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Accreditation No 2013



## Interim Certificate of Analysis

Santos Limited  
GPO Box 2319  
ADELAIDE SA 5000  
Australia

**Attention:** Noel Dowdell

**Project** 08PEAD0018633  
**Client Ref:** 849485-101

Customer Sample ID	East Mereenie 40	East Mereenie 40
Sample Type	Gas and Oil	Gas and Oil
Date Sampled	16/06/2008	16/06/2008
Time Sampled	1400-1430h	1400-1430h
Pressure	4451 kPag	1357 kPag
Temperature	25°C	27°C
Cylinder ID	JPE 577 & JPE 728	JPE 747 & JPE 729
Test/Reference	Unit	

### Recombination of Separator Samples

Results Attached Attached

### GAS ANALYSIS

Test/Reference	Unit		
<b>Gas Analysis</b> ASTM D 1945-96 (modified)			
Nitrogen	Mol %	14.46	10.68
Carbon Dioxide	Mol %	0.14	0.01
Methane	Mol %	69.30	67.74
Ethane	Mol %	9.72	12.42
Propane	Mol %	3.59	5.12
I-Butane	Mol %	0.47	0.62
N-Butane	Mol %	1.16	1.60
I-Pentane	Mol %	0.34	0.47
N-Pentane	Mol %	0.36	0.55
Hexanes	Mol %	0.24	0.47
Heptanes	Mol %	0.09	0.20
Octanes and higher hydrocarbons	Mol %	0.13	0.12
Total	Mol %	100.00	100.00
<b>Gas Parameters</b> ASTM D 1945-96 (modified)			
Average Molecular Weight		21.63	22.62
Lower Flammability Limit		4.76	4.29
Upper Flammability Limit		16.45	15.40
Ratio Of Upper To Lower		3.46	3.59
Wobbe Index		46.13	50.13
Compressibility Factor (Z)		0.9973	0.9967
Ideal Gas Density (Rel to Air = 1)		0.747	0.781
Real Gas Density (Rel to Air = 1)		0.749	0.783
Ideal Nett Calorific Value	MJ/m <sup>3</sup>	36.15	40.24
Ideal Gross Calorific Value	MJ/m <sup>3</sup>	39.87	44.31
Real Nett Calorific Value	MJ/m <sup>3</sup>	36.24	40.38
Real Gross Calorific Value	MJ/m <sup>3</sup>	39.98	44.46
Gross Calorific Val Water-Sat Gas	MJ/m <sup>3</sup>	39.17	43.53

**Test Description****Gas Parameters**

The above results are calculated on an air and water free basis assuming only the measured constituents are present. The following parameters are calculated from the above composition at 15°C and 101.325 kPa (abs) using ISO 6976 and the physical constants from the GPSA SI Engineering Data Handbook 11 th Ed.

**Authorised By**

Michelle Fordham

Chemist

Accreditation No 2013

**Laboratory Manager**

Diane Cass

Operations Manager



Interim Report. A final report will be issued once all testing is complete

- Indicates Not Requested

\* Indicates NATA accreditation does not cover the performance of this service

Samples will be discarded after 30 days unless otherwise notified.

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*The samples were not collected by Amdel staff.*

**AMDEL PETROLEUM SERVICES**

Method GL-02-03

Client: SANTOS Ltd



The tests, calibrations or measurements covered by this document have been performed in accordance with NATA requirements which include the requirements of ISO/IEC17025 and are traceable to national standards of measurement. This document shall not be reproduced except in full.

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Sample: East Mereenie 40  
1364 kPag @ 20°C  
16/06/08, 1400-1430 h, Cyl# JPE728

Report # 08PEAD0018633

HP Gas Rate 7.28 x 1000 m3/D  
Stock Tank Oil Rate 3.54 m3/D

**COMPOSITIONAL ANALYSIS OF RECOMBINED RESERVOIR FLUID**

Component	Mol %	US Gallon/1000ft3
Nitrogen	13.57	-----
Carbon Dioxide	0.13	-----
Methane	65.14	-----
Ethane	9.28	2.47
Propane	3.62	0.99
I-Butane	0.52	0.17
N-Butane	1.39	0.43
I-Pentane	0.51	0.18
N-Pentane	0.64	0.23
Hexanes	0.85	0.35
Heptanes	0.81	0.37
Octanes plus	3.55	2.58
<b>TOTAL</b>	<b>100.00</b>	<b>7.77</b>

