.35 - 128.64									
		HE P S									
		Mineralization Maj. :									
		128.35 - 128.64									
		PY FF 0.1									
		Minor Interval:									

LITHOLOGY REPORT
- Detailed -

Hole Number **WIS-205**

Project: **BROKEN_HAMMER_NRJV**

Project Number: **263**

<i>From</i> (m)	<i>To</i> (m)	<i>Lithology</i>	<i>Sample #</i>	<i>From</i>	<i>To</i>	<i>Length</i>	<i>Au</i> (g/t)	<i>Pt</i> (g/t)	<i>Pd</i> (g/t)	<i>Ni</i> (%)	<i>Cu</i> (%)
	125.82	127.25	DIA	<i>Diabase</i>							
129.55	132.44	MCQMON <i>Megacrystic Quartz Monzonite</i> large quartz and feldspar phenocrysts									
132.44	134.04	DIA <i>Diabase</i> fine grained aphanitic with 40cm SDBX, 1C3 at the top contact and 6cm SDBX, 1C3 at the bottom contact									
	Minor Interval:										
	132.44	132.84	SDBX 1C3	<i>Sudbury Breccia</i>							
	Minor Interval:										
	133.98	134.04	SDBX 1C3	<i>Sudbury Breccia</i>							
134.04	136.52	DIOR <i>Diorite</i> coarse grained quartz and feldspar in mafic matrix									
	Alteration Maj: Type/Style/Intensity Comment										
	135.10 - 135.14		Qtz	VN	M						
	135.10 - 135.14		HE	P	M						
	135.50 - 135.80		HE	P	W						

LITHOLOGY REPORT
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Hole Number **WIS-205**

Project: **BROKEN_HAMMER_NRJV**

Project Number: **263**

<i>From</i> (m)	<i>To</i> (m)	<i>Lithology</i>	<i>Sample #</i>	<i>From</i>	<i>To</i>	<i>Length</i>	<i>Au</i> (g/t)	<i>Pt</i> (g/t)	<i>Pd</i> (g/t)	<i>Ni</i> (%)	<i>Cu</i> (%)
136.52	139.88	MCQMON <i>Megacrystic Quartz Monzonite</i> large quartz and feldspar phenocrysts. 15cm SDBX, 1C3 at top contact, 70cm SDBX, 1C3 at bottom contact									
		Alteration Maj:									
		136.52 - 139.88									
		Type/Style/Intensity									
		HE P MS									
		Minor Interval:									
		136.52 136.67									
		SDBX									
		1C3									
		Minor Interval:									
		139.18 139.88									
		SDBX									
		1C3									
139.88	142.94	MGN <i>Mafic Gneiss</i> fine to medium grained									
		Alteration Maj:									
		141.21 - 141.40									
		Carb VN S									
		141.21 - 141.40									
		EP PCH S									
		141.21 - 141.40									
		Qtz PCH MS									
		141.21 - 141.40									
		HE P MS									
		Mineralization Maj. :									
		139.88 - 142.94									
		PY FF 0.5									

LITHOLOGY REPORT
- Detailed -

Hole Number **WIS-205**

Project: **BROKEN_HAMMER_NRJV**

Project Number: **263**

<i>From</i> (m)	<i>To</i> (m)	<i>Lithology</i>	<i>Sample #</i>	<i>From</i>	<i>To</i>	<i>Length</i>	<i>Au</i> (g/t)	<i>Pt</i> (g/t)	<i>Pd</i> (g/t)	<i>Ni</i> (%)	<i>Cu</i> (%)
142.94	148.13	SDBX Sudbury Breccia 1C3 <i>Alteration Maj:</i> <i>Type/Style/Intensity</i> <i>Comment</i> 142.94 - 143.81 HE P MS									
148.13	152.00	IGN Intermediate Gneiss fine to medium grained <i>Alteration Maj:</i> <i>Type/Style/Intensity</i> <i>Comment</i> 149.10 - 149.92 HE PCH M									
152.00	159.54	SDBX Sudbury Breccia 1C3 <i>Alteration Maj:</i> <i>Type/Style/Intensity</i> <i>Comment</i> 155.21 - 156.06 HE P M 157.31 - 157.39 ACTL VN S halo around the quartz vein 157.31 - 157.39 Qtz VN S <i>Mineralization Maj. :</i> <i>Type/Style/%Mineral</i> <i>Comment</i> 152.00 - 159.54 PY FF 0.1									

LITHOLOGY REPORT
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Hole Number **WIS-205**

Project: **BROKEN_HAMMER_NRJV**

Project Number: **263**

<i>From</i> (m)	<i>To</i> (m)	<i>Lithology</i>	<i>Sample #</i>	<i>From</i>	<i>To</i>	<i>Length</i>	<i>Au</i> (g/t)	<i>Pt</i> (g/t)	<i>Pd</i> (g/t)	<i>Ni</i> (%)	<i>Cu</i> (%)
	152.00 - 159.54	PY BL 0.1									
	Minor Interval:										
	156.90	157.10	PEG								
159.54	162.90	IGN <i>Intermediate Gneiss</i>									
		EOH. Fine to medium grained									
		Alteration Maj:	Type/Style/Intensity	Comment							
		159.77 - 159.82	Carb VN S								
		159.77 - 159.82	Qtz VN S								
		Mineralization Maj. :	Type/Style/%Mineral	Comment							
		162.52 - 162.69	PY BL 0.1								

DRILL HOLE REPORT

 Hole Number **WIS-206**

 Project: **BROKEN_HAMMER_NRJV**

 Project Number: **263**

Drilling	Casing	Core	Location	Other
Azimuth: 350	Length: 0	Dimension: BQ	Township: WISNER	Logged by: Eilidh Lewis
Dip: -65	Pulled: no	Storage: Core Shed	Claim No.:	Relog by:
Length: 200	Capped: yes	Section:	NTS:	Contractor: Jacob & Samuel Drilling Ltd.
Started: 15-Apr-15	Cemented: no	Hole Type DD	Hole: SURFACE	Spotted by: Tom Johnson
Completed: 17-Apr-15				Surveyed: yes
Logged: 20-Apr-15				Surveyed by: Dave Coventry
Comment: Collar DGPS-ed. Drilled through waste pile, cased in HQ and NQ, drilled in BQ.				Geophysics: None
		Coordinate - Gemcom	Coordinate - UTM	Geophysic Contractor:
		East: 497012.5	East: 497025	Left in hole: Nothing
		North: 5178782	North: 5178790	Making water: no
		Elev.: 433.1	Elev.: 430	Multi shot survey: no
			Zone: 17 NAD: 27	

Deviation Tests

Distance	Azimuth	Dip	Type	Good	Comments
0.00	350.00	-65.00	C	<input checked="" type="checkbox"/>	
32.00	349.80	-65.60	F	<input checked="" type="checkbox"/>	mag=5569
83.00	352.20	-65.50	F	<input checked="" type="checkbox"/>	mag=5514
134.00	357.00	-65.60	F	<input checked="" type="checkbox"/>	mag=5520
185.00	354.50	-65.50	F	<input checked="" type="checkbox"/>	mag=5472

LITHOLOGY REPORT
- Detailed -

Hole Number **WIS-206**

Project: **BROKEN_HAMMER_NRJV**

Project Number: **263**

<i>From</i> (m)	<i>To</i> (m)	<i>Lithology</i>	<i>Sample #</i>	<i>From</i>	<i>To</i>	<i>Length</i>	<i>Au</i> (g/t)	<i>Pt</i> (g/t)	<i>Pd</i> (g/t)	<i>Ni</i> (%)	<i>Cu</i> (%)
0.00	13.20	CAS Casing									
13.20	16.39	FGN Felsic Gneiss medium to coarse grained, banded Alteration Maj: Type/Style/Intensity Comment 13.20 - 16.39 HE P MS									
16.39	20.09	SDBX Sudbury Breccia									
		Mineralization Maj. : Type/Style/%Mineral Comment 17.00 - 20.09 PY BL 0.1									
		Minor Interval: 18.05 18.37 GR <i>Granite</i>									
		Minor Interval: 19.25 19.36 PEG <i>Pegmatite</i>									
20.09	35.67	MGN Mafic Gneiss medium to coarse grained, banded Mineralization Maj. : Type/Style/%Mineral Comment 20.09 - 35.67 PY BL 0.1									

LITHOLOGY REPORT
- Detailed -

Hole Number **WIS-206**

Project: **BROKEN_HAMMER_NRJV**

Project Number: **263**

<i>From</i> (m)	<i>To</i> (m)	<i>Lithology</i>	<i>Sample #</i>	<i>From</i>	<i>To</i>	<i>Length</i>	<i>Au</i> (g/t)	<i>Pt</i> (g/t)	<i>Pd</i> (g/t)	<i>Ni</i> (%)	<i>Cu</i> (%)
		Minor Interval:									
	25.43	26.63	SDBX	<i>Sudbury Breccia</i>		1C3					
		Minor Interval:									
	30.87	31.08	SDBX	<i>Sudbury Breccia</i>		1C3					
		Minor Interval:									
	33.40	34.54	SDBX	<i>Sudbury Breccia</i>		1C3					
35.67	43.38	IGN	Intermediate Gneiss								
		medium to coarse grained, banded with 10% SDBX									
		Alteration Maj:	Type/Style/Intensity	Comment							
	40.00	41.00	HE P MS								
	42.38	42.61	EP VN MS								
	42.38	42.61	Carb VN S								
		Mineralization Maj. :	Type/Style/%Mineral	Comment							
	35.67	43.38	PY BL 0.2								
		Minor Interval:									
	36.08	36.41	SDBX	<i>Sudbury Breccia</i>		2C3					
		Minor Interval:									
	37.91	39.07	SDBX	<i>Sudbury Breccia</i>		2C4					
		Minor Interval:									
	41.10	41.46	SDBX	<i>Sudbury Breccia</i>		1C4					
43.38	46.06	SDBX	Sudbury Breccia			1C3					
		PY throughout but more associated with epidote stringers									

LITHOLOGY REPORT
- Detailed -

Hole Number **WIS-206**

Project: **BROKEN_HAMMER_NRJV**

Project Number: **263**

<i>From</i> (m)	<i>To</i> (m)	<i>Lithology</i>	<i>Sample #</i>	<i>From</i>	<i>To</i>	<i>Length</i>	<i>Au</i> (g/t)	<i>Pt</i> (g/t)	<i>Pd</i> (g/t)	<i>Ni</i> (%)	<i>Cu</i> (%)
		Alteration Maj:	Type/Style/Intensity	Comment							
		43.38 - 46.06	EP FF M								
		Mineralization Maj. :	Type/Style/%Mineral	Comment							
		43.38 - 46.06	PY BL 0.2								
46.06	47.54	MDIA Matachewan Diabase									
		9cm of SDBX at lower contact									
		Alteration Maj:	Type/Style/Intensity	Comment							
		46.51 - 46.59	EP FF S								
		Mineralization Maj. :	Type/Style/%Mineral	Comment							
		47.10 - 47.27	PY BL 0.5								
		Minor Interval:									
		47.45 47.54	SDBX	Sudbury Breccia							1C4
47.54	59.19	MGN Mafic Gneiss									
		medium to coarse grained, banded									
		Mineralization Maj. :	Type/Style/%Mineral	Comment							
		47.54 - 59.19	PY BL 0.2								
		Minor Interval:									
		56.91 57.81	SDBX	Sudbury Breccia							1C4
59.19	67.80	IGN Intermediate Gneiss									

LITHOLOGY REPORT
- Detailed -

Hole Number **WIS-206**

Project: **BROKEN_HAMMER_NRJV**

Project Number: **263**

<i>From</i> (m)	<i>To</i> (m)	<i>Lithology</i>	<i>Sample #</i>	<i>From</i>	<i>To</i>	<i>Length</i>	<i>Au</i> (g/t)	<i>Pt</i> (g/t)	<i>Pd</i> (g/t)	<i>Ni</i> (%)	<i>Cu</i> (%)
		medium to coarse grained, banded									
		Alteration Maj: Type/Style/Intensity Comment									
		59.19 - 67.80 HE P W									
		Mineralization Maj. : Type/Style/%Mineral Comment									
		59.19 - 67.80 PY BL 0.1									
		Minor Interval:									
		65.00 65.20 SDBX <i>Sudbury Breccia</i>				1C3					
67.80	77.43	MGN Mafic Gneiss									
		medium to coarse grained, banded. 10% SDBX									
		Mineralization Maj. : Type/Style/%Mineral Comment									
		67.80 - 77.43 PY FF 0.1									
		67.80 - 77.43 PY BL 0.1									
		Minor Interval:									
		68.58 68.72 SDBX <i>Sudbury Breccia</i>				2C3					
		Minor Interval:									
		71.58 72.48 SDBX <i>Sudbury Breccia</i>				1C4					
		Minor Interval:									
		75.46 75.75 PEG <i>Pegmatite</i>									
		Minor Interval:									
		76.16 76.45 SDBX <i>Sudbury Breccia</i>				2C2					
77.43	81.32	IGN Intermediate Gneiss									
		medium to coarse grained, banded. 5%SDBX									
		Alteration Maj: Type/Style/Intensity Comment									

LITHOLOGY REPORT
- Detailed -

Hole Number **WIS-206**

Project: **BROKEN_HAMMER_NRJV**

Project Number: **263**

<i>From</i> (m)	<i>To</i> (m)	<i>Lithology</i>	<i>Sample #</i>	<i>From</i>	<i>To</i>	<i>Length</i>	<i>Au</i> (g/t)	<i>Pt</i> (g/t)	<i>Pd</i> (g/t)	<i>Ni</i> (%)	<i>Cu</i> (%)
	78.53 - 79.00	EP FF S									
	78.53 - 79.00	HE P MS									
	80.15 - 81.32	HE PCH S									
	Mineralization Maj. :	Type/Style/%Mineral	Comment								
	77.43 - 81.32	PY BL 0.1									
	Minor Interval:										
	79.67	79.70	SDBX	<i>Sudbury Breccia</i>		2C4					
	Minor Interval:										
	79.83	80.15	DIA	<i>Diabase</i>							
	Minor Interval:										
	80.15	81.32	SDBX	<i>Sudbury Breccia</i>		2C4					
				with larger felsic clasts							
81.32	90.91	DIA	Diabase								
		with 5 % SDBX									
	Alteration Maj:	Type/Style/Intensity	Comment								
	83.34 - 83.49	Carb FF S									
	84.22 - 84.82	EP FF S									
	84.22 - 84.82	Carb FF S									
	85.48 - 85.56	EP FF S									
	86.00 - 87.77	EP FF S									
	87.77 - 89.18	HE FF S									
	87.77 - 89.18	EP FF MS									
	87.77 - 89.18	Carb VN S									
	87.77 - 89.18	Qtz VN S									

LITHOLOGY REPORT
- Detailed -

Hole Number **WIS-206**

Project: **BROKEN_HAMMER_NRJV**

Project Number: **263**

<i>From</i> (m)	<i>To</i> (m)	<i>Lithology</i>	<i>Sample #</i>	<i>From</i>	<i>To</i>	<i>Length</i>	<i>Au</i> (g/t)	<i>Pt</i> (g/t)	<i>Pd</i> (g/t)	<i>Ni</i> (%)	<i>Cu</i> (%)
		Mineralization Maj. :	Type/Style/%Mineral	Comment							
		81.32 - 90.91	PY BL 0.1								
		Minor Interval:									
		82.04 82.13	SDBX								
											1C3
		Minor Interval:									
		82.26 82.58	SDBX								
											2C4
		Minor Interval:									
		83.58 83.81	SDBX								
											2C4
90.91	101.78	SDBX	Sudbury Breccia								2C2
		Mineralization Maj. :	Type/Style/%Mineral	Comment							
		100.82 - 101.78	PY BL 0.1								
101.78	103.08	DIOR	Diorite								
		coarse grained mafic with quartz and feldspar, peppered with PY.									
		Mineralization Maj. :	Type/Style/%Mineral	Comment							
		101.78 - 103.08	PY FF 0.1								
		101.78 - 103.08	PY BL 0.1								
103.08	109.87	SDBX	Sudbury Breccia								1C3

LITHOLOGY REPORT
- Detailed -

Hole Number **WIS-206**

Project: **BROKEN_HAMMER_NRJV**

Project Number: **263**

<i>From</i> (m)	<i>To</i> (m)	<i>Lithology</i>		<i>Sample #</i>	<i>From</i>	<i>To</i>	<i>Length</i>	<i>Au</i> (g/t)	<i>Pt</i> (g/t)	<i>Pd</i> (g/t)	<i>Ni</i> (%)	<i>Cu</i> (%)
		Alteration Maj:	Type/Style/Intensity	Comment								
		107.56 - 107.60	EP VN S	3mm wide epidote stringer								
		Mineralization Maj. :	Type/Style/%Mineral	Comment								
		103.08 - 109.87	PY BL 0.1									
		Minor Interval:										
		103.85 104.16	PEG	<i>Pegmatite</i>								
		Minor Interval:										
		105.36 105.42	DIA	<i>Diabase</i>								
		Minor Interval:										
		106.58 106.77	DIA	<i>Diabase</i>								
		Minor Interval:										
		108.94 109.44	MCQMON	<i>Megacrystic Quartz Monzonite</i>								
109.87	119.24	MDIA	<i>Matachewan Diabase</i>									
		Alteration Maj:	Type/Style/Intensity	Comment								
		109.87 - 119.24	EP FF WM									
		117.06 - 117.14	Carb VN S									
		117.06 - 117.14	Qtz VN S									
		Minor Interval:										
		110.56 111.03	SDBX	<i>Sudbury Breccia</i>			2C3					
119.24	130.65	MCQMON	<i>Megacrystic Quartz Monzonite</i>									
		Alteration Maj:	Type/Style/Intensity	Comment								

LITHOLOGY REPORT
- Detailed -

Hole Number **WIS-206**

Project: **BROKEN_HAMMER_NRJV**

Project Number: **263**

<i>From</i> (m)	<i>To</i> (m)	<i>Lithology</i>	<i>Sample #</i>	<i>From</i>	<i>To</i>	<i>Length</i>	<i>Au</i> (g/t)	<i>Pt</i> (g/t)	<i>Pd</i> (g/t)	<i>Ni</i> (%)	<i>Cu</i> (%)
	119.24 - 130.65	EP PCH M									
	119.24 - 130.65	HE P M									
	Minor Interval:										
	126.50 - 128.00	GC broken/ground core									
130.65	136.09	SDBX <i>Sudbury Breccia</i>				1C3					
		Alteration Maj: <i>Type/Style/Intensity</i> <i>Comment</i>									
	134.77 - 134.89	EP P MS									
		Mineralization Maj. : <i>Type/Style/%Mineral</i> <i>Comment</i>									
	130.65 - 136.09	PY BL 0.1									
	Minor Interval:										
	131.05 - 131.62	MCQMON <i>Megacrystic Quartz Monzonite</i>									
	Minor Interval:										
	132.39 - 133.17	MGN <i>Mafic Gneiss</i>									
	Minor Interval:										
	134.14 - 134.39	IGN <i>Intermediate Gneiss</i>									
	Minor Interval:										
	134.77 - 134.89	PEG <i>Pegmatite</i>									
136.09	137.82	QMON <i>Quartz Monzonite</i>									

LITHOLOGY REPORT
- Detailed -

Hole Number **WIS-206**

Project: **BROKEN_HAMMER_NRJV**

Project Number: **263**

<i>From</i> (m)	<i>To</i> (m)	<i>Lithology</i>	<i>Sample #</i>	<i>From</i>	<i>To</i>	<i>Length</i>	<i>Au</i> (g/t)	<i>Pt</i> (g/t)	<i>Pd</i> (g/t)	<i>Ni</i> (%)	<i>Cu</i> (%)
137.82	151.69	SDBX <i>Sudbury Breccia</i>	1C3								
		1C3 to 1C4	R232160	142.36	143.42	1.06	0.00	0.00	0.00	0.00	0.01
			R232161	143.42	144.50	1.08	0.00	0.01	0.01	0.02	0.01
		Alteration Maj: <i>Type/Style/Intensity</i> <i>Comment</i>	R232162	144.50	145.54	1.04	0.00	0.00	0.00	0.01	0.01
		143.44 - 145.08 EP FF MS	R232163	145.54	146.40	0.86	0.00	0.01	0.01	0.01	0.01
		143.44 - 145.08 EP P MS	R232164	146.40	147.05	0.65	0.00	0.00	0.00	0.00	0.00
		Mineralization Maj. : <i>Type/Style/%Mineral</i> <i>Comment</i>									
		143.44 - 145.08 CP FF 0.1									
		143.44 - 145.08 PY BL 0.1									
		Minor Interval:									
		139.32 140.35 MCQMON <i>Megacrystic Quartz Monzonite</i>									
		Minor Interval:									
		140.79 141.10 MCQMON <i>Megacrystic Quartz Monzonite</i>									
		Minor Interval:									
		141.22 141.53 MCQMON <i>Megacrystic Quartz Monzonite</i>									
		Minor Interval:									
		141.64 141.82 MCQMON <i>Megacrystic Quartz Monzonite</i>									
		Minor Interval:									
		143.44 145.08 MGN <i>Mafic Gneiss</i> PY and trace CPY within MGN clast									
		Minor Interval:									
		146.41 147.25 QMON <i>Quartz Monzonite</i>									
		Minor Interval:									
		147.96 149.11 MCQMON <i>Megacrystic Quartz Monzonite</i>									

LITHOLOGY REPORT
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Hole Number **WIS-206**

Project: **BROKEN_HAMMER_NRJV**

Project Number: **263**

<i>From</i> (m)	<i>To</i> (m)	<i>Lithology</i>		<i>Sample #</i>	<i>From</i>	<i>To</i>	<i>Length</i>	<i>Au</i> (g/t)	<i>Pt</i> (g/t)	<i>Pd</i> (g/t)	<i>Ni</i> (%)	<i>Cu</i> (%)	
		Minor Interval:											
	149.48	149.72	GR	Granite									
			Minor Interval:										
	150.66	151.53	QMON	Quartz Monzonite									
151.69	162.09	MCQMON	Megacrystic Quartz Monzonite										
		Alteration Maj:	Type/Style/Intensity	Comment									
	151.69 - 162.09		HE P WM										
	151.69 - 162.09		EP PCH W										
162.09	169.46	SDBX	Sudbury Breccia		1C4	R232165	169.10	169.49	0.39	0.00	0.00	0.00	0.00
			1C4 to 2C3										
		Minor Interval:											
	162.55	164.02	DIA	Diabase									
			Minor Interval:										
	165.12	165.67	DIOR	Diorite									
			Minor Interval:										
	166.63	168.09	DIOR	Diorite									
			Minor Interval:										
	168.09	169.46	DIOR	Diorite									
			interfingered with SDBX										

LITHOLOGY REPORT
- Detailed -

Hole Number **WIS-206**

Project: **BROKEN_HAMMER_NRJV**

Project Number: **263**

<i>From</i> (m)	<i>To</i> (m)	<i>Lithology</i>	<i>Sample #</i>	<i>From</i>	<i>To</i>	<i>Length</i>	<i>Au</i> (g/t)	<i>Pt</i> (g/t)	<i>Pd</i> (g/t)	<i>Ni</i> (%)	<i>Cu</i> (%)
169.46	194.66	QMON <i>Quartz Monzonite</i>	R232166	169.49	169.88	0.39	0.00	0.00	0.00	0.00	0.00
		coarse grained but not megacrystic. First and last metre are more medium grained and more strongly hematized.	R232167	169.88	170.33	0.45	0.00	0.00	0.00	0.00	0.00
		Alteration Maj:									
		Type/Style/Intensity	Comment								
		169.46 - 170.46	HE P S								
		171.56 - 171.65	HE FF S								
		171.56 - 171.65	EP FF S								
		171.56 - 171.65	Carb VN S								
		171.56 - 171.65	Qtz VN S								
		193.66 - 194.66	HE P S								
194.66	199.34	SDBX <i>Sudbury Breccia</i>									
		1C3 to 2C4									
		Alteration Maj:									
		Type/Style/Intensity	Comment								
		194.66 - 199.34	EP FF M								
		Minor Interval:									
		195.15 195.90	DIA								
		Minor Interval:									
		195.90 196.47	MCQMON								
		Minor Interval:									
		197.65 198.15	FGN								

LITHOLOGY REPORT
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Hole Number **WIS-206**

Project: **BROKEN_HAMMER_NRJV**

Project Number: **263**

<i>From</i> (m)	<i>To</i> (m)	<i>Lithology</i>		<i>Sample #</i>	<i>From</i>	<i>To</i>	<i>Length</i>	<i>Au</i> (g/t)	<i>Pt</i> (g/t)	<i>Pd</i> (g/t)	<i>Ni</i> (%)	<i>Cu</i> (%)
199.34	200.00	GR	Granite									
		Alteration Maj:	Type/Style/Intensity	Comment								
		199.34 - 200.00	HE P S									

DRILL HOLE REPORT

 Hole Number **WIS-207**

 Project: **WISNER_WEST NRJV**

 Project Number: **674**

Drilling	Casing	Core	Location	Other
Azimuth: 360	Length: 0	Dimension: NQ	Township: WISNER	Logged by: Eilidh Lewis
Dip: -45	Pulled: no	Storage: Core Shed	Claim No.: S1229369	Relog by:
Length: 227.09	Capped: yes	Section:	NTS:	Contractor: Jacob & Samuel Drilling Ltd.
Started: 18-Apr-15	Cemented: no	Hole Type DD	Hole: SURFACE	Spotted by: Tom Johnson
Completed: 23-Apr-15				Surveyed:
Logged: 21-Apr-15				Surveyed by:
Comment:				Geophysics: None
		Coordinate - Gemcom	Coordinate - UTM	Geophysic Contractor:
		East: 496905	East: 496905	Left in hole: Nothing
		North: 5178825	North: 5178720	Making water: no
		Elev.: 420	Elev.: 400	Multi shot survey: no
			Zone: 17 NAD: 27	

Deviation Tests

Distance	Azimuth	Dip	Type	Good	Comments
0.00	360.00	-45.00	C	<input checked="" type="checkbox"/>	
17.00	0.60	-46.70	F	<input checked="" type="checkbox"/>	mag=5517
68.00	4.80	-46.20	F	<input checked="" type="checkbox"/>	mag=5492
119.00	4.30	-45.70	F	<input checked="" type="checkbox"/>	mag=5346
170.00	2.70	-45.50	F	<input checked="" type="checkbox"/>	mag=5425
221.00	5.70	-45.10	F	<input checked="" type="checkbox"/>	mag=5482

