



DIAMOND DRILL HOLE HEADER LOG

020215

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DATE SEPT 25/96

LOGGED BY: J.T. KELLNER

HOLE ID: 96 GRM-03

REFERENCE FABRIC ORIENTATION DIAGRAM

PROJECT: GRUM

CLAIM: _____

UTM CO-ORDS:

--

 N
E

MINE GRID CO-ORDS:

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 N
E

ALL SYMMETRY DETERMINATIONS LOOKING

_____ WITH _____ DIPPING

ELEVATION: _____ (m)

_____ WITH DIP AZIMUTH _____

TOTAL DEPTH: 227.0 (m)

AZIMUTH: _____ INCLINATION: _____

PURPOSE: _____

REASON HOLE TERMINATED: _____

LOGGED BY: _____

DATE(S) LOGGED: SEPT 29 - OCT 4/96

DRILLING CONTRACTOR: _____

CORE SIZES

HOLE CEMENTED: _____

SIZE FROM TO

STEEL DOWN HOLE: 30' CASING PULLED

NR | | | | |

| | | | | | | | |

COLLAR CASED AND CAPPED: _____

| | | | | | | | |

STARTED: SEPT 23/96

COMPLETED: SEPT. 28/96

LITHOLOGIC LOG

HOLE ID: 96 GRM-03

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Core Size: NQ

Date: SEPT 29 - OCT 4 / 96

Logged By: J.T. KELLNER

FROM (m)	TO (m)	REC.	NO.	UNIT	DESCRIPTION
00	91				CASING, NO RECOVERY
91	297	8	11	401912P	CALCAREOUS PHYLLITE; MED PALE GREY TO GREEN W DARKER BANDS (CARBON RICH). 2-3% QTZ-CARBONATE VNS UP TO 14cm, USUALLY W TRACES OF PYRITE NEAR VEIN/LAWNS CONTACTS. SANDY FAULT RUBBLE @ 27.0 - 27.1m, GRAPHITE RICH SEGMENT.
297	320	9	12	47191VI	CHLORITIC PHYLLITE, MOD SILICIFIED. MED GREEN COLOUR W $\leq 10\%$ QTZ/CARB VEINING // TO FOL. NO SX, NO CARBON
320	329	8	13	310191VI	GRAPHITIC PHYLLITE W 10% DULL WHITE QTZ VEINS UP TO 9cm. TRACES OF PYRITE BUT $< 1\%$. VERY BROKEN @ END OF INTERVAL.
329	351	8	14	219(309V) 60:14	BULL WHITE QTZ VEIN W GRAPHITIC PHYLLITE FINGERS. VERY BROKEN; QTZ HAS GRAPHITE SEPTA T/O. $< 1\%$ PYRITE.
351	745	9	5	401919 (441V)(30V) 70:120:10	CALCAREOUS PHYLLITE W METABASITE FINGERS & CARB-BEARING GRAPHITIC PHYLLITE. OVERALL A MED GREY TO MED PALE GREEN, WITH LOCAL MED GREEN & DRK GREY AREAS. - 3 TO 5% QTZ/CARB VEINING, UP TO 16cm, W SERICITE DEVELOPMENT @ MARGINS. - POSSIBLE FAULT GOUGE @ 49.4 - 49.6m

LITHOLOGIC LOG

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FROM (m)	TO (m)	REC.	NO.	UNIT	DESCRIPTION
7.45	8.39	91	16	4.4.5.1j	METABASITE w VARYING TEXTURE, FROM MED-FINE GRAINED & FOLIATED TO COARSE GRAINED PORRIDGE TEXTURE. MED DARK GREEN TO PALE GREEN. 1 TO 2% QTZ UNS UP TO 14cm, BUT NO SX. MODERATE TO LOW SERICITE T/O; ALSO HAS THE TALCOSE FUCHSITE REPLICA MINERAL (?).
8.39	8.85	91	17	4.0.9.5	CALCAREOUS PHYLLITE; MED PALE GREEN w 2 TO 3% QTZ/LARG VNLETS AND QTZ UNS ≤ 9cm WIDE. WEAK SERICITE DEVELOPMENT; LOCAL CHLORITE (MINOR); NO SX SEEN.
8.85	9.167	91	18	2.0.1.9.1g	NON-CALCAREOUS PHYLLITE w WEAK TO MOD CHLORITE DEVELOPMENT T/O, WEAK SILICIFICATION & WEAK GRAPHITE. PALE LT GREEN / GREY TO PALE GREY; 3 TO 5% QTZ UNS UP TO 11cm w TRACES OF PYRITE BUT NOT ENOUGH TO NOTE. SOME SOFTER BROKEN SEGMENTS, POSSIBLY WR SHEARING.
9.167	9.90	91	19	4.4.1.5.1j	METABASITE w MOD CHLORITE & SERICITE DEVELOPMENT. PALE TO MED PALE GREEN, EITHER FOLIATED MED-FINE GRAINED OR COARSE-GRAINED "PORRIDGE" AS BEFORE, w FUCHSITE-LIKE TALC MINERAL. TRACES OF PYRITE ALONG QTZ UNLETS (≤ 2% QTZ OVERALL).
9.90	10.103	91	110	Q.P.G.W.5 (4.4.5) 9.8:2	QTZ VEIN w 10 TO 12% SERICITE & SERICITIC METABASITE FRAG'S. 2 TO 3% PYRITE AND 1 TO 2% GALENA IN A F.B. FORM OCCURRING IN LOCAL BANDS & ENRICHED AREAS.

