





# DRILLING RECORD

AREA: <b>PIEMAN INVESTIGATION</b>		POSITION	CO-ORDINATES:	E:	N:	HOLE No. <b>6630</b>
LOCATION: <b>Sophia Tunnel</b>			ON LINE: <b>W650</b> <b>W651</b>	BEARING: <b>0°00'</b>	AT CH	
GEOLOGICAL PLAN: SURVEY PLAN: <b>S368855 2/3</b>		LEVEL	AT STN: <b>W650</b>	BEARING: <b>182°64'</b>	DIST: <b>75</b>	FILE No.
DATES (a) DRILLED: <b>31-7-63</b> <b>21-8-63</b> (b) WATER TABLE:			SURFACE	COLLAR	WATER TABLE	
METHOD: <b>D.D.</b> DIAMETER: <b>N.</b>		INCL.	<b>800</b>			SHEET <b>3</b> OF <b>7</b> SHEETS
SITE REMARKS: <b>Talus slope at the Murchison end</b>			HOLE DRILLED	ANGLE FROM HORIZONTAL	DIRECTION	
			<b>+ 1°</b>	<b>53°30' T at 300'</b> <b>41°30' M</b>		

DEPTH	CORE DRAWN	CORE LENGTH	CASING	RECOVERY %	GRAPHIC LOG	JOINTS No. Per Foot.	FLUID RETURN	GROUND WATER	WATER PRESSURE TESTS LEAKAGE	REMARKS
20'0"										
20'5"										
21'0"										
21'5"										
22'0"										
22'5"										
23'0"										
23'5"										
24'0"										
24'5"										
25'0"										
25'5"										
26'0"										
26'5"										
27'0"										
27'5"										
28'0"										
28'5"										
29'0"										
29'5"										
30'0"										

3" - 30"

1" - 12"

Up to 30"

Ch-Chlorite  
Sl-Silicates  
C-carbonate  
O-open joints

W- Weathered joints  
Q- Quartz

galena leached

leached cavities

leached cavities

leached cavities

leached cavities

leached cavities & pyrite  
well weathered, friable in parts, some quartz cavities, chert?

leaching analyses of sulphides by Richards & Matthes 14/6/61

Mainly sound rock, Granitic Types

leached cavities

leached-cavities

Green-grey with large quartz crystals. (veins)  
leached. cavities & pyrite

Haematite



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LOCATION: <b>Sophia Tunnel</b>			ON LINE: <b>W650</b> <b>W651</b>	BEARING: <b>0°00'</b>	AT CH:	
GEOLOGICAL PLAN: SURVEY PLAN: <b>5368855 2/3</b>		LEVEL	AT STN: <b>W650</b>	BEARING: <b>182°54'</b>	DIST: <b>75</b>	FILE No.
DATES (a) DRILLED: <b>31-7-63</b> (b) WATER TABLE: <b>21-8-63</b>			SURFACE	COLLAR	WATER TABLE	
METHOD: <b>D.D.</b> DIAMETER: <b>A1</b>		INCL.	<b>800</b>			SHEET <b>5</b> OF <b>7</b> SHEETS
SITE REMARKS: <b>Talus slope at Murchison end</b>			HOLE DRILLED	ANGLE FROM HORIZONTAL	DIRECTION	
			<b>41°</b>	<b>53°30' T</b> <b>41°30' M of 300'</b>		

DEPTH	CORE DRAWN	CORE LENGTH	CASING	RECOVERY	GRAPHIC LOG	JOINTS No. Per Foot.	FLUID RETURN	GROUND WATER	WATER PRESSURE TESTS LEAKAGE	REMARKS	
										O - open joints	S1 - slickensides
40'0"											ch - chlorite
40'5"											
41'0"					+						
41'5"											
42'0"					+						
42'5"											
43'0"					+						
43'5"											
44'0"					+						
44'5"											
45'0"					+						
45'5"											
46'0"					+						
46'5"											
47'0"					+						
47'5"											
48'0"					+						
48'5"											
49'0"					+						
49'5"											
50'0"											

Up to 36"

1" - 30"

1/2" - 6"

1/4" - 15"

Up to 36"

1 1/2"

Grey

20 g.p.m.

25 g.p.m.

leached cavities  
Analyses of Sulphides by Rickards  
Mather 14/6/67

Mainly sound rock, Granitic Types

leached cavities in part

Melanocratic, medium-fine grained

leached cavities

leached cavities

Broken rock contains quartz sand in part,  
possibly due to drilling

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AREA: <b>PIEMAN INVESTIGATION</b>		CO-ORDINATES:	E:	N:	HOLE No.
LOCATION: <b>Sophia Tunnel</b>		ON LINE: <b>W650</b> <b>W651</b>	BEARING: <b>6°00'</b>	AT CH:	<b>6630</b>
GEOLOGICAL PLAN: SURVEY PLAN: <b>5368856 2/3</b>		AT STN: <b>W650</b>	BEARING: <b>182°34'</b>	DIST: <b>75</b>	FILE No.
DATES (a) DRILLED: <b>31-7-63</b> <b>21-8-63</b> (b) WATER TABLE:		SURFACE	COLLAR	WATER TABLE	SHEET <b>6</b> OF <b>7</b> SHEETS
METHOD: <b>D.O.</b> DIAMETER: <b>N</b>		<b>800</b>			
SITE REMARKS: <b>Talus slope at the Murchison end</b>		HOLE DRILLED	ANGLE FROM HORIZONTAL	DIRECTION	
		<b>VEET/HOR/INC</b>	<b>+1°</b>	<b>53°30' T</b> <b>4°30' M + 650'</b>	

DEPTH	CORE DRAWN	CORE LENGTH	CASING	RECOVERY %	GRAPHIC LOG	JOINTS No. Per Foot.	FLUID RETURN	GROUND WATER	WATER PRESSURE TESTS LEAKAGE	REMARKS	
										O - Open joints	S1 - Slickensides
50'							Grey				
55'											
60'											
65'											
70'											
75'											
80'											
85'											
90'											
95'											
600'											

*Mainly Sound Rock, Granitic Types.*

*Core finer grained, less quartz in rock more basic: melanocratic or dark coloured.*

*Small pyrite seams, some chlorite or serpentinite. leached cavities*

*Granite - Granodiorite  
With vesicles, small leached cavities, no carbonate material remains.*

*Granodiorite (Black-green)*

*leached cavities along quartz-carbonate veins*

*← TS 0519 (Carbonated sericitized chloritized granitic rock).*

Up to 18"

1"-6"

1/2"-2"

1"-4" one 12"

Up to 36"

1/2"-9"

Up to 18"

30 g.p.m.

40 g.p.m.

*little pyrite*