LITHOLOGY REPORT
- Detailed -

Hole Number **WIS-207**

Project: **WISNER_WEST NRJV**

Project Number: **674**

<i>From</i> (m)	<i>To</i> (m)	<i>Lithology</i>		<i>Sample #</i>	<i>From</i>	<i>To</i>	<i>Length</i>	<i>Au</i> (g/t)	<i>Pt</i> (g/t)	<i>Pd</i> (g/t)	<i>Ni</i> (%)	<i>Cu</i> (%)
0.00	1.78	CAS	Casing									
1.78	2.43	SDBX	Sudbury Breccia				1C4					
2.43	7.18	FGN	Felsic Gneiss medium to coarse grained, banded									
7.18	14.57	MGN	Mafic Gneiss medium to coarse grained, banded									
		Mineralization Maj. :										
		7.18 - 14.57										
		Type/Style/%Mineral										
		PY BL 0.1										
		Comment										
		Minor Interval:										
		9.22	9.34	SDBX	Sudbury Breccia		1C4					

LITHOLOGY REPORT
- Detailed -

Hole Number **WIS-207**

Project: **WISNER_WEST NRJV**

Project Number: **674**

<i>From</i> (m)	<i>To</i> (m)	<i>Lithology</i>	<i>Sample #</i>	<i>From</i>	<i>To</i>	<i>Length</i>	<i>Au</i> (g/t)	<i>Pt</i> (g/t)	<i>Pd</i> (g/t)	<i>Ni</i> (%)	<i>Cu</i> (%)
		Minor Interval:									
	10.42	10.84	SDBX	<i>Sudbury Breccia</i>		1C4					
		Minor Interval:									
	14.14	14.36	DIA	<i>Diabase</i>							
14.57	17.02	IGN	<i>Intermediate Gneiss</i>								
		medium to coarse grained, banded									
		<i>Alteration Maj:</i>	<i>Type/Style/Intensity</i>	<i>Comment</i>							
		14.57 - 17.02	HE P MS								
		<i>Mineralization Maj. :</i>	<i>Type/Style/%Mineral</i>	<i>Comment</i>							
		14.57 - 17.02	PY BL 0.1								
17.02	18.39	SDBX	<i>Sudbury Breccia</i>			1AC4					
		<i>Alteration Maj:</i>	<i>Type/Style/Intensity</i>	<i>Comment</i>							
		17.02 - 17.58	HE P S								
		<i>Mineralization Maj. :</i>	<i>Type/Style/%Mineral</i>	<i>Comment</i>							
		17.02 - 18.39	PY BL 0.1								
		Minor Interval:									
	17.02	17.58	MCQMON	<i>Megacrystic Quartz Monzonite</i>							
		interfingered with small SDBX stringers									
18.39	59.12	IGN	<i>Intermediate Gneiss</i>								
		medium to coarse grained, banded									
		<i>Alteration Maj:</i>	<i>Type/Style/Intensity</i>	<i>Comment</i>							

LITHOLOGY REPORT
- Detailed -

Hole Number **WIS-207**

Project: **WISNER_WEST NRJV**

Project Number: **674**

<i>From</i> (m)	<i>To</i> (m)	<i>Lithology</i>	<i>Sample #</i>	<i>From</i>	<i>To</i>	<i>Length</i>	<i>Au</i> (g/t)	<i>Pt</i> (g/t)	<i>Pd</i> (g/t)	<i>Ni</i> (%)	<i>Cu</i> (%)
	25.30 - 25.37	EP FF S									
	34.00 - 35.00	HE P S									
	49.97 - 50.77	HE P S									
	Mineralization Maj. :	Type/Style/%Mineral	Comment								
	18.39 - 59.12	PY BL 0.1									
	Minor Interval:										
	19.57 - 19.67	SDBX	<i>Sudbury Breccia</i>			1D4					
	Minor Interval:										
	25.11 - 25.19	SDBX	<i>Sudbury Breccia</i>			2C4					
	Minor Interval:										
	26.90 - 27.20	SDBX	<i>Sudbury Breccia</i>			1C4					
	Minor Interval:										
	33.99 - 34.11	SDBX	<i>Sudbury Breccia</i>			2D4					
	Minor Interval:										
	44.96 - 45.71	SDBX	<i>Sudbury Breccia</i> partial melting at the margins			2AC4					
	Minor Interval:										
	50.00 - 50.04	SDBX	<i>Sudbury Breccia</i>			3AC4					
	Minor Interval:										
	54.22 - 54.38	PEG	<i>Pegmatite</i>								
59.12	70.46	FGN	<i>Felsic Gneiss</i> medium to coarse grained, banded								
	Alteration Maj:	Type/Style/Intensity	Comment								
	61.55 - 61.81	HE P S									
	67.75 - 68.10	HE P S									

LITHOLOGY REPORT
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Hole Number **WIS-207**

Project: **WISNER_WEST NRJV**

Project Number: **674**

<i>From</i> (m)	<i>To</i> (m)	<i>Lithology</i>	<i>Sample #</i>	<i>From</i>	<i>To</i>	<i>Length</i>	<i>Au</i> (g/t)	<i>Pt</i> (g/t)	<i>Pd</i> (g/t)	<i>Ni</i> (%)	<i>Cu</i> (%)
		Minor Interval:									
	68.34	68.67	SDBX	<i>Sudbury Breccia</i>		1AC4					
		Minor Interval:									
	69.00	69.08	SDBX	<i>Sudbury Breccia</i>		2C3					
70.46	75.28	DIA	Diabase								
		Mineralization Maj. :	Type/Style/%Mineral	Comment							
	70.46 - 75.28		PY BL 0.1	trace							
		Minor Interval:									
	70.46	70.53	SDBX	<i>Sudbury Breccia</i>		1C4					
		Minor Interval:									
	70.82	71.00	SDBX	<i>Sudbury Breccia</i>		1C4					
		Minor Interval:									
	71.33	72.27	SDBX	<i>Sudbury Breccia</i>		1C4					
75.28	77.19	IGN	Intermediate Gneiss								
		medium to coarse grained, banded									
		Alteration Maj.:	Type/Style/Intensity	Comment							
	76.65 - 76.94		EP PCH M								
		Mineralization Maj. :	Type/Style/%Mineral	Comment							
	75.28 - 77.19		PY BL 0.1								
		Minor Interval:									

LITHOLOGY REPORT
- Detailed -

Hole Number **WIS-207**

Project: **WISNER_WEST NRJV**

Project Number: **674**

<i>From</i> (m)	<i>To</i> (m)	<i>Lithology</i>		<i>Sample #</i>	<i>From</i>	<i>To</i>	<i>Length</i>	<i>Au</i> (g/t)	<i>Pt</i> (g/t)	<i>Pd</i> (g/t)	<i>Ni</i> (%)	<i>Cu</i> (%)
	76.65	76.94	PEG									
			<i>Pegmatite</i>									
77.19	79.40	SDBX	Sudbury Breccia	1AC4								
		Alteration Maj:	Type/Style/Intensity	Comment								
		77.19 - 79.40	EP FF W									
		Mineralization Maj. :	Type/Style/%Mineral	Comment								
		77.19 - 79.40	PY BL 0.1									
		Minor Interval:										
	78.10	79.00	DIA									
			<i>Diabase</i>									
79.40	83.88	MGN	Mafic Gneiss									
			medium to coarse grained, banded									
		Alteration Maj:	Type/Style/Intensity	Comment								
		79.40 - 83.88	HE PCH W									
		79.40 - 83.88	EP FF M									
		Mineralization Maj. :	Type/Style/%Mineral	Comment								
		79.40 - 83.88	PY BL 0.2									
83.88	91.27	IGN	Intermediate Gneiss									
			medium to coarse grained, banded									
		Alteration Maj:	Type/Style/Intensity	Comment								
		83.88 - 91.27	HE PCH W									
		Mineralization Maj. :	Type/Style/%Mineral	Comment								

LITHOLOGY REPORT
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Hole Number **WIS-207**

Project: **WISNER_WEST NRJV**

Project Number: **674**

<i>From</i> (m)	<i>To</i> (m)	<i>Lithology</i>	<i>Sample #</i>	<i>From</i>	<i>To</i>	<i>Length</i>	<i>Au</i> (g/t)	<i>Pt</i> (g/t)	<i>Pd</i> (g/t)	<i>Ni</i> (%)	<i>Cu</i> (%)
	83.88 - 91.27	PY BL 0.1									
	Minor Interval:										
	83.88 84.00	SDBX Sudbury Breccia				2AC4					
	Minor Interval:										
	84.32 84.77	SDBX Sudbury Breccia				2AC4					
	Minor Interval:										
	86.41 86.70	SDBX Sudbury Breccia partial melting				2AC4					
91.27	96.66	MCQMON <i>Megacrystic Quartz Monzonite</i> large quartz and feldspar crystals									
	Minor Interval:										
	91.66 91.81	SDBX Sudbury Breccia				2C4					
	Minor Interval:										
	95.05 95.19	PEG Pegmatite									
96.66	101.14	SDBX <i>Sudbury Breccia</i> 2AC4 to 3AC5				2AC4					
	Mineralization Maj. :	Type/Style/%Mineral	Comment								
	98.18 - 99.41	PY BL 0.1									
	98.18 - 99.41	PY FF 0.1									
	Minor Interval:										
	96.66 97.62	MGN <i>Mafic Gneiss</i>									

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Hole Number **WIS-207**

Project: **WISNER_WEST NRJV**

Project Number: **674**

<i>From</i> (m)	<i>To</i> (m)	<i>Lithology</i>	<i>Sample #</i>	<i>From</i>	<i>To</i>	<i>Length</i>	<i>Au</i> (g/t)	<i>Pt</i> (g/t)	<i>Pd</i> (g/t)	<i>Ni</i> (%)	<i>Cu</i> (%)
		Minor Interval:									
		97.70 98.18 MGN									
		<i>Mafic Gneiss</i>									
		Minor Interval:									
		99.41 101.00 MGN									
		<i>Mafic Gneiss</i>									
101.14	125.90	IGN <i>Intermediate Gneiss</i>									
		medium to coarse grained									
		Alteration Maj:									
		Type/Style/Intensity									
		Comment									
		102.00 - 102.21		HE	P	W					
		102.00 - 102.21		EP	P	MS					
		107.66 - 107.94		HE	P	M					
		107.66 - 107.94		EP	P	S					
		Minor Interval:									
		118.74 118.83 SDBX									
		<i>Sudbury Breccia</i>									
		2AC4									
		Minor Interval:									
		120.00 120.24 SDBX									
		<i>Sudbury Breccia</i>									
		2AC4									
		Minor Interval:									
		123.17 124.70 DIA									
		<i>Diabase</i>									
		Minor Interval:									
		106.51 106.59 PEG									
		<i>Pegmatite</i>									
125.90	134.16	QMON <i>Quartz Monzonite</i>									
		coarse grained quartz and feldspar									

LITHOLOGY REPORT
- Detailed -

Hole Number **WIS-207**

Project: **WISNER_WEST NRJV**

Project Number: **674**

<i>From</i> (m)	<i>To</i> (m)	<i>Lithology</i>	<i>Sample #</i>	<i>From</i>	<i>To</i>	<i>Length</i>	<i>Au</i> (g/t)	<i>Pt</i> (g/t)	<i>Pd</i> (g/t)	<i>Ni</i> (%)	<i>Cu</i> (%)
		Minor Interval: 126.58 126.74 MDIA <i>Matachewan Diabase</i>									
		Minor Interval: 129.70 129.80 SDBX <i>Sudbury Breccia</i>	2AC4								
134.16	138.74	SDBX <i>Sudbury Breccia</i>	1AC4								
		Alteration Maj: <i>Type/Style/Intensity</i> Comment									
		134.16 - 138.74 HE PCH WM									
		134.16 - 138.74 EP PCH W									
		Mineralization Maj. : <i>Type/Style/%Mineral</i> Comment									
		134.16 - 138.74 PY BL 0.1 trace									
		Minor Interval: 134.36 134.93 MGN <i>Mafic Gneiss</i>									
		Minor Interval: 135.35 135.51 PEG <i>Pegmatite</i>									
		Minor Interval: 135.73 136.02 MCQMON <i>Megacrystic Quartz Monzonite</i>									
		Minor Interval: 136.58 137.13 DIA <i>Diabase</i>									
		Minor Interval: 137.94 138.51 QMON <i>Quartz Monzonite</i>									
138.74	146.06	QMON <i>Quartz Monzonite</i>	R232170	143.65	144.18	0.53	0.00	0.00	0.00	0.00	0.00
		coarse grained quartz and feldspar	R232171	144.18	144.72	0.54	0.00	0.00	0.00	0.00	0.00
		Alteration Maj: <i>Type/Style/Intensity</i> Comment	R232172	144.72	145.31	0.59	0.00	0.00	0.00	0.00	0.00
		144.18 - 144.38 CHL FF S	R232173	145.31	146.09	0.78	0.00	0.00	0.00	0.00	0.00

LITHOLOGY REPORT
- Detailed -
Hole Number **WIS-207**Project: **WISNER_WEST NRJV**Project Number: **674**

<i>From</i> (m)	<i>To</i> (m)	<i>Lithology</i>	<i>Sample #</i>	<i>From</i>	<i>To</i>	<i>Length</i>	<i>Au</i> (g/t)	<i>Pt</i> (g/t)	<i>Pd</i> (g/t)	<i>Ni</i> (%)	<i>Cu</i> (%)	
	144.18 - 144.38	EP PCH MS										
	145.32 - 145.70	HE P S										
	145.97 - 145.98	Carb VN S										
	Mineralization Maj. :	Type/Style/%Mineral	Comment									
	144.18 - 144.58	PY FF 0.1										
	Minor Interval:											
	144.18	144.38	SDBX	<i>Sudbury Breccia</i>	2C4							
146.06	149.22	SDBX	<i>Sudbury Breccia</i>	3C4	R232174	146.09	147.27	1.18	0.00	0.00	0.00	0.00
		highly altered, carb stringers			R232175	147.27	148.33	1.06	0.00	0.00	0.00	0.00
		Alteration Maj:	Type/Style/Intensity	Comment	R232176	148.33	149.22	0.89	0.00	0.00	0.00	0.00
	146.06 - 149.22	HE PCH S										
	146.06 - 149.22	EP PCH M										
	146.06 - 149.22	Carb VN S										
	Structure Maj.:	Type/Core Angle	Comment									
	147.69 - 148.25	FLT	core rubbly and broken									
149.22	200.27	MCQMON	<i>Megacrystic Quartz Monzonite</i>		R232177	149.22	149.74	0.52	0.00	0.00	0.00	0.00
		very coarse grained quartz and feldspar			R232178	149.74	150.47	0.73	0.00	0.00	0.00	0.00
		Alteration Maj:	Type/Style/Intensity	Comment								
	177.00 - 184.00	EP FF S										
	177.00 - 184.00	EP PCH S										

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Hole Number **WIS-207**

Project: **WISNER_WEST NRJV**

Project Number: **674**

<i>From</i> (m)	<i>To</i> (m)	<i>Lithology</i>	<i>Sample #</i>	<i>From</i>	<i>To</i>	<i>Length</i>	<i>Au</i> (g/t)	<i>Pt</i> (g/t)	<i>Pd</i> (g/t)	<i>Ni</i> (%)	<i>Cu</i> (%)
	193.33 - 195.07	EP PCH S									
	Mineralization Maj. :	Type/Style/%Mineral	Comment								
	155.00 - 156.00	PY FF 0.1									
	Minor Interval:										
	164.40 - 165.07	SDBX	<i>Sudbury Breccia</i>			2C4					
	Minor Interval:										
	165.80 - 166.26	SDBX	<i>Sudbury Breccia</i>			2C4					
	Minor Interval:										
	170.39 - 170.53	SDBX	<i>Sudbury Breccia</i>			2C4					
	Minor Interval:										
	170.87 - 171.68	SDBX	<i>Sudbury Breccia</i>			2C4					
	Minor Interval:										
	180.24 - 180.44	SDBX	<i>Sudbury Breccia</i>			1C4					
	Minor Interval:										
	198.64 - 198.97	SDBX	<i>Sudbury Breccia</i>			1C4					
200.27	206.74	DIA	Diabase								
		strongly altered at the contacts									
	Alteration Maj:	Type/Style/Intensity	Comment								
	200.27 - 200.65	EP FF S									
	201.73 - 206.51	Carb FF S	several 2mm stringers								
	206.51 - 206.74	Carb VN S									
	206.51 - 206.74	Qtz VN S									
	206.51 - 206.74	EP FF S									

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Hole Number **WIS-207**

Project: **WISNER_WEST NRJV**

Project Number: **674**

<i>From</i> (m)	<i>To</i> (m)	<i>Lithology</i>	<i>Sample #</i>	<i>From</i>	<i>To</i>	<i>Length</i>	<i>Au</i> (g/t)	<i>Pt</i> (g/t)	<i>Pd</i> (g/t)	<i>Ni</i> (%)	<i>Cu</i> (%)
206.74	222.38	MCQMON <i>Megacrystic Quartz Monzonite</i> large quartz and feldspar									
		Alteration Maj: <i>Type/Style/Intensity</i> Comment									
		209.00 - 217.50 EP FF M network of small <3mm epidote stringers									
		Minor Interval:									
		215.04 215.66 SDBX <i>Sudbury Breccia</i> 1C4									
222.38	224.94	DIA <i>Diabase</i>									
		Alteration Maj: <i>Type/Style/Intensity</i> Comment									
		222.38 - 224.94 Qtz VN M									
		222.38 - 224.94 Carb VN S									
		222.38 - 224.94 EP VN M									
224.94	227.09	MCQMON <i>Megacrystic Quartz Monzonite</i>									
		Alteration Maj: <i>Type/Style/Intensity</i> Comment									
		225.13 - 225.26 EP VN S 4 mm epidote stringer									

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- Detailed -

Hole Number **WIS-207**

Project: **WISNER_WEST NRJV**

Project Number: **674**

<i>From</i> <i>(m)</i>	<i>To</i> <i>(m)</i>	<i>Lithology</i>	<i>Sample #</i>	<i>From</i>	<i>To</i>	<i>Length</i>	<i>Au</i> <i>(g/t)</i>	<i>Pt</i> <i>(g/t)</i>	<i>Pd</i> <i>(g/t)</i>	<i>Ni</i> <i>(%)</i>	<i>Cu</i> <i>(%)</i>
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227.09	0.00	EOH									
		<i>End of Hole</i>									

DRILL HOLE REPORT

 Hole Number **WIS-208**

 Project: **WISNER_GLENCORE NRJV**

 Project Number: **642**

Drilling	Casing	Core	Location	Other
Azimuth: 356.7	Length: 0	Dimension: NQ	Township: WISNER	Logged by: Eilidh Lewis
Dip: -44.4	Pulled: no	Storage: Core Shed	Claim No.: 984615	Relog by:
Length: 332	Capped: yes	Section:	NTS:	Contractor: Jacob & Samuel Drilling Ltd.
Started: 23-Apr-15	Cemented: no	Hole Type DD	Hole: SURFACE	Spotted by: Tom Johnson
Completed: 29-Apr-15				Surveyed: yes
Logged: 30-Apr-15				Surveyed by: Dave Coventry
Comment: Collar DGPS-ed				Geophysics: UTEM
		Coordinate - Gemcom	Coordinate - UTM	Geophysic Contractor: Lamontagne
		East: 494327.5	East: 494325	Left in hole: Nothing
		North: 5178067	North: 5178665	Making water: no
		Elev.: 367.4	Elev.: 365	Multi shot survey: no
			Zone: 17 NAD: 27	

Deviation Tests

<i>Distance</i>	<i>Azimuth</i>	<i>Dip</i>	<i>Type</i>	<i>Good</i>	<i>Comments</i>
0.00	356.70	-44.40	C	<input checked="" type="checkbox"/>	
23.00	356.70	-44.40	F	<input checked="" type="checkbox"/>	mag=5593
74.00	356.10	-43.60	F	<input checked="" type="checkbox"/>	mag=5545
125.00	356.50	-42.80	F	<input checked="" type="checkbox"/>	mag=5517
176.00	357.50	-42.50	F	<input checked="" type="checkbox"/>	mag=5401
227.00	356.20	-42.20	F	<input checked="" type="checkbox"/>	mag=5493
278.00	356.50	-41.70	F	<input checked="" type="checkbox"/>	mag=5480
329.00	354.10	-41.50	F	<input checked="" type="checkbox"/>	mag=5597

LITHOLOGY REPORT
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Hole Number **WIS-208**

Project: **WISNER_GLENCORE NRJV**

Project Number: **642**

<i>From</i> (m)	<i>To</i> (m)	<i>Lithology</i>		<i>Sample #</i>	<i>From</i>	<i>To</i>	<i>Length</i>	<i>Au</i> (g/t)	<i>Pt</i> (g/t)	<i>Pd</i> (g/t)	<i>Ni</i> (%)	<i>Cu</i> (%)
0.00	4.39	CAS	Casing									
4.39	103.42	IGN	Intermediate Gneiss	R232181	45.94	47.00	1.06	0.00	0.00	0.00	0.01	0.01
			fine grained mafic bands with medium to coarse grained bands with quartz and feldspar. Strong prevasive replacement biotite and chlorite alteration throughout most of the unit.	R232182	47.00	47.82	0.82	0.00	0.00	0.00	0.01	0.01
				R232183	47.82	48.88	1.06	0.00	0.00	0.00	0.01	0.01
		Alteration Maj:	Type/Style/Intensity	Comment	R232184	71.77	72.22	0.45	0.00	0.00	0.01	0.01
			4.39 - 46.55	CHL P MS	R232185	72.22	72.68	0.46	0.00	0.00	0.01	0.01
			4.39 - 46.55	BIO P MS	R232186	72.68	73.13	0.45	0.00	0.00	0.01	0.00
			46.55 - 51.38	CHL P I								
			46.55 - 51.38	BIO P I								
			72.37 - 72.54	EP VN S								
			72.37 - 72.54	Qtz VN S								
			91.50 - 92.32	HE P S								
			96.71 - 96.73	Qtz VN S								
			101.82 - 102.00	Qtz VN S								
			101.82 - 102.00	EP INT MS								
		Mineralization Maj. :	Type/Style/%Mineral	Comment								
			72.37 - 72.54	CP BL 0.1								
			72.37 - 72.54	PY BL 0.1								

LITHOLOGY REPORT
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Hole Number **WIS-208**

Project: **WISNER_GLENCORE NRJV**

Project Number: **642**

<i>From</i> (m)	<i>To</i> (m)	<i>Lithology</i>	<i>Sample #</i>	<i>From</i>	<i>To</i>	<i>Length</i>	<i>Au</i> (g/t)	<i>Pt</i> (g/t)	<i>Pd</i> (g/t)	<i>Ni</i> (%)	<i>Cu</i> (%)
		Minor Interval:									
	129.12	0.00									
		Minor Interval:									
	17.08	18.70	FLT								
		Healed fault/fault breccia									
		Minor Interval:									
	15.32	15.74	FGN								
		Felsic Gneiss									
		Minor Interval:									
	21.02	21.32	PEG								
		Pegmatite									
		Minor Interval:									
	23.04	23.26	PEG								
		Pegmatite									
		Minor Interval:									
	25.16	25.69	PEG								
		Pegmatite									
		Minor Interval:									
	91.50	92.32	FLT								
		Fault									
		healed fault/fault breccia, clay/gouge material, partially carb filled with PY blebs									
		Minor Interval:									
	99.10	99.84	QTZ								
		Quartz Vein									
103.42	109.83	DIA	Diabase								
		fine grained									
		Alteration Maj:	Type/Style/Intensity	Comment							
	104.25	105.45	HE P S								
		Mineralization Maj. :	Type/Style/%Mineral	Comment							
	105.00	105.21	PY DIS 0.5								
		Structure Maj.:	Type/Core Angle	Comment							
	104.00	104.25	BC								

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- Detailed -

Hole Number **WIS-208**

Project: **WISNER_GLENCORE NRJV**

Project Number: **642**

<i>From</i> (m)	<i>To</i> (m)	<i>Lithology</i>		<i>Sample #</i>	<i>From</i>	<i>To</i>	<i>Length</i>	<i>Au</i> (g/t)	<i>Pt</i> (g/t)	<i>Pd</i> (g/t)	<i>Ni</i> (%)	<i>Cu</i> (%)	
Minor Interval:		104.25	105.45	SDBX	<i>Sudbury Breccia</i>	2AC4							
109.83	126.66	SDBX	<i>Sudbury Breccia</i>	2AC4	R232201	123.98	125.00	1.02	0.00	0.00	0.01	0.01	0.02
					R232202	125.00	126.52	1.52	0.00	0.00	0.00	0.00	0.00
Alteration Maj:		Type/Style/Intensity		Comment									
109.83 - 126.66		HE PCH MS											
Mineralization Maj. :		Type/Style/%Mineral		Comment									
124.85 - 126.66		CP BL 0.1											
124.85 - 126.66		PY FF 1											
Minor Interval:		111.34	111.86	GR	<i>Granite</i>								
Minor Interval:		112.00	112.83	PEG	<i>Pegmatite</i>								
Minor Interval:		113.26	113.50	GR	<i>Granite</i>								
Minor Interval:		114.24	114.63	DIOR	<i>Diorite</i>								
Minor Interval:		115.03	115.92	GR	<i>Granite</i>								
Minor Interval:		116.36	117.69	MDIA	<i>Matachewan Diabase</i>								
Minor Interval:		117.96	118.27	QMON	<i>Quartz Monzonite</i>								
Minor Interval:		118.54	119.24	FGN	<i>Felsic Gneiss</i>								

LITHOLOGY REPORT
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 Hole Number **WIS-208**

 Project: **WISNER_GLENCORE NRJV**

 Project Number: **642**

<i>From</i> (m)	<i>To</i> (m)	<i>Lithology</i>	<i>Sample #</i>	<i>From</i>	<i>To</i>	<i>Length</i>	<i>Au</i> (g/t)	<i>Pt</i> (g/t)	<i>Pd</i> (g/t)	<i>Ni</i> (%)	<i>Cu</i> (%)
Minor Interval:											
119.38	119.85	IGN <i>Intermediate Gneiss</i>									
Minor Interval:											
122.77	123.33	IGN <i>Intermediate Gneiss</i>									
Minor Interval:											
124.46	124.71	IGN <i>Intermediate Gneiss</i>									
Minor Interval:											
125.52	126.16	MCQMON <i>Megacrystic Quartz Monzonite</i>									
126.66	177.72	MCQMON <i>Megacrystic Quartz Monzonite</i>	R232203	126.52	128.00	1.48	0.00	0.00	0.00	0.00	0.00
		large quartz and plag crystals	R232204	128.00	129.50	1.50	0.00	0.00	0.00	0.00	0.00
		Alteration Maj: <i>Type/Style/Intensity</i> Comment	R232205	129.50	131.00	1.50	0.00	0.00	0.00	0.00	0.00
		138.86 - 139.05 Qtz VN S	R232206	135.56	137.00	1.44	0.00	0.00	0.00	0.00	0.00
		138.86 - 139.05 EP VN S 3 cm wide	R232207	137.00	138.31	1.31	0.00	0.00	0.00	0.00	0.00
		144.67 - 146.37 Carb VN M	R232208	138.31	139.62	1.31	0.00	0.00	0.00	0.00	0.00
		144.67 - 146.37 EP FF S	R232187	143.97	144.81	0.84	0.00	0.00	0.00	0.00	0.00
		144.67 - 146.37 HE PCH M	R232188	144.81	145.36	0.55	0.02	0.00	0.00	0.00	0.34
		147.68 - 147.97 EP FF S	R232189	145.36	146.00	0.64	0.01	0.00	0.00	0.00	0.15
		Mineralization Maj. : <i>Type/Style/%Mineral</i> Comment	R232190	146.00	146.36	0.36	0.00	0.00	0.00	0.00	0.00
		126.66 - 129.50 CP BL 0.1	R232191	146.36	147.07	0.71	0.00	0.00	0.00	0.00	0.00
		126.66 - 129.50 PY BL 0.1	R232209	147.07	148.27	1.20	0.01	0.00	0.00	0.00	0.01
		137.00 - 138.31 CP BL 0.1									
		137.00 - 138.31 PY BL 0.1									
		144.67 - 146.00 CP BL 0.1									
		144.67 - 146.00 PY DIS 0.25									
		144.67 - 146.00 PY FF 0.25									
		Structure Maj.: <i>Type/Core Angle</i> Comment									
		175.50 - 175.54 G 90									

