

DRILL HOLE LOG
ARJAY KIRKER RESOURCES LTD.
NORDENSKIÖLD COAL AREA

COORDINATES 22,322,503.29N; -101,009.45E
ELEVATION - 2381.2
DIP -50°
AZIMUTH 040°
SCALE 1.5 ins. = 10.0 ft.

CORE SIZE NQ 0-548 FT.
HOLE STARTED 13 OCTOBER, 1972
HOLE COMPLETED 21 OCTOBER, 1972
LOGGED BY M.P. PHILLIPS

OVERBURDEN - GLACIAL TILL & WEATHERED
BEDROCK

131.0

132.8

CONGLOMERATE

135.0

135.5 MUD

LABERGE SERIES

SANDSTONE - LIGHT GREY, COARSE GRAINED
TO GRITTY WITH BANDS UP TO 2 FT
OF LIGHT BROWN FINE GRAINED,
OCCASIONAL PARTINGS & FRAGMENTS
OF BLACK SHALE & COAL

148.2-75°

SHALE - BLACK, MASSIVE, HIGHLY BROKEN

149.5

151.0

SHALE - LIGHT - DARK GREY, LAMINATED
X-BEDDED SHALE & FINE GRAINED
SANDSTONE

154.2

SHALE - BLACK MASSIVE

155.5

SANDSTONE - BROWN, MODERATELY
ARGILLACEOUS, FINE-MEDIUM GRAINED
WITH PARTINGS & WISPS OF BLACK
SHALE

161.8

SHALE - BLACK, MASSIVE, MINOR 0.2 FT
BANDS OF BROWN ARGILLACEOUS
SANDSTONE

168.3

SANDSTONE - LIGHT GREY, COARSE
GRAINED TO GRITTY, PARTINGS,
NARROW BANDS AND LENSES OF COAL

171.3

SHALE - BLACK MASSIVE

171.8

178.0

SHALE - BLACK, MASSIVE

174.5

178.8

SHALE - BLACK MASSIVE

DIP

75°

75°

50°

55°

60°

45°

DRILL HOLE LOG

ARJAY KIRKER RESOURCES LTD
DIVISION MOUNTAIN COAL PROSPECT

COORDINATES:

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	LABERGE SERIES - SANDSTONE	DIP
181.7 SHALE - BLACK MASSIVE HIGHLY BEDDED		
183.7		
188.0 SANDSTONE - GREY, FINE GRAINED WITH MODERATE LAMINATIONS & NARROW BANDS OF BLACK SHALE		55°
190.0 - CONTACT LOST COAL - DULL BLACK		
193.5 - CONTACT LOST	- SANDSTONE - DARK BROWN TO BLACK, VERY FINE GRAINED, WEAK TO MODERATELY LAMINATED ARGILLACEOUS SANDSTONE	
195.2 SHALE - BLACK MASSIVE HIGHLY BEDDED		50°
197.3		45°
		60°
		75°
214.3 - SANDSTONE - PARTINGING LENSES OF COAL	AFTER 214.3 - BECOMES STRONGLY ARGILLACEOUS AND DARKER IN COLOR, LAMINATIONS NOT PROMINENT	60°
215.2 COAL - 0.3 FT DULL BLACK IN A BLACK SHALE		
216.0		
218.0 - GRADATIONAL CONTACT SHALE - BLACK MASSIVE		65°
220.0 - GRADATIONAL CONTACT		
221.0 - GRADATIONAL CONTACT SHALE - BLACK MASSIVE SANDSTONE LAMINATIONS		65°
222.0		60°
233.0 - CHILLED IRREGULAR CONTACT 370° PARALLEL TO BEDDING	HUTSHI GROUP - ANDESITE DARK GREEN FINE GRAINED INTRUSIVE WITH CHLORITE AND ALTERED FELDSPAR SPECKLING. CHLORITE & CALCITE FILLED FRACTURES 0-30°	

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HUTSHI GROUP - ANDESITE

265.0 CONTACT GROUND.

COAL - DULL BLACK IN
 PLACES SANDY.

LABERGE SERIES - SANDSTONE & SHALE

LIGHT GREY TO BLACK, INTERLAMINATED
 VERY FINE GRAINED, WEAK TO MODERATE
 ARGILLACEOUS SANDSTONE AND
 BLACK, ARGILLACEOUS SHALE STRONGLY
 X-BEDDED.

