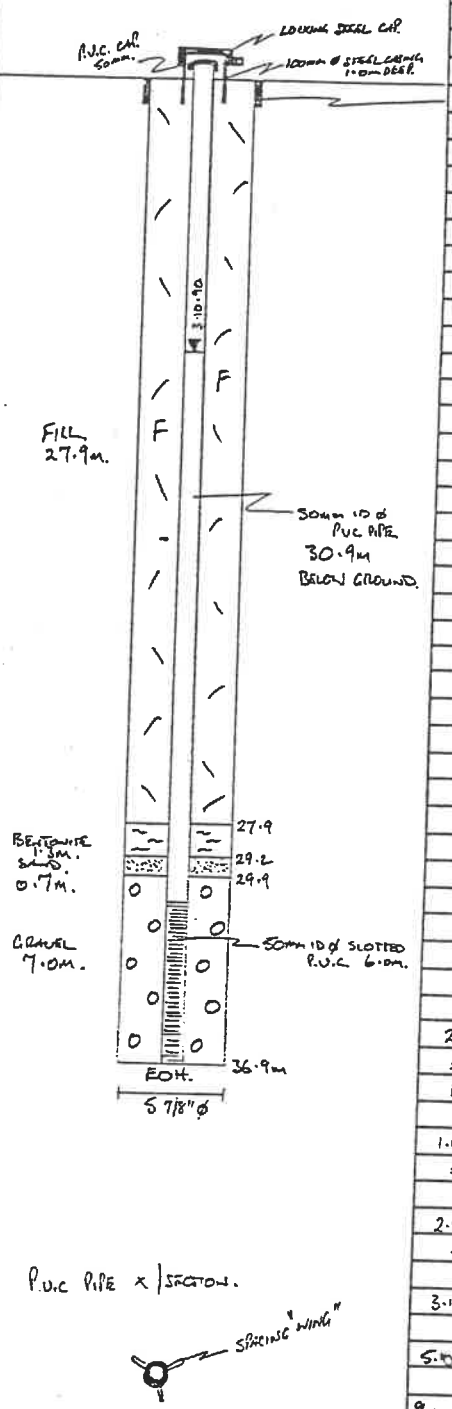
LOCAL GRID	HOLE No. : G.W. 4		JOB NO. :
	CO ORDINATES : E. 68609.33	N 15943.45	RL : 443.61
	LOCATION : GOLDEN POINT RD.		

drilling method	penetration	water	graphic log	scale (m)	Geological Log	Borehole Construction Details	bailing yield and additional observations
REVERSE CIRCULATION PERCUSSION DRILLING USING A 5 7/8" HAMMER BIT.			LOESS + SPa? VOX.	0	0-2 - HIGHLY IRON STAINED, BLEACHED SPa? SCHIST. MODERATELY FOLIATED + 20% TOPSOIL.		TEMPORARY STEEL CASING 150mm ø
					2-5 - AS ABOVE - NO TOPSOIL. LIGHT TAN.		
			Q VN.	5	5.0 - Q VEIN INCLUDING CRYSTALS, STRONG Fe STAINING - Q = 30% - TAN.		
			MOX SPa. ↓ SOX SPa.		6.0 - LOW Fe STAINING, MODERATELY FOLIATED SPa? LIGHT GREEN.		
					7.0 - 20% VEIN?/LENS QUARTZ + 80% MOD. FRESH SPa? SCHIST.		
				10	8-15. - MOD. Fe STAINED SPa? LT GREEN.		
				15	15-16 WEAKLY Fe STAINED SPa. LT GREEN.	FILL 27.9m.	
			Q VN/SHEAR		16-17 MOD Fe STAINING. LIGHT TAN.		
			SHEAR?		17-17.5 HIGH Fe " MOD FOLIATION. TAN. SPa + 5% Q		
				20	17.5-19 WEAKLY Fe STAINED SPa. LT GREEN.		
					19-19.2 STRONG " " (SHEAR)? TAN.		
			Q VN/LEN?		19.2-22.5 WEAK Fe STAINING IN SPa. LT GRN		
					22.5 AS ABOVE + 20% Q (OPAQUE, SEMI FRESH) LIGHT TAN.		
			BOX.	25	22.5-25 + FeSt SPa? LIGHT GRN.		
			Pa? FRESH MASSIVE.		25-26 TAN LAYERS (SHEARS)? (LIGHT GRN) 15% Fe STAINED Q + ↑ FeSt SPa? (TO DK. TAN)		
					½ HOUR WAIT PRODUCED MINOR H2O IN BOTTOM OF HOLE		
				30	26-36.9 FRESHER → FRESH Pa?? MORE MASSIVE, FINER GRAINED, LARGER CHIPS DARK GRN CHIPS. MOD FOLIATION. GREEN. LOW FOLIATION. KHAKI	BENTONITE 1.3m. SAND 0.7m.	29.9.90 G.W.L. = 18.1m BELOW SURFACE
				35		GRAVEL 7.0m.	1.10.90 G.W.L. = 10.55m
				36.9			2.10.90 G.W.L. = 10.30m.
					SPa = SEMI-PSAMMITE - SEE MACRAE'S LEGEND		
					Pa = PSAMMITE - " " "		
					VOX = VERY OXIDISED		3.10.90 GWL = 10.30m
					MOX = MOD "		
					SOX = SLIGHTLY "		5.10.90 GWL = 10.2m
					BOX = BASE OF OXIDATION.		9.10.90 GWL = 10.2m



DRILL TYPE SCHRAMM RC PERCUSSION.
FEED .....
DRILLER McMILLAN WATER WELLS LTD.
COMMENCED 9.00 AM 29.9.90
COMPLETED 12.50 AM 29.9.90
LOGGED BY M. WESTON
CHECKED BY .....
VERTICAL SCALE .....

KEY

penetration
no resistance ranging to refusal

water
10.01.80 water level and date
water inflow
water outflow

CLIENT :
MACRAE'S MINING LTD.
3RD PALMERSTON
OTAGO.

PROJECT :
GROUNDWATER / PEZOMETER MONITORING WELLS.

GCNZ Consultants
Water and Environmental Engineers and Geoscientists.

GROUNDWATER INVESTIGATION
LOG OF BORE GW4

DATE : 2.10.90
DRAWING NO. :
FIGURE NO. :