**DERIVED DATA FROM FULL WELL STREAM COMPOSITION**

Molecular Weight		28.85
Gas Density (rel air = 1)		0.996
Molecular Weight C8+		188.1
Density C8+		0.8165
Wobbe Index	49.67	1334
Heating Value	Gross: 49.58 MJ/m3	1331 BTU/ft3
	Nett: 45.19 MJ/m3	1213 BTU/ft3
Critical Temperature Tc	226.5 °K	407.7 °R
Critical Pressure Pc	4317 kPa abs	626.1 psia
Gas Liquid Ratio C4-/C5+	1823 m3/m3	

**Sales Gas And Liquid Recovery**

Assuming Liquid Recovery of 75% C2, 95% C3, 100% C4+ and Sales Gas Content of 2.5% CO2

Gas Shrinkage		0.8329
Liquid Content of Raw Gas (US Bbl/MMSCF)	Ethane	44.0
	LPG	36.7
	Pentane +	88.4

All gas and liquid calculations group benzene and cyclohexane with the hexanes, methylcyclohexane with heptanes and toluene with the octanes plus component.

Approved Signatory \_\_\_\_\_

Accreditation No: 2013

23-Jul-08

Method GL-02-03

Client: SANTOS Ltd

Report # 08PEAD0018633

Sample: East Mereenie 40  
 1364 kPag @ 20°C  
 16/06/08, 1400-1430 h, Cyl# JPE728

**COMPOSITIONAL ANALYSIS OF RECOMBINED SEPARATOR FLUID**

Component	Flashed	Flashed	Recomb.
	Stock Tank Liquid Mol %	Stock Tank Gas Mol %	Sep. Liquid Mol %
Nitrogen	-----	3.90	0.35
Carbon Dioxide	-----	0.03	0.00
Methane	-----	34.78	3.15
Ethane	0.80	22.63	2.77
Propane	2.36	20.32	3.99
I-Butane	1.03	3.06	1.21
N-Butane	4.33	8.83	4.74
I-Pentane	3.06	2.37	3.00
N-Pentane	5.08	2.42	4.84
Hexanes	10.80	1.34	9.94
Heptanes	12.63	0.25	11.51
Octanes plus	59.91	0.07	54.49
TOTAL	100.00	100.00	100.00

**RATIOS**

Molar ratio	0.9095	0.0905	1.0000
Mass Ratio	0.9772	0.0228	1.0000
Gas Liquid Ratio	1.00 bbl @ SC	70.1 SCF	-----

**STREAM PROPERTIES**

Molecular Weight	146.4	34.3	136.3
Density obs(g/cc)	0.7753 @ 15°C	-----	-----
API-Gas Density	50.94 API @60°F	1.184 (air=1)	-----
GHV (BTU/scf)	-----	1929	-----

**OCTANE PLUS PROPERTIES**

Mol %	59.91	0.07	54.49
Molecular Weight	190.7	114.2	190.7
Density (g/cc)	0.8204 @ 15°C	-----	-----
API @ 60°F	40.91	-----	-----

**LABORATORY FLASH SEPARATION DETAILS**

Separation Temperature	20	°C
Flash Gas Volume	7.60	litres
Stabilised Liquid Volume	453	ml
Liquid Density	0.7711	g/ml

Method GL-02-03

Client: SANTOS Ltd

Report # 08PEAD0018633

Sample: East Mereenie 40  
 1364 kPag @ 20°C  
 16/06/08, 1400-1430 h, Cyl# JPE728

**COMPOSITIONAL ANALYSIS OF RECOMBINED RESERVOIR FLUID**

Component	Separator Liquid Mol %	Separator Gas Mol %	Recomb. Reservoir Fluid Mol %
Nitrogen	0.35	14.46	13.57
Carbon Dioxide	0.00	0.14	0.13
Methane	3.15	69.30	65.14
Ethane	2.77	9.72	9.28
Propane	3.99	3.59	3.62
I-Butane	1.21	0.47	0.52
N-Butane	4.74	1.16	1.39
I-Pentane	3.00	0.34	0.51
N-Pentane	4.84	0.36	0.64
Hexanes	9.94	0.24	0.85
Heptanes	11.51	0.09	0.81
Octanes plus	54.49	0.13	3.55
TOTAL	100.00	100.00	100.00