LITHOLOGIC LOG

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Date: _____

Logged By: JTK

FROM (m)	TO (m)	REC.	NO.	UNIT	DESCRIPTION
1010.3	1011.9	9	111	44.5ij	COARSE TO MED-FINE GRAINED METABASITE w MOD SERICITE & "FUCHSITE" DEVELOPMENT. NO GRAPHITE OR Sx, MOD TO WK FOLIATION.
1011.9	1016.2	9	112	52ZIGIPWcs	QTZ PHYLLITE w MOD SERICITE / muscovite & CARBONATE CONTENT. 3 TO 5% SPHAL, UP TO 1% GALENA / 1 TO 2% PYRITE AS EITHER F.G. BANDS OR IN "GLASS" UP TO 3mm ELONGATE // TO RFE. VERY SILICEOUS T/O, WELL-FOLIATED . WELL-FOLIATED.
1016.2	1113.5	6	113	209gml	NON-CALCAREOUS, MODERATELY GRAPHITIC PHYLLITE: FAULT ZONE, VERY POOR RECOVERY. 5 TO 8% BULL WHITE QTZ UNS & RUBBLE (VEINS ≤ 14cm). SOME AREAS HAVE WK TO MOD CHLORITE GIVING A PALE GREEN COLOUR VS PALE GREY TO MED GREY.
1113.5	1226	9	114	209gPZN (GK)	NON-CALCAREOUS PHYLLITE, UN-SHEARED; MED TO DRK GREY; ≤ 1% PYRITE IN F.G. BANDS // TO RFE. < 1% SPHALERITE. WITH PYRITE BANDS. 3 TO 5% QTZ & QTZ (CARB (ANK) VEINS UP TO 11cm) NO Sx. MODERATE GRAPHITE CONTENT BOTH IN THE QTZ & WALLROCK.
1226	1272	8	115	54ZIGWg1 (44ij) 9.5:5	QTZ PHYLLITE; CHLORITE > muscovite, MOD GREEN & PALE WHITE BANDS w 5 TO 6% PYRITE, 2 TO 3% SPHALERITE AND TRACES OF GALENA AS F.G. BANDS // FOLIATION. WEAK GRAPHITE. ONE SMALL 35cm FINGER OF PALE GREEN METABASITE @ 126.1m, w WK "FUCHSITE".

LITHOLOGIC LOG

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FROM (m)	TO (m)	REC.	NO.	UNIT	DESCRIPTION
11272	11446	9	116	Z0191P1g	NON-CALCAREOUS PHYLLITE; MED-DARK GREY TO DRK GREY, W 1 TO 2% PALE WHITE QTZ UNLETS W UP TO 1% PYRITE NEAR VEIN MARGINS. WEAK TO MODERATE GRAPHITE, WEAK LOCAL CHLORITE DEVELOPMENT.
11446	11492	9	117	Z0PZ1Wg	NON CALCAREOUS PHYLLITE SIMILAR TO ABOVE BUT WITH 2 TO 3% PYRITE AND ≤1% SPHAL. IN F.G. BANDS // TO FOL. TRACES OF GALENA. 1 TO 2% QTZ UNS AS ABOVE. MAY BE WEAK SERICITE DEVELOPMENT.
11492	11573	16	118	Z1P1Z1Wm (30m) 80:20	RIBBON BANDED QTZ PHYLLITE; DRK GREY W BLEACHED WHITE QTZ UNLETS AND BRONZE Sx BANDS - MOD TO HIGH CARBON CONTENT. 3 TO 5% PYRITE, 1 TO 2% SPHAL IN F.G. BANDS // TO FOLIATION. - VERY RUBBLY & BROKEN; BOUNDED AT EITHER END OF THE INTERVAL BY FAULT ZONES IN CARBONACEOUS PHYLLITE; FAULTS @ 149.2 - 149.7m AND 156.2 - 157.3m; 40 TO 50% RECOVERY ON EACH OF THESE INTERVALS.
11573	11594	17	119	4417j	BLEACHED WHITE TO PALE GREEN METABASITE; MODERATELY TALCOSE, WK "FUCHSITE" DEVELOPMENT. MED-COARSE GRAINED.
11594	11639	12	120	Z1P1Z1GW	VERY BROKEN RIBBON BANDED QZITE; INTERVALS FROM 160.0-161.2m AND 162.5-163.1m HAVE NO RECOVERY. FRAGMENTS HAVE A PALE GREY COLOUR; 5 TO 8% PYRITE & 1 TO 2% SPHAL AS F.G. BANDS AND LOCAL DISSEM. XTALS. TRACES OF GALENA