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Hole Number **WIS-208**

Project: **WISNER_GLENCORE NRJV**

Project Number: **642**

<i>From</i> (m)	<i>To</i> (m)	<i>Lithology</i>	<i>Sample #</i>	<i>From</i>	<i>To</i>	<i>Length</i>	<i>Au</i> (g/t)	<i>Pt</i> (g/t)	<i>Pd</i> (g/t)	<i>Ni</i> (%)	<i>Cu</i> (%)
	175.50 - 175.54	FLT 90									
	Minor Interval:										
	128.51 - 128.92	SDBX Sudbury Breccia				2C4					
	Minor Interval:										
	129.12 - 129.53	SDBX Sudbury Breccia				2C4					
	Minor Interval:										
	130.00 - 130.18	SDBX Sudbury Breccia				2C4					
	Minor Interval:										
	144.12 - 144.43	SDBX Sudbury Breccia				2AC4					
	Minor Interval:										
	145.36 - 146.00	SDBX Sudbury Breccia hematite altered and PY mineralised				2C4					
	Minor Interval:										
	147.08 - 147.68	SDBX Sudbury Breccia partial melting of clasts				1C4					
	Minor Interval:										
	175.50 - 176.08	DIA Diabase									
177.72	252.51	QMON Quartz Monzonite quartz and plag, gneissic texture to 189m									
		Alteration Maj:	Type/Style/Intensity	Comment							
	177.72 - 252.51	HE P MS									
	177.72 - 252.51	EP INT S									
		Mineralization Maj. :	Type/Style/%Mineral	Comment							
	227.00 - 227.50	PY BL 0.1									
		Structure Maj.:	Type/Core Angle	Comment							
	178.74 - 178.77	G 45									

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Hole Number **WIS-208**

Project: **WISNER_GLENCORE NRJV**

Project Number: **642**

<i>From</i> (m)	<i>To</i> (m)	<i>Lithology</i>	<i>Sample #</i>	<i>From</i>	<i>To</i>	<i>Length</i>	<i>Au</i> (g/t)	<i>Pt</i> (g/t)	<i>Pd</i> (g/t)	<i>Ni</i> (%)	<i>Cu</i> (%)
		Minor Interval:									
	177.85	178.57	MGN			<i>Mafic Gneiss</i>					
		Minor Interval:									
	187.64	188.27	MGN			<i>Mafic Gneiss</i>					
		Minor Interval:									
	249.58	252.35	MGN			<i>Mafic Gneiss</i>					
		Minor Interval:									
	252.35	252.51	SDBX			<i>Sudbury Breccia</i>					
											1AC4
252.51	263.06	MCQMON	Megacrystic Quartz Monzonite								
		large quartz and plag crystals									
		Alteration Maj:	Type/Style/Intensity	Comment							
		254.61 - 255.46	EP FF S								
		254.61 - 255.46	HE P S								
		258.44 - 258.64	EP P S								
		258.64 - 258.75	Qtz VN S								
263.06	310.34	QMON	Quartz Monzonite								
		Alteration Maj:	Type/Style/Intensity	Comment							
		263.06 - 310.34	EP INT M								
		Structure Maj.:	Type/Core Angle	Comment							

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Hole Number **WIS-208**

Project: **WISNER_GLENCORE NRJV**

Project Number: **642**

<i>From</i> (m)	<i>To</i> (m)	<i>Lithology</i>		<i>Sample #</i>	<i>From</i>	<i>To</i>	<i>Length</i>	<i>Au</i> (g/t)	<i>Pt</i> (g/t)	<i>Pd</i> (g/t)	<i>Ni</i> (%)	<i>Cu</i> (%)
	274.95 - 274.96	G	45									
	275.35 - 275.41	G	45									
	305.47 - 305.65	G										
	305.47 - 305.65	BC	can't tell angle									
	Minor Interval:											
	275.46	276.63	MGN	<i>Mafic Gneiss</i>								
	Minor Interval:											
	286.63	288.48	MGN	<i>Mafic Gneiss</i>								
	Minor Interval:											
	290.77	291.09	SDBX	<i>Sudbury Breccia</i>			2AC4					
	Minor Interval:											
	293.00	293.73	SDBX	<i>Sudbury Breccia</i>			2AC4					
				vein runs parallel to core axis and is fractured/broken								
	Minor Interval:											
	300.97	302.90	MGN	<i>Mafic Gneiss</i>								
310.34	314.80	DIA	<i>Diabase</i>									
			fine grained aphanitic									
314.80	332.00	MCQMON	<i>Megacrystic Quartz Monzonite</i>									
			large quartz and plag crystals									
	Structure Maj.:		Type/Core Angle	Comment								
	318.27	318.61	F 15									

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Hole Number **WIS-208**

Project: **WISNER_GLENCORE NRJV**

Project Number: **642**

<i>From</i> (m)	<i>To</i> (m)	<i>Lithology</i>	<i>Sample #</i>	<i>From</i>	<i>To</i>	<i>Length</i>	<i>Au</i> (g/t)	<i>Pt</i> (g/t)	<i>Pd</i> (g/t)	<i>Ni</i> (%)	<i>Cu</i> (%)
	318.27 - 318.61	G 15									
	Minor Interval:										
	316.87	318.26	DIA	<i>Diabase</i>							
	with small <1cm SDBX veinlets										
	Minor Interval:										
	318.27	318.61	SDBX	<i>Sudbury Breccia</i>		2C4					
	Minor Interval:										
	318.61	319.49	DIA	<i>Diabase</i>							
	with small <1cm veinlets										
332.00	0.00	EOH	<i>End of Hole</i>								

DRILL HOLE REPORT

 Hole Number **WIS-209**

 Project: **WISNER_GLENCORE NRJV**

 Project Number: **642**

Drilling	Casing	Core	Location	Other
Azimuth: 290	Length: 0	Dimension: NQ	Township: WISNER	Logged by: Eilidh Lewis
Dip: -42	Pulled: no	Storage: Core Shed	Claim No.: 984615	Relog by:
Length: 400	Capped: yes	Section:	NTS:	Contractor: Jacob & Samuel Drilling Ltd.
Started: 30-Apr-15	Cemented: no	Hole Type DD	Hole: SURFACE	Spotted by: Tom Johnson
Completed: 06-May-15				Surveyed: yes
Logged: 08-May-15				Surveyed by: Dave Coventry
Comment: Collar DGPS-ed				Geophysics: UTEM
		Coordinate - Gemcom	Coordinate - UTM	Geophysic Contractor: Lamontagne
		East: 494330.8	East: 494325	Left in hole: Nothing
		North: 5178067	North: 5170867	Making water: no
		Elev.: 365.4	Elev.: 365	Multi shot survey: no
			Zone: 17 NAD: 27	

Deviation Tests

Distance	Azimuth	Dip	Type	Good	Comments
0.00	290.00	-42.00	C	<input checked="" type="checkbox"/>	
23.00	289.90	-43.20	F	<input checked="" type="checkbox"/>	mag=5570
74.00	291.00	-42.80	F	<input checked="" type="checkbox"/>	mag=5573
125.00	284.80	-42.50	F	<input checked="" type="checkbox"/>	mag=5448
176.00	289.80	-42.00	F	<input checked="" type="checkbox"/>	mag=5472, roll=333.6
227.00	290.50	-42.20	F	<input checked="" type="checkbox"/>	mag=5499
278.00	281.90	-41.90	F	<input checked="" type="checkbox"/>	mag=5475
329.00	286.40	-41.90	F	<input checked="" type="checkbox"/>	mag=5488
380.00	292.40	-42.90	F	<input checked="" type="checkbox"/>	mag=5455

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Hole Number **WIS-209**

Project: **WISNER_GLENCORE NRJV**

Project Number: **642**

<i>From</i> (m)	<i>To</i> (m)	<i>Lithology</i>	<i>Sample #</i>	<i>From</i>	<i>To</i>	<i>Length</i>	<i>Au</i> (g/t)	<i>Pt</i> (g/t)	<i>Pd</i> (g/t)	<i>Ni</i> (%)	<i>Cu</i> (%)
0.00	11.00	CAS									
11.00	13.72	IGN medium to coarse grained with fine grained mafic bands. Trace amounts of possible silver within small fractures, generally associated with chlorite alteration.									
		Alteration Maj:									
		Type/Style/Intensity									
		Comment									
		11.00 - 13.72									
		BIO P MS									
		11.00 - 13.72									
		CHL P MS									
		Mineralization Maj. :									
		Type/Style/%Mineral									
		Comment									
		11.00 - 13.72									
		PY BL 0.1									
13.72	14.09	PEG									
		<i>Pegmatite</i>									

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Hole Number **WIS-209**

Project: **WISNER_GLENCORE NRJV**

Project Number: **642**

<i>From</i> (m)	<i>To</i> (m)	<i>Lithology</i>	<i>Sample #</i>	<i>From</i>	<i>To</i>	<i>Length</i>	<i>Au</i> (g/t)	<i>Pt</i> (g/t)	<i>Pd</i> (g/t)	<i>Ni</i> (%)	<i>Cu</i> (%)
14.09	77.84	IGN Intermediate Gneiss medium to coarse grained with fine grained mafic bands. Trace amounts of possible silver within small fractures, generally associated with chlorite alteration. ~0.1% Fracture filling silver (?) at 55.85-56.14 and 72.61-73.56.	R232194	55.25	55.85	0.60	0.00	0.00	0.00	0.01	0.01
			R232195	55.85	56.14	0.29	0.00	0.00	0.00	0.01	0.01
			R232196	56.14	56.94	0.80	0.00	0.00	0.00	0.01	0.01
			R232197	71.77	72.61	0.84	0.00	0.00	0.00	0.01	0.01
			R232198	72.61	72.94	0.33	0.00	0.00	0.00	0.01	0.02
			R232199	72.94	73.56	0.62	0.00	0.00	0.00	0.01	0.05
			R232200	73.56	74.67	1.11	0.00	0.00	0.00	0.01	0.01
		Alteration Maj:	Type/Style/Intensity	Comment							
		14.09 - 77.84	BIO P MS								
		14.09 - 77.84	CHL P MS								
		Mineralization Maj. :	Type/Style/%Mineral	Comment							
		72.61 - 73.56	CP BL 0.1								
77.84	78.82	GR Granite									
78.82	89.00	IGN Intermediate Gneiss medium to coarse grained with fine grained mafic bands. Trace amounts of possible silver within small fractures, generally associated with chlorite alteration.									
			Alteration Maj:	Type/Style/Intensity	Comment						
			78.82 - 89.00	BIO P MS							
			78.82 - 89.00	CHL P MS							

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Hole Number **WIS-209**

Project: **WISNER_GLENCORE NRJV**

Project Number: **642**

<i>From</i> (m)	<i>To</i> (m)	<i>Lithology</i>			<i>Sample #</i>	<i>From</i>	<i>To</i>	<i>Length</i>	<i>Au</i> (g/t)	<i>Pt</i> (g/t)	<i>Pd</i> (g/t)	<i>Ni</i> (%)	<i>Cu</i> (%)
89.00	91.22	SDBX	Sudbury Breccia		1AC4								
		<i>Alteration Maj:</i>	<i>Type/Style/Intensity</i>	<i>Comment</i>									
		89.00 - 91.22	HE P WM										
91.22	92.38	DIA	Diabase										
92.38	92.69	SDBX	Sudbury Breccia		1AC4								
		<i>Alteration Maj:</i>	<i>Type/Style/Intensity</i>	<i>Comment</i>									
		92.38 - 92.69	HE P WM										
92.69	94.45	FGN	Felsic Gneiss										

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Hole Number **WIS-209**

Project: **WISNER_GLENCORE NRJV**

Project Number: **642**

<i>From</i> (m)	<i>To</i> (m)	<i>Lithology</i>	<i>Sample #</i>	<i>From</i>	<i>To</i>	<i>Length</i>	<i>Au</i> (g/t)	<i>Pt</i> (g/t)	<i>Pd</i> (g/t)	<i>Ni</i> (%)	<i>Cu</i> (%)
94.45	96.81	SDBX <i>Sudbury Breccia</i>				1AC4					
		<i>Alteration Maj:</i>									
		94.45 - 96.81									
		<i>Type/Style/Intensity</i>									
		HE P WM									
96.81	97.66	FGN <i>Felsic Gneiss</i>									
97.66	98.74	SDBX <i>Sudbury Breccia</i>				1AC4					
		<i>Alteration Maj:</i>									
		97.66 - 98.74									
		<i>Type/Style/Intensity</i>									
		HE P WM									
98.74	99.37	GR <i>Granite</i>									

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Project: **WISNER_GLENCORE NRJV**

Project Number: **642**

<i>From</i> (m)	<i>To</i> (m)	<i>Lithology</i>	<i>Sample #</i>	<i>From</i>	<i>To</i>	<i>Length</i>	<i>Au</i> (g/t)	<i>Pt</i> (g/t)	<i>Pd</i> (g/t)	<i>Ni</i> (%)	<i>Cu</i> (%)
99.37	100.28	SDBX <i>Sudbury Breccia</i>				1AC4					
		<i>Alteration Maj:</i>									
		99.37 - 100.28									
		<i>Type/Style/Intensity</i>									
		HE P WM									
100.28	101.60	QMON <i>Quartz Monzonite</i>									
101.60	102.69	SDBX <i>Sudbury Breccia</i>				1AC4					
		<i>Alteration Maj:</i>									
		101.60 - 102.69									
		<i>Type/Style/Intensity</i>									
		HE P WM									
102.69	103.31	QMON <i>Quartz Monzonite</i>									

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Hole Number **WIS-209**

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Project Number: **642**

<i>From</i> (m)	<i>To</i> (m)	<i>Lithology</i>	<i>Sample #</i>	<i>From</i>	<i>To</i>	<i>Length</i>	<i>Au</i> (g/t)	<i>Pt</i> (g/t)	<i>Pd</i> (g/t)	<i>Ni</i> (%)	<i>Cu</i> (%)
103.31	105.14	SDBX <i>Sudbury Breccia</i>				1AC4					
		<i>Alteration Maj:</i>									
		103.31 - 105.14									
		<i>Type/Style/Intensity</i>									
		HE P WM									
105.14	105.39	DIOR <i>Diorite</i>									
105.39	105.81	SDBX <i>Sudbury Breccia</i>				1AC4					
		<i>Alteration Maj:</i>									
		105.39 - 105.81									
		<i>Type/Style/Intensity</i>									
		HE P WM									
105.81	107.29	DIOR <i>Diorite</i>									

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<i>From</i> (m)	<i>To</i> (m)	<i>Lithology</i>	<i>Sample #</i>	<i>From</i>	<i>To</i>	<i>Length</i>	<i>Au</i> (g/t)	<i>Pt</i> (g/t)	<i>Pd</i> (g/t)	<i>Ni</i> (%)	<i>Cu</i> (%)
107.29	108.00	SDBX <i>Sudbury Breccia</i>				1AC4					
		<i>Alteration Maj:</i>									
		107.29 - 108.00									
		<i>Type/Style/Intensity</i>									
		HE P WM									
108.00	108.10	PEG <i>Pegmatite</i>									
108.10	109.49	IGN <i>Intermediate Gneiss</i>									
109.49	109.73	SDBX <i>Sudbury Breccia</i>				1AC4					

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Hole Number **WIS-209**

Project: **WISNER_GLENCORE NRJV**

Project Number: **642**

<i>From</i> (m)	<i>To</i> (m)	<i>Lithology</i>		<i>Sample #</i>	<i>From</i>	<i>To</i>	<i>Length</i>	<i>Au</i> (g/t)	<i>Pt</i> (g/t)	<i>Pd</i> (g/t)	<i>Ni</i> (%)	<i>Cu</i> (%)
		<i>Alteration Maj:</i>	<i>Type/Style/Intensity</i>	<i>Comment</i>								
		109.49 - 109.73	HE P WM									
109.73	110.28	DIOR	<i>Diorite</i>									
110.28	110.47	SDBX	<i>Sudbury Breccia</i>				1AC4					
		<i>Alteration Maj:</i>	<i>Type/Style/Intensity</i>	<i>Comment</i>								
		110.28 - 110.47	HE P WM									
110.47	111.07	DIOR	<i>Diorite</i>									

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Hole Number **WIS-209**

Project: **WISNER_GLENCORE NRJV**

Project Number: **642**

<i>From</i> (m)	<i>To</i> (m)	<i>Lithology</i>	<i>Sample #</i>	<i>From</i>	<i>To</i>	<i>Length</i>	<i>Au</i> (g/t)	<i>Pt</i> (g/t)	<i>Pd</i> (g/t)	<i>Ni</i> (%)	<i>Cu</i> (%)
111.07	111.29	SDBX <i>Sudbury Breccia</i>				1AC4					
		<i>Alteration Maj:</i>									
		111.07 - 111.29									
		<i>Type/Style/Intensity</i>									
		HE P WM									
111.29	111.97	QMON <i>Quartz Monzonite</i>									
111.97	112.54	SDBX <i>Sudbury Breccia</i>				1AC4					
		<i>Alteration Maj:</i>									
		111.97 - 112.54									
		<i>Type/Style/Intensity</i>									
		HE P WM									
112.54	112.71	DIA <i>Diabase</i>									

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Project: **WISNER_GLENCORE NRJV**

Project Number: **642**

<i>From</i> (m)	<i>To</i> (m)	<i>Lithology</i>	<i>Sample #</i>	<i>From</i>	<i>To</i>	<i>Length</i>	<i>Au</i> (g/t)	<i>Pt</i> (g/t)	<i>Pd</i> (g/t)	<i>Ni</i> (%)	<i>Cu</i> (%)
112.71	112.92	SDBX Sudbury Breccia				1AC4					
		<i>Alteration Maj:</i>									
		112.71 - 112.92									
		<i>Type/Style/Intensity</i>									
		HE P WM									
112.92	113.57	GR Granite									
113.57	113.98	SDBX Sudbury Breccia				1AC4					
		<i>Alteration Maj:</i>									
		113.57 - 113.98									
		<i>Type/Style/Intensity</i>									
		HE P WM									
113.98	114.18	MCQMON Megacrystic Quartz Monzonite									

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Project: **WISNER_GLENCORE NRJV**

Project Number: **642**

<i>From</i> (m)	<i>To</i> (m)	<i>Lithology</i>	<i>Sample #</i>	<i>From</i>	<i>To</i>	<i>Length</i>	<i>Au</i> (g/t)	<i>Pt</i> (g/t)	<i>Pd</i> (g/t)	<i>Ni</i> (%)	<i>Cu</i> (%)
114.18	114.69	SDBX <i>Sudbury Breccia</i>				1AC4					
		<i>Alteration Maj:</i>									
		114.18 - 114.69									
		<i>Type/Style/Intensity</i>									
		HE P WM									
114.69	114.96	GR <i>Granite</i>									
114.96	115.00	SDBX <i>Sudbury Breccia</i>				1AC4					
		<i>Alteration Maj:</i>									
		114.96 - 115.00									
		<i>Type/Style/Intensity</i>									
		HE P WM									
115.00	115.44	DIOR <i>Diorite</i>									

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<i>From</i> (m)	<i>To</i> (m)	<i>Lithology</i>	<i>Sample #</i>	<i>From</i>	<i>To</i>	<i>Length</i>	<i>Au</i> (g/t)	<i>Pt</i> (g/t)	<i>Pd</i> (g/t)	<i>Ni</i> (%)	<i>Cu</i> (%)
115.44	117.45	SDBX <i>Sudbury Breccia</i>				1AC4					
		<i>Alteration Maj:</i>									
		115.44 - 117.45									
		<i>Type/Style/Intensity</i>									
		HE P WM									
		<i>Comment</i>									
117.45	122.06	MCQMON <i>Megacrystic Quartz Monzonite</i>									
122.06	122.13	SDBX <i>Sudbury Breccia</i>				1AC4					
		<i>Alteration Maj:</i>									
		122.06 - 122.13									
		<i>Type/Style/Intensity</i>									
		HE P WM									
		<i>Comment</i>									
122.13	122.81	MCQMON <i>Megacrystic Quartz Monzonite</i>									

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Project: **WISNER_GLENCORE NRJV**

Project Number: **642**

<i>From</i> (m)	<i>To</i> (m)	<i>Lithology</i>	<i>Sample #</i>	<i>From</i>	<i>To</i>	<i>Length</i>	<i>Au</i> (g/t)	<i>Pt</i> (g/t)	<i>Pd</i> (g/t)	<i>Ni</i> (%)	<i>Cu</i> (%)
122.81	125.16	SDBX <i>Sudbury Breccia</i>				1AC4					
		<i>Alteration Maj:</i> <i>Type/Style/Intensity</i> <i>Comment</i>									
		122.81 - 125.16 HE P WM									
125.16	125.44	QMON <i>Quartz Monzonite</i>									
125.44	126.32	SDBX <i>Sudbury Breccia</i>				1AC4					
		<i>Alteration Maj:</i> <i>Type/Style/Intensity</i> <i>Comment</i>									
		125.44 - 126.32 HE P WM									
126.32	126.56	PEG <i>Pegmatite</i>									

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Project: **WISNER_GLENCORE NRJV**

Project Number: **642**

<i>From</i> (m)	<i>To</i> (m)	<i>Lithology</i>	<i>Sample #</i>	<i>From</i>	<i>To</i>	<i>Length</i>	<i>Au</i> (g/t)	<i>Pt</i> (g/t)	<i>Pd</i> (g/t)	<i>Ni</i> (%)	<i>Cu</i> (%)
		Mineralization Maj. :									
		133.00 - 133.50									
		133.00 - 133.50									
		Type/Style/%Mineral	Comment								
		PY BL 0.1									
		CP BL 0.1									
155.30	174.23	QMON Quartz Monzonite									
		medium to coarse grained quartz and plag crystals. Gneissic texture 155.3-156.15 - possible structure?									
		Alteration Maj:	Type/Style/Intensity	Comment							
		155.30 - 174.20	HE P MS								
		155.30 - 174.20	EP FF MS								
		174.20 - 174.23	Qtz VN S								
		174.20 - 174.23	HE FF S								
		174.20 - 174.23	EP FF S								
		Mineralization Maj. :	Type/Style/%Mineral	Comment							
		155.30 - 174.23	PY FF 0.1								
174.23	174.82	MGN Mafic Gneiss									
		Mineralization Maj. :	Type/Style/%Mineral	Comment							
		174.23 - 174.82	PY FF 0.1								

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<i>From</i> (m)	<i>To</i> (m)	<i>Lithology</i>	<i>Sample #</i>	<i>From</i>	<i>To</i>	<i>Length</i>	<i>Au</i> (g/t)	<i>Pt</i> (g/t)	<i>Pd</i> (g/t)	<i>Ni</i> (%)	<i>Cu</i> (%)
174.82	175.30	QMON Quartz Monzonite									
		Alteration Maj:									
		174.82 - 175.23									
		174.82 - 175.23									
		175.23 - 175.30									
		175.23 - 175.30									
		175.23 - 175.30									
		Mineralization Maj. :									
		174.82 - 175.30									
175.30	176.42	MGN Mafic Gneiss									
		Mineralization Maj. :									
		175.30 - 176.42									
176.42	187.41	QMON Quartz Monzonite									
		Alteration Maj:									
		176.42 - 187.41									
		176.42 - 187.41									
		Mineralization Maj. :									
		176.42 - 187.41									

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<i>From</i> (m)	<i>To</i> (m)	<i>Lithology</i>	<i>Sample #</i>	<i>From</i>	<i>To</i>	<i>Length</i>	<i>Au</i> (g/t)	<i>Pt</i> (g/t)	<i>Pd</i> (g/t)	<i>Ni</i> (%)	<i>Cu</i> (%)
187.41	188.00	MGN <i>Mafic Gneiss</i>									
188.00	188.61	QMON <i>Quartz Monzonite</i>									
		<i>Alteration Maj:</i>									
		<i>Type/Style/Intensity</i>									
		<i>Comment</i>									
		188.00 - 188.61									
		HE P MS									
		188.00 - 188.61									
		EP P MS									
188.61	200.89	MCQMON <i>Megacrystic Quartz Monzonite</i>									
		<i>Alteration Maj:</i>									
		<i>Type/Style/Intensity</i>									
		<i>Comment</i>									
		188.61 - 200.89									
		HE P MS									
		188.61 - 200.89									
		EP FF MS									

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<i>From</i> (m)	<i>To</i> (m)	<i>Lithology</i>	<i>Sample #</i>	<i>From</i>	<i>To</i>	<i>Length</i>	<i>Au</i> (g/t)	<i>Pt</i> (g/t)	<i>Pd</i> (g/t)	<i>Ni</i> (%)	<i>Cu</i> (%)
200.89	201.09	SDBX <i>Sudbury Breccia</i> small veinlets in the MCQMON				2C4					
201.09	201.17	MCQMON <i>Megacrystic Quartz Monzonite</i>									
		<i>Alteration Maj:</i>									
			<i>Type/Style/Intensity</i>	<i>Comment</i>							
		201.09 - 201.17	HE P MS								
		201.09 - 201.17	EP FF MS								
201.17	201.61	SDBX <i>Sudbury Breccia</i>				2AC4					
201.61	204.07	MCQMON <i>Megacrystic Quartz Monzonite</i>									
		<i>Alteration Maj:</i>									
			<i>Type/Style/Intensity</i>	<i>Comment</i>							
		201.61 - 204.07	HE P MS								
		201.61 - 204.07	EP FF MS								