**RATIOS**

Molar ratio	0.0629	0.9371	1.0000
Mass Ratio	0.2973	0.7027	1.0000

**STREAM PROPERTIES**

Molecular Weight	136.3	21.6	28.9
Gas Density	-----	0.747 (air=1)	0.996
GHV (BTU/scf)	-----	1070	1331

**OCTANE PLUS PROPERTIES**

Mol %	54.49	0.13	3.55
Molecular Weight	190.7	114.2	188.1
Density (g/cc) @15°C	-----	-----	0.8165
API @ 60°F	-----	-----	41.73

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Client: SANTOS Ltd

Report # 08PEAD0018633

Sample: East Mereenie 40  
 1364 kPag @ 20°C  
 16/06/08, 1400-1430 h, Cyl# JPE728

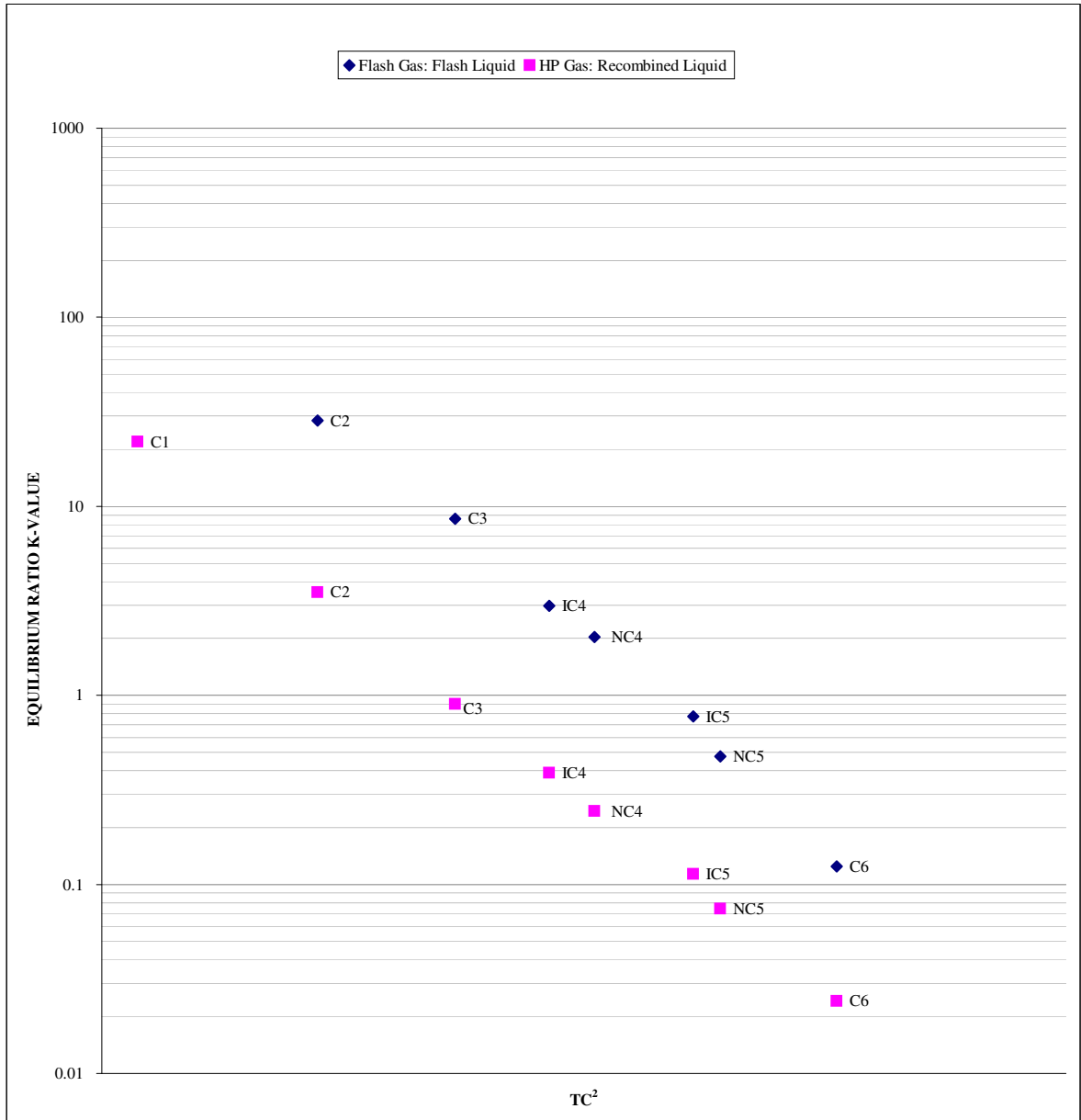
Boiling Point Range (Deg.C)	Component	Weight%	Mol%
-88.6	Ethane	0.16	0.80
-42.1	Propane	0.71	2.36
-11.7	I-Butane	0.41	1.03
-0.5	N-Butane	1.72	4.33
27.9	I-Pentane	1.51	3.06
36.1	N-Pentane	2.50	5.08
36.1-68.9	C-6	6.34	10.79
80.0	Benzene	0.00	0.01
68.9-98.3	C-7	7.53	11.00
100.9	Methylcyclohexane	1.09	1.63
110.6	Toluene	0.03	0.05
98.3-125.6	C-8	7.68	9.84
136.1-144.4	Ethylbenz+Xylenes	0.13	0.18
125.6-150.6	C-9	7.13	8.15
150.6-173.9	C-10	6.44	6.63
173.9-196.1	C-11	5.58	5.23
196.1-215.0	C-12	4.77	4.10
215.0-235.0	C-13	4.82	3.83
235.0-252.2	C-14	4.02	2.97
252.2-270.6	C-15	3.62	2.50
270.6-287.8	C-16	3.46	2.24
287.8-302.8	C-17	3.26	1.98
302.8-317.2	C-18	2.83	1.63
317.2-330.0	C-19	2.71	1.48
330.0-344.4	C-20	2.25	1.17
344.4-357.2	C-21	2.02	1.00
357.2-369.4	C-22	1.83	0.86
369.4-380.0	C-23	1.68	0.76
380.0-391.1	C-24	1.58	0.68
391.1-401.7	C-25	1.51	0.63
401.7-412.2	C-26	1.53	0.61
412.2-422.2	C-27	1.29	0.49
>422.2	C-28+	7.84	2.91
	Total	100.00	100.00
( 0.00 = LESS THAN 0.01% )			