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FROM (m)	TO (m)	REC.	NO.	UNIT	DESCRIPTION
11639	11640	6	21	3.0M	GRAPHITIC PHYLLITE FAULT CONGE MATERIAL; VERY BROKEN, UNKNOWN CONTACTS.
11640	11671	9	22	3.0Piq	GRAPHITIC PHYLLITE w 2 to 3% PYRITE IN DISSEM BANDS // TO FOLIATION. WK SILICIFICATION. VERY BLACK. $\leq 2\%$ QZ UNLS UP TO 13 cm w PYRITE.
11671	11713	7	23	5ZIGRIS (4Hj) 9P:19	MASSIVE PYRITE, WKLY SILICIFIED, w ~5% F.G. SPHAL IN DISSEM. BANDS, AND 5 TO 7% F.G. GALENA TO THE PYRITE. 5 TO 8% QZ EYES; STRONG SERICITE DEVELOPMENT NEAR AND WITHIN 44j. MOD SILICIFIED, PALE YELLOW COLOUR.
11713	11736	7	24	2PZIGR	RIBBON BANDED QZITE; 15% PYRITE, 8 TO 10% SPHAL & $\leq 5\%$ GALENA IN F.G. BANDS // TO REC. VERY GRAPHITE RICH; WELL-FOL.
11736	11810	9	25	4.4j19 (3ZR) 7P:30	BLEACHED, PALE GREEN & WHITE METABASITE w "FUCHSITE". WELL FOL, WK TO MOD SILICIFIED; (MAY BE 47jg). 2 INTERVALS OF 3ZR, 1st FROM 177.7-178.7m, 2nd FROM 180.1-180.4m. BROWN & WHITE, ~20 TO 25% PYRITE, 5 TO 8% SPHAL, 1 TO 2% GALENA; WELL-FOL.
11810	11828	8	26	2PZW	RIBBON BANDED QZITE AS ABOVE BUT LOWER GRADE. VERY BLACK & GRAPHITIC; 5 TO 8% PYRITE, 2 TO 3% SPHAL, TRACES OF GALENA. 3 TO 5% X-cutting QZ VELTS, ≤ 4 mm WIDE.

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Logged By: J.T.K.

FROM (m)	TO (m)	REC.	NO.	UNIT	DESCRIPTION
118.28	121.14	9	27	Z019P11	NON-CALCAREOUS, MED TO DARK GREY PHYLLITE w 1 TO 2% QTZ UNLETS ≤ 3mm. MODERATE GRAPHITE CONTENT; TRACES OF F.G. PYRITE T/O. WEAK CHLORITE DEVELOPMENT IN SOME LOCAL AREAS. MINOR PASTY WHITE FAULT GONGES (TALC?). GOOD KINK BANDING NEAR 203m.
121.14	121.55	9	28	Z1Z1G1P1RCS	RIBBON BANDED QTZITE w ~15% PYRITE, 8 TO 10% SPHAL. & ≤ 3% GALENA AS EITHER SEMI-MASSIVE ZONES OR AS F.G. BANDS // TO RFE. MOD TO STRONG SERICITE DEVELOPMENT (MAY BE REMNANT 44 FINGERS). MINOR EXTENSION GASHES ⊥ TO RFE PLANES; 95% QTZ, 5% PYRITE. - CALCITE COATING ON FRACT. SURFACES.
121.55	121.93	9	29	414j151 (57GHC199) 55.145	PALE GREEN TO YELLOW METABASITE w MOD "FUCHSITE" DEVELOPMENT & LOCAL MOD SERICITE DEVEL. WELL FOLIATED. 3 TO 5% QTZ VNS UP TO 8cm WIDE w STRONG SERICITE & 5% PYRITE. - MASSIVE PYRITE CONTAINS 20 TO 25% SPHALERITE, 5 TO 8% GALENA IN F.G. & DISSEM. FORMS. ALSO HAS TRACES OF CPY AND 5 TO 8% QTZ EYES w WEAK OVERALL SILICIFICATION. NICE LOOKING ORE! INTERVALS: Py/SPHAL: 215.5 - 216.4, 216.9 - 217.3, 218.9 - 219.3m METABASITE: 216.4 - 216.9, 217.3 - 218.9m. 6cm FAULT @ 219.1m, u/c @ 61° TCA, l/c @ 57° TCA.