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<i>From</i> (m)	<i>To</i> (m)	<i>Lithology</i>	<i>Sample #</i>	<i>From</i>	<i>To</i>	<i>Length</i>	<i>Au</i> (g/t)	<i>Pt</i> (g/t)	<i>Pd</i> (g/t)	<i>Ni</i> (%)	<i>Cu</i> (%)
204.07	204.66	SDBX <i>Sudbury Breccia</i>				2C4					
204.66	209.39	MCQMON <i>Megacrystic Quartz Monzonite</i>									
		<i>Alteration Maj:</i>									
		<i>Type/Style/Intensity</i>									
		<i>Comment</i>									
		204.66 - 209.39									
		HE P MS									
		204.66 - 209.39									
		EP FF MS									
209.39	249.00	FGN <i>Felsic Gneiss</i>									
		intense hematite alteration and very vuggy texture throughout.									
		<i>Alteration Maj:</i>									
		<i>Type/Style/Intensity</i>									
		<i>Comment</i>									
		209.39 - 217.00									
		EP FF S									
		209.39 - 217.00									
		HE P MS									
		217.00 - 236.00									
		HE P I								vuggy	
		236.00 - 249.00									
		EP FF S									
		236.00 - 249.00									
		HE P MS									

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<i>From</i> (m)	<i>To</i> (m)	<i>Lithology</i>		<i>Sample #</i>	<i>From</i>	<i>To</i>	<i>Length</i>	<i>Au</i> (g/t)	<i>Pt</i> (g/t)	<i>Pd</i> (g/t)	<i>Ni</i> (%)	<i>Cu</i> (%)
		Structure Maj.:	Type/Core Angle	Comment								
		231.65 - 236.00	BC									
		231.65 - 236.00	BX	extremely vuggy and broken, looks partially brecciated and healed								
249.00	256.33	SDBX	Sudbury Breccia				2C4					
		series of small veinlets										
256.33	265.12	FGN	Felsic Gneiss									
		Alteration Maj.:	Type/Style/Intensity	Comment								
		256.33 - 265.12	EP FF S									
		256.33 - 265.12	HE P MS									
265.12	265.59	MYL	Mylonite									
		large crystals show slight rotation										

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<i>From (m)</i>	<i>To (m)</i>	<i>Lithology</i>	<i>Sample #</i>	<i>From</i>	<i>To</i>	<i>Length</i>	<i>Au (g/t)</i>	<i>Pt (g/t)</i>	<i>Pd (g/t)</i>	<i>Ni (%)</i>	<i>Cu (%)</i>
265.59	287.93	MCQMON <i>Megacrystic Quartz Monzonite</i>									
		<i>Alteration Maj:</i>									
		<i>Type/Style/Intensity</i>									
		<i>Comment</i>									
		265.59 - 283.53									
		283.53 - 283.85									
		283.85 - 287.93									
287.93	288.00	SDBX <i>Sudbury Breccia</i>									
						2C4					
		<i>Alteration Maj:</i>									
		<i>Type/Style/Intensity</i>									
		<i>Comment</i>									
		287.93 - 288.00									
		<i>Mineralization Maj. :</i>									
		<i>Type/Style/%Mineral</i>									
		<i>Comment</i>									
		287.93 - 288.00									
288.00	288.63	FGN <i>Felsic Gneiss</i>									
		<i>Alteration Maj:</i>									
		<i>Type/Style/Intensity</i>									
		<i>Comment</i>									
		288.00 - 288.63									
		<i>Mineralization Maj. :</i>									
		<i>Type/Style/%Mineral</i>									
		<i>Comment</i>									
		288.00 - 288.63									

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<i>From</i> (m)	<i>To</i> (m)	<i>Lithology</i>	<i>Sample #</i>	<i>From</i>	<i>To</i>	<i>Length</i>	<i>Au</i> (g/t)	<i>Pt</i> (g/t)	<i>Pd</i> (g/t)	<i>Ni</i> (%)	<i>Cu</i> (%)
288.63	289.21	MGN Mafic Gneiss									
		Alteration Maj: Type/Style/Intensity Comment									
		288.63 - 289.21 EP FF M									
		Mineralization Maj. : Type/Style/%Mineral Comment									
		288.63 - 289.21 PY BL 0.1									
289.21	302.69	FGN Felsic Gneiss	R232215	296.41	297.48	1.07	0.00	0.00	0.00	0.00	0.00
			R232216	297.48	298.25	0.77	0.00	0.00	0.00	0.00	0.01
			R232217	298.25	299.93	1.68	0.00	0.00	0.00	0.00	0.00
		Alteration Maj: Type/Style/Intensity Comment									
		289.21 - 302.69 EP FF MS									
		Mineralization Maj. : Type/Style/%Mineral Comment									
		289.21 - 297.50 PY BL 0.1									
		297.50 - 298.00 CP BL 0.1									
		297.50 - 298.00 PY FF 2									
		Structure Maj.: Type/Core Angle Comment									
		301.00 - 301.10 G 45									
		301.00 - 301.10 BC 45 broken gougey section of core									
302.69	307.00	MCQMON Megacrystic Quartz Monzonite									
		Alteration Maj: Type/Style/Intensity Comment									

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Project Number: **642**

<i>From</i> (m)	<i>To</i> (m)	<i>Lithology</i>		<i>Sample #</i>	<i>From</i>	<i>To</i>	<i>Length</i>	<i>Au</i> (g/t)	<i>Pt</i> (g/t)	<i>Pd</i> (g/t)	<i>Ni</i> (%)	<i>Cu</i> (%)
	305.34 - 305.50	EP	INT S									
307.00	313.75	DIA	Diabase									
		Structure Maj.:	Type/Core Angle	Comment								
	313.35 - 313.70		BC									
313.75	314.19	FGN	Felsic Gneiss									
314.19	314.35	SDBX	Sudbury Breccia				2AC4					

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Project: **WISNER_GLENCORE NRJV**

Project Number: **642**

<i>From</i> (m)	<i>To</i> (m)	<i>Lithology</i>		<i>Sample #</i>	<i>From</i>	<i>To</i>	<i>Length</i>	<i>Au</i> (g/t)	<i>Pt</i> (g/t)	<i>Pd</i> (g/t)	<i>Ni</i> (%)	<i>Cu</i> (%)
314.35	316.91	FGN	Felsic Gneiss	R232218	315.00	315.85	0.85	0.00	0.00	0.00	0.00	0.00
				R232219	315.85	316.45	0.60	0.00	0.00	0.00	0.00	0.00
				R232220	316.45	316.91	0.46	0.00	0.00	0.00	0.00	0.00
		Alteration Maj:	Type/Style/Intensity	Comment								
		315.85 - 316.45	EP FF S									
		Mineralization Maj. :	Type/Style/%Mineral	Comment								
		315.85 - 316.45	PY FF 0.1									
316.91	317.00	SDBX	Sudbury Breccia									
				2AC4								
		Alteration Maj:	Type/Style/Intensity	Comment								
		316.91 - 317.00	EP FF S									
		Mineralization Maj. :	Type/Style/%Mineral	Comment								
		316.91 - 317.00	PY FF 0.1									
317.00	323.00	FGN	Felsic Gneiss	R232221	316.91	317.32	0.41	0.00	0.00	0.00	0.00	0.00
				R232222	317.32	318.52	1.20	0.00	0.00	0.00	0.00	0.00
				R232223	318.52	319.68	1.16	0.00	0.00	0.00	0.00	0.00
				R232224	319.68	321.27	1.59	0.00	0.00	0.00	0.00	0.00
				R232225	321.27	322.46	1.19	0.00	0.00	0.00	0.00	0.00
		Alteration Maj:	Type/Style/Intensity	Comment								
		317.00 - 320.00	EP FF S									
		321.00 - 321.25	EP INT S									
		Mineralization Maj. :	Type/Style/%Mineral	Comment								
		317.00 - 323.00	PY BL 0.1									
		317.00 - 323.00	PY FF 0.1									

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 Project Number: **642**

<i>From</i> (m)	<i>To</i> (m)	<i>Lithology</i>	<i>Sample #</i>	<i>From</i>	<i>To</i>	<i>Length</i>	<i>Au</i> (g/t)	<i>Pt</i> (g/t)	<i>Pd</i> (g/t)	<i>Ni</i> (%)	<i>Cu</i> (%)
323.00	365.64	MCQMON <i>Megacrystic Quartz Monzonite</i>	R232226	328.03	328.53	0.50	0.00	0.00	0.00	0.00	0.00
			R232227	328.53	328.94	0.41	0.00	0.00	0.00	0.00	0.00
		<i>Alteration Maj:</i> <i>Type/Style/Intensity</i> <i>Comment</i>	R232228	328.94	329.57	0.63	0.00	0.00	0.00	0.00	0.00
		346.00 - 350.00 EP INT S	R232229	360.68	361.24	0.56	0.00	0.00	0.00	0.00	0.00
		346.00 - 350.00 EP PCH S	R232230	361.24	361.94	0.70	0.00	0.00	0.00	0.00	0.00
		<i>Mineralization Maj. :</i> <i>Type/Style/%Mineral</i> <i>Comment</i>	R232231	361.94	362.75	0.81	0.00	0.00	0.00	0.00	0.00
		323.00 - 330.00 PY FF 0.1	R232232	362.75	363.80	1.05	0.00	0.00	0.00	0.00	0.00
		323.00 - 330.00 PY BL 0.1	R232235	363.80	364.54	0.74	0.00	0.00	0.00	0.00	0.00
		361.00 - 365.64 PY FF 0.1	R232236	364.54	365.52	0.98	0.00	0.00	0.00	0.00	0.00
		361.00 - 365.64 PY BL 0.1									
		<i>Structure Maj.:</i> <i>Type/Core Angle</i> <i>Comment</i>									
		365.15 - 365.43 G 15									
		365.15 - 365.43 FLT 15									
365.64	392.06	FGN <i>Felsic Gneiss</i>									
		<i>Alteration Maj:</i> <i>Type/Style/Intensity</i> <i>Comment</i>									
		376.00 - 377.50 EP FF S									
		387.00 - 392.06 EP FF S									
		387.00 - 392.06 HE P MS									

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Project: **WISNER_GLENCORE NRJV**

Project Number: **642**

<i>From</i> (m)	<i>To</i> (m)	<i>Lithology</i>	<i>Sample #</i>	<i>From</i>	<i>To</i>	<i>Length</i>	<i>Au</i> (g/t)	<i>Pt</i> (g/t)	<i>Pd</i> (g/t)	<i>Ni</i> (%)	<i>Cu</i> (%)
392.06	399.25	MCQMON <i>Megacrystic Quartz Monzonite</i>									
		<i>Alteration Maj:</i> <i>Type/Style/Intensity</i> <i>Comment</i>									
		395.50 - 396.50 EP FF S									
		<i>Mineralization Maj. :</i> <i>Type/Style/%Mineral</i> <i>Comment</i>									
		392.06 - 399.25 PY BL 0.1									
399.25	400.00	DIA <i>Diabase</i> fine grained, aphanitic. Core crumbed and broken.									

DRILL HOLE REPORT

 Hole Number **WIS-210**

 Project: **WISNER_GLENCORE NRJV**

 Project Number: **642**

Drilling	Casing	Core	Location	Other
Azimuth: 360	Length: 0	Dimension: NQ	Township: WISNER	Logged by: Eilidh Lewis
Dip: -80	Pulled: no	Storage: Core Shed	Claim No.: 993681	Relog by:
Length: 541.92	Capped: yes	Section:	NTS:	Contractor: Jacob & Samuel Drilling Ltd.
Started: 10-May-15	Cemented: yes	Hole Type DD	Hole: SURFACE	Spotted by: Tom Johnson
Completed: 11-May-15				Surveyed:
Logged: 19-May-15				Surveyed by:
Comment: Cemented down to 180-192m				Geophysics: UTEM
		Coordinate - Gemcom	Coordinate - UTM	Geophysic Contractor: Lamontagne
		East: 494927	East: 494927	Left in hole: Nothing
		North: 5178053	North: 5178053	Making water: no
		Elev.: 412	Elev.: 412	Multi shot survey: no
			Zone: 17 NAD: 27	

Deviation Tests

Distance	Azimuth	Dip	Type	Good	Comments
0.00	360.00	-80.00	C	<input checked="" type="checkbox"/>	
11.00	1.60	-82.20	F	<input checked="" type="checkbox"/>	mag=5567, roll=143.9
62.00	1.40	-82.50	F	<input checked="" type="checkbox"/>	mag=5495
113.00	2.90	-81.90	F	<input checked="" type="checkbox"/>	mag=5535
164.00	1.50	-81.90	F	<input checked="" type="checkbox"/>	mag=5535
215.00	3.00	-81.60	F	<input checked="" type="checkbox"/>	mag=5501
266.00	358.90	-81.70	F	<input checked="" type="checkbox"/>	mag=5576
317.00	2.60	-81.40	F	<input checked="" type="checkbox"/>	mag=5422
368.00	5.40	-81.20	F	<input checked="" type="checkbox"/>	mag=5500
419.00	5.10	-81.00	F	<input checked="" type="checkbox"/>	mag=5509, roll=43.5
470.00	1.90	-81.40	F	<input checked="" type="checkbox"/>	mag=5312, roll=263
521.00	4.70	-81.10	F	<input checked="" type="checkbox"/>	mag=5550, roll=093.8

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Hole Number **WIS-210**

Project: **WISNER_GLENCORE NRJV**

Project Number: **642**

<i>From</i> (m)	<i>To</i> (m)	<i>Lithology</i>	<i>Sample #</i>	<i>From</i>	<i>To</i>	<i>Length</i>	<i>Au</i> (g/t)	<i>Pt</i> (g/t)	<i>Pd</i> (g/t)	<i>Ni</i> (%)	<i>Cu</i> (%)
0.00	114.46	FGN Felsic Gneiss	R232239	0.00	0.68	0.68	0.00	0.00	0.00	0.00	0.00
		medium to coarse grained, banded, several partial melt veins. Small amounts of disseminated and blebby CP and PY mineralisation. 10.66-10.75 PM with epidote veining, PY and trace CP. 14.28-14.30 PM, 19.32-19.44 PM, 19.90-19.98 PM, 42.21-42.27 PM, 54.09-54.25 SDBX, 2AC4, hot. 64.23-64.27 PM, 64.36-64.39 PM, 71.43-71.58 PM, 79.61-79.65 PM, 80.86-80.88 PM, 84.30-84.79 SDBX, 2AC4, hot. 114.42-114.46 PM.	R232240	0.68	1.62	0.94	0.00	0.00	0.00	0.00	0.00
			R232241	1.62	3.10	1.48	0.00	0.04	0.02	0.00	0.01
			R232242	3.10	4.60	1.50	0.00	0.00	0.00	0.00	0.00
			R232243	4.60	6.07	1.47	0.00	0.00	0.00	0.00	0.00
		Alteration Maj:	R232244	6.07	7.44	1.37	0.00	0.00	0.00	0.00	0.00
		Type/Style/Intensity	R232245	7.44	8.82	1.38	0.00	0.00	0.00	0.00	0.00
		Comment	R232246	8.82	10.29	1.47	0.02	0.20	0.25	0.01	0.03
		0.00 - 19.32	R232247	10.29	11.04	0.75	0.00	0.16	0.16	0.01	0.00
		0.00 - 19.32	R232248	11.04	12.07	1.03	0.00	0.08	0.12	0.01	0.01
		0.00 - 19.32	R232249	12.07	13.34	1.27	0.00	0.00	0.00	0.00	0.00
		19.32 - 19.44	R232250	13.34	14.82	1.48	0.00	0.03	0.04	0.01	0.00
		19.32 - 19.44	R232251	14.82	16.31	1.49	0.00	0.01	0.01	0.01	0.01
		19.32 - 19.44	R232252	16.31	16.87	0.56	0.02	0.53	0.74	0.03	0.15
		19.32 - 19.44	R232253	16.87	18.30	1.43	0.00	0.00	0.00	0.00	0.00
		19.44 - 64.88	R232254	18.30	19.79	1.49	0.00	0.00	0.00	0.00	0.00
		19.44 - 64.88	R232255	19.79	21.26	1.47	0.00	0.00	0.00	0.00	0.00
		19.44 - 64.88	R232256	21.26	22.74	1.48	0.00	0.00	0.00	0.00	0.00
		64.88 - 65.15	R232257	22.74	24.31	1.57	0.00	0.00	0.00	0.00	0.00
		64.88 - 65.15	R232260	24.31	25.82	1.51	0.00	0.00	0.00	0.00	0.00
		65.15 - 114.12	R232261	25.82	27.32	1.50	0.00	0.00	0.00	0.00	0.00
		65.15 - 114.12	R232262	27.32	28.75	1.43	0.00	0.00	0.00	0.00	0.00
		65.15 - 114.12	R232263	28.75	30.08	1.33	0.00	0.00	0.00	0.01	0.00
		114.12 - 114.42	R232264	30.08	31.28	1.20	0.00	0.02	0.02	0.01	0.01
		114.12 - 114.42	R232265	31.28	32.21	0.93	0.00	0.00	0.00	0.01	0.01
		114.12 - 114.42	R232266	32.21	33.23	1.02	0.00	0.19	0.21	0.01	0.05
		114.42 - 114.46	R232267	33.23	33.70	0.47	0.02	0.49	0.76	0.05	0.48
		114.42 - 114.46									
		Mineralization Maj. :									
		Type/Style/%Mineral									
		Comment									
		0.00 - 16.31									
		0.00 - 16.31									

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Hole Number **WIS-210**

Project: **WISNER_GLENCORE NRJV**

Project Number: **642**

<i>From</i> (m)	<i>To</i> (m)	<i>Lithology</i>	<i>Sample #</i>	<i>From</i>	<i>To</i>	<i>Length</i>	<i>Au</i> (g/t)	<i>Pt</i> (g/t)	<i>Pd</i> (g/t)	<i>Ni</i> (%)	<i>Cu</i> (%)
16.31 - 16.87		CP BL 0.2	R232268	33.70	34.29	0.59	0.01	0.07	0.13	0.01	0.06
16.31 - 16.87		PY BL 0.2	R232269	34.29	35.60	1.31	0.00	0.00	0.00	0.00	0.01
16.87 - 33.23		PY BL 0.1	R232270	35.60	37.05	1.45	0.00	0.00	0.00	0.00	0.00
33.23 - 33.70		PY BL 1	R232271	37.05	38.48	1.43	0.00	0.00	0.00	0.00	0.00
33.23 - 33.70		CP DIS 5	R232272	38.48	39.95	1.47	0.00	0.00	0.00	0.01	0.00
33.70 - 34.29		PY BL 0.2	R232273	39.95	41.48	1.53	0.00	0.00	0.00	0.00	0.00
33.70 - 34.29		CP DIS 0.2	R232274	41.48	42.97	1.49	0.00	0.00	0.00	0.00	0.00
34.29 - 45.45		PY BL 0.1	R232275	42.97	44.43	1.46	0.00	0.00	0.00	0.00	0.00
45.45 - 45.55		PY BL 0.1	R232276	44.43	45.84	1.41	0.00	0.00	0.00	0.00	0.01
45.45 - 45.55		CP BL 0.1	R232277	45.84	47.32	1.48	0.00	0.04	0.04	0.00	0.01
45.55 - 53.00		PY BL 0.1	R232280	47.32	48.79	1.47	0.00	0.00	0.00	0.00	0.00
53.00 - 69.00		PY BL 0.1	R232281	48.79	50.29	1.50	0.00	0.00	0.00	0.00	0.01
53.00 - 69.00		CP BL 0.1	R232282	50.29	51.78	1.49	0.00	0.00	0.00	0.00	0.01
69.00 - 84.81		PY BL 0.1	R232283	51.78	53.24	1.46	0.00	0.00	0.00	0.00	0.00
84.81 - 85.26		PY BL 0.1	R232284	53.24	54.64	1.40	0.00	0.00	0.00	0.00	0.00
84.81 - 85.26		CP BL 0.1	R232285	54.64	56.08	1.44	0.00	0.00	0.00	0.00	0.00
85.26 - 114.46		PY BL 0.1	R232286	56.08	57.57	1.49	0.00	0.00	0.00	0.00	0.00
			R232287	57.57	59.07	1.50	0.00	0.00	0.00	0.00	0.00
			R232288	59.07	60.53	1.46	0.00	0.00	0.00	0.00	0.00
			R232289	60.53	62.00	1.47	0.00	0.00	0.00	0.00	0.00
			R232290	62.00	63.39	1.39	0.00	0.00	0.00	0.00	0.00
			R232291	63.39	64.84	1.45	0.00	0.00	0.00	0.00	0.01
			R232292	64.84	66.18	1.34	0.00	0.00	0.00	0.00	0.01
			R232293	66.18	67.65	1.47	0.00	0.00	0.00	0.00	0.00
			R232294	67.65	68.85	1.20	0.00	0.03	0.03	0.01	0.01
			R232295	68.85	70.17	1.32	0.00	0.10	0.09	0.00	0.01
			R232296	70.17	71.66	1.49	0.00	0.00	0.00	0.00	0.00

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Project: **WISNER_GLENCORE NRJV**

Project Number: **642**

<i>From</i> (m)	<i>To</i> (m)	<i>Lithology</i>	<i>Sample #</i>	<i>From</i>	<i>To</i>	<i>Length</i>	<i>Au</i> (g/t)	<i>Pt</i> (g/t)	<i>Pd</i> (g/t)	<i>Ni</i> (%)	<i>Cu</i> (%)
			R232297	71.66	72.97	1.31	0.00	0.00	0.00	0.00	0.00
			R232300	72.97	74.44	1.47	0.00	0.00	0.00	0.00	0.00
			R232351	74.44	75.74	1.30	0.00	0.00	0.00	0.00	0.00
			R232352	75.74	77.18	1.44	0.00	0.00	0.00	0.02	0.00
			R232353	77.18	78.54	1.36	0.00	0.00	0.00	0.00	0.01
			R232354	78.54	79.98	1.44	0.00	0.00	0.00	0.00	0.01
			R232357	79.98	81.38	1.40	0.00	0.00	0.00	0.00	0.01
			R232358	81.38	82.86	1.48	0.00	0.00	0.00	0.00	0.01
			R232359	82.86	84.23	1.37	0.00	0.00	0.00	0.00	0.01
			R232360	84.23	84.81	0.58	0.00	0.02	0.03	0.00	0.01
			R232361	84.81	85.26	0.45	0.04	0.43	0.59	0.04	0.12
			R232362	85.26	86.32	1.06	0.00	0.00	0.00	0.00	0.00
			R232363	86.32	87.66	1.34	0.00	0.00	0.00	0.00	0.00
			R232364	87.66	88.94	1.28	0.00	0.00	0.00	0.00	0.00
			R232365	88.94	90.35	1.41	0.00	0.00	0.00	0.00	0.00
			R232366	113.10	113.92	0.82	0.00	0.00	0.00	0.00	0.00
			R232367	113.92	114.44	0.52	0.00	0.00	0.00	0.00	0.01
114.46	122.04	IGN <i>Intermediate Gneiss</i>	R232368	114.44	115.48	1.04	0.00	0.00	0.00	0.00	0.01
		<i>Alteration Maj:</i> <i>Type/Style/Intensity</i> <i>Comment</i>									
		114.46 - 122.04 HE P M									
		<i>Mineralization Maj. :</i> <i>Type/Style/%Mineral</i> <i>Comment</i>									
		114.46 - 122.04 PY BL 0.1									
122.04	136.57	FGN <i>Felsic Gneiss</i>									

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Hole Number **WIS-210**

Project: **WISNER_GLENCORE NRJV**

Project Number: **642**

<i>From</i> (m)	<i>To</i> (m)	<i>Lithology</i>	<i>Sample #</i>	<i>From</i>	<i>To</i>	<i>Length</i>	<i>Au</i> (g/t)	<i>Pt</i> (g/t)	<i>Pd</i> (g/t)	<i>Ni</i> (%)	<i>Cu</i> (%)
		medium to coarse grained, banded									
		Alteration Maj:									
		<i>Type/Style/Intensity</i>	<i>Comment</i>								
		122.04 - 136.57	HE P WM								
		Mineralization Maj. :									
		<i>Type/Style/%Mineral</i>	<i>Comment</i>								
		122.04 - 136.57	PY BL 0.1								
136.57	136.90	SDBX	Sudbury Breccia			2AC4					
		hot									
136.90	148.33	FGN	Felsic Gneiss								
		Alteration Maj:									
		<i>Type/Style/Intensity</i>	<i>Comment</i>								
		136.90 - 148.33	HE P WM								
		Mineralization Maj. :									
		<i>Type/Style/%Mineral</i>	<i>Comment</i>								
		136.90 - 148.33	PY BL 0.1								
148.33	148.57	SDBX	Sudbury Breccia			2AC3					
		Alteration Maj:									
		<i>Type/Style/Intensity</i>	<i>Comment</i>								
		148.33 - 148.57	EP P M								

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<i>From</i> (m)	<i>To</i> (m)	<i>Lithology</i>	<i>Sample #</i>	<i>From</i>	<i>To</i>	<i>Length</i>	<i>Au</i> (g/t)	<i>Pt</i> (g/t)	<i>Pd</i> (g/t)	<i>Ni</i> (%)	<i>Cu</i> (%)
148.57	150.34	FGN Felsic Gneiss									
		<i>Alteration Maj:</i> <i>Type/Style/Intensity</i> <i>Comment</i>									
		148.57 - 150.34 HE P WM									
		<i>Mineralization Maj. :</i> <i>Type/Style/%Mineral</i> <i>Comment</i>									
		148.57 - 150.34 PY BL 0.1									
150.34	150.94	SDBX Sudbury Breccia				2AC3					
		<i>Alteration Maj:</i> <i>Type/Style/Intensity</i> <i>Comment</i>									
		150.34 - 150.94 EP FF M									
150.94	179.18	FGN Felsic Gneiss									
		PM at 159.29-159.31, 161.92-161.94, 162.15-162.19.									
		<i>Alteration Maj:</i> <i>Type/Style/Intensity</i> <i>Comment</i>									
		150.94 - 156.00 HE P WM									
		156.00 - 156.28 HE P WM									
		156.00 - 156.28 EP P S									

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Project Number: **642**

<i>From</i> (m)	<i>To</i> (m)	<i>Lithology</i>		<i>Sample #</i>	<i>From</i>	<i>To</i>	<i>Length</i>	<i>Au</i> (g/t)	<i>Pt</i> (g/t)	<i>Pd</i> (g/t)	<i>Ni</i> (%)	<i>Cu</i> (%)
	156.28 - 163.00	HE	P WM									
	163.00 - 164.00	HE	P WM									
	163.00 - 164.00	EP	FF M									
	164.00 - 179.18	HE	P WM									
	Mineralization Maj. :	Type/Style/%Mineral	Comment									
	150.94 - 179.18	PY BL 0.1										
179.18	179.57	SDBX	Sudbury Breccia				2AC3					
179.57	198.62	FGN	Felsic Gneiss									
	Alteration Maj:	Type/Style/Intensity	Comment									
	179.57 - 198.62	HE P WM										
	Mineralization Maj. :	Type/Style/%Mineral	Comment									
	179.57 - 198.62	PY BL 0.1										
	Structure Maj.:	Type/Core Angle	Comment									
	185.00 - 187.00	BC										
198.62	198.70	SDBX	Sudbury Breccia				2AC3					

