



DRILL HOLE RECORD

Location *Que River*

Property *MINGOAL LEASE 2m/75*

District *TASMANIA*

Bearing (M) *95° 46'*

Hole No *QR 98*

Commenced *16.8.76*

Completed *23.8.76*

% Recovery *93.6%*

Grid bearing (M) *8° 45'*

Date *25.3.76*

Objective *To test for Plena 7700N 513RL*

Core size *HQ. TO 24m, NQ TO 154m, BQ TO COMPLETION.*

Logged *CH. YOUNG*

Co-ordinates *7704.49N 5051.53E Dip 58° 20'*

Alt./R.L. *698.7m*

SURVEY DATA				GRAPH DERIVED DATA			CALCULATED CO-ORDINATES			REMARKS
DEPTH	DIP	BEARING(M)	INSTRUMENT TYPE	DEPTH	DIP	BEARING(M)	NORTHING	EASTING	ALTITUDE	
0	58.5	097°	THEODOLITE AND BRUNTON	0	58.3	95.8	7704.49	5051.53	698.70	<i>Hole abandoned at 187.8m Due to required deflection not being achieved - Re drilled from Wedge cut at</i>
0	58° 20'	95° 46'	SUBSEQUENT PICK UP	25	58.0	96.0	7705.15	5064.70	677.46	
5	58.5	-	OLD CASTMAN	50	57.5	96.0	7705.79	5078.03	656.32	
20	58	104°	"	75	57.0	96.0	7706.44	5091.53	635.29	
49	57.5	104°	"	100	56.5	95.8	7707.13	5105.22	614.39	
73	57	104°	"	125	56.3	96.0	7707.82	5119.05	593.57	
94	56.5	103.5°	"	150	56.0	96.3	7708.46	5132.97	572.81	
115	56.25	104°	"	175	56.0	96.0	7709.10	5146.94	552.09	
136	56	103.5°	"	187.8	56.0	95.5	7709.48	5144.08	541.47	
154	56	104.5°	"							
171	56	104	"							
188	56	103	"							



DIAMOND DRILL LOG

Hole No QR 98 Page No 1

Feature : Bedding Shearing
 Foliation Fault
 Fragment-size & shape Vein c carbonate
 q quartz

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

CORE REC'D	DEPTH m	GEOLOGY	VISUAL LOG	TRACE	COMMON	ABUNDANT	MASSIVE	DEPTH m	MINERALIZATION
	5								
HQ	6.1	PyP. Grey carbonated and sericitized <u>lithic tuff-agglomerate/agglomerate.</u> Lithic fragments are irregular in outline from 0.5 mm to 15 cm						6.1	Pyrite 38-57% disseminations, aggr. to and irregular fracture filling veins of fine subhedral to subdual crystals.
	9.3	Fault zone. Pyg. sheared and broken core possibly to 2m. - These are lengths of core of uniform feldspar crystal tuff-loam interpreted here to be fragments. Feldspar is altered to pale green sericite. The matrix is grey fine grained and "oaky".							
	15	Fragments show typical "cush" outlines. The larger fragments are often fractured. Feldspar crystals may be present within the matrix.							
	20								
	2.2								
HQ NQ	1.5								

SHEARED
BROKEN
BROKEN
CORE



DIAMOND DRILL LOG

Hole No **PK 98**

Page No **2**

Feature : Bedding Shearing
 Foliation Fault
 Fragment - size & shape Vein carbonate
 quartz

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

CORE REC'D	DEPTH m	GEOLOGY	VISUAL LOG	TRACE	COMMON	ABUNDANT	MASSIVE	DEPTH m	MINERALIZATION
		<i>P₁ as above</i>							<i>Pyrite 3% - 5% as above.</i>
2-1		<i>Grey carbonated locally silicified tuff agglomerate/agglomerate as above.</i>							
3-1	30	<i>Below 31.7m the rock is unbroken - largely to secondary carbonate alteration.</i>							
0-8									
3-0	35	<i>32.7 - 34.9. Large fragment of folded craggy tuff - lower illuminating flow layering</i>							
3-0	40	<i>Crude fragment alignment or foliation at 25° - 30° to P.A.</i>							
3-0	45								
3-0	50								



