



VELOCITY DATA PTY LTD

WELL SURVEY CALCULATIONS Page 1

Company : PHOENIX OIL AND GAS N.L.
 Well : BALLANGICH #1
 Elevations : Datum : 100.0 Ground : 98.3 Kelly : 103.5
 Shot data : Location Elevation Offset
 A 92.9 10.0
 B 92.9 20.0
 C 92.9 29.0
 D 92.8 33.1

Latitude : 038 14 12
 Longitude : 142 38 28

Survey date : 27 JUL 87
 Survey units : METRES
 Times in milliseconds.

Rig identification :
 Energy source : AN-60
 Logger : GEARHART DDLO3
 Near surface velocity
 for shot statics: 710
 Instrument delay: 0.0 ms

SHOT CALCULATIONS

Shot No	Geophone depth		Shot Locn	Shot Depth	TIMES				Check shot interval		Velocities						
	Kelly	Datum			Record	Corr.	Avg.	Below datum	Distance	Time	Average	RMS	Interval				
DATUM													46.5	31.2	1490.4		
	3.5	0.0															
16	50.0	46.5	B	0.3	26.0	31.2	31.2	31.2	33.0	19.2	1490.4	1490.4	1718.7				
15	83.0	79.5	B	0.3	44.0	50.4	50.4	50.4	17.0	9.5	1577.4	1581.3	1789.5				
12	100.0	96.5	C	0.3	54.0	59.4											
13	100.0	96.5	B	0.3	54.0	60.7											
14	100.0	96.5	A	0.3	52.0	59.7	59.9	59.9			1611.0	1616.1	1835.7				
11	176.0	172.5	D	1.0	94.0	101.3	101.3	101.3	76.0	41.4	1702.9	1709.3	1819.0				
CLIFTON													191.0	105.0	1819.0		
10	367.0	363.5	D	1.0	198.0	206.3	206.3	206.3			1762.0	1766.0	2235.8				
EUMERALLA													110.0	49.2	2235.8		
9	477.0	473.5	D	1.0	247.0	255.5	255.5	255.5	170.0	75.2	1853.2	1865.7	2260.6				
8	647.0	643.5	D	1.0	322.0	330.7	330.7	330.7			1945.9	1962.5	2339.3				
HEATHFIELD SS													171.0	73.1	2339.3		
1	818.0	814.5	D	1.0	396.0	404.8											
7	818.0	814.5	D	1.0	394.0	402.8	403.8	403.8	166.0	62.6	2017.1	2035.9	2651.8				
17	984.0	980.5	D	1.0	457.5	466.4	466.4	466.4	166.0	62.0	2102.3	2128.9	2677.4				
PRETTY HILLS SS													166.0	62.0	2677.4		
2	1150.0	1146.5	D	1.0	520.0	528.9											
6	1150.0	1146.5	D	1.0	519.0	527.9	528.4	528.4			2169.8	2200.4					
CASTERTON BEDS(1201)													52.0	18.5	2810.8		
4	1202.0	1198.5	D	1.0	538.0	546.9	546.9	546.9	33.0	11.1	2191.4	2223.8	2973.0				
5	1235.0	1231.5	D	1.0	549.0	558.0	558.0	558.0			2207.0	2241.1					