The above boiling point ranges refer to the normal paraffin hydrocarbon boiling in that range. Aromatics, branched hydrocarbons, naphthenes and olefins may have higher or lower carbon numbers but are grouped and reported according to their boiling points.

## Oil Parameters:

Density of Oil @ 20.0 °C	0.7711	
Specific Gravity @ 15.6 °C	0.7756	
API Gravity	50.94	
Specific Gravity of C8+ fraction	0.8207	(calc)
Average molecular weight of C8+ fraction	191	

Sample: East Mereenie 40  
1364 kPag @ 20°C  
16/06/08, 1400-1430 h, Cyl# JPE728



Client: SANTOS Ltd

Report # 08PEAD0018633

Sample: East Mereenie 40  
1364 kPag @ 20°C  
16/06/08, 1400-1430 h, Cyl# JPE728

Full Well Stream

Separator Gas	0.257	MMSCF		
Stock Tank Oil Rate	22.280	BBLs		
			Av Mol Wt	
Flash Gas Moles	0.237		34.30	
Flash Liquid Moles	2.385		146.45	
Recombination Moles	2.622			
Molar Shrinkage Factor	0.910			
Full Well Stream	20625	Moles Liquid	6.29%	
Molar ratio	307143	Moles Gas	93.71%	

	Flash Gas Mol%	Flash Liquid Mol%	Recomb. Liquid Mol%	HP Gas Mol%	Full Well Stream Mol%
Nitrogen	3.90	-----	0.35	14.46	13.57
Carbon Dioxide	0.03	-----	0.00	0.14	0.13
Methane	34.78	-----	3.15	69.30	65.14
Ethane	22.63	0.80	2.77	9.72	9.28
Propane	20.32	2.36	3.99	3.59	3.62
I-Butane	3.06	1.03	1.21	0.47	0.52
N-Butane	8.83	4.33	4.74	1.16	1.39
I-Pentane	2.37	3.06	3.00	0.34	0.51
N-Pentane	2.42	5.08	4.84	0.36	0.64
Hexanes	1.34	10.80	9.95	0.24	0.85
Heptanes	0.25	12.63	11.51	0.09	0.81
Octanes plus	0.07	59.91	54.50	0.13	3.55
	100.00	100.00	100.00	100.00	100.00
Av.Mol.Weight	34.30	146.45	136.29	21.63	28.85
K Factors		Flash Gas/ Flash Liquid		HP Gas/ Recombined Liquid	
		Ratio		Ratio	
C1		-----		22.00	
C2		28.45		3.51	
C3		8.60		0.90	
IC4		2.97		0.39	
NC4		2.04		0.24	
IC5		0.77		0.11	
NC5		0.48		0.07	
C6		0.12		0.02	
C7		0.02		0.01	