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<i>From</i> (m)	<i>To</i> (m)	<i>Lithology</i>	<i>Sample #</i>	<i>From</i>	<i>To</i>	<i>Length</i>	<i>Au</i> (g/t)	<i>Pt</i> (g/t)	<i>Pd</i> (g/t)	<i>Ni</i> (%)	<i>Cu</i> (%)
198.70	211.06	FGN <i>Felsic Gneiss</i>									
		<i>Alteration Maj:</i> <i>Type/Style/Intensity</i> <i>Comment</i>									
		198.70 - 211.06 HE P WM									
		<i>Mineralization Maj. :</i> <i>Type/Style/%Mineral</i> <i>Comment</i>									
		198.70 - 211.06 PY BL 0.1									
211.06	212.56	SDBX <i>Sudbury Breccia</i>									
		larger FGN clasts within breccia									
						1AC3					
212.56	232.74	FGN <i>Felsic Gneiss</i>									
		<i>Alteration Maj:</i> <i>Type/Style/Intensity</i> <i>Comment</i>									
		212.56 - 232.74 HE P WM									
		<i>Mineralization Maj. :</i> <i>Type/Style/%Mineral</i> <i>Comment</i>									
		212.56 - 232.74 PY BL 0.1									

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<i>From</i> (m)	<i>To</i> (m)	<i>Lithology</i>		<i>Sample #</i>	<i>From</i>	<i>To</i>	<i>Length</i>	<i>Au</i> (g/t)	<i>Pt</i> (g/t)	<i>Pd</i> (g/t)	<i>Ni</i> (%)	<i>Cu</i> (%)
232.74	233.19	SDBX	Sudbury Breccia				2AC4					
233.19	236.14	FGN	Felsic Gneiss									
		Alteration Maj:		Type/Style/Intensity	Comment							
		233.19 - 236.14		HE P WM								
		Mineralization Maj. :		Type/Style/%Mineral	Comment							
		233.19 - 236.14		PY BL 0.1								
236.14	237.69	SDBX	Sudbury Breccia				2AC4					
237.69	249.66	DIA	Diabase									
		fine grained, mafic										

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<i>From</i> (m)	<i>To</i> (m)	<i>Lithology</i>	<i>Sample #</i>	<i>From</i>	<i>To</i>	<i>Length</i>	<i>Au</i> (g/t)	<i>Pt</i> (g/t)	<i>Pd</i> (g/t)	<i>Ni</i> (%)	<i>Cu</i> (%)
249.66	263.37	MGN <i>Mafic Gneiss</i> medium to coarse grained, banded <i>Mineralization Maj. :</i> <i>Type/Style/%Mineral</i> <i>Comment</i> 249.66 - 263.37 PY BL 0.1									
263.37	263.70	SDBX <i>Sudbury Breccia</i>				1AC4					
263.70	271.51	MGN <i>Mafic Gneiss</i> <i>Mineralization Maj. :</i> <i>Type/Style/%Mineral</i> <i>Comment</i> 263.70 - 271.51 PY BL 0.1									
271.51	278.55	SDBX <i>Sudbury Breccia</i> some larger MGN and DIA clasts				1AC4					

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<i>From</i> (m)	<i>To</i> (m)	<i>Lithology</i>	<i>Sample #</i>	<i>From</i>	<i>To</i>	<i>Length</i>	<i>Au</i> (g/t)	<i>Pt</i> (g/t)	<i>Pd</i> (g/t)	<i>Ni</i> (%)	<i>Cu</i> (%)
278.55	286.61	DIA <i>Diabase</i> fine grained mafic									
286.61	291.97	SDBX <i>Sudbury Breccia</i> large granitic clasts, smaller mafic ones.				2AC3					
		<i>Mineralization Maj. :</i>	<i>Type/Style/%Mineral</i>	<i>Comment</i>							
		286.61 - 291.97	PY BL 0.1								
291.97	294.89	FGN <i>Felsic Gneiss</i> medium to coarse grained, banded									
294.89	294.97	SDBX <i>Sudbury Breccia</i>				2AC3					

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<i>From</i> <i>(m)</i>	<i>To</i> <i>(m)</i>	<i>Lithology</i>	<i>Sample #</i>	<i>From</i>	<i>To</i>	<i>Length</i>	<i>Au</i> <i>(g/t)</i>	<i>Pt</i> <i>(g/t)</i>	<i>Pd</i> <i>(g/t)</i>	<i>Ni</i> <i>(%)</i>	<i>Cu</i> <i>(%)</i>
294.97	295.68	FGN <i>Felsic Gneiss</i>									
295.68	302.54	SDBX <i>Sudbury Breccia</i> mix of granitic and intermediate gneiss make up the larger clasts, with small mafics				2AC4					
302.54	306.43	FGN <i>Felsic Gneiss</i>									
		<i>Alteration Maj:</i>									
		<i>Type/Style/Intensity</i>									
		<i>Comment</i>									
		302.54 - 306.43									
		302.54 - 306.43									
306.43	306.85	SDBX <i>Sudbury Breccia</i>				2AC4					

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 Project: **WISNER_GLENCORE NRJV**

 Project Number: **642**

<i>From</i> <i>(m)</i>	<i>To</i> <i>(m)</i>	<i>Lithology</i>	<i>Sample #</i>	<i>From</i>	<i>To</i>	<i>Length</i>	<i>Au</i> <i>(g/t)</i>	<i>Pt</i> <i>(g/t)</i>	<i>Pd</i> <i>(g/t)</i>	<i>Ni</i> <i>(%)</i>	<i>Cu</i> <i>(%)</i>
306.85	313.67	FGN <i>Felsic Gneiss</i>									
		<i>Alteration Maj:</i>									
313.67	313.85	SDBX <i>Sudbury Breccia</i>									
		hot									
313.85	322.85	FGN <i>Felsic Gneiss</i>									
		<i>Alteration Maj:</i>									

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Hole Number **WIS-210**

Project: **WISNER_GLENCORE NRJV**

Project Number: **642**

<i>From</i> (m)	<i>To</i> (m)	<i>Lithology</i>	<i>Sample #</i>	<i>From</i>	<i>To</i>	<i>Length</i>	<i>Au</i> (g/t)	<i>Pt</i> (g/t)	<i>Pd</i> (g/t)	<i>Ni</i> (%)	<i>Cu</i> (%)
322.85	324.76	SDBX Sudbury Breccia clasts are mostly granitic, but some diabase	1AC4								
324.76	328.91	MGN Mafic Gneiss fine to medium grained, banded									
328.91	329.53	SDBX Sudbury Breccia hot	1AC4								
329.53	349.53	MGN Mafic Gneiss 333.91-333.92 PM, 342.31-342.57 PEG, 343-343.17 PEG									

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Hole Number **WIS-210**

Project: **WISNER_GLENCORE NRJV**

Project Number: **642**

<i>From</i> (m)	<i>To</i> (m)	<i>Lithology</i>	<i>Sample #</i>	<i>From</i>	<i>To</i>	<i>Length</i>	<i>Au</i> (g/t)	<i>Pt</i> (g/t)	<i>Pd</i> (g/t)	<i>Ni</i> (%)	<i>Cu</i> (%)
349.53	354.87	SDBX Sudbury Breccia with ~50cm DIA clast in the middle Alteration Maj: Type/Style/Intensity Comment 351.43 - 351.82 HE P S	1AC4								
354.87	389.62	MGN Mafic Gneiss 363.59-363.61 PM, 366.02-366.37 PEG, 371.8-371.83 PM, 374.2-374.24 PM, 376.69-376.82 PEG, 382.36-382.43 PEG, 383.66-383.78 PEG Alteration Maj: Type/Style/Intensity Comment 360.00 - 366.00 EP FF MS									
389.62	414.00	FGN Felsic Gneiss medium to coarse grained, banded with ~5% SDBX in small <5cm veins, typically 1AC4, but some 2AC4 Alteration Maj: Type/Style/Intensity Comment 389.62 - 414.00 HE P MS									
414.00	414.84	SDBX Sudbury Breccia hot Alteration Maj: Type/Style/Intensity Comment	1AC4								

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Hole Number **WIS-210**

Project: **WISNER_GLENCORE NRJV**

Project Number: **642**

<i>From</i> (m)	<i>To</i> (m)	<i>Lithology</i>		<i>Sample #</i>	<i>From</i>	<i>To</i>	<i>Length</i>	<i>Au</i> (g/t)	<i>Pt</i> (g/t)	<i>Pd</i> (g/t)	<i>Ni</i> (%)	<i>Cu</i> (%)
	414.00 - 414.84	HE	P MS									
	414.00 - 414.84	EP	FF S									
414.84	417.27	DIA	Diabase									
417.27	422.36	SDBX	Sudbury Breccia				1AC4					
		hot										
		Alteration Maj:	Type/Style/Intensity	Comment								
	417.27 - 422.36		HE P MS									
	417.27 - 422.36		EP FF S									
422.36	426.86	DIA	Diabase									

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Hole Number **WIS-210**

Project: **WISNER_GLENCORE NRJV**

Project Number: **642**

<i>From</i> (m)	<i>To</i> (m)	<i>Lithology</i>	<i>Sample #</i>	<i>From</i>	<i>To</i>	<i>Length</i>	<i>Au</i> (g/t)	<i>Pt</i> (g/t)	<i>Pd</i> (g/t)	<i>Ni</i> (%)	<i>Cu</i> (%)
426.86	454.79	FGN Felsic Gneiss									
		Alteration Maj: Type/Style/Intensity Comment									
		426.86 - 454.79 HE P MS									
		426.86 - 454.79 EP FF MS									
		Mineralization Maj. : Type/Style/%Mineral Comment									
		426.86 - 454.79 PY BL 0.1									
454.79	455.47	MYL Mylonite									
		very deformed section of banded rock - ductile structure, may not be a true mylonite									
455.47	501.78	FGN Felsic Gneiss									
		Alteration Maj: Type/Style/Intensity Comment									
		455.47 - 501.78 HE P MS									
		455.47 - 501.78 EP FF MS									
		Mineralization Maj. : Type/Style/%Mineral Comment									
		455.47 - 501.78 PY BL 0.1									
501.78	501.93	SDBX Sudbury Breccia									
			2AC3								

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Hole Number **WIS-210**

Project: **WISNER_GLENCORE NRJV**

Project Number: **642**

<i>From</i> (m)	<i>To</i> (m)	<i>Lithology</i>	<i>Sample #</i>	<i>From</i>	<i>To</i>	<i>Length</i>	<i>Au</i> (g/t)	<i>Pt</i> (g/t)	<i>Pd</i> (g/t)	<i>Ni</i> (%)	<i>Cu</i> (%)
501.93	529.02	FGN <i>Felsic Gneiss</i>									
		<i>Alteration Maj:</i>									
		501.93 - 529.02									
		501.93 - 529.02									
		<i>Mineralization Maj. :</i>									
		501.93 - 529.02									
529.02	530.41	SDBX <i>Sudbury Breccia</i>				1AC3					
		cold									
		<i>Alteration Maj:</i>									
		529.02 - 530.41									
		529.02 - 530.41									
530.41	541.92	FGN <i>Felsic Gneiss</i>									
		~2% SDBX 1AC3, medium to coarse grained, banded. Some bands look like deformed MCQMON.									
		<i>Alteration Maj:</i>									

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Hole Number **WIS-210**

Project: **WISNER_GLENCORE NRJV**

Project Number: **642**

<i>From</i> (m)	<i>To</i> (m)	<i>Lithology</i>	<i>Sample #</i>	<i>From</i>	<i>To</i>	<i>Length</i>	<i>Au</i> (g/t)	<i>Pt</i> (g/t)	<i>Pd</i> (g/t)	<i>Ni</i> (%)	<i>Cu</i> (%)
	530.41 - 541.92	HE P S									
	530.41 - 541.92	EP FF W									
541.92	0.00	EOH									
		<i>End of Hole</i>									

DRILL HOLE REPORT

 Hole Number **WIS-211**

 Project: **WISNER_GLENCORE NRJV**

 Project Number: **642**

Drilling	Casing	Core	Location	Other
Azimuth: 360	Length: 0	Dimension: NQ	Township: WISNER	Logged by: Maribeth Moll
Dip: -80	Pulled: no	Storage: Core Shed	Claim No.: 984629	Relog by:
Length: 554.1	Capped: yes	Section:	NTS:	Contractor: Jacob & Samuel Drilling Ltd.
Started: 20-May-15	Cemented: no	Hole Type DD	Hole: SURFACE	Spotted by: Tom Johnson
Completed: 28-May-15				Surveyed:
Logged: 21-May-15				Surveyed by: Wallbridge-Other
Comment: Mistaken numbering of core boxes after BX 89. 2 boxes labeled 89 and 90. The box numbers are off by two after box 91. Will Be Fixed. Block Error from 236m, they jump from 233m to 239m, but there is a block correction at 335m. Blocky from 503m to 520m. The reflex from Windy unit may be			Coordinate - Gemcom	Geophysics: UTEM
			East: 495253	Geophysic Contractor: Lamontagne
			North: 5178033	Left in hole: Nothing
			Elev.: 419	Making water: no
			Zone: 17	Multi shot survey: no
			NAD: 27	

Deviation Tests

<i>Distance</i>	<i>Azimuth</i>	<i>Dip</i>	<i>Type</i>	<i>Good</i>	<i>Comments</i>
0.00	360.00	-80.00	C	<input checked="" type="checkbox"/>	
65.00	3.10	-82.10	F	<input checked="" type="checkbox"/>	Mag=5534
116.00	3.20	-82.00	F	<input checked="" type="checkbox"/>	Mag=5556
167.00	1.30	-82.30	F	<input checked="" type="checkbox"/>	Mag=5491, Temp=16.5, Roll=183.6
218.00	1.90	-82.30	F	<input checked="" type="checkbox"/>	Mag=5554, Temp=18.0, Roll=231.2
269.00	0.10	-82.20	F	<input checked="" type="checkbox"/>	Mag=5511, Temp=20.3, Roll=353.3 (using Windy unit)
320.00	358.60	-82.20	F	<input checked="" type="checkbox"/>	Mag=5519
371.00	359.70	-82.10	F	<input checked="" type="checkbox"/>	Mag=5504
422.00	2.40	-82.10	F	<input checked="" type="checkbox"/>	Mag=5500
473.00	0.30	-81.90	F	<input checked="" type="checkbox"/>	Mag=5521
524.00	351.30	-81.80	F	<input type="checkbox"/>	Mag=5249
554.00	16.20	-81.50	F	<input type="checkbox"/>	Mag=5017, Temp=16.9, EOH

LITHOLOGY REPORT
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Hole Number **WIS-211**

Project: **WISNER_GLENCORE NRJV**

Project Number: **642**

<i>From</i> (m)	<i>To</i> (m)	<i>Lithology</i>		<i>Sample #</i>	<i>From</i>	<i>To</i>	<i>Length</i>	<i>Au</i> (g/t)	<i>Pt</i> (g/t)	<i>Pd</i> (g/t)	<i>Ni</i> (%)	<i>Cu</i> (%)
0.00	0.32	CAS	Casing									
0.32	2.80	FGN	Felsic Gneiss									
<p>Leucocratic med. pink; m-coarse grained; mod foliation, weakly magnetic, trace disseminated pyrite, and sharp lower contact ~50dtca; minor SDBX intervals; PMs; weak-moderate pervasive ep; weak-strong hem mainly along grain margins.</p>												
2.80	12.65	IGN	Intermediate Gneiss									
<p>Mesocratic banded dark green, med. grey, and med pink, fine to coarse-grained, moderately foliated, weakly magnetic, trace diss. Py, sharp lower contact 40dtca.</p>												
12.65	19.03	FGN	Felsic Gneiss	R232371	17.53	19.03	1.50	0.00	0.00	0.00	0.00	0.00
<p>Leucocratic med. pink; m-coarse grained; mod foliation, weakly magnetic, trace disseminated pyrite, and gradational lower contact ~55dtca; minor SDBX intervals; PMs; weak-moderate pervasive ep; weak-strong hem mainly along grain margins.</p>												

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Hole Number **WIS-211**

Project: **WISNER_GLENCORE NRJV**

Project Number: **642**

<i>From</i> (m)	<i>To</i> (m)	<i>Lithology</i>	<i>Sample #</i>	<i>From</i>	<i>To</i>	<i>Length</i>	<i>Au</i> (g/t)	<i>Pt</i> (g/t)	<i>Pd</i> (g/t)	<i>Ni</i> (%)	<i>Cu</i> (%)
19.03	19.48	SDBX <i>Sudbury Breccia</i> 2D1 275.15-275.45- Hot SDBX, matrix dominated, with large granitoid clasts, small granitoid pseudo-smearred clast, grey quartz eyes, no visible sulfides, wavy upper contact and sharp lower contact. At the lower contact the matrix of the SDBX has pervasive moderate epidote alteration. Medium pink with lesser cream and dark green, coarse-peg sized crystals, with finer dark green-grey bands of MGN, larger felsic crystals have hematite coating crystal surfaces, epi-amph alter of magic minerals, trace py 0.5% disseminated py throughout, SDBX at lower contact with IGN.	R232372	19.03	19.48	0.45	0.00	0.00	0.00	0.01	0.01
19.48	20.15	IGN <i>Intermediate Gneiss</i> Pyrite-carbonate (rimmed with epidote) occur as crosscutting veins, blebs, along gneissic fabric and disseminated. One 30cm section has 2% pyrite.	R232373	19.48	20.15	0.67	0.00	0.00	0.00	0.00	0.03
20.15	21.30	FWBX <i>Footwall Breccia</i>	R232374	20.15	21.30	1.15	0.00	0.00	0.00	0.00	0.00
21.30	22.36	IGN <i>Intermediate Gneiss</i> Mesocratic banded dark green, med. grey, and med pink, fine to coarse-grained, moderately foliated, weakly magnetic, trace diss. Py, sharp l	R232375	21.30	22.36	1.06	0.00	0.00	0.00	0.00	0.00

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Hole Number **WIS-211**

Project: **WISNER_GLENCORE NRJV**

Project Number: **642**

<i>From</i> (m)	<i>To</i> (m)	<i>Lithology</i>	<i>Sample #</i>	<i>From</i>	<i>To</i>	<i>Length</i>	<i>Au</i> (g/t)	<i>Pt</i> (g/t)	<i>Pd</i> (g/t)	<i>Ni</i> (%)	<i>Cu</i> (%)
22.36	27.82	SDBX Sudbury Breccia	2D1								
		27.66-27.82 SDBX 2D2	R232376	22.36	23.36	1.00	0.00	0.00	0.00	0.00	0.01
			R232377	23.36	24.32	0.96	0.00	0.00	0.00	0.01	0.01
			R232378	24.32	25.82	1.50	0.00	0.00	0.00	0.00	0.00
27.82	35.05	IGN Intermediate Gneiss	2D2								
		Mesocratic banded dark green, med. grey, and med pink, fine to coarse-grained, moderately foliated, weakly magnetic, trace diss. Py, sharp l									
35.05	50.04	FGN Felsic Gneiss									
		Leucocratic med. pink; m-coarse grained; mod foliation, weakly magnetic, trace disseminated pyrite, and gradational lower contact ~55dtca; minor SDBX intervals; PMS; weak-moderate pervasive ep; weak-strong hem mainly along grain margins.									
50.04	54.78	IGN Intermediate Gneiss									
		Mesocratic banded dark green, med. grey, and med pink, fine to coarse-grained, moderately foliated,									

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Hole Number **WIS-211**

Project: **WISNER_GLENCORE NRJV**

Project Number: **642**

<i>From</i> (m)	<i>To</i> (m)	<i>Lithology</i>	<i>Sample #</i>	<i>From</i>	<i>To</i>	<i>Length</i>	<i>Au</i> (g/t)	<i>Pt</i> (g/t)	<i>Pd</i> (g/t)	<i>Ni</i> (%)	<i>Cu</i> (%)
		weakly magnetic, trace diss. Py, sharp l									
54.78	110.20	FGN <i>Felsic Gneiss</i>									
110.34	115.50	IGN <i>Intermediate Gneiss</i>				2D1					
115.50	128.40	SDBX <i>Sudbury Breccia</i>				2D2					
		118.15-119.90 recrystallized pegmatite dyke with black hydrothermal breccia vein possibly crosscutting partial melt. Small blebs of SDBX, Trace disseminated cpy along altered gneissic band (poss. Proximal to partial melt).	R232379	120.23	121.73	1.50	0.00	0.00	0.00	0.00	0.00
			R232380	121.73	122.50	0.77	0.00	0.00	0.00	0.00	0.01
			R232381	122.50	124.00	1.50	0.00	0.00	0.00	0.00	0.00
			R232382	124.00	125.30	1.30	0.00	0.00	0.00	0.01	0.00
			R232383	125.30	126.50	1.20	0.00	0.00	0.00	0.00	0.00
			R232384	126.50	127.14	0.64	0.00	0.00	0.00	0.00	0.03
			R232385	127.14	128.40	1.26	0.00	0.00	0.00	0.00	0.00
128.40	129.15	MDIA <i>Matachewan Diabase</i>									

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<i>From</i> (m)	<i>To</i> (m)	<i>Lithology</i>	<i>Sample #</i>	<i>From</i>	<i>To</i>	<i>Length</i>	<i>Au</i> (g/t)	<i>Pt</i> (g/t)	<i>Pd</i> (g/t)	<i>Ni</i> (%)	<i>Cu</i> (%)
129.15	138.95	SDBX <i>Sudbury Breccia</i>	2ACD2								
		small pods of SDBX throughout. SDBX with brecciated margins from 137.0-137.60. 140.35 pod of SDBX contains trace to .5% . sulfides py>po>cpy surrounding small mafic clasts. 142.55m cpy along margin of SDBX within partial melt.	R232386	135.77	136.57	0.80	0.00	0.00	0.00	0.03	0.00
			R232387	136.57	137.63	1.06	0.00	0.00	0.00	0.01	0.00
			R232388	137.63	138.00	0.37	0.00	0.00	0.00	0.01	0.00
			R232391	138.00	139.05	1.05	0.00	0.00	0.00	0.01	0.01
138.95	142.02	IGN <i>Intermediate Gneiss</i>									
			R232392	139.05	139.45	0.40	0.00	0.00	0.00	0.03	0.00
			R232393	139.45	140.15	0.70	0.00	0.00	0.00	0.01	0.01
			R232394	140.15	140.45	0.30	0.00	0.00	0.00	0.01	0.02
			R232395	140.45	142.00	1.55	0.00	0.00	0.00	0.01	0.01
142.02	143.90	SDBX <i>Sudbury Breccia</i>	2DC2								
			R232396	142.00	143.50	1.50	0.00	0.00	0.00	0.01	0.01

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<i>From</i> (m)	<i>To</i> (m)	<i>Lithology</i>		<i>Sample #</i>	<i>From</i>	<i>To</i>	<i>Length</i>	<i>Au</i> (g/t)	<i>Pt</i> (g/t)	<i>Pd</i> (g/t)	<i>Ni</i> (%)	<i>Cu</i> (%)
143.90	149.50	IGN	Intermediate Gneiss	R232397	143.50	145.00	1.50	0.00	0.00	0.00	0.00	0.00
				R232398	145.00	146.50	1.50	0.00	0.00	0.00	0.00	0.00
				R232399	146.50	148.00	1.50	0.00	0.00	0.00	0.00	0.00
				R232400	148.00	149.50	1.50	0.00	0.00	0.00	0.01	0.00
149.50	151.00	GRGN	granite gneiss trace cpy-po, possible partial melts	R232401	149.50	150.90	1.40	0.00	0.00	0.00	0.00	0.00
151.00	154.84	SDBX	Sudbury Breccia Hot SDBX or FWBX. ~153-154 Matachewan Diabase	2D1 R232402	150.90	151.21	0.31	0.00	0.00	0.00	0.00	0.08
				R232403	151.21	152.50	1.29	0.00	0.01	0.01	0.01	0.01
				R232404	152.50	154.00	1.50	0.00	0.01	0.01	0.01	0.00
				R232405	154.00	155.50	1.50	0.00	0.00	0.00	0.00	0.00
154.84	158.00	GRGN	granite gneiss Disseminated pyrite with possible trace cpy	R232406	155.50	157.00	1.50	0.00	0.00	0.00	0.00	0.00
				R232407	157.00	158.50	1.50	0.00	0.00	0.00	0.00	0.00

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Project: **WISNER_GLENCORE NRJV**

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<i>From</i> <i>(m)</i>	<i>To</i> <i>(m)</i>	<i>Lithology</i>	<i>Sample #</i>	<i>From</i>	<i>To</i>	<i>Length</i>	<i>Au</i> <i>(g/t)</i>	<i>Pt</i> <i>(g/t)</i>	<i>Pd</i> <i>(g/t)</i>	<i>Ni</i> <i>(%)</i>	<i>Cu</i> <i>(%)</i>
158.00	161.78	IGN <i>Intermediate Gneiss</i> Section of MYL or MCQMON	R232408	158.50	160.00	1.50	0.00	0.00	0.00	0.00	0.00
			R232411	160.00	161.50	1.50	0.00	0.00	0.00	0.01	0.00
161.78	162.48	FWBX <i>Footwall Breccia</i>	R232412	161.50	163.25	1.75	0.00	0.00	0.00	0.01	0.00
162.48	174.61	IGN <i>Intermediate Gneiss</i> b	R232413	163.25	164.00	0.75	0.00	0.00	0.00	0.02	0.01
			R232414	164.00	165.50	1.50	0.00	0.00	0.00	0.01	0.00
174.61	178.75	MYL <i>Mylonite</i>									
178.75	181.22	IGN <i>Intermediate Gneiss</i>									

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Project: **WISNER_GLENCORE NRJV**

Project Number: **642**

<i>From</i> (m)	<i>To</i> (m)		<i>Lithology</i>	<i>Sample #</i>	<i>From</i>	<i>To</i>	<i>Length</i>	<i>Au</i> (g/t)	<i>Pt</i> (g/t)	<i>Pd</i> (g/t)	<i>Ni</i> (%)	<i>Cu</i> (%)
181.22	187.00	MYL	<i>Mylonite</i>	R232486	181.22	181.70	0.48	0.00	0.00	0.00	0.00	0.00
187.00	206.51	IGN	<i>Intermediate Gneiss</i>									
206.51	209.26	MGN	<i>Mafic Gneiss</i>									
209.26	235.54	IGN	<i>Intermediate Gneiss</i>									
Partial melt that is beginning to be mylonized 216-230m												

