



Company : Esso Australia Pty. Ltd.  
Well : Snapper A21-A

Page : 2 of 136  
File : E - 28005

## SUMMARY OF GAS PVT RESULTS

### SATURATED VAPOUR:

	Gas Zone @ 2764.5 m	Gas Zone @3036 m
Reservoir Temperature (°F)	253	266
Dew Point Pressure (psig)	6050	5800
Gas Formation Volume Factor (Bg)	0.00335	0.00335
Gas Expansion Factor (E)	298.07	298.43
Gas Deviation Factor (Z)	1.014	0.952
Specific Volume (CFT/LB)	0.04261	0.05370
Density (gm/cc)	0.3759	0.2983
Viscosity (centipoise)	0.0536	0.0380
Molecular Weight	30.20	23.70
Gas Gravity (Air = 1.000)	0.947	0.808
Gross Heating Value (BTU/ft3)	1364	952

## COMPOUND SPECIFIC ISOTOPE ANALYSIS (GC-IRMS)

COMPOUND:	Gas Zone @ 2764.5 m		Gas Zone @3036 m	
	$d^{13}C$	SD	$d^{13}C$	SD
methane (C1)	-35.06	0.1	-31.11	0.13
ethane (C2)	-29.12	0.3	-25.17	0.02
propane (C3)	-28.1	0.1	-23.69	0.21
i-butane (iC4)	-27.69	0.1	nd	nd
n-butane (nC4)	-27	0.1	-24.72	0.34
i-pentane (iC5)	-26.41	0.1	nd	nd
n-pentane (nC5)	-25.13	0.2	nd	nd
carbon dioxide (CO2)	-7.07	0.2	2.07	0.01