268.5 - SHALE - BLACK MASSIVE, MINOR
 269.0 - PARTINGS OF COAL

270.0 - SANDSTONE - DARK COLORED, MEDIUM GRAINED
 WITH FRAGMENT OF BLACK SHALE

271.3 - SHALE - BLACK MASSIVE X-BEDDED
 COAL PARTINGS

GRADATIONAL

276.0 - SHALE - BLACK MASSIVE

278.5 -

282.8 SANDSTONE - LIGHT GREY, MEDIUM

284.2 65°

SANDSTONE - LIGHT GREY, MEDIUM
 GRAINED TO GRITTY SANDSTONE
 OCCASIONAL PARTING OF ARGILLACEOUS
 SHALE

288.1 - PARTINGS AND LENSES OF
 289.7 - COAL AND SHALE

296.0 COAL PARTINGS

296.5 - 60°

SHALE - BLACK, WEAKLY BEDDED

299.5 - CONTACT GROUND

DIP

36°

70°

15°

70°

70°

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		DIP
	<p><u>COAL</u> - BLACK SHALE WITH PARTINGS AND BANDS OF BLACK SHINY COAL</p> <p><u>SANDSTONE</u> - BROWN MEDIUM GRAINED, MODERATE TO STRONGLY ARGILLACEOUS WEAK LAMINATED</p> <p><u>SHALE</u> - BLACK MASSIVE</p> <p><u>SHALE & SANDSTONE</u> - INTERBEDDED</p> <p><u>SHALE</u> - BLACK MASSIVE, OCCASIONAL ARGILLACEOUS LAMINATIONS</p>	
302.0		
304.0		76°
305.0		60°
306.0		
308.5		
313.0 - 55°	<u>SHALE</u> - BLACK, MASSIVE	50°
315.0 - 55°		
315.0	<u>SHALE</u> - BLACK MASSIVE	
316.5		
317.0	CONTACT LOST	
	<u>CAIRNES SEAM - COAL</u>	50°
		56°
		55°
		55°
337 - CONTACT LOST		65°
338.2	<p><u>SANDSTONE</u> - MEDIUM TO DARK GREY WEAK TO STRONG ARGILLACEOUS LAMINATED, X-BEDDED, FINE GRAINED SANDSTONE, PARTINGS OF COAL</p> <p><u>SANDSTONE</u> - GREY, ALTERNATING NARROW BANDS OF COARSE GRAINED & GRITTY SANDSTONE PARTINGS AND LENSES OF BLACK COAL COMMON SANDSTONE & BEDDED 35-40°</p>	50°
		60°
		55°

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260

370

380

410

445

470

480

LABERGE SERIES - SANDSTONE - AS
 PAGE 5

367.0 - 45° CONTACT

COAL

371.0
 PARTINGS & NARROW BANDS
 OF SHALE

375.5 - 45° CONTACT
 ARENACEOUS SHALE
 376.0

SHALE - BLACK MASSIVE

383.0 - 65° CONTACT

SANDSTONE - BROWN, MEDIUM TO COARSE
 GRAINED ARGILLACEOUS SANDSTONE

387.6 - 45° CONTACT

SANDSTONE & SHALE - INTERLAMINATED
 AND INTERBANDED BLACK, SLIGHTLY
 ARENACEOUS SHALE AND GREY, FINE
 GRAINED SANDSTONE X-BEDDING AND
 SLUMPING FEATURES COMMON. SANDSTONE
 BANDS 0.1 TO 0.5 FT AT 0.2 FT

414.5 - 50° CONTACT
SANDSTONE - GREY, FINE GRAINED

470 - 55° CONTACT

BANDS OF SANDSTONE - GREY, FINE
 GRAINED BECOME LESS COMMON.

DIP

50°

50°

60°

55°

55°

50°

55°

55°

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COORDINATES:

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LABERGE SERIES - SANDSTONE &

SHALE AS PAGE 5; GREY FINE
 GRAINED SANDSTONE LAMINATION
 NOT AS COMMON

429.6 - CONTACT LOST
 SANDSTONE - MEDIUM GREY GRITTY.
 425.6 45° CONTACT

DIP

50°

55°

436.0

BANDS UP TO 0.5 FT OF GREY FINE
 GRAINED SANDSTONE BECOME COMMON

55°

55°

446.4 - 60° CONTACT
 SANDSTONE - FINE TO COARSE GRAINED
 BANDS WITH BLACK SHALE CASTS AND
 BANDS FROM 449.5

451.2 - 50° CONTACT
 ALTERNATING BANDS OF BLACK SHALE
 WITH LAMINATIONS OF GREY SANDSTONE
 AND GREY FINE GRAINED SANDSTONE UP TO 0.5 FT

55°

454.0 - 60° CONTACT

SANDSTONE - GREY FINE GRAINED -
 OCCASIONALLY COARSE GRAINED,
 BLACK SPECKLED SANDSTONE, MINOR
 BLACK SHALE BANDS TO 0.1 FT AND
 UP TO 2 FT BANDS WITH BLACK
 SHALE LAMINATION, CASTS OF BLACK
 SHALE SOMETIMES PRESENT

55°

60°

65°

60°

478.6 - 60°

SANDSTONE & SHALE

DRILL HOLE LOG

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COORDINATES

DIP - 30

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LABERGE SERIES - SANDSTONE & SHALE

BLACK, SLIGHTLY ARENACEOUS SHALE WITH
MODERATE-NUMEROUS LAMINATIONS - BANDS UP TO
0.5 FT OF GREY FINE GRAINED SANDSTONE
X-BEDDING & SLUMPING COMMON

DIP

55°

60°

55°

55°

65°

65°

65°

60°

65°

60°

60°

60°

45°

65°

65°

493.0 - 55° CONTACT ---
SANDSTONE - GREY, FINE-MEDIUM
GRAINED

497.4 - 55° CONTACT ---

496.3 - 60° CONTACT ---
SANDSTONE

497.2 - 60° CONTACT ---

510.0 ---
SANDSTONE - GREY, MEDIUM GRAINED
BLACK SPECKLED SANDSTONE

516.0 - 65° CONTACT + -
SHALE WITH SANDSTONE CASTS

518.0 - 65° ---
SANDSTONE - GREY, FINE-MEDIUM
GRAINED WITH MINOR PARTINGS &
LOAD CASTS OF BLACK SHALE

519.7 - SHALE

520.2 - ---

522.2 - 60° ---
GREY, FINE GRAINED SANDSTONE BANDS RARE -
ABSENT AND LAMINATION NOT PROMINENT

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540

LABERGE SERIES - SANDSTONE
SHALE

DIP

65°

70°

5480 END OF HOLE