**AMDEL PETROLEUM SERVICES**

Method GL-02-03

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Sample: East Mereenie 40  
1123 kPag @ 30°C  
16/06/08, 1400-1430 h, Cyl# JPE729

Report # 08PEAD0018633

HP Gas Rate 5.32 x 1000 m3/D  
Stock Tank Oil Rate 3.54 m3/D

**COMPOSITIONAL ANALYSIS OF RECOMBINED RESERVOIR FLUID**

Component	Mol %	US Gallon/1000ft3
Nitrogen	9.76	-----
Carbon Dioxide	0.01	-----
Methane	62.20	-----
Ethane	11.60	3.08
Propane	5.05	1.38
I-Butane	0.68	0.22
N-Butane	1.92	0.60
I-Pentane	0.72	0.26
N-Pentane	0.98	0.35
Hexanes	1.36	0.55
Heptanes	1.21	0.55
Octanes plus	4.52	3.26
<b>TOTAL</b>	<b>100.00</b>	<b>10.27</b>

**DERIVED DATA FROM FULL WELL STREAM COMPOSITION**

Molecular Weight		32.08
Gas Density (rel air = 1)		1.107
Molecular Weight C8+		188.6
Density C8+		0.8236
Wobbe Index	54.17	1454
Heating Value	Gross: 57.00 MJ/m3	1530 BTU/ft3
	Nett: 52.07 MJ/m3	1398 BTU/ft3
Critical Temperature Tc	244.1 °K	439.4 °R
Critical Pressure Pc	4313 kPa abs	625.6 psia
Gas Liquid Ratio C4-/C5+	1319 m3/m3	

**Sales Gas And Liquid Recovery**

Assuming Liquid Recovery of 75% C2, 95% C3, 100% C4+ and Sales Gas Content of 2.5% CO2

Gas Shrinkage		0.7703
Liquid Content of Raw Gas (US Bbl/MMSCF)	Ethane	55.0
	LPG	50.9
	Pentane +	118.7

All gas and liquid calculations group benzene and cyclohexane with the hexanes, methylcyclohexane with heptanes and toluene with the octanes plus component.

Approved Signatory \_\_\_\_\_

Accreditation No: 2013

23-Jul-08

Method GL-02-03

Client: SANTOS Ltd

Report # 08PEAD0018633

Sample: East Mereenie 40  
 1123 kPag @ 30°C  
 16/06/08, 1400-1430 h, Cyl# JPE729

**COMPOSITIONAL ANALYSIS OF RECOMBINED SEPARATOR FLUID**

Component	Flashed	Flashed	Recomb.
	Stock Tank Liquid Mol %	Stock Tank Gas Mol %	Sep. Liquid Mol %
Nitrogen	-----	2.51	0.31
Carbon Dioxide	-----	0.02	0.00
Methane	-----	44.72	5.47
Ethane	0.65	21.51	3.20
Propane	2.65	16.78	4.38
I-Butane	1.15	2.42	1.31
N-Butane	4.99	6.84	5.22
I-Pentane	3.42	1.83	3.23
N-Pentane	5.90	1.91	5.41
Hexanes	11.72	1.10	10.42
Heptanes	13.07	0.26	11.51
Octanes plus	56.44	0.10	49.55
TOTAL	100.00	100.00	100.00

**RATIOS**

Molar ratio	0.8777	0.1223	1.0000
Mass Ratio	0.9704	0.0296	1.0000
Gas Liquid Ratio	1.00 bbl @ SC	100.9 SCF	-----

**STREAM PROPERTIES**

Molecular Weight	142.3	31.2	128.7
Density obs(g/cc)	0.7744 @ 15°C	-----	-----
API-Gas Density	51.15 API @60°F	1.076 (air=1)	-----
GHV (BTU/scf)	-----	1783	-----

**OCTANE PLUS PROPERTIES**

Mol %	56.44	0.10	49.55
Molecular Weight	190.5	114.2	190.5
Density (g/cc)	0.8265 @ 15°C	-----	-----
API @ 60°F	39.64	-----	-----

