

WATER WELL BORE LOG

Well Owner Ivan Sutherland
 Address Dog Point Rd.
 Drilling Method Rotary D.T.H.H Tubex
 Driller Shane Hogan/Rex Garton.
 Drilling Date 29/10/99

FILE/REF: <u>98C - CHCH</u>	
DOCUMENT: <u>177477</u>	
15 NOV 1999	
Map Sheet No.	
Locality	
Grid Reference	



Fairhall, Blenheim.
 2581022.94
 5963590.78 GPS.
P28w/31.59

NZGS Well No

Land Use Consent No*

Depth from Surface (m)	Strata Description	Details of Aquifers		
		Depth of Surface (m)		Static Water Level (m)
Top		Top	Bottom	
0	Top soil dry brown.			
0.3	Dry sandy gravels course and poorly sorted.			
0.9	Damp brown lewis clay and course cobbles.			
4.1	Wet silty course sandy gravels.			
10	Greyish olive clay slightly plastic. firm drilling.			
11.1	Wet silty course sandy gravels poorly sorted and subangular and subrounded small stones.			
11.9	Heavily brown clay bound gravels subrounded and subangular.			
32.7	Water bearing yellow puggy clay bound gravels. Subangular and subrounded fine sandy gravels and cobbles. sandstone and brown reddish stones.			
34.3	Water bearing silty brownish yellow fine sandy gravels poorly sorted cobbles 2"-3" yielding very little water. Tight and firm to drill.			
36.8	Water bearing course sandy gravels. a hint of yellowish clay. Poorly sorted cobbles 3"-4" subrounded and subangular water quality and yield improving.			
41.6	Gravels as at 36.8. Airlift pump test 80 L.P.M. Past drill bit.			
53.5	Gravels as at 36.8. Airlift pump test 2114 G.P.M.			
75	Brownish clay bound gravels. moist and slightly plastic.			
76.6	Water bearing course sandy gravels bound in brownish clay. Large cobbles moderately wheathered greenish lime coloured and brown stained white quartz. More grey stones and grey with white flecks. gravels generally brown stained. yield dropping.			
85	Gravels as at 76.6 bound in brown clay. very little yield.			
87.2	Gravels as at 76.6 yield increasing, less clay.			
91.8	Yield decreasing to very little. clay content increasing.			
101.2	Blue grey clay and blue grey stones. Very small percentage of brown stone, some white quartz, slightly plastic. Clay dissolves moderately when washed with water. Medium to course sand. Yielding very little water.			
102.6	Blue papa clay. slightly plastic hard drilling. high rotation speed. slow penetration.			
107.5	Drilling stopped.			

Casing Diameter (cm)	<u>150mm (6") 7.1mm wall</u>	Screen Length (m)*	<u>6m with bottom welded in</u>
Well Depth	<u>75.18m</u>	Slot Size	<u>2mm</u>
Final Water Level**	<u>7.6m</u>	Leader & Diameter	<u>500mm x 125mm</u>
Screen Type	<u>Stainless steel Johnson Vwire.</u>	Set At	<u>75.180 - 68.880 top of leader</u>

Phone (03) 384 1255 - Fax (03) 384 1386 - eMail texco@ihug.co.nz - 61a Chapmans Rd, Christchurch 8002

Texco Crushing/Texco Remediation/Texco Quarry/Texco Drilling are associated companies of Townshend Excavating Ltd

Identified to Texco before work commences

well

P28w/3459

Ivan Sutherland
Test pump
2nd December, 1999



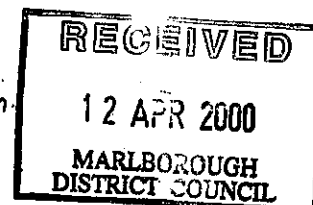
Static water level 7.2 M

11.5M D.D. 2.1L second d.c. Flow rate 2.11 L/s DD = 11.5m.

10M D.D. 2L second

5M D.D. 1.5L second

Pumping time approx.
1 day.
orifice weir.



Recovery times from 11.5M D.D. level

1M	6.5 sec
2M	9 sec
3M	15 sec
4M	34 sec
5M	49 sec
6M	1 min 13 sec
7M	1 min 40 sec
8M	3 min 39 sec
9M	6 min 30 sec
10M	8 min

Recovery times from 10M D.D.

1M	6 sec
2M	9 sec
3M	15 sec
4M	35 sec
5M	50 sec

20 minutes to pull down to 11.5M D.D.