



DRILL HOLE RECORD

978027

Location QUEEN HILL Property QUEEN HILL  
 Commenced 26/11/80 Completed 12/1/81  
 Objective QUEEN HILL ORE RESERVE.  
 SECTION 2980

District ZEEHAN Bearing (M) 283.55° Hole No G71  
 % Recovery 97% Grid bearing (M) -11.25° Date 17-2-81  
 Core size HQ to 114m, NQ to 358.2m. Logged S. RICHARDSON  
 Co-ordinates S361639.76 N 360867.68 Dip 56.59° Alt./R.L. 217.58

SURVEY DATA				GRAPH DERIVED DATA			CALCULATED CO-ORDINATES			REMARKS
DEPTH	DIP	BEARING(M)	INSTRUMENT TYPE	DEPTH	DIP	BEARING(M)	NORTHING	EASTING	ALTITUDE	
9.5M	56°	282°	EASTMAN	0	56.6	283.5	5361639.76	360867.68	217.58	
18.5M	55°	280.5	"	25	55.75	281.25				NO DRILLING PROBLEMS.
28M	54°	281.5	"	50	55.0	279.75				
31M	53.75°	281.5	"	75	55.0	279.25				9 m HW LEFT TO PROTECT TOP OF HOLE.
				100	55.0	279.75				
				125	54.5	280.75				
				150	54.0	281.75				NO SIGNIFICANT INTERSECTION
9M	56.25°	<i>in rods</i>	"	175	54.0	281.75				
15.5M	56°	<i>in rods</i>	"	200	54.0	281.25				
28.5M	55.5°	<i>in rods</i>	"	225	53.25	281.25				
46M	55.5°	280.5	"	250	51.5	282.75				
70M	55°	280°	"	275	51.0	284.75				
103M	55°	280°	"	300	51.0	285.75				
136M	54.5°	281.5	"	325	48.75	284.75				
166m	54°	282°	"	350	48.5	282.25				
199m	54°	281.5°	"							
229M	53°	281.5	"							
262M	50.75°	284°	"							
304m	48°	285.5°	"							
331m	48°	284°	"							
349m	48.5°	282°	"							















**Feature**

Bedding   
Foliation   
Fragment size & shape 

Shearing   
Fault   
Vein 

c carbonate  
a quartz

**Mineralization**

Trace 1-5%  
Common 5-15%  
Abundant 15-60%  
Massive > 60%

**978035**

CORE REC'D	DEPTH m	GEOLOGY	VISUAL LOG	TRACE COMMON ABUNDANT MASSIVE	DEPTH m	MINERALIZATION
		Lithology - as above - Dk. grey to black slate w. fragments, rafts and interbeds of lt. grey f.g. (micaceous) quartzite.				Py rare (1-2) veinlet
3.0					178.5	
		FAULT - Pug 50° to c.A.			179.2	2m py 99 vein 80° to c.A.
3.0	180	50/51 - 175m - 60° to c.A. 180m - 65° to c.A. 185m - 40° to c.A. 190m - 65° to c.A. 195m - 50° to c.A. 200m - 70° to c.A.			179.7 180 180.2	1cm py 60 sid vein 40° to c.A. Py 15 veinlet, vein & f.g. locally assoc. w. qtz & sid.
3.0					181.5 181.9 182.3	Py 80-90 qtz vein w. Str. tr 1st blebs. 70° to c.A. Py 2-3 (10) veinlets.
3.0	185				185	Py rare (1-2) veinlets.
3.0					187.2	1cm py 70 sid vein 35° to c.A.
3.0					189.5 190	1cm py 30 sid vein 50° to c.A.
3.0	190				191.5 191.7	5cm py 15 veinless 45° to c.A.
3.0		FAULT - Pug 40° to c.A.			194.0	1cm py 30 sid veinlet 40° to c.A.
3.0	195				194.9 195	10cm py 80 qtz/sid vein 50° to c.
	195.5	lt. grey f.g. micaceous quartzite. weakly bedded at 50° to c.A. lge. interbed in QS.				
	197.4	Dk. grey to black slate w. frag., rafts and interbeds of lt. grey f.g. (micaceous) quartzite. QS as for 128.7-148.4				
3.0					200	