**LABORATORY FLASH SEPARATION DETAILS**

Separation Temperature	20	°C
Flash Gas Volume	6.40	litres
Stabilised Liquid Volume	265	ml
Liquid Density	0.7714	g/ml

Method GL-02-03

Client: SANTOS Ltd

Report # 08PEAD0018633

Sample: East Mereenie 40  
 1123 kPag @ 30°C  
 16/06/08, 1400-1430 h, Cyl# JPE729

**COMPOSITIONAL ANALYSIS OF RECOMBINED RESERVOIR FLUID**

Component	Separator Liquid Mol %	Separator Gas Mol %	Recomb. Reservoir Fluid Mol %
Nitrogen	0.31	10.68	9.76
Carbon Dioxide	0.00	0.01	0.01
Methane	5.47	67.74	62.20
Ethane	3.20	12.42	11.60
Propane	4.38	5.12	5.05
I-Butane	1.31	0.62	0.68
N-Butane	5.22	1.60	1.92
I-Pentane	3.23	0.47	0.72
N-Pentane	5.41	0.55	0.98
Hexanes	10.42	0.47	1.36
Heptanes	11.51	0.20	1.21
Octanes plus	49.55	0.12	4.52
TOTAL	100.00	100.00	100.00

**RATIOS**

Molar ratio	0.0891	0.9109	1.0000
Mass Ratio	0.3574	0.6426	1.0000

**STREAM PROPERTIES**

Molecular Weight	128.7	22.6	32.1
Gas Density	-----	0.781 (air=1)	1.107
GHV (BTU/scf)	-----	1190	1530

**OCTANE PLUS PROPERTIES**

Mol %	49.55	0.12	4.52
Molecular Weight	190.5	114.2	188.6
Density (g/cc) @15°C	-----	-----	0.8236
API @ 60°F	-----	-----	40.24

Method GL-02-03

Client: SANTOS Ltd

Report # 08PEAD0018633

Sample: East Mereenie 40  
 1123 kPag @ 30°C  
 16/06/08, 1400-1430 h, Cyl# JPE729