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Project: **WISNER_GLENCORE NRJV**

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<i>From</i> (m)	<i>To</i> (m)	<i>Lithology</i>	<i>Sample #</i>	<i>From</i>	<i>To</i>	<i>Length</i>	<i>Au</i> (g/t)	<i>Pt</i> (g/t)	<i>Pd</i> (g/t)	<i>Ni</i> (%)	<i>Cu</i> (%)
235.54	240.10	PEG <i>Pegmatite</i> @ 239.66m is a 2-3cm bleb of cpy with no visible py.	R232487	238.10	239.53	1.43	0.00	0.00	0.00	0.00	0.00
			R232488	239.53	239.83	0.30	0.00	0.00	0.00	0.00	0.19
			R232489	239.83	240.23	0.40	0.00	0.00	0.00	0.00	0.00
240.10	284.46	IGN <i>Intermediate Gneiss</i> 1% disseminated py. 282.80-284.06m, SDBX 2DC2, felty biotite throughout. Brecciated lower contact.	R232490	240.23	241.33	1.10	0.00	0.00	0.00	0.01	0.00
284.46	291.62	MGN <i>Mafic Gneiss</i> with partial melts									
291.62	314.00	IGN <i>Intermediate Gneiss</i> 294.74-294.84m, 2C2, SDBX vein. with partial melts. SDBX 2D3 (8cm)									

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<i>From</i> (m)	<i>To</i> (m)	<i>Lithology</i>	<i>Sample #</i>	<i>From</i>	<i>To</i>	<i>Length</i>	<i>Au</i> (g/t)	<i>Pt</i> (g/t)	<i>Pd</i> (g/t)	<i>Ni</i> (%)	<i>Cu</i> (%)
314.00	315.00	SDBX <i>Sudbury Breccia</i> Hot SDBX 2D3/4 with disseminated py and py veinlets				2D3					
315.00	326.50	IGN <i>Intermediate Gneiss</i>									
326.50	328.40	FGN <i>Felsic Gneiss</i>									
328.40	329.00	SDBX <i>Sudbury Breccia</i> Hot SDBX 2DC2 with disseminated py and py veinlets				2DC2					

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<i>From</i> (m)	<i>To</i> (m)	<i>Lithology</i>	<i>Sample #</i>	<i>From</i>	<i>To</i>	<i>Length</i>	<i>Au</i> (g/t)	<i>Pt</i> (g/t)	<i>Pd</i> (g/t)	<i>Ni</i> (%)	<i>Cu</i> (%)
329.00	344.00	GRGN <i>granite gneiss</i> SDBX @ 334.5 2D 3/4 vn and 343.9 pot 2D3				2DC3					
344.00	353.00	FGN <i>Felsic Gneiss</i> SDBX 2D3 8cm vn				2DC3					
353.00	370.00	GRGN <i>granite gneiss</i>									
370.00	371.00	SDBX <i>Sudbury Breccia</i>				2D3					

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<i>From</i> <i>(m)</i>	<i>To</i> <i>(m)</i>		<i>Lithology</i>		<i>Sample #</i>	<i>From</i>	<i>To</i>	<i>Length</i>	<i>Au</i> <i>(g/t)</i>	<i>Pt</i> <i>(g/t)</i>	<i>Pd</i> <i>(g/t)</i>	<i>Ni</i> <i>(%)</i>	<i>Cu</i> <i>(%)</i>
371.00	379.86	FGN	<i>Felsic Gneiss</i>		R232491	372.66	374.05	1.39	0.00	0.00	0.00	0.00	0.00
					R232492	374.05	374.35	0.30	0.00	0.00	0.00	0.01	0.01
					R232493	374.35	375.83	1.48	0.00	0.00	0.00	0.00	0.00
379.86	404.72	DIA	<i>Diabase</i> Possible SDBX throughout?		R232494	390.06	390.37	0.31	0.00	0.00	0.00	0.01	0.01
404.72	405.30	SDBX	<i>Sudbury Breccia</i>	2DC3	R232495	404.68	405.05	0.37	0.00	0.00	0.00	0.00	0.01
405.30	405.87	DIA	<i>Diabase</i>										
405.87	407.15	SDBX	<i>Sudbury Breccia</i> Cobble and boulder size FGN and GRGN.	2DC3									

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<i>From</i> (m)	<i>To</i> (m)	<i>Lithology</i>	<i>Sample #</i>	<i>From</i>	<i>To</i>	<i>Length</i>	<i>Au</i> (g/t)	<i>Pt</i> (g/t)	<i>Pd</i> (g/t)	<i>Ni</i> (%)	<i>Cu</i> (%)
407.15	410.52	IGN <i>Intermediate Gneiss</i>									
410.52	416.50	FGN <i>Felsic Gneiss</i>									
416.50	421.34	IGN <i>Intermediate Gneiss</i> SDBX 2D3 (420.35-420.40)									
421.34	427.66	SDBX <i>Sudbury Breccia</i> 2D3/4				2D3					

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<i>From</i> (m)	<i>To</i> (m)		<i>Lithology</i>	<i>Sample #</i>	<i>From</i>	<i>To</i>	<i>Length</i>	<i>Au</i> (g/t)	<i>Pt</i> (g/t)	<i>Pd</i> (g/t)	<i>Ni</i> (%)	<i>Cu</i> (%)
427.66	429.00	FGN	<i>Felsic Gneiss</i>									
429.00	433.95	SDBX	<i>Sudbury Breccia</i>				2DC3					
433.95	435.80	IGN	<i>Intermediate Gneiss</i>									
435.80	439.00	SDBX	<i>Sudbury Breccia</i>				2D3					

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<i>From</i> (m)	<i>To</i> (m)	<i>Lithology</i>	<i>Sample #</i>	<i>From</i>	<i>To</i>	<i>Length</i>	<i>Au</i> (g/t)	<i>Pt</i> (g/t)	<i>Pd</i> (g/t)	<i>Ni</i> (%)	<i>Cu</i> (%)
439.00	444.00	IGN <i>Intermediate Gneiss</i>									
444.00	444.50	SDBX <i>Sudbury Breccia</i>				2AD3					
444.50	446.00	MDIA <i>Matachewan Diabase</i>									
446.00	446.30	SDBX <i>Sudbury Breccia</i>				2AD3					

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<i>From (m)</i>	<i>To (m)</i>	<i>Lithology</i>		<i>Sample #</i>	<i>From</i>	<i>To</i>	<i>Length</i>	<i>Au (g/t)</i>	<i>Pt (g/t)</i>	<i>Pd (g/t)</i>	<i>Ni (%)</i>	<i>Cu (%)</i>
446.30	448.30	IGN	<i>Intermediate Gneiss</i>	R232496	447.97	448.30	0.33	0.00	0.00	0.00	0.00	0.01
448.30	449.50	SDBX	<i>Sudbury Breccia</i>	2AD3	R232497	448.30	448.63	0.33	0.00	0.00	0.00	0.00
					R232498	448.63	448.92	0.29	0.00	0.00	0.01	0.01
		Mineralization Maj. :	Type/Style/%Mineral	Comment								
		448.30 - 448.80	CP BL 0.1	With Intense Epidote Alteration in the SDBX								
449.50	451.50	MDIA	<i>Matachewan Diabase</i>									
451.50	455.50	SDBX	<i>Sudbury Breccia</i>	2AD4	R232499	454.50	454.80	0.30	0.00	0.00	0.00	0.00
455.50	459.00	MDIA	<i>Matachewan Diabase</i>									

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459.00	461.00	SDBX	<i>Sudbury Breccia</i>		2AD4									
461.00	470.40	IGN	<i>Intermediate Gneiss</i>											
470.40	500.50	GRGN	<i>granite gneiss</i>											
500.50	502.70	SDBX	<i>Sudbury Breccia</i>		2AD3	R232500	502.46	502.73	0.27	0.00	0.00	0.00	0.01	0.01
			SDBX in the DIA											

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<i>From</i> (m)	<i>To</i> (m)	<i>Lithology</i>	<i>Sample #</i>	<i>From</i>	<i>To</i>	<i>Length</i>	<i>Au</i> (g/t)	<i>Pt</i> (g/t)	<i>Pd</i> (g/t)	<i>Ni</i> (%)	<i>Cu</i> (%)
502.70	505.56	DIA Diabase				2AD3					
		~10% SDBX. Medium grey, medium-grained, moderately to strongly magnetic with local hydrothermal breccia with epi ff. Healed breccia at lower contact.									
		Structure Maj.:	Type/Core Angle	Comment							
		502.00 - 505.20	VN 5	@505.10m, 2mm, epi-cc-cpy vn							
		502.00 - 505.20	VN 15	@504.93m, 2mm, epi-cc-cpy vn							
		502.00 - 505.20	VN 35	@504.83m, 1mm, epi-cc-cpy vn							
		502.00 - 505.20	VN 45	@504.45m, 1mm, epi-cc-cpy vn							
		502.00 - 505.20	VN 20	@503.16m, 1mm, epi-cc-cpy vn							
		502.00 - 505.20	VN 60	@502.77m, 3mm, epi vn							
		505.20 - 505.56	BLKY								
		Texture Maj.:	Type	Comment							
		505.20 - 505.56	BX	healed breccia							
		Minor Interval:									
		504.28	504.36	SDBX	<i>Sudbury Breccia</i>	SDBX 2AD3	Dark grey-green matrix, fine to medium green matrix, matrix dominated and 20% clasts.				
		Structure Min.:	Type/Core Angle	Comment							
		504.28 - 504.36	LC 75								
		504.28 - 504.36	UC 60								

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Minor Interval:											
504.60	504.71	SDBX <i>Sudbury Breccia</i> SDBX 2AD4 Dark grey-green matrix, fine to medium green matrix, matrix dominated and 20% clasts.									
		Structure Min.:	Type/Core Angle	Comment							
		504.60 - 504.71	LC 30								
		504.60 - 504.71	UC 30								
505.56	507.30	FLT <i>Fault</i> 2AD4 1.5 foot void as well. Strong hematite alteration hematite plus epidote alteration. Brecciated GRGN with hematite clay. Thin veins of 2AD4 SDBX.									
		Alteration Maj:	Type/Style/Intensity	Comment							
		505.56 - 507.30	EP P MS								
		505.56 - 507.30	HE P S								
		Mineralization Maj. :	Type/Style/%Mineral	Comment							
		505.56 - 507.30	PY DIS 0.1								
		Structure Maj.:	Type/Core Angle	Comment							
		505.56 - 507.30	G								
		505.56 - 507.30	FLT	brittle fault							
507.30	514.20	GRGN <i>granite gneiss</i> Medium to dark pink, weakly banded, weakly magnetic GRGN with trace disseminated pyrite strong hematite and epidote alteration. Healed breccia throughout with fracture-fill epi.									
		Alteration Maj:	Type/Style/Intensity	Comment							
		507.30 - 514.20	HE P M								
		507.30 - 514.20	EP P M								

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<i>From</i> (m)	<i>To</i> (m)	<i>Lithology</i>	<i>Sample #</i>	<i>From</i>	<i>To</i>	<i>Length</i>	<i>Au</i> (g/t)	<i>Pt</i> (g/t)	<i>Pd</i> (g/t)	<i>Ni</i> (%)	<i>Cu</i> (%)
	507.30 - 514.20	EP VN MS									
	Mineralization Maj. :	Type/Style/%Mineral	Comment								
	507.30 - 514.20	PY DIS 0.5									
	Structure Maj.:	Type/Core Angle	Comment								
	507.30 - 511.00	VN 80	@510.61-510.64m, light green epi vn								
	507.30 - 511.00	VN 80	@510.55m, 2.5cm, light green epi vn								
	507.30 - 511.00	VN 35	@509.88m, 1cm, light green epi vn								
	511.00 - 514.20	VN 65	@511.90-511.96m, 1cm, light green epi vn								
	511.00 - 514.20	VN 75	@511.2-511.45m, brecciated, light green epi vn								
	511.00 - 514.20	VN 50	@511.13m, 15mm, light green epi vn								
	511.00 - 514.20	VN 70	@510.94m, 1cm, light green epi vn								
	511.00 - 514.20	LC 40	sharp								
	Texture Maj:	Type	Comment								
	507.30 - 514.20	BX	healed breccas throughout epi-chl ff								
514.20	515.38	FLT	Fault								
		Splay of the Fault above. Intense hematite, amphibole, sericite, and chlorite alteration with hematite clay.									
	Structure Maj.:	Type/Core Angle	Comment								
	514.20 - 515.38	G									
	514.20 - 515.38	FLT	brittle fault								
	514.20 - 515.38	LC 30	sharp								
515.38	517.93	GRGN	granite gneiss								
		Medium to dark pink, weakly banded, weakly magnetic GRGN with trace disseminated pyrite. Hematite and Sericite to 517m									

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		Alteration Maj:									
		<i>Type/Style/Intensity</i>	<i>Comment</i>								
		515.38 - 517.00	EP PCH W								
		515.38 - 517.00	EP VN W								
		515.38 - 517.00	Ser P WM								
		515.38 - 517.00	HE PCH M								
		Mineralization Maj. :	<i>Type/Style/%Mineral</i>	<i>Comment</i>							
		515.38 - 517.93	PY DIS 0.5								
		Structure Maj.:	<i>Type/Core Angle</i>	<i>Comment</i>							
		515.38 - 517.93	LC 20	gradational							
		515.38 - 517.93	VN 30	@517.15m, 8mm, brecciated with angular pieces of wallrock							
517.93	527.66	IGN	Intermediate Gneiss								
		Alternating bands of MGN (70%) and FGN (30%), moderately foliated, moderately magnetic, locally healed fractures and brecciating. Patchy to vein Epidote and Hematite.									
		Alteration Maj:	<i>Type/Style/Intensity</i>	<i>Comment</i>							
		517.93 - 527.50	EP VN W								
		517.93 - 527.50	HE PCH M								
		517.93 - 527.50	EP PCH M								
		Mineralization Maj. :	<i>Type/Style/%Mineral</i>	<i>Comment</i>							
		517.93 - 527.66	PY DIS 0.1								
		Structure Maj.:	<i>Type/Core Angle</i>	<i>Comment</i>							
		517.93 - 527.66	VN 30	@524.040m, 5cm, wavy, light green epi vn							
		517.93 - 527.66	VN 45	@523.58m, 1cm, wavy, light green epi vn							
		517.93 - 527.66	VN 50	@523.53m, 5mm, wavy, light green epi vn							
		517.93 - 527.66	VN 25	@519.4m, 3mm, wavy, light green epi vn							

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<i>From</i> (m)	<i>To</i> (m)	<i>Lithology</i>		<i>Sample #</i>	<i>From</i>	<i>To</i>	<i>Length</i>	<i>Au</i> (g/t)	<i>Pt</i> (g/t)	<i>Pd</i> (g/t)	<i>Ni</i> (%)	<i>Cu</i> (%)
	517.93 - 527.66	VN	25				@518.20m, 5mm, wavy, light green epi vn					
	Minor Interval:											
	525.90	527.50	MGN				<i>Mafic Gneiss</i>					
			Gradational and irregular lower contact									
	Structure Min.:		Type/Core	Angle	Comment							
	525.90 - 527.50		FOL	40								
527.66	534.35	GRGN	granite gneiss				2D4					
	Medium to dark pink color, very coarse-grained, homogenous, equigranular, weakly banded with local x-cutting light pink pegmatites and SDBX veins.											
	Minor Interval:											
	529.90	529.91	SDBX				<i>Sudbury Breccia</i>					SDBX 2D4
			5mm wide, Dark grey-green matrix, sharp margins, medium grained granitoid clasts that are sub-rounded.									
	Structure Min.:		Type/Core	Angle	Comment							
	529.90 - 529.91		VN	35								
	Minor Interval:											
	530.12	530.33	SDBX				<i>Sudbury Breccia</i>					SDBX 2D3
			SDBX 2D3/4. medium green-grey matrix, matrix dominated, fine to coarse-grained granitoid clasts, sub-angular.									
	Structure Min.:		Type/Core	Angle	Comment							
	530.12 - 530.33		LC	30								
	530.12 - 530.33		UC	10								

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		Minor Interval:									
	530.54	530.58	SDBX	<i>Sudbury Breccia</i>		SDBX 2D4					
		Medium to light green-grey matrix, matrix dominated, medium-coarse-grained clasts of sub-angular granitoid.									
		Structure Min.:	Type/Core Angle	Comment							
	530.54	530.58	LC	75							
	530.54	530.58	UC	75							
534.35	538.18	IGN	Intermediate Gneiss			2D4					
		Alternating bands of GRGN and MGN. The MGN is moderately magnetic, moderately foliated and has 0.35% disseminated py.									
		Alteration Maj:	Type/Style/Intensity	Comment							
	534.35	538.18	CHL	PCH	W						
	534.35	538.18	EP	PCH	W						
	534.35	538.18	Qtz	VN	S						
	534.35	538.18	HE	PCH	MS						
		Mineralization Maj. :	Type/Style/%Mineral	Comment							
	534.35	538.18	PY	DIS	0.5						
		Structure Maj.:	Type/Core Angle	Comment							
	534.35	538.18	VN	50	@535.35m, 1cm, light green epi vn						
	534.35	538.18	LC	50	sharp						
538.18	540.18	MGN	Mafic Gneiss								
		Medium green-brown color, thinly foliated, and moderately magnetic.									
		Alteration Maj:	Type/Style/Intensity	Comment							

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	538.18 - 540.18	CHL PCH W									
	538.18 - 540.18	EP PCH W									
	Mineralization Maj. :	Type/Style/%Mineral	Comment								
	538.18 - 540.18	PY DIS 0.1									
	Structure Maj.:	Type/Core Angle	Comment								
	538.18 - 540.18	LC 40	sharp								
	538.18 - 540.18	FOL 60									
540.18	551.33	FGN Felsic Gneiss				2D4					
		3% SDBX. Medium pink, weakly banded, very coarse-grained, equigranular, homogenous with local x-cutting light green epi veins.									
		Alteration Maj:	Type/Style/Intensity	Comment							
	540.18 - 551.33	CHL B W									
	540.18 - 551.33	EP B W									
	540.18 - 551.33	HE PCH WM									
		Mineralization Maj. :	Type/Style/%Mineral	Comment							
	540.18 - 551.33	PY DIS 0.1									
		Structure Maj.:	Type/Core Angle	Comment							
	540.18 - 551.33	VN 15	@550.0, 3mm wide epi vn								
	540.18 - 551.33	LC 40	sharp								
		Minor Interval:									
	550.40 - 550.89	MGN	Mafic Gneiss								
		Minor Interval:									
	541.12 - 541.25	SDBX	Sudbury Breccia			SDBX 2D4					
		Dark green, fine-grained matrix, matrix dominated.									

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		Minor Interval:									
	546.60	546.65	SDBX	<i>Sudbury Breccia</i>		SDBX 2D4					
		Dark grey matrix, medium to coarse-grained granitoid clasts.									
		Minor Interval:									
	547.50	547.83	MGN	<i>Mafic Gneiss</i>							
551.33	552.60	DIA	<i>Diabase</i>								
		Dark grey to black color, very fine to fine-grained, moderate to weakly magnetic, weakly foliated, trace disseminated pyrite, undulating lower contact @ 60dca.									
		Alteration Maj:	<i>Type/Style/Intensity</i>	Comment							
		551.33 - 552.60	CHL P W								
		Mineralization Maj. :	<i>Type/Style/%Mineral</i>	Comment							
		551.33 - 552.60	PY DIS 0.25								
		Structure Maj.:	<i>Type/Core Angle</i>	Comment							
		551.33 - 552.60	BLKY	mechanical							
		551.33 - 552.60	LC 60								
552.60	554.10	SDBX	<i>Sudbury Breccia</i>			SDBX 40% 2CD4					
		Undulating SDBX with intermittent brecciated IGN and DIA. Dark grey to dark green-grey, clast dominate, sub-rounded to sub-angular, fine to very coarse-grained, strongly magnetic, and no mineralization.									
		Alteration Maj:	<i>Type/Style/Intensity</i>	Comment							
		552.60 - 554.10	EP PCH W								
		552.60 - 554.10	CHL P W								
		552.60 - 554.10	HE PCH W								
		Mineralization Maj. :	<i>Type/Style/%Mineral</i>	Comment							
		552.60 - 554.10	PY DIS 0.1								

LITHOLOGY REPORT
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Hole Number **WIS-211**

Project: **WISNER_GLENCORE NRJV**

Project Number: **642**

<i>From</i> (m)	<i>To</i> (m)	<i>Lithology</i>	<i>Sample #</i>	<i>From</i>	<i>To</i>	<i>Length</i>	<i>Au</i> (g/t)	<i>Pt</i> (g/t)	<i>Pd</i> (g/t)	<i>Ni</i> (%)	<i>Cu</i> (%)
		Structure Maj.: 552.60 - 554.10									
		Type/Core Angle BLKY									
		Comment mechanical									
554.10	0.00	EOH									
		End of Hole									

DRILL HOLE REPORT

 Hole Number **WIS-212**

 Project: **WISNER_GLENCORE NRJV**

 Project Number: **642**

Drilling	Casing	Core	Location	Other
Azimuth: 360	Length: 0	Dimension: NQ	Township: WISNER	Logged by: Maribeth Moll
Dip: -80	Pulled: no	Storage: Core Shed	Claim No.: 984629	Relog by:
Length: 512	Capped: yes	Section:	NTS:	Contractor: Jacob & Samuel Drilling Ltd.
Started: 28-May-15	Cemented: yes	Hole Type DD	Hole: SURFACE	Spotted by: Tom Johnson
Completed: 07-Jun-15				Surveyed: yes
Logged: 29-May-15				Surveyed by: Tom Johnson
Comment: Cement from 33.0 to 65.0m and 380.0 to 392.0m. First zone is highly jointed, not a fault. The second zone is blocky, broken, and jointed with local slickensides.			Coordinate - Gemcom	Geophysics: UTEM
			East: 495405	Geophysic Contractor: Lamontagne
			North: 5178038	Left in hole: Nothing
			Elev.: 409	Making water: no
			Coordinate - UTM	Multi shot survey: no
			East: 495405	
			North: 5178038	
			Elev.: 409	
			Zone: 17	
			NAD: 27	

Deviation Tests

Distance	Azimuth	Dip	Type	Good	Comments
0.00	360.00	-80.00	C	<input checked="" type="checkbox"/>	
14.00	359.00	-77.00	F	<input checked="" type="checkbox"/>	Mag=5462
65.00	8.00	-76.90	F	<input type="checkbox"/>	Mag= 5505-using Windy unit, may be defective
116.00	7.40	-76.60	F	<input type="checkbox"/>	Mag= 5693, Temp=15.4
167.00	7.60	-76.60	F	<input type="checkbox"/>	Mag=5572, Temp=15.1, Roll=139.2
218.00	9.10	-76.80	F	<input type="checkbox"/>	Mag= 5577, Temp=16.8, Roll=217.4
269.00	7.90	-76.50	F	<input checked="" type="checkbox"/>	Mag=5539, Roll=108.8, Temp=17.4
320.00	6.20	-76.50	F	<input checked="" type="checkbox"/>	Mag= 5461, Temp=24.6, Roll=126.4
371.00	5.90	-76.70	F	<input checked="" type="checkbox"/>	Mag=5588, Temp=23.8, Roll=340.0
422.00	9.50	-76.30	F	<input checked="" type="checkbox"/>	Mag=5442, Temp=16.7, Roll=86.5
473.00	4.50	-76.40	F	<input checked="" type="checkbox"/>	Mag=5351, Temp=18.6, Roll=62.9
512.00	7.70	-75.90	F	<input checked="" type="checkbox"/>	Mag=5251, Temp=17.8, Roll=056.9

LITHOLOGY REPORT
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Hole Number **WIS-212**

Project: **WISNER_GLENCORE NRJV**

Project Number: **642**

<i>From</i> (m)	<i>To</i> (m)	<i>Lithology</i>	<i>Sample #</i>	<i>From</i>	<i>To</i>	<i>Length</i>	<i>Au</i> (g/t)	<i>Pt</i> (g/t)	<i>Pd</i> (g/t)	<i>Ni</i> (%)	<i>Cu</i> (%)
0.00	0.75	CAS Casing									
0.75	3.16	SDBX Sudbury Breccia	2D1								
		Hot SDBX with healed hydrothermal breccia from 1.79-2.30 consisting of light f.g. epidote, dark green c.g. epidote, hematite, quartz, and chlorite. The rock adjacent tot the healed breccia has up to 2-3% pyrite.	R232415	0.60	1.54	0.94	0.00	0.00	0.00	0.00	0.00
			R232416	1.54	2.30	0.76	0.00	0.00	0.00	0.00	0.00
			R232417	2.30	3.02	0.72	0.00	0.00	0.00	0.00	0.00
3.16	13.65	FGN Felsic Gneiss									
		Felsic gneiss with patches of partial melt throughout. Section of unit appear to have a sedimentary unit with a moderate to intense foliation and crenulation.	R232418	3.02	3.76	0.74	0.00	0.00	0.00	0.00	0.00
			R232431	3.76	4.08	0.32	0.00	0.00	0.00	0.00	0.00
			R232432	4.08	5.30	1.22	0.00	0.00	0.00	0.00	0.00
			R232419	5.30	6.80	1.50	0.00	0.00	0.00	0.01	0.00
			R232420	6.80	7.18	0.38	0.00	0.00	0.00	0.00	0.00
			R232421	7.18	8.66	1.48	0.00	0.00	0.00	0.00	0.00
13.65	14.54	SDBX Sudbury Breccia	2D1								
		Hot SDBX pieces within FGN. Patches of partial melt with c.g. epidote in the centers. Trace pyrite	R232422	13.60	14.55	0.95	0.00	0.00	0.00	0.01	0.00

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Hole Number **WIS-212**

Project: **WISNER_GLENCORE NRJV**

Project Number: **642**

<i>From</i> (m)	<i>To</i> (m)	<i>Lithology</i>	<i>Sample #</i>	<i>From</i>	<i>To</i>	<i>Length</i>	<i>Au</i> (g/t)	<i>Pt</i> (g/t)	<i>Pd</i> (g/t)	<i>Ni</i> (%)	<i>Cu</i> (%)
14.54	25.45	FGN Felsic Gneiss	R232423	14.55	15.12	0.57	0.00	0.00	0.00	0.00	0.00
		17.80-17.94 blebs of py>cpy 0.5% within partial melt. Intersected crenulated and foliated units within FGN.	R232424	15.12	15.50	0.38	0.00	0.00	0.00	0.00	0.00
			R232425	15.50	16.10	0.60	0.00	0.00	0.00	0.00	0.00
			R232426	16.10	16.38	0.28	0.00	0.00	0.00	0.01	0.00
		Mineralization Maj. : Type/Style/%Mineral Comment	R232427	16.38	17.84	1.46	0.00	0.00	0.00	0.00	0.00
		17.84 - 18.14 PY BL 2	R232428	17.84	18.14	0.30	0.00	0.00	0.00	0.00	0.02
		17.84 - 18.14 CP BL 1 Bleeby cpy with and ass. With partial melt	R232429	18.14	19.35	1.21	0.00	0.00	0.00	0.00	0.00
			R232430	19.35	20.82	1.47	0.00	0.00	0.00	0.00	0.00
25.45	29.09	MGN Mafic Gneiss									
29.09	60.00	IGN Intermediate Gneiss	R232473	44.54	44.84	0.30	0.00	0.00	0.00	0.00	0.00
		Broken core to blocky core from 37-60m. Section may be near shear zone. Several v.c.g. quartz-hematite with v.c.g. magnetite blebs. Possible stretched out SDBX from 47-48m 2D2?	R232474	56.00	56.30	0.30	0.00	0.00	0.00	0.01	0.01
60.00	65.85	FGN Felsic Gneiss	2D1 R232472	60.25	60.55	0.30	0.00	0.00	0.00	0.01	0.00
		Pod of hot SDBX @ 62.62. Pyrite along thin vn and fractures throughout. C.g. epidote.									