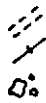




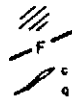


Feature

Bedding  
Foliation  
Fragment  
size B shape



Shearing  
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Vein



c carbonate  
q quartz

Mineralization

Trace 1-5%  
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Abundant 15-60%  
Massive > 60%

978039

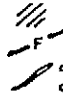
CORE REC'D	DEPTH m	GEOLOGY	VISUAL LOG	MINERALIZATION			DEPTH m	MINERALIZATION
				TRACE	COMMON	ABUNDANT		
30		Lithology - as above - dk. grey to black slate w. frag. rfts and interbeds of lt. grey f.g. (micaceous) quartzite - locally contorted.					276.0	1cm py 20 sid vein 55° to c.A.
30							280.0	Py rare veinlet.
26	281.7	<u>FAULT ZONE</u> - Pug and broken core. orientation from individual surfaces appears to be 20-30° to c.A.					281.3	1cm py 15 veinlet. 30° to c.A.
5							285.0	Py rare.
10	284.7						285.0	
13							287.9	1cm py 50 sid vein. 25° to c.A.
30		<u>FAULT</u> - broken core - 30° to c.A.					288.0	1cm py 40 qtz / sid vein 25° to c.A.
30							290.0	Py rare
30		<u>FAULT</u> - Broken core 40° to c.A.					290.8	
30							292.0	Py 10-15 f.g. to mg. (assoc. w. qtz)
30							292.4	
30		<u>FAULT</u> - pug - 10-15° to c.A.					293.3	Py rare veinlet.
24	295.3	Intersbedded brown pyritic mudstone grey to black slate and grey green lenses of mudstone - possibly micaceous.					295.3	Py 15 f.g. bedded. (text)
24	295.6	dk. grey to black slate w. frag. rfts and interbeds of dk grey f.g. (micaceous) quartzite. (contorted) Qs as for 128.7 - 148.4					296.6	Py 1 as f.g. (bedded) and pyritic webs.
29							298.3	5cm py 95, str 3, sp 2 vein 30° to c.A.
29							298.9	1cm py 60 sid vein 40° to c.A.
	300						300	

#### Feature

Bedding  
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size & shape



Shearing  
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Vein



c carbonate  
q quartz

#### Mineralization




# 978040

Trace 1-5%  
Common 5-15%  
Abundant 15-60%  
Massive >60%

CORE RECD	DEPTH m	GEOLOGY	VISUAL LOG	TRACE	COMMON	ABUNDANT	MASSIVE	DEPTH m	MINERALIZATION
	301.6	Lithology - as above - dk. grey to black, slate w. frag. reefs & interbeds of lt. grey f.g. quartzite. sm. f.g. tuff						301.1	
	30	lt. grey green to dk. green f.g. to lapilli tuff, w local fine agglomerate A pyroclastic interval consisting predominantly of vesiculated lava frag. (60-70%) 1mm to 2-3cm (av. 5cm) w. local agglomerate size lava frag. Frag. are highly sericitic with vesicles infilled by sericite, chlorite carbonate, qtz or rarely pyrite. Interstitial to the fragments is a f.g. matrix of the same comp. as the frag. Bedding is very poorly to well developed; and gen. at low to mod. angles to c.A. av. 35-40°. Cleavage is very weakly dev. This lithology grades to a well bedded to massive f.g. tuff of the same composition.						305	Py rare
	30							310	
	31							310.7	1cm sid vein 11 c.A.
	30							311.1	1cm py 20, sp 3-5 sid vein 20 c.A.
	30							312.2	
	31							314.7	5cm py 99, sid vein 60° to c.A. Py 2-3 f.g. & veinlet.
	30							315.7	Py rare (f.g. & veinlet)
	30							316.3	Py 2-3 f.g. to c.g. & veinlet.
	30							316.6	5cm py vein 65° to c.A.
	30							317.7	Py 2-3 (S) f.g. & veinlet.
	30							317.7	3cm py 70, sid vein 65° to c.A.
	30							317.7	Py 2-3 (S) f.g. & veinlet.
	30							318.8	Py rare.
	30							319.3	1cm py 80 sid vein 45° to c.A.
	30							319.8	Py 10 veinlet (stockwork)
	30							320.7	Py rare
	30							321.7	Py 20 f.g. to c.g. & veinlet.
	30							321.9	
	30							324.5	1cm py 60, sid vein 35° to c.A.
	30							324.8	Py 2-3 f.g. to c.g.
	30							325	Py rare.