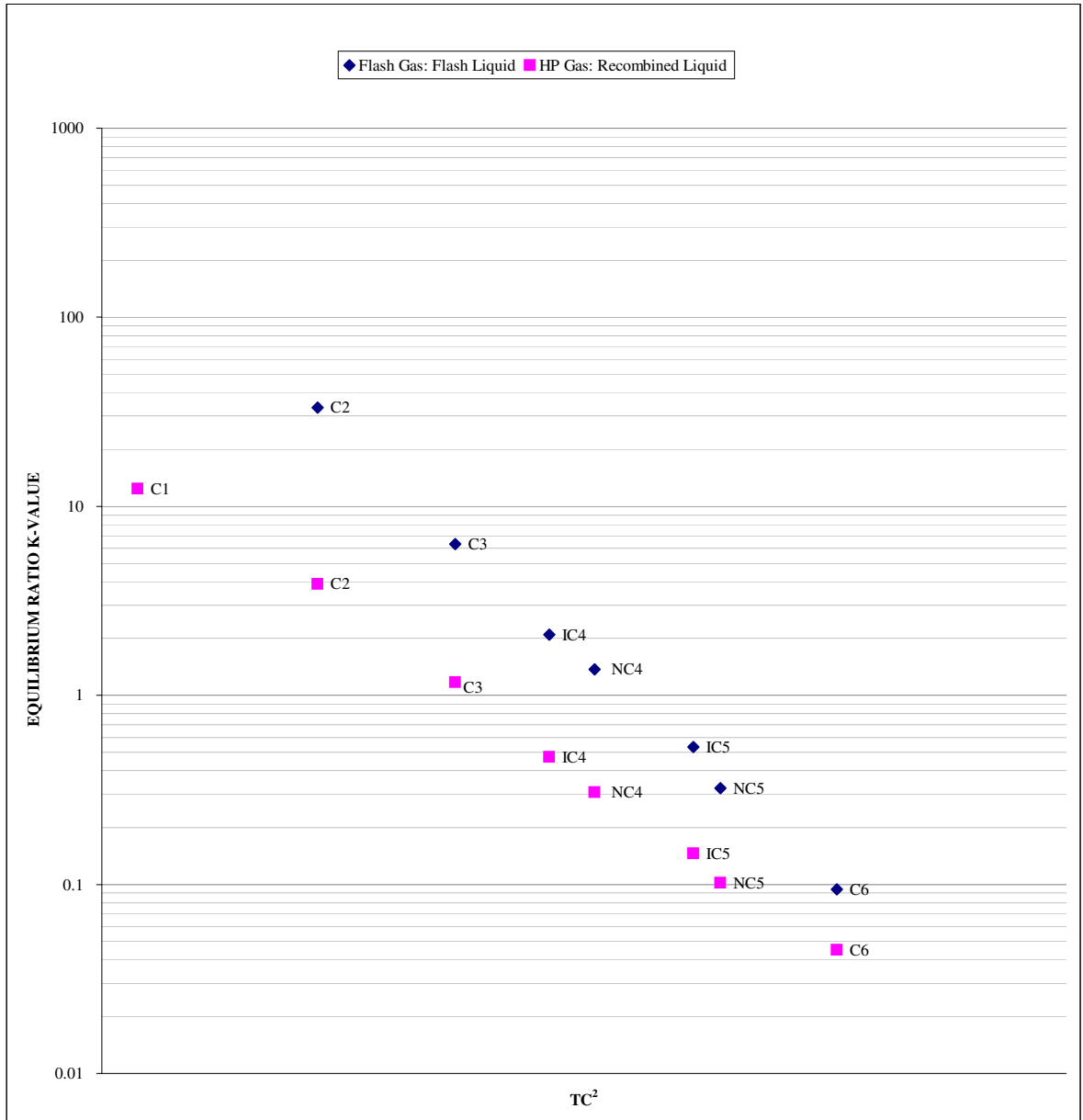
Boiling Point Range (Deg.C)	Component	Weight%	Mol%
-88.6	Ethane	0.14	0.65
-42.1	Propane	0.82	2.65
-11.7	I-Butane	0.47	1.15
-0.5	N-Butane	2.04	4.99
27.9	I-Pentane	1.74	3.42
36.1	N-Pentane	2.99	5.90
36.1-68.9	C-6	7.08	11.71
80.0	Benzene	0.00	0.01
68.9-98.3	C-7	7.95	11.30
100.9	Methylcyclohexane	1.22	1.77
110.6	Toluene	0.02	0.03
98.3-125.6	C-8	7.65	9.54
136.1-144.4	Ethylbenz+Xylenes	0.14	0.18
125.6-150.6	C-9	6.89	7.64
150.6-173.9	C-10	6.13	6.13
173.9-196.1	C-11	5.42	4.93
196.1-215.0	C-12	4.62	3.86
215.0-235.0	C-13	4.61	3.56
235.0-252.2	C-14	3.92	2.81
252.2-270.6	C-15	3.54	2.37
270.6-287.8	C-16	3.27	2.06
287.8-302.8	C-17	3.17	1.88
302.8-317.2	C-18	2.68	1.50
317.2-330.0	C-19	2.57	1.36
330.0-344.4	C-20	2.17	1.09
344.4-357.2	C-21	1.90	0.91
357.2-369.4	C-22	1.74	0.80
369.4-380.0	C-23	1.66	0.73
380.0-391.1	C-24	1.52	0.64
391.1-401.7	C-25	1.46	0.59
401.7-412.2	C-26	1.41	0.55
412.2-422.2	C-27	1.35	0.50
>422.2	C-28+	7.72	2.78
	Total	100.00	100.00
	( 0.00 = LESS THAN 0.01% )		

The above boiling point ranges refer to the normal paraffin hydrocarbon boiling in that range. Aromatics, branched hydrocarbons, naphthenes and olefins may have higher or lower carbon numbers but are grouped and reported according to their boiling points.

## Oil Parameters:

Density of Oil @ 19.5 °C	0.7714	
Specific Gravity @ 15.6 °C	0.7747	
API Gravity	51.15	
Specific Gravity of C8+ fraction	0.8268	(calc)
Average molecular weight of C8+ fraction	191	