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Logged By: JKellner

FROM (m)	TO (m)	REC.	NO.	UNIT	DESCRIPTION
2193	2259	8	30	2PZGR15 (44j:PG1 65j:BS1	RIBBON BANDED QTZITE w 10 TO 15% PYRITE, 10% SPHALERITE, AND ~ UP TO 5% GALENA, ALL AS F.G. TO M.G. XALS IN BANDS // TO FOL. BLACK TO DRK GREY w PURPLE TINGES. - MODERATE TO MOD-HIGH GRAPHITE CONTENT. BOTH UNITS ARE WELL-FOLIATED & CONTAIN NO CARBONATE.
2259	2270	8	31	310PZINg	GRAPHITIC PHYLLITE w 1 TO 3% PYRITE BANDS AND TRACES (L%) OF SPHAL. // TO FOL. DARK BLACK TO DRK GREY; MOD SILICIFIED, WELL-FOLIATED.. - FAULT GOUGE @ 226.6m; u/c @ 64° TCA.
					END OF HOLE!



Anvil Range
MINING CORPORATION

STRUCTURE LOG

HOLE ID 96 GEM-0.3

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Date: Sept 29 - 196

Logged By: JT KELLNER

FROM (m)	TO (m)	FEATURE	SY M	S ₀		S ₁		S ₂		DESCRIPTION
				DIP	DIRECT	DIP	DIRECT	DIP	DIRECT	
	98							67		RFE
	103	Z				47				Z-FOLDS
	159	S				87	180			S-FOLD
	160							84		RFE
	205							83		RFE
	269							78		RFE
	309							80		RFE
	362							83		RFE
373	374	m				88				CLOSURE
388	391	S				86				
413	414	S				51	180			S-FOLD
	415							74		RFE
	463	m				79	180			CLOSURE
	464							68		RFE
479	492	m				72	180			GRAPHITIC BRX CLOSURE.
	514							71		RFE
554	555	Z				62	180			Z-FOLDS
	587	S				11	180			SHALLOW ANGLE S-FOLD
	591							66		RFE
	644							62		RFE
	706							68		RFE
741	742	m				82				
	758							39		RFE IN 44
790	792	Z				80	180			
	794							49		RFE
	795							62		RFE
	851							49		RFE
853	855	m				68				
	886							63		RFE
	969							65		RFE
	1065							71		RFE
	1129							71		RFE IN SHEAR ZONE
	1141							73		RFE
	1184							71		RFE
	1228	Z				71	180			Z-FOLDS
	1280							79		RFE



FAULT LOG

HOLE ID 96 GRM-03

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Date: SEPT 29/96

Logged By: J.T. KELLNER

FROM (m)	TO (m)	FEATURE	R E C	UPPER		INTERNAL		LOWER		DESCRIPTION
				DIP	DIRECT	DIP	DIRECT	DIP	DIRECT	
1149	1149	B,2	8							
1149	1159	B,3	7							
1159	1168	B,2	8							
1178	1188	B,2	8							
1192	270	B,3	9							
270	271	FG,2	6							SANDY PYRITIC GONGE
271	279	B,R,2	8							
288	293	B,2	9							
293		FG,3	8	8,2				6,8		3cm GONGE
293	297	B,2	9							
323	349	B,3	8							
349	364	B,T,2	9							
364	366	F,X,2	8					5,2	1,8,0	30/44 CONTACT.
366	425	B,T,2	9							
452	461	T,2	9							
487	488	FG,2	8	5,8				8,4		GRAPHITIC.
488	498	B,X,2	8							
534	562	T,1	9							
603	631	T,F,3	8	7,6				6,8		4 FAULTS, 2 to 3cm.
701	714	T,2	9							
714	716	FG,3	9	7,7				6,9		VERY PASTY!
716	746	B,2	8							
	769	FG,3	7	4,9				6,4		CHLORITIC
811	838	B,2	9							
906	959	B,2	9							
969	987	B,2	8							
	987	FG,3	7	6,8						44/QTZ CONTACT
987	1100	Q								
1017	1019	FG,2	8							44/QTZITE CONTACT.
	1025	FG,2	8							RB. QTZITE
11063	11069	B,3	8							
11069	11087	FG,3	1					3,2		ALMOST NO RECRY; VERY SOFT
11087	11091	B,3	6							
11092	11096	FG,3		4,6				5,7	1,8,0	
11096	11105	B,3	8							
11105	11133	FG,2				7,1		4,4	1,8,0	QTZ/44/20 ENABLER.