DIAMOND DRILL LOG

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CORE REC'D	DEPTH m	GEOLOGY	VISUAL LOG	TRACE	COMMON	ABUNDANT	MASSIVE	DEPTH m	MINERALIZATION
		Py P. Grey carbonated and cemented lithic tuff - agglomerate / agglomerate.							Pyrite 3% - 5% as above
	2.5	This unit includes fragments to 1.5m of pyritized tuff feldspar crystalline tuff - lava							
	0.2	Locally sheared 30° - 40° to C.A.							
	1.4								
	1.8	Bedding? 35° to Core axis.							
	58.7	<u>Fault zone</u> Peg, breccia, sheared and broken core. 50° C.A.							
	0.7								
	59.7								
	60								
	1.8								
	3.0							63.0	5cm Py 30. Vein 20° C.A.
		64.5 - 67.3. Sericite alteration is predominant.						64.5	Pyrite 10% locally 20% (where indicated) as disseminations, aggregates and irregular veins.
	1.5								
	3.1								
	70	Foliation, bedding? 30° C.A.							
	3.3							70.3	Pyrite 3% - 5% as above.
	1.2								
	73.5	<u>FAULT CONTACT</u>							
		Blue grey carbonated and cemented coarse lithic tuff / tuff agglomerate. (Possibly rounded tuff)						73.5	Pyrite 5%. 30% where indicated. Euhedral crystals to 4mm
	3.0								



DIAMOND DRILL LOG

Hole No **OK 93**

Page No **4**

Feature :

- Bedding
- Foliation
- Fragment-size & shape

- Shearing
 - Fault
 - Vein
- c carbonate
q quartz

Mineralization :

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

CORE REC'D	DEPTH m	GEOLOGY	VISUAL LOG	TRACE	COMMON	ABUNDANT	MASSIVE	DEPTH m	MINERALIZATION
									None been noted.
	3.0	Lithic fragments from 0.5 mm to 5 cm (occasionally) are generally sub-rounded to rounded in outline. Mineral fragment types include buff feldspar conglomerate tuff, grey tuff, grey microcrystalline chert, sericitized tonalite?						78.2	Interpretated N lens position Pyrite 10% locally 30% (where indicated) Sphalerite 3% locally 5% Galena 1% - 2% in a carbonate - breccia, 10% zone.
	3.0	The matrix is grey in colour fine grained and siliceous.						81.4	Pyrite 10% as disseminations and aggregates. Locally 30% as veins. Trace Sph, Cu.
	1.4	There is a poorly developed foliation at 30° to C.A.							
	3.1	Pyrite has been noted as fragments.							
	3.1	Below 88.0 m the fragment size increases, locally 5 cm. The rock is a lithic tuff agglomerate.						87.00	Pyrite 5% - 7% as above
	0.8								
	3.1	Fault zone. Matrix fine, carbonate cemented breccia, sericite. 20° - 30° C.A.						91.4	Pyrite 10% locally 15% in a breccia, carbonate gangue.
	3.1							92.6	
	3.1							95	
	3.1	Blue grey carbonated sericitized lithic tuff. as above.						96.1	Pyrite 5% - 7% as above, Trace Sph, Cu as aggregates.
	3.1	Change 30° C.A.						97.2	10 cm Pyrite 50% in vein.
	100							99.5	5 cm vein Py 30% Sph 20% Cu 5% Cr. 3%



DIAMOND DRILL LOG

Hole No QR 98 Page No 8

Feature : Bedding Shearing
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 Fragment - size & shape Vein q quartz

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 Abundant 15-60%
 Massive >60%

CORE REC'D	DEPTH m	GEOLOGY	VISUAL LOG	TRACE	COMMON	ABUNDANT	MASSIVE	DEPTH m	MINERALIZATION
		taff. lava as above.							Pyrite $\leq 1\%$ as above
	176.8							176.8	Pyrite 1% as above
3.0	177.9	Buff-grey carbonated lithic tuff - agglomerate as above. CONTACT BEDDED? 30° CA. GRADATIONAL CONTACT						177.9	Pyrite 3% as disseminations, aggregates and irregular veins, and occasional fragments.
	180	$P_1 P_2$ Grey - locally sheared carbonated and sericitized lithic tuff-agglomerate. Lithic fragments are irregular to sub-rounded in outline from 0.5cm to 5cm. Occasionally with shredded outlines similar $P_1 P_2$ types. Its matrix is light grey in color - siliceous and oily in appearance. Crude fragment alignment 20° CA.							
3.0	185								
1.5	186.35	Fault zone Pug, breccia and quartz carbonate veining 40° CA.							
1.5	187.40							187.4	Pyrite 5% .
	187.8	EOH. Sheared grey tuff as above. Hole abandoned at 187.8 m. No lift could be induced using 5 ft core barrel and BQ step Bit. Wedge set at 150.2 m in NQ casing. New hole drilled as QR 98W.							

QR 98 EASTMAN SINGLE SHOT DOWNHOLE CORRECTION SURVEY

QR 98A

COMMENCED: 14-8-76 & 16-8-76

COMPLETED: 23-8-76

DEPTH OF WELL: 187.80 m