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Hole Number **WIS-212**

Project: **WISNER_GLENCORE NRJV**

Project Number: **642**

<i>From</i> (m)	<i>To</i> (m)	<i>Lithology</i>	<i>Sample #</i>	<i>From</i>	<i>To</i>	<i>Length</i>	<i>Au</i> (g/t)	<i>Pt</i> (g/t)	<i>Pd</i> (g/t)	<i>Ni</i> (%)	<i>Cu</i> (%)
65.85	78.20	NDIA <i>Nipissing Diabase</i>									
78.20	100.00	FGN <i>Felsic Gneiss</i>	2D1								
		78.2-90.5 FGN with possible fingers of NDIA or SDBX? 85.60 trace diss. Cpy. SDBX 85-86-86.05.									
			R232435	78.60	79.15	0.55	0.00	0.00	0.00	0.00	0.01
			R232436	79.15	79.63	0.48	0.00	0.00	0.00	0.00	0.00
			R232437	79.63	80.50	0.87	0.00	0.00	0.00	0.00	0.00
			R232438	83.88	85.33	1.45	0.00	0.01	0.00	0.01	0.00
			R232439	85.33	85.63	0.30	0.00	0.00	0.00	0.01	0.01
			R232440	85.63	85.98	0.35	0.00	0.00	0.00	0.00	0.00
			R232441	85.98	87.42	1.44	0.00	0.00	0.00	0.00	0.00
			R232442	87.42	87.82	0.40	0.00	0.00	0.00	0.01	0.01
			R232443	87.82	88.25	0.43	0.00	0.00	0.00	0.02	0.00
			R232444	88.25	89.66	1.41	0.00	0.00	0.00	0.00	0.00
			R232445	89.66	91.16	1.50	0.00	0.00	0.00	0.00	0.00
			R232446	91.16	92.00	0.84	0.00	0.00	0.00	0.00	0.00
			R232447	92.00	92.72	0.72	0.00	0.00	0.00	0.00	0.00
			R232448	92.72	94.14	1.42	0.00	0.00	0.00	0.00	0.00
			R232449	94.14	94.74	0.60	0.00	0.00	0.00	0.00	0.00
			R232450	94.74	96.00	1.26	0.00	0.00	0.00	0.01	0.00
			R232451	96.00	97.19	1.19	0.00	0.00	0.00	0.00	0.00
			R232452	97.19	98.32	1.13	0.00	0.00	0.00	0.00	0.00

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Project: **WISNER_GLENCORE NRJV**

Project Number: **642**

<i>From</i> (m)	<i>To</i> (m)	<i>Lithology</i>	<i>Sample #</i>	<i>From</i>	<i>To</i>	<i>Length</i>	<i>Au</i> (g/t)	<i>Pt</i> (g/t)	<i>Pd</i> (g/t)	<i>Ni</i> (%)	<i>Cu</i> (%)
			R232455	98.32	99.82	1.50	0.00	0.00	0.00	0.00	0.00
100.00	103.30	SDBX <i>Sudbury Breccia</i> Hot SDBX with blebby 3-4% py>cpy at lower contact. 102.85-103.26m	2D2 R232456	99.82	101.26	1.44	0.00	0.00	0.00	0.00	0.00
			R232457	101.26	102.67	1.41	0.00	0.00	0.00	0.00	0.01
			R232458	102.67	103.30	0.63	0.02	0.00	0.00	0.00	1.25
		Mineralization Maj. : Type/Style/%Mineral Comment									
		102.85 - 103.30 PY BL 1									
		102.85 - 103.30 CP BL 3									
103.30	111.10	IGN <i>Intermediate Gneiss</i> Moderately to intensely altered IGN with tr to 0.5% cpy @ 108.5 with in PM.	R232459	103.30	103.95	0.65	0.00	0.00	0.00	0.00	0.00
			R232460	103.95	105.03	1.08	0.00	0.00	0.00	0.00	0.00
			R232461	105.03	105.33	0.30	0.00	0.00	0.00	0.00	0.00
			R232462	105.33	106.58	1.25	0.00	0.00	0.00	0.00	0.00
			R232463	106.58	107.00	0.42	0.00	0.00	0.00	0.00	0.00
			R232464	107.00	107.90	0.90	0.00	0.00	0.00	0.00	0.00
			R232465	107.90	108.89	0.99	0.00	0.00	0.00	0.00	0.00
			R232466	108.89	110.00	1.11	0.00	0.00	0.00	0.01	0.00
			R232467	110.00	111.10	1.10	0.00	0.00	0.00	0.00	0.00
111.10	112.50	DIA <i>Diabase</i>	R232468	111.10	112.51	1.41	0.00	0.00	0.00	0.00	0.01
112.50	149.92	FGN <i>Felsic Gneiss</i> Moderate to intense alteration. Vn and blebby py at upper contact. Several <20cm section of SDBX 2D1.	2D1 R232469	112.51	114.01	1.50	0.00	0.00	0.00	0.00	0.00

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Hole Number **WIS-212**

Project: **WISNER_GLENCORE NRJV**

Project Number: **642**

<i>From</i> (m)	<i>To</i> (m)	<i>Lithology</i>	<i>Sample #</i>	<i>From</i>	<i>To</i>	<i>Length</i>	<i>Au</i> (g/t)	<i>Pt</i> (g/t)	<i>Pd</i> (g/t)	<i>Ni</i> (%)	<i>Cu</i> (%)
		At least two pegmatite dykes?									
149.92	154.88	MGN <i>Mafic Gneiss</i> Blebby py near upper contact. Intersection of 1% disseminated blebby py +/- cpy between 154.0-154-60m. Trace diss. Py throughout.									
154.88	189.89	IGN <i>Intermediate Gneiss</i> 3-4mm bleb of cpy at 162.15m. The cpy occurs with a chlorite altered band that is sandwiched between two veins of partial melt. From 175.62-176.05m 0.5-1.0% diss. Blebby py +/- cpy with in a thinly banded MGN intersection with partial melt vein at the upper and lower contacts. Hot SDBX 2D1, matrix dominated, from 184.90-185.00m hot breccia with 5% smeared clasts. Clast have ragged margins and ranges from 1-8mm.									
189.89	209.64	SDBX <i>Sudbury Breccia</i> (SDBX Intervals: 189.89-190.15m, Hot SDBX 2CD1/2, matrix dominated (dk gy), 7% pseudo-smeared clasts with felsic clasts 2-8mm and 1 3cm FGN clast. Traced disseminated pyrite throughout. Wispy, flame like upper contact and sharp lower contact. 193.15-193.30m, Hot SDBX 2C2, matrix dominate (dk gy) 55-65%, smears clasts, 1-6mm felsic clasts, trace to 0.5% disseminated to fine-grained blebby pyrite throughout. 194.57-195.61m, Hot SDBX 2DC2, matrix dominated (dk gy), pseudo-smears felsic clasts ranging from 1-12mm, large clast of FGN and MGN with semi-ragged margins, trace to 0.5% disseminated to fine-grained blebby pyrite throughout, brecciated upper contact (30) and sharp lower				2CD2					

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Hole Number **WIS-212**

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Project Number: **642**

<i>From</i> (m)	<i>To</i> (m)	<i>Lithology</i>	<i>Sample #</i>	<i>From</i>	<i>To</i>	<i>Length</i>	<i>Au</i> (g/t)	<i>Pt</i> (g/t)	<i>Pd</i> (g/t)	<i>Ni</i> (%)	<i>Cu</i> (%)
		contact (20). 197.22-198.47m, Hot SDBX 2DC2, matrix dominated 60-70% (dk gy), pseudo-smears felsic clasts ranging from 1-12mm, large clast of FGN with semi-ragged margins, trace to 0.5% disseminated to fine-grained blebby pyrite throughout, wispy-fracture filling upper contact and sharp lower contact (60). Peg vein does not x-cut SDBX. FGN and MGN clasts show evidence of ductile deformation. 200.63-201.86, Hot 2D1/2, matrix dominated 55-65% (dk gy), pseudo-smear cream colored felsic clast 1-8mm, trace specks of pyrite, sharp upper and lower contacts. 201.28-201.40, Hot 2D2, matrix dominated 60-70% (dk gy), pseudo-smear cream colored felsic clast 1-8mm, trace specks of pyrite, sharp upper and lower contacts. 202.55-204.94, Hot SDBX 2D2/3, local pseudo-smear felsic clasts, 1-3mm quartz eyes clast dominate 60-70%, felsic clasts 3-30mm, cobble size FGN clasts with local ductile deformation, specks of disseminated pyrite throughout, sharp upper and lower contacts. 208.33-208.88m, hot SDBX 2D2, 1-3mm quartz eyes, clast dominated 65-70% MGN with peg vein with local partial melt, matrix has weak to moderate pervasive epidote alteration, specks of disseminated pyrite throughout, sharp upper and lower contacts.) Alternating bands of MGN and FGN with x-cutting peg veins. Trace diss. Py +/- cpy throughout the unit. At 196.12m the core has slicken lines that show dextral movement.									
		Structure Maj.:									
		Type/Core Angle									
		Comment									
		191.34 - 191.46	FLT 30								
		197.21 - 197.28	FLT 4								
		197.40 - 197.46	FLT 10								
209.64	225.80	GRGN granite gneiss				2D3					
		217.83-218.00m, Hot SDBX 2D2/3, 7-10% gray quartz eyes, matrix is a medium green and has pervasive-intense epidote alteration, clast dominated 75-80%, large GRGN clast in the center, weakly foliated, trace to 0.5% disseminated pyrite, sharp upper contact (30) and lower contact with flame like structures (85). Dominantly GRGN with alternating FGN and minor IGN bands. Pink and light grey, coarse to peg-grained, moderately foliated Granite gneiss, with little to no sulfides. Sulfides occur within MGN and FGN bands, Mark increase in pyrite between 222.47 to 223.21m, with 1-4% blebby pyrite between 3-15mm throughout the FGN and GRGN. X-cutting vein of SDBX between FGN and GRGN from 222.78-222.96m (20). The SDBX is 2D2, pseudo-smears GRGN clasts, moderate-pervasive altered matrix with overprinting blebby pyrite. Gradational lower contact.									
		Alteration Maj:									
		Type/Style/Intensity									
		Comment									
		209.64 - 225.00	Carb FF W								
		209.64 - 225.00	CHL PCH W								

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<i>From</i> (m)	<i>To</i> (m)	<i>Lithology</i>		<i>Sample #</i>	<i>From</i>	<i>To</i>	<i>Length</i>	<i>Au</i> (g/t)	<i>Pt</i> (g/t)	<i>Pd</i> (g/t)	<i>Ni</i> (%)	<i>Cu</i> (%)
	209.64 - 225.00	Qtz	VN MS									
	209.64 - 225.00	HE	F WM									
	209.64 - 225.00	EP	PCH WM									
		Structure Maj.:	Type/Core Angle	Comment								
	217.00 - 217.01	FOL	10									
	220.00 - 220.01	FOL	30									
	224.99 - 225.00	FOL	45									
225.80	236.52	GAB	Gabbro									
		Wisner Gabbro with intersections of FGN and x-cutting pegmatites. Grey-green and cream colored, medium to coarse-grained, equigranular and locally porphyritic, very weakly foliated, strongly magnetic, locally altered near x-cutting pegmatites, 0.5-1.0% disseminated pyrite, sharp lower contact. Pegmatites contain quartz, plagioclase, k-spar, and hornblende (?).										
		Alteration Maj.:	Type/Style/Intensity	Comment								
	228.68 - 228.80	HE	F M	hematite on crystal surfaces								
	228.68 - 228.80	EP	PCH MS	local intense overprinting epidote in Peg								
	228.87 - 230.00	HE	FF M									
	228.87 - 230.00	HE	VN I									
		Structure Maj.:	Type/Core Angle	Comment								
	233.77 - 233.83	VN	60	4cm peg vein								
236.52	241.20	FGN	Felsic Gneiss									

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<i>From</i> (m)	<i>To</i> (m)	<i>Lithology</i>	<i>Sample #</i>	<i>From</i>	<i>To</i>	<i>Length</i>	<i>Au</i> (g/t)	<i>Pt</i> (g/t)	<i>Pd</i> (g/t)	<i>Ni</i> (%)	<i>Cu</i> (%)
<p>Pink, light grey and dark green, medium to peg- grained, moderately foliated FGN with trace disseminated pyrite, patchy epidote and hematite alteration throughout. X-cut by pegs and epidote-chlorite-calcite veins. Gradational lower contact.</p>											
Alteration Maj:		Type/Style/Intensity	Comment								
236.52 - 241.20		Carb VN I	thin medium-grained calcite with thin hematite margins								
236.52 - 241.20		EP VN I	epi-chl-cal-qtz vn								
236.52 - 241.20		HE PCH WM	hematite on crystals surfaces and fractures								
236.52 - 241.20		EP PCH WM	rimms mafic epidote								
Structure Maj.:		Type/Core Angle	Comment								
237.82 - 237.85		VN 65	6mm wide epidote vein								
238.17 - 238.20		VN 55	1cm wide epidote vein								
241.20	253.38	GAB Gabbro	R232475	246.90	247.20	0.30	0.00	0.00	0.00	0.01	0.03
<p>Wisner Gabbro. Grey-green and cream colored, medium to coarse-grained, equigranular and locally porphyritic, very weakly foliated, strongly magnetic, more massive from 246.50-253.38m, trace to 0.5% disseminated pyrite throughout, gradational lower contact. Two pods of intensely altered MGN? (chl-amph) with diss. And blebby and interstitial py +/- cpy. The pods of MGN occur at 246.98-247.12m.</p>											
253.38	255.85	FGN Felsic Gneiss									
<p>Pink, cream, and dark green, medium to coarse-grained, weakly-moderately altered, local x-cutting peg vein at 253.38m and 253.68, moderately foliated, weakly to none magnetic, trace disseminated pyrite throughout, sharp lower contact. From 254.14-254.64m is a small section of GRGN similar to the GRGN above the Gabbro.</p>											

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Project Number: **642**

<i>From</i> (m)	<i>To</i> (m)	<i>Lithology</i>	<i>Sample #</i>	<i>From</i>	<i>To</i>	<i>Length</i>	<i>Au</i> (g/t)	<i>Pt</i> (g/t)	<i>Pd</i> (g/t)	<i>Ni</i> (%)	<i>Cu</i> (%)	
255.85	263.17	IGN <i>Intermediate Gneiss</i> Alternating MGN and FGN. The MGN is dark gray, finely laminated, fine to medium-grained, moderately to intensely magnetic, weakly alteration along crystal edges, trace to 1% disseminated pyrite throughout. Local blebs of pyrite from 256.0-256.23m within vugs. The blebs consists of a cluster of pyrite, epidote, and calcite. Thin wispy fractures will epidote or hematite throughout. The FGN Pink>Cream>>dark green, coarse-grained, weakly foliated, epidote alt along fractures, hematite alt coating feldspar crystal faces. Peg vein at 256.97m, 1.5m with 60 degrees.										
263.17	264.28	SDBX <i>Sudbury Breccia</i> Hot SDBX 2D2, clast supported 80-85%, weakly to moderately altered matrix (dk gn), fine and very coarse-grained pseudo-smearred granitoid clasts, local x-cutting peg, cobble-size FGN, moderately foliated, trace disseminated pyrite throughout, sharp upper contact and gradational lower contact.										
264.28	275.45	FGN <i>Felsic Gneiss</i> 275.15-275.45- Hot SDBX, matrix dominated, with large Granitoid clasts, small granitoid pseudo-smearred clast, grey quartz eyes, no visible sulfides, wavy upper contact and sharp lower contact. At the lower contact the matrix of the SDBX has pervasive moderate epidote alteration. Medium pink with lesser cream and dark green, coarse-peg sized crystals, with finer dark green-grey bands of MGN, larger felsic crystals have hematite coating crystal surfaces, epi-amph alter of magis minerals, trace to 0.5% disseminated py throughout, SDBX at lower contact with IGN.	2D2	R232476	266.43	266.72	0.29	0.00	0.00	0.00	0.00	0.00

LITHOLOGY REPORT
- Detailed -

Hole Number **WIS-212**

Project: **WISNER_GLENCORE NRJV**

Project Number: **642**

<i>From</i> (m)	<i>To</i> (m)	<i>Lithology</i>	<i>Sample #</i>	<i>From</i>	<i>To</i>	<i>Length</i>	<i>Au</i> (g/t)	<i>Pt</i> (g/t)	<i>Pd</i> (g/t)	<i>Ni</i> (%)	<i>Cu</i> (%)
		Alteration Maj:									
		<i>Type/Style/Intensity</i> Comment									
		264.28 - 275.15 Carb VN W									
		264.28 - 275.15 CHL VN W									
		264.28 - 275.15 HE F WM Rimming / coating crystal surfaces									
		264.28 - 275.15 EP PCH WM									
		264.28 - 275.15 EP VN WM									
		275.15 - 275.45 EP FF WM									
		275.15 - 275.45 EP P M									
		Mineralization Maj. :									
		<i>Type/Style/%Mineral</i> Comment									
		264.28 - 275.45 PY DIS 0.5 throughout									
		Structure Maj.:									
		<i>Type/Core Angle</i> Comment									
		275.44 - 275.45 LC 45									
275.45	294.25	IGN Intermediate Gneiss	R232477	290.92	292.42	1.50	0.00	0.00	0.00	0.02	0.00
		Alternating bands of equigranular coarse-grained cream and dark green gneiss (possible Wisner gabbro), with medium-pink and white, coarse-peg GRGN, and dark green-grey, thinly foliated MGN. Gradational contact into a more competent FGN. The bands range from weak to strongly magnetic (MGN). Bleached altered interval from 280.57-280.77 with pervasive light epidote followed by bleaching. From 287.0 to 294.25 is an interval of MGN that looks pulled apart by pegmatite veins. Small blebs of cpy occurs on the edges of calcite crystals adjacent to chl. Pegmatites consists of coarse-grained feldspars-quartz-magnetite.	R232478	292.42	292.74	0.32	0.00	0.00	0.00	0.02	0.01
			R232479	292.74	293.20	0.46	0.00	0.00	0.00	0.02	0.00
			R232480	293.20	294.39	1.19	0.00	0.00	0.00	0.01	0.00
		Mineralization Maj. :									
		<i>Type/Style/%Mineral</i> Comment									
		290.91 - 292.42 CP WS 0.1 trace wisps of cpy ass. With chl-ser alt.									
		292.42 - 292.74 CP BL 0.5 fine blebby cpy ass with chl-ser and c.g. calcite									
		292.74 - 294.25 PN DIS 0.5 throughout unit									
		292.74 - 294.25 CP WS 0.1 trace wisps of cpy ass. With chl-ser alt.									

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Hole Number **WIS-212**

Project: **WISNER_GLENCORE NRJV**

Project Number: **642**

<i>From</i> (m)	<i>To</i> (m)	<i>Lithology</i>			<i>Sample #</i>	<i>From</i>	<i>To</i>	<i>Length</i>	<i>Au</i> (g/t)	<i>Pt</i> (g/t)	<i>Pd</i> (g/t)	<i>Ni</i> (%)	<i>Cu</i> (%)
		Structure Maj.:	Type/Core Angle	Comment									
		282.50 - 282.51	FOL 60	dominate foliation									
		286.90 - 286.91	VN 30	wispy epidote veins with blebby py and v.c.g. cc									
		286.90 - 286.91	VN 40	wispy epidote vein with blebby py and v.c.g. cc									
294.25	325.55	IGN	Intermediate Gneiss	Medium pink with patchy dark green, medium to coarse grained FGN with minor fine-grained MGN, moderately magnetic, weak to moderately altered, moderately foliated, trace blabby and disseminated pyrite throughout, foliation averages 50, gradational lower contact. Pull-apart interval from 303.0-304.5m. (294.25-308.06 FGN, 308.06-310.42 MGN, 310.42-312.50 MGN, 312.50-3223.50 FNG, 323.50-325.55 IGN)									
325.55	337.20	MGN	Mafic Gneiss	Dark grey green with x-cutting pink pegmatites, medium to coarse-grained, weak-mod foliated, very strongly magnetic, weak to mod epidote and hem alteration, speck pf pyrite throughout, gradational lower contact. 0.5% cpy bleb associated with v.c.g. calcite crystal and chl-epi alteration occurs adjacent to 2mm epidote veins at 332.	R232481	331.98	332.27	0.29	0.00	0.00	0.00	0.01	0.01
		Alteration Maj.:	Type/Style/Intensity	Comment									
		325.55 - 334.80	HE F WM										
		325.55 - 334.80	Carb VN W										
		325.55 - 334.80	EP PCH WM										
		325.55 - 334.80	EP VN WM										
		334.80 - 335.30	Ser P W										
		334.80 - 335.30	CHL P WM										
		334.80 - 335.30	EP P M										

LITHOLOGY REPORT
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Hole Number **WIS-212**

Project: **WISNER_GLENCORE NRJV**

Project Number: **642**

<i>From</i> (m)	<i>To</i> (m)	<i>Lithology</i>	<i>Sample #</i>	<i>From</i>	<i>To</i>	<i>Length</i>	<i>Au</i> (g/t)	<i>Pt</i> (g/t)	<i>Pd</i> (g/t)	<i>Ni</i> (%)	<i>Cu</i> (%)	
	335.30 - 337.20	Carb VN W										
	335.30 - 337.20	HE F WM										
	335.30 - 337.20	EP PCH WM										
	335.30 - 337.20	EP VN WM										
	Mineralization Maj. :	Type/Style/%Mineral	Comment									
	325.55 - 331.98	PY DIS 0.5	throughout									
	331.98 - 332.27	CP BL 0.5	blebby cpy ass. With v.c.g. cc, epi-chl alt, and epi vn									
	332.27 - 337.20	PN DIS 0.1	throughout									
	Structure Maj.:	Type/Core Angle	Comment									
	332.00 - 332.01	VN 70	cpy epi vn									
	332.01 - 337.20	VN 70	large peg vn from 333.7-334									
	332.01 - 337.20	VN 65	epi									
	332.01 - 337.20	VN 70	peg									
337.20	339.65	IGN	Intermediate Gneiss									
339.65	355.85	SDBX	Sudbury Breccia	2D3	R232482	355.27	355.70	0.43	0.00	0.00	0.00	0.00
		Local trace diss. Py. The upper contact is 2D4 and increases in heat downhole.										