FAULT - Pug. - 15° to c.A.

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c carbonate  
& quartz

**Mineralization**

**978041**

Trace 1-5%  
Common 5-15%  
Abundant 15-60%  
Massive > 60%

CORE RECD	DEPTH m	GEOLOGY	VISUAL LOG	TRACE COMMON ABUNDANT MASSIVE	DEPTH m	MINERALIZATION
	326.2	Lithology - as above - lt. to dk. grey green f.g. to lapilli tuff.				Py rare.
3.0	327.2	Interbedded lt. grey green f.g. tuff and black cong. slate. Interbeds w. 10cm. of tuff & slate containing rafts of tuff & mudstone.			326.6 327.1 327.4	1cm py 80 sid vein 20° to c.A.
	328.7	lt. grey to dk. grey slate containing fragments rafts & interbeds of lt. grey (micaceous) siltstone to f.g. quartzite.			328.0 328.4 328.7	1cm sid. vein 40° to c.A. 1cm sid vein 35° to c.A. 10mm sid vein 7° to c.A.
1.3	329.4	<b>FAULT ZONE</b> Broken core & sid veining - 70° to c.A. but possibly 15-20°.			329.5 329.7 330.0	Py 1-2 (10) f.g. & rare veinlet. 10cm sid vein 30° to c.A. post date Py vein. 2cm py 95 q/c vein 40° to c.A.
1.4	330.0	1 FAULT - Broken core 75° to c.A. 2 FAULT - Broken core 20° to c.A. 3 FAULT - Broken core = py vein 20° c.A. 4 FAULT - Broken core 40° to c.A.			331.3 331.4 331.7	Py rare
	330.0	FAULT - Broken core 30° to c.A. FAULT - Sheared slate 0° to c.A.				Py 1 (5) f.g. (bedded) & rare veinlet.
3.0		QS as for 128.7-148.4 but showing extreme S. sed. det. w. lge amounts of qtzite as frag & rafts. Locally pyritic (bedded) fragments.				
8	335.0	S/s 330m - 0° to c.A. 335m - 30° to c.A.			335.9	
2.4		FAULT - 35° to c.A. Broken core & pyg.				
	337.1	lt. grey green to dk. grey green lapilli-tuff w. local fine agglomerate.			337.1	5cm py 30 qtz vein 20° to c.A. Py 2-3 f.g. & rare vein.
3.0	340.0	Pyroclastic interval w. fragments w. 1cm locally reaching 7-8cm. Description as for 301.6 - 326.2. 3cm sid vein 25° to c.A. Locally bedded at low & to c.A.			339.7 340.0	Py rare.
3.0	343.8	Dk. grey to black slate w. fragments rafts and (interbeds) of lt. grey f.g. (micaceous) quartzite.			341.6 342.7	2cm py. 90 sid vein 35° to c.A. Py rare 2cm py 50 sid vein 40° to c.A. Py rare
3.0	345.0	QS. as for 128.7-148.4 but only rare interbeds of quartzite. Qtzite occurs mainly as fragments 1mm to 10cm., gen oblate.			342.95 343.5 345.1 345.7 346.4 346.7 347.1	1cm py 80 qtz vein 50° to c.A. Py 2-3 (10) f.g. bld & veinlet. 35cm py 95, Sta 1 sid vein 40° to c.A. Py rare Py 5-10 veinlet, f.g. & bld. 2cm py 60 sid vein 30° to c.A. 2cm py 80 " " 20cm py 90 sid / set vein 35° to c.A. 15cm py 80 sta 10 sid vein 30° c.A.
3.0	347.1	S/s 345m - 40° to c.A. 350m - 10° to c.A.			347.4 347.9 348.1 349.15	Py 1-2 veinlet assoc. w. siderite. 2cm py 80 sid vein 20° c.A. 2cm py 95 sid / set vein 20° c.A. 1cm py 95 sid vein 55° to c.A.
	350.0				350.0	