LITHOLOGY REPORT
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Hole Number **WIS-212**

Project: **WISNER_GLENCORE NRJV**

Project Number: **642**

<i>From</i> (m)	<i>To</i> (m)		<i>Lithology</i>	<i>Sample #</i>	<i>From</i>	<i>To</i>	<i>Length</i>	<i>Au</i> (g/t)	<i>Pt</i> (g/t)	<i>Pd</i> (g/t)	<i>Ni</i> (%)	<i>Cu</i> (%)
355.85	357.85	FGN	<i>Felsic Gneiss</i>									
357.85	361.23	DIA M.g.	<i>Diabase</i>									
361.23	362.45	SDBX 2D3-4	<i>Sudbury Breccia</i>				2D3					
362.45	363.21	DIA	<i>Diabase</i>									
363.21	367.38	FGN	<i>Felsic Gneiss</i>									

LITHOLOGY REPORT
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Hole Number **WIS-212**

Project: **WISNER_GLENCORE NRJV**

Project Number: **642**

<i>From</i> (m)	<i>To</i> (m)	<i>Lithology</i>	<i>Sample #</i>	<i>From</i>	<i>To</i>	<i>Length</i>	<i>Au</i> (g/t)	<i>Pt</i> (g/t)	<i>Pd</i> (g/t)	<i>Ni</i> (%)	<i>Cu</i> (%)
367.38	376.80	IGN <i>Intermediate Gneiss</i>									
376.80	399.87	GRGN <i>granite gneiss</i>	R232483	399.66	399.93	0.27	0.00	0.00	0.01	0.00	0.04
		399.72-399.93m: 1-3mm blebs of cpy occur in qtz-epi-chl sweats adj. to upper DIA contact. 387.70-395.10 intense altered zone with pseudo-breccia. The epidote veins become so wide and interconnected that rock is starting to look like a breccia.									
		Alteration Maj:	Type/Style/Intensity	Comment							
		387.70 - 395.10	CHL PCH I								
		387.70 - 395.10	Carb FF I								
		387.70 - 395.10	HE P I								
		387.70 - 395.10	EP FF I								
		Mineralization Maj. :	Type/Style/%Mineral	Comment							
		399.72 - 399.87	PY BL 0.1								
		399.72 - 399.87	CP BL 0.5	1-3mm blebs of cpy occur in qtz-epi-chl sweats adj. to upper DIA contact							
		Structure Maj.:	Type/Core Angle	Comment							
		383.70 - 388.22	SLK								
		383.70 - 388.22	BLKY								

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Hole Number **WIS-212**

Project: **WISNER_GLENCORE NRJV**

Project Number: **642**

<i>From</i> (m)	<i>To</i> (m)		<i>Lithology</i>	<i>Sample #</i>	<i>From</i>	<i>To</i>	<i>Length</i>	<i>Au</i> (g/t)	<i>Pt</i> (g/t)	<i>Pd</i> (g/t)	<i>Ni</i> (%)	<i>Cu</i> (%)
421.28	429.00	MDIA	<i>Matachewan Diabase</i>									
429.00	443.18	IGN	<i>Intermediate Gneiss</i>									
443.18	444.55	PEG	<i>Pegmatite</i>									
444.55	450.06	IGN	<i>Intermediate Gneiss</i>									
450.06	451.92	SDBX	<i>Sudbury Breccia</i>				2CD4					

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Hole Number **WIS-212**

Project: **WISNER_GLENCORE NRJV**

Project Number: **642**

<i>From</i> (m)	<i>To</i> (m)	<i>Lithology</i>	<i>Sample #</i>	<i>From</i>	<i>To</i>	<i>Length</i>	<i>Au</i> (g/t)	<i>Pt</i> (g/t)	<i>Pd</i> (g/t)	<i>Ni</i> (%)	<i>Cu</i> (%)
451.92	460.38	IGN <i>Intermediate Gneiss</i>									
460.38	464.76	GRGN <i>granite gneiss</i> SDBX @ 460.52-460.63 2D3	2D3								
464.76	469.80	IGN <i>Intermediate Gneiss</i>									
469.80	473.97	GRGN <i>granite gneiss</i>									

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Hole Number **WIS-212**

Project: **WISNER_GLENCORE NRJV**

Project Number: **642**

<i>From</i> (m)	<i>To</i> (m)	<i>Lithology</i>	<i>Sample #</i>	<i>From</i>	<i>To</i>	<i>Length</i>	<i>Au</i> (g/t)	<i>Pt</i> (g/t)	<i>Pd</i> (g/t)	<i>Ni</i> (%)	<i>Cu</i> (%)
473.97	479.35	IGN <i>Intermediate Gneiss</i>									
479.35	495.40	IGN <i>Intermediate Gneiss</i>									
495.40	502.70	DIA <i>Diabase</i>									
502.70	508.80	MGN <i>Mafic Gneiss</i> Intense alteration from 504.72-505.05m									

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Hole Number **WIS-212**

Project: **WISNER_GLENCORE NRJV**

Project Number: **642**

<i>From</i> (m)	<i>To</i> (m)	<i>Lithology</i>	<i>Sample #</i>	<i>From</i>	<i>To</i>	<i>Length</i>	<i>Au</i> (g/t)	<i>Pt</i> (g/t)	<i>Pd</i> (g/t)	<i>Ni</i> (%)	<i>Cu</i> (%)
508.80	512.00	IGN <i>Intermediate Gneiss</i>									
512.00	0.00	EOH <i>End of Hole</i>									

DRILL HOLE REPORT

 Hole Number **WIS-213**

 Project: **WISNER_GLENCORE NRJV**

 Project Number: **642**

Drilling	Casing	Core	Location	Other
Azimuth: 50	Length: 0	Dimension: NQ	Township: WISNER	Logged by: Maribeth Moll
Dip: -45	Pulled: no	Storage: Core Shed	Claim No.: 984640	Relog by:
Length: 521	Capped: yes	Section:	NTS:	Contractor: Jacob & Samuel Drilling Ltd.
Started: 09-Jun-15	Cemented: yes	Hole Type DD	Hole: SURFACE	Spotted by: Tom Johnson
Completed: 17-Jun-15				Surveyed:
Logged: 10-Jun-15				Surveyed by: Tom Johnson
Comment: Drillhole cemented from 393 to 404m. Sample S035527 originally was from 128.62 to 129.82m and S035528 from 129.82-130.12m. However, while bagging the core all of S035527 was included into S035528. S035527 is now voided and deleted from database. S035528 now has a sample interval from 128.62-130.12.			Coordinate - Gemcom	Geophysics: UTEM
			East: 497580	Geophysic Contractor: Lamontagne
			North: 5178530	Left in hole: Nothing
			Elev.: 410	Making water: no
			Coordinate - UTM	Multi shot survey: no
			East: 497580	
			North: 5178530	
			Elev.: 410	
			Zone: 17	NAD: 27

Deviation Tests

Distance	Azimuth	Dip	Type	Good	Comments
0.00	50.00	-45.00	C	<input checked="" type="checkbox"/>	
14.00	53.70	-44.10	F	<input checked="" type="checkbox"/>	Mag=5674
65.00	48.90	-43.20	F	<input checked="" type="checkbox"/>	Mag=5361
116.00	51.10	-42.90	F	<input checked="" type="checkbox"/>	Mag=5382
167.00	50.90	-42.50	F	<input checked="" type="checkbox"/>	Mag=5458
218.00	49.10	-42.30	F	<input checked="" type="checkbox"/>	Mag=5503
269.00	43.90	-42.40	F	<input checked="" type="checkbox"/>	Mag=5650
320.00	46.70	-41.70	F	<input checked="" type="checkbox"/>	Mag=5600
371.00	51.30	-41.70	F	<input checked="" type="checkbox"/>	Mag=5505
422.00	55.40	-41.20	F	<input checked="" type="checkbox"/>	Mag=5283, Temp=21.1
473.00	52.20	-41.10	F	<input checked="" type="checkbox"/>	Mag=5491, Temp=18.1
521.00	52.70	-41.00	F	<input checked="" type="checkbox"/>	Mag=5650, Temp=17

LITHOLOGY REPORT
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Hole Number **WIS-213**

Project: **WISNER_GLENCORE NRJV**

Project Number: **642**

<i>From (m)</i>	<i>To (m)</i>	<i>Lithology</i>		<i>Sample #</i>	<i>From</i>	<i>To</i>	<i>Length</i>	<i>Au (g/t)</i>	<i>Pt (g/t)</i>	<i>Pd (g/t)</i>	<i>Ni (%)</i>	<i>Cu (%)</i>
0.00	1.22	CAS	Casing									
1.22	3.70	GAB	Gabbro				2CD2					
<p>Wisner Gabbro with FGN from 3.50-3.70m. Dark grey and white, equigranular, homogenises, coarse-grained, moderately foliated 60 degrees, strongly magnetic, Minerals pyroxene, plag, amph, mag trace disseminated pyrite throughout, brecciated lower contact. From 1.22-1.70m is brecciated FGN with crosscutting SDBX 2CD2 with fine-grained grey quartz eye.</p>												
<p>Alteration Maj: Type/Style/Intensity Comment</p> <p>1.22 - 1.70 HE P MS Within FGN pervasive hematite alt of felsic minerals</p>												
<p>Mineralization Maj. : Type/Style/%Mineral Comment</p> <p>1.22 - 3.70 PY DIS 0.2</p>												
<p>Structure Maj.: Type/Core Angle Comment</p> <p>1.22 - 3.70 FOL 60</p>												
3.70	4.32	SDBX	Sudbury Breccia				2D2					
<p>Hot SDBX</p>												
4.32	10.37	IGN	Intermediate Gneiss									
<p>Lower portion of the rocks are moderately jointed with hematite staining on the joint surfaces.</p>												

LITHOLOGY REPORT
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Hole Number **WIS-213**

Project: **WISNER_GLENCORE NRJV**

Project Number: **642**

<i>From</i> (m)	<i>To</i> (m)	<i>Lithology</i>	<i>Sample #</i>	<i>From</i>	<i>To</i>	<i>Length</i>	<i>Au</i> (g/t)	<i>Pt</i> (g/t)	<i>Pd</i> (g/t)	<i>Ni</i> (%)	<i>Cu</i> (%)
10.37	18.60	GAB <i>Gabbro</i>									
18.60	20.44	SDBX <i>Sudbury Breccia</i>				2D2					
20.44	21.98	FGN <i>Felsic Gneiss</i>									
21.98	30.00	SDBX <i>Sudbury Breccia</i>				2D2					
		Hot SDBX with epidote altered matrix and x-cutting partial melt. Between 24.24 to 24.34m are 2 3-5mm epi-chl-cc-hem vein with blebby cpy.									
			S035503	22.80	24.20	1.40	0.00	0.00	0.00	0.00	0.00
			S035504	24.20	24.39	0.19	0.00	0.00	0.00	0.00	0.01
			S035505	24.39	25.82	1.43	0.00	0.00	0.00	0.00	0.00

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Project: **WISNER_GLENCORE NRJV**

Project Number: **642**

<i>From</i> (m)	<i>To</i> (m)	<i>Lithology</i>		<i>Sample #</i>	<i>From</i>	<i>To</i>	<i>Length</i>	<i>Au</i> (g/t)	<i>Pt</i> (g/t)	<i>Pd</i> (g/t)	<i>Ni</i> (%)	<i>Cu</i> (%)
		Mineralization Maj. :	Type/Style/%Mineral	Comment								
		24.24 - 24.34	CP BL 0.5	cpy occurs within 2 epi-chl-cc-hem veins								
30.00	35.43	FGN	Felsic Gneiss		S035506	34.94	35.22	0.28	0.00	0.00	0.00	0.01
35.43	37.09	SDBX	Sudbury Breccia				2D2					
37.09	40.10	DIA	Diabase									

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Hole Number **WIS-213**

Project: **WISNER_GLENCORE NRJV**

Project Number: **642**

<i>From</i> (m)	<i>To</i> (m)	<i>Lithology</i>	<i>Sample #</i>	<i>From</i>	<i>To</i>	<i>Length</i>	<i>Au</i> (g/t)	<i>Pt</i> (g/t)	<i>Pd</i> (g/t)	<i>Ni</i> (%)	<i>Cu</i> (%)
40.10	46.08	SDBX Sudbury Breccia 2D2	S035507	40.57	42.07	1.50	0.00	0.01	0.00	0.00	0.01
		Hot SDBX with x-cutting partial melt. @ 44.90m is a 2cm wide coarse-grained epidote-calcite vein with partial melt. @ 45.12m is a 2mm epi-chl-cc vein with blebby cpy.	S035508	42.07	42.37	0.30	0.00	0.01	0.00	0.00	0.01
			S035509	42.37	43.80	1.43	0.00	0.01	0.01	0.01	0.01
			S035510	43.80	44.85	1.05	0.00	0.00	0.01	0.00	0.01
		Mineralization Maj. : Type/Style/%Mineral Comment	S035511	44.85	45.11	0.26	0.00	0.01	0.01	0.01	0.01
		45.10 - 45.15 CP BL 0.5 @ 45.12m is a 2mm epi-chl-cc vein with blebby cpy.	S035512	45.11	46.66	1.55	0.00	0.01	0.01	0.01	0.01
46.08	47.97	DIA Diabase	S035513	46.66	47.97	1.31	0.00	0.01	0.01	0.01	0.02
47.97	50.52	FGN Felsic Gneiss	S035514	47.97	48.27	0.30	0.00	0.00	0.00	0.00	0.00
		At the lower contact between the FGN and DIA is 0.5% blebby cpy.	S035515	48.27	49.77	1.50	0.00	0.00	0.00	0.00	0.00
		Mineralization Maj. : Type/Style/%Mineral Comment									
		48.15 - 48.16 CP BL 0.5 48.15-48.16m: Blebby cpy along contact between FGN and DIA									
50.52	51.91	SDBX Sudbury Breccia 2CD2									
		Hot SDBX and DIA									

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Hole Number **WIS-213**

Project: **WISNER_GLENCORE NRJV**

Project Number: **642**

<i>From</i> (m)	<i>To</i> (m)	<i>Lithology</i>	<i>Sample #</i>	<i>From</i>	<i>To</i>	<i>Length</i>	<i>Au</i> (g/t)	<i>Pt</i> (g/t)	<i>Pd</i> (g/t)	<i>Ni</i> (%)	<i>Cu</i> (%)
51.91	56.38	GAB <i>Gabbro</i> Wisner Gabbro									
56.38	57.07	SDBX <i>Sudbury Breccia</i> Hot SDBX				2D2					
57.07	65.22	GAB <i>Gabbro</i>									
65.22	66.15	SDBX <i>Sudbury Breccia</i> Hot SDBX 2D2/3 with GAB				2CD2					

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Hole Number **WIS-213**

Project: **WISNER_GLENCORE NRJV**

Project Number: **642**

<i>From</i> (m)	<i>To</i> (m)		<i>Lithology</i>	<i>Sample #</i>	<i>From</i>	<i>To</i>	<i>Length</i>	<i>Au</i> (g/t)	<i>Pt</i> (g/t)	<i>Pd</i> (g/t)	<i>Ni</i> (%)	<i>Cu</i> (%)
66.15	71.10	GAB	<i>Gabbro</i>									
71.10	76.75	DIA	<i>Diabase</i>									
76.75	77.05	SDBX	<i>Sudbury Breccia</i>				2CD3					
77.05	78.48	DIA	<i>Diabase</i>									
78.48	79.00	SDBX	<i>Sudbury Breccia</i>				2D2					

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Project: **WISNER_GLENCORE NRJV**

Project Number: **642**

<i>From</i> (m)	<i>To</i> (m)	<i>Lithology</i>	<i>Sample #</i>	<i>From</i>	<i>To</i>	<i>Length</i>	<i>Au</i> (g/t)	<i>Pt</i> (g/t)	<i>Pd</i> (g/t)	<i>Ni</i> (%)	<i>Cu</i> (%)
79.00	81.00	DIA <i>Diabase</i>									
81.00	82.50	GAB <i>Gabbro</i>	S035516	81.00	82.55	1.55	0.00	0.00	0.00	0.01	0.00
82.50	83.00	SDBX <i>Sudbury Breccia</i> Hot SDBX with 0.5% blebby cpy @ 82.90m.	2CD3 S035517	82.55	82.85	0.30	0.00	0.00	0.00	0.01	0.01
		<i>Mineralization Maj. :</i> <i>Type/Style/%Mineral</i> <i>Comment</i> 82.90 - 82.91 CP BL 0.5 Blebby cpy with partial melt									
83.00	95.67	GAB <i>Gabbro</i>	S035518	82.85	84.35	1.50	0.00	0.00	0.01	0.01	0.01

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<i>From</i> (m)	<i>To</i> (m)		<i>Lithology</i>		<i>Sample #</i>	<i>From</i>	<i>To</i>	<i>Length</i>	<i>Au</i> (g/t)	<i>Pt</i> (g/t)	<i>Pd</i> (g/t)	<i>Ni</i> (%)	<i>Cu</i> (%)
95.67	99.18	SDBX	<i>Sudbury Breccia</i>	2D3	S035519	98.04	98.50	0.46	0.00	0.00	0.00	0.00	0.00
99.18	110.16	GAB	<i>Gabbro</i>										
110.16	112.50	SDBX	<i>Sudbury Breccia</i>	2D4	S035520	110.91	111.23	0.32	0.00	0.00	0.00	0.00	0.00
112.50	115.65	GAB	<i>Gabbro</i>										

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<i>From</i> (m)	<i>To</i> (m)		<i>Lithology</i>		<i>Sample #</i>	<i>From</i>	<i>To</i>	<i>Length</i>	<i>Au</i> (g/t)	<i>Pt</i> (g/t)	<i>Pd</i> (g/t)	<i>Ni</i> (%)	<i>Cu</i> (%)
115.65	122.30	GAB	Gabbro	2D3	S035521	119.19	120.68	1.49	0.00	0.00	0.00	0.01	0.01
					S035522	120.68	121.54	0.86	0.00	0.00	0.00	0.00	0.01
					S035523	121.54	121.84	0.30	0.00	0.00	0.00	0.00	0.06
122.30	128.10	MGN	Mafic Gneiss		S035524	121.84	123.29	1.45	0.00	0.00	0.00	0.00	0.01
128.10	130.00	FGN	Felsic Gneiss		S035528	128.62	130.12	1.50	0.00	0.00	0.00	0.00	0.01
			bleach										
130.00	133.88	DIA	Diabase		S035529	133.15	133.45	0.30	0.00	0.01	0.01	0.01	0.01
			2-4mm blebby py vein										

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<i>From</i> (m)	<i>To</i> (m)	<i>Lithology</i>	<i>Sample #</i>	<i>From</i>	<i>To</i>	<i>Length</i>	<i>Au</i> (g/t)	<i>Pt</i> (g/t)	<i>Pd</i> (g/t)	<i>Ni</i> (%)	<i>Cu</i> (%)
133.88	140.30	FGN <i>Felsic Gneiss</i> 137.8-140.3 Intense epi-hem alt. 139.0-139.20m hydrothermal breccia									
140.30	142.65	SDBX <i>Sudbury Breccia</i> SDBX+DIA				2D2					
142.65	154.00	FGN <i>Felsic Gneiss</i> Locally bleached. @148.50m 4cm SDBX 2CD 2/3 with trace rimming py on clasts. 148.83-154.0m SDBX+FGN				2C2					
154.00	160.40	FGN <i>Felsic Gneiss</i>									

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<i>From</i> (m)	<i>To</i> (m)		<i>Lithology</i>		<i>Sample #</i>	<i>From</i>	<i>To</i>	<i>Length</i>	<i>Au</i> (g/t)	<i>Pt</i> (g/t)	<i>Pd</i> (g/t)	<i>Ni</i> (%)	<i>Cu</i> (%)
160.40	163.70	DIA	Diabase		S035530	160.40	160.70	0.30	0.00	0.01	0.01	0.01	0.02
163.70	173.30	SDBX	Sudbury Breccia	2CD2	S035531	172.36	172.70	0.34	0.00	0.00	0.00	0.00	0.00
			SDBX with a mixture of FGN and DIA 2CD2/3										
173.30	174.00	FGN	Felsic Gneiss										
174.00	180.50	SDBX	Sudbury Breccia	2CD2									
			Black and green 2CD2/3 intermixed with FGN+GAB+DIA										
180.50	183.00	GAB	Gabbro										
			Brecciated lower contact.										

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Project: **WISNER_GLENCORE NRJV**

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<i>From</i> (m)	<i>To</i> (m)	<i>Lithology</i>	<i>Sample #</i>	<i>From</i>	<i>To</i>	<i>Length</i>	<i>Au</i> (g/t)	<i>Pt</i> (g/t)	<i>Pd</i> (g/t)	<i>Ni</i> (%)	<i>Cu</i> (%)
183.00	187.80	FGN <i>Felsic Gneiss</i>									
187.80	191.00	GAB <i>Gabbro</i> SDBX at upper contact				2D3					
191.00	192.00	FGN <i>Felsic Gneiss</i>									
192.00	194.50	SDBX <i>Sudbury Breccia</i> 2CD2/3				2CD2					

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<i>From</i> (m)	<i>To</i> (m)	<i>Lithology</i>	<i>Sample #</i>	<i>From</i>	<i>To</i>	<i>Length</i>	<i>Au</i> (g/t)	<i>Pt</i> (g/t)	<i>Pd</i> (g/t)	<i>Ni</i> (%)	<i>Cu</i> (%)
194.50	199.00	GAB <i>Gabbro</i> Altered Gabbro									
199.00	201.00	SDBX <i>Sudbury Breccia</i> SDBX 2CD2/3 intermixed with DIA+GAB+FGN				2CD2					
201.00	208.50	FGN <i>Felsic Gneiss</i>									
208.50	221.50	SDBX <i>Sudbury Breccia</i> SDBX 2CD2/3 intermixed with GRGN+GAB				2CD2					

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<i>From</i> (m)	<i>To</i> (m)	<i>Lithology</i>		<i>Sample #</i>	<i>From</i>	<i>To</i>	<i>Length</i>	<i>Au</i> (g/t)	<i>Pt</i> (g/t)	<i>Pd</i> (g/t)	<i>Ni</i> (%)	<i>Cu</i> (%)
221.50	224.00	GAB	Gabbro									
224.00	226.40	DIA	Diabase				2D3					
		SDBX 2D3 at upper contact										
226.40	227.00	SDBX	Sudbury Breccia				2CD2					
		SDBX 2CD2/3 intermixed with MGN										
227.00	234.20	DIA	Diabase									

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<i>From</i> (m)	<i>To</i> (m)		<i>Lithology</i>		<i>Sample #</i>	<i>From</i>	<i>To</i>	<i>Length</i>	<i>Au</i> (g/t)	<i>Pt</i> (g/t)	<i>Pd</i> (g/t)	<i>Ni</i> (%)	<i>Cu</i> (%)
234.20	238.30	SDBX	Sudbury Breccia	2D2									
			2D2/3										
238.30	243.60	DIA	Diabase										
243.60	263.33	GAB	Gabbro	2D3	S035532	259.32	259.67	0.35	0.00	0.00	0.00	0.00	0.00
			GAB with minor SDBX, broken and altered										
263.33	264.50	GRGN	granite gneiss										
			Hydrothermally brecciated										
264.50	269.00	GAB	Gabbro		S035533	265.74	266.04	0.30	0.00	0.00	0.00	0.00	0.00
			GAB highly altered. @ 266.00mm is 3mm wide py vein.										

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269.00	271.25	GRGN <i>granite gneiss</i>									
271.25	277.10	FGN <i>Felsic Gneiss</i> Intense hematite alteration									
277.10	278.10	GAB <i>Gabbro</i>									
278.10	282.00	SDBX <i>Sudbury Breccia</i> 2D2/3				2D2					

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<i>From</i> (m)	<i>To</i> (m)	<i>Lithology</i>	<i>Sample #</i>	<i>From</i>	<i>To</i>	<i>Length</i>	<i>Au</i> (g/t)	<i>Pt</i> (g/t)	<i>Pd</i> (g/t)	<i>Ni</i> (%)	<i>Cu</i> (%)
282.00	284.50	GRGN <i>granite gneiss</i>	S035534	283.88	284.18	0.30	0.00	0.00	0.00	0.01	0.00
284.50	298.00	SDBX <i>Sudbury Breccia</i> SDBX 2D2/3 intermixed with GRGN									
298.00	301.84	GAB <i>Gabbro</i> SDBX 2D3 at lower contact. Altered GAB or GAB+GRGN									
301.84	309.00	FGN <i>Felsic Gneiss</i> Altered FGN									

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<i>From</i> (m)	<i>To</i> (m)	<i>Lithology</i>	<i>Sample #</i>	<i>From</i>	<i>To</i>	<i>Length</i>	<i>Au</i> (g/t)	<i>Pt</i> (g/t)	<i>Pd</i> (g/t)	<i>Ni</i> (%)	<i>Cu</i> (%)
309.00	316.10	GAB <i>Gabbro</i> Altered GAB with SDBX at upper contact	2D2								
316.10	319.50	FGN <i>Felsic Gneiss</i>									
319.50	326.20	GAB <i>Gabbro</i>									
326.20	328.40	FGN <i>Felsic Gneiss</i>									

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<i>From</i> (m)	<i>To</i> (m)		<i>Lithology</i>		<i>Sample #</i>	<i>From</i>	<i>To</i>	<i>Length</i>	<i>Au</i> (g/t)	<i>Pt</i> (g/t)	<i>Pd</i> (g/t)	<i>Ni</i> (%)	<i>Cu</i> (%)
328.40	330.34	SDBX	<i>Sudbury Breccia</i>	2CD2									
330.34	340.00	FGN	<i>Felsic Gneiss</i> Intensely epi and hema altered FGN. @ 334.00m, 10cm, SDBX 2D3	2D3	S035535	335.83	336.92	1.09	0.00	0.00	0.00	0.00	0.00
340.00	343.85	SDBX	<i>Sudbury Breccia</i> 2CD2/3	2CD2									
343.85	346.00	FGN	<i>Felsic Gneiss</i> Altered FGN										
346.00	355.75	SDBX	<i>Sudbury Breccia</i>	2D3									

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<i>From</i> (m)	<i>To</i> (m)	<i>Lithology</i>	<i>Sample #</i>	<i>From</i>	<i>To</i>	<i>Length</i>	<i>Au</i> (g/t)	<i>Pt</i> (g/t)	<i>Pd</i> (g/t)	<i>Ni</i> (%)	<i>Cu</i> (%)
355.75	359.24	MGN <i>Mafic Gneiss</i> The majority of the unit is MGN with the lower portion transitioning to IGN.									
359.24	364.08	DIA <i>Diabase</i>									
364.08	365.12	SDBX <i>Sudbury Breccia</i>				2D3					
365.12	370.00	FGN <i>Felsic Gneiss</i>									

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<i>From</i> (m)	<i>To</i> (m)		<i>Lithology</i>	<i>Sample #</i>	<i>From</i>	<i>To</i>	<i>Length</i>	<i>Au</i> (g/t)	<i>Pt</i> (g/t)	<i>Pd</i> (g/t)	<i>Ni</i> (%)	<i>Cu</i> (%)
370.00	373.92	SDBX	<i>Sudbury Breccia</i>	2D3								
373.92	396.00	FGN	<i>Felsic Gneiss</i> FGN with zones of intense hematite									
396.00	400.00	SDBX	<i>Sudbury Breccia</i> Epidote altered SDBX 2CD2	2CD2								
400.00	409.00	FGN	<i>Felsic Gneiss</i> FGN with local hydrothermal breccia and very intense hematite alteration									

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<i>From</i> (m)	<i>To</i> (m)	<i>Lithology</i>	<i>Sample #</i>	<i>From</i>	<i>To</i>	<i>Length</i>	<i>Au</i> (g/t)	<i>Pt</i> (g/t)	<i>Pd</i> (g/t)	<i>Ni</i> (%)	<i>Cu</i> (%)
409.00	413.80	SDBX <i>Sudbury Breccia</i> X-cutting SDBX 2CD2/3 into FGN with lesser MGN	2CD2								
413.80	418.70	IGN <i>Intermediate Gneiss</i>									
418.70	422.45	MGN <i>Mafic Gneiss</i>									
422.45	426.54	IGN <i>Intermediate Gneiss</i>									

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426.54	431.88	MCQMON	<i>Megacrystic Quartz Monzonite</i>									
431.88	434.60	MGN	<i>Mafic Gneiss</i>									
434.60	446.00	MCQMON	<i>Megacrystic Quartz Monzonite</i>				2D3					
			SDBX 2d2/3 @ 440.22-440.30m and 442.82-442.88m									
446.00	448.50	SDBX	<i>Sudbury Breccia</i>				2D3					
			SDBX 2D2/3 x-cutting MCQMON									
448.50	451.70	MCQMON	<i>Megacrystic Quartz Monzonite</i>									

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451.70	461.10	SDBX <i>Sudbury Breccia</i> 2CD3 The matrix of the SDBX varies from med. green to med. grey-green with grey quartz eyes. SDBX 2cD2/3 x-cutting MCQMON and MDIA. Intervals of MDIA occur between 454.9-455.05m, 455.50-455.80m, and 456.30-457.0m.									
461.10	471.38	MCQMON <i>Megacrystic Quartz Monzonite</i> MCQMON with local DIA sweats.									
471.38	476.00	SDBX <i>Sudbury Breccia</i> 2D4 SDBX with med. gn matrix within MDAI and MCQMON. @472.03m, 0.5-1.0% blebby py within qtz-chl vn @472.26, epi vn with qtz-hema halo.	S035536	472.04	472.34	0.30	0.00	0.00	0.00	0.01	0.01
			S035537	472.34	472.63	0.29	0.00	0.01	0.01	0.01	0.01
			S035538	472.63	472.92	0.29	0.00	0.01	0.01	0.01	0.02
476.00	521.00	MCQMON <i>Megacrystic Quartz Monzonite</i>	S035541	519.22	519.53	0.31	0.00	0.00	0.00	0.00	0.00

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521.00	0.00	EOH									
		<i>End of Hole</i>									