Sample: East Mereenie 40  
1123 kPag @ 30°C  
16/06/08, 1400-1430 h, Cyl# JPE729



Client: SANTOS Ltd

Report # 08PEAD0018633

Sample: East Mereenie 40  
1123 kPag @ 30°C  
16/06/08, 1400-1430 h, Cyl# JPE729

Full Well Stream

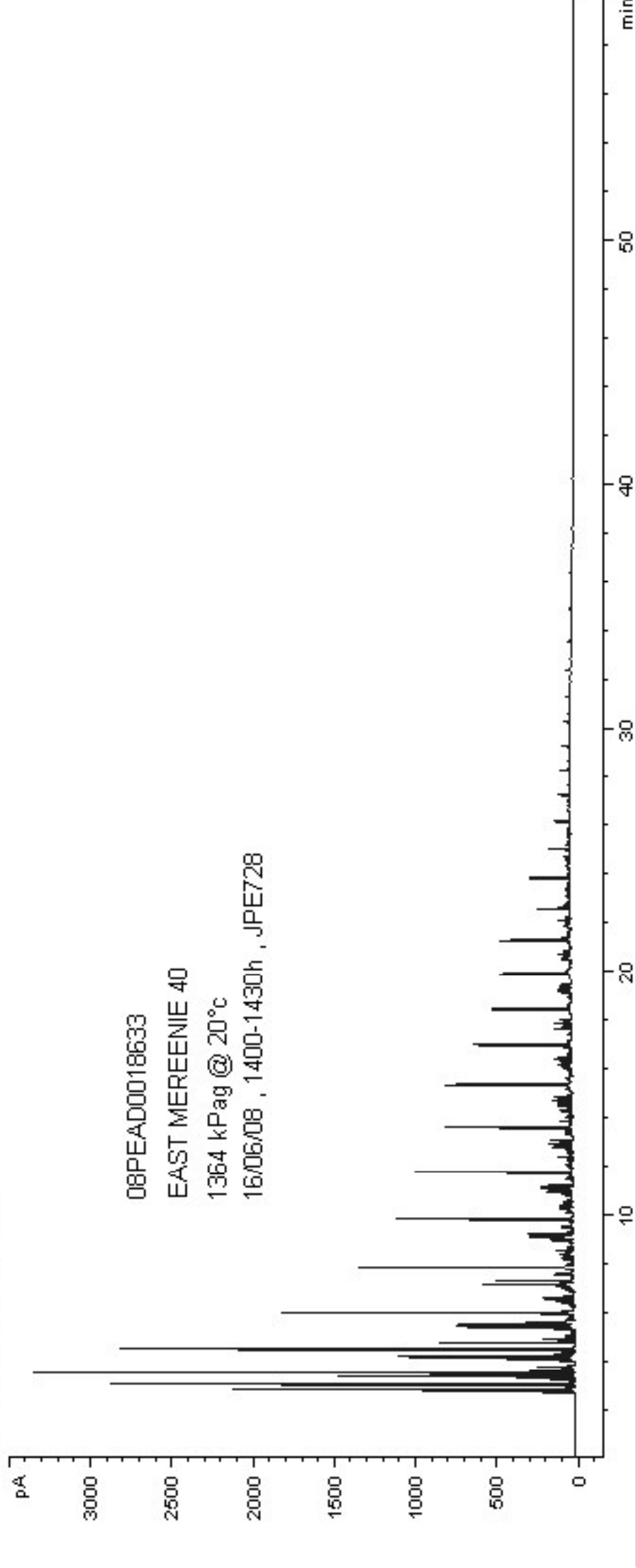
Separator Gas	0.188	MMSCF	
Stock Tank Oil Rate	22.280	BBLs	
			Av Mol Wt
Flash Gas Moles	0.200		31.16
Flash Liquid Moles	1.436		142.35
Recombination Moles	1.636		
Molar Shrinkage Factor	0.878		
Full Well Stream	21964	Moles Liquid	8.91%
Molar ratio	224680	Moles Gas	91.09%

	Flash Gas Mol%	Flash Liquid Mol%	Recomb. Liquid Mol%	HP Gas Mol%	Full Well Stream Mol%
Nitrogen	2.51	-----	0.31	10.68	9.76
Carbon Dioxide	0.02	-----	0.00	0.01	0.01
Methane	44.72	-----	5.47	67.74	62.20
Ethane	21.51	0.65	3.20	12.42	11.60
Propane	16.78	2.65	4.38	5.12	5.05
I-Butane	2.42	1.15	1.31	0.62	0.68
N-Butane	6.84	4.99	5.22	1.60	1.92
I-Pentane	1.83	3.42	3.23	0.47	0.72
N-Pentane	1.91	5.90	5.41	0.55	0.98
Hexanes	1.10	11.72	10.41	0.47	1.36
Heptanes	0.26	13.07	11.51	0.20	1.21
Octanes plus	0.10	56.44	49.55	0.12	4.52
	100.00	100.00	100.00	100.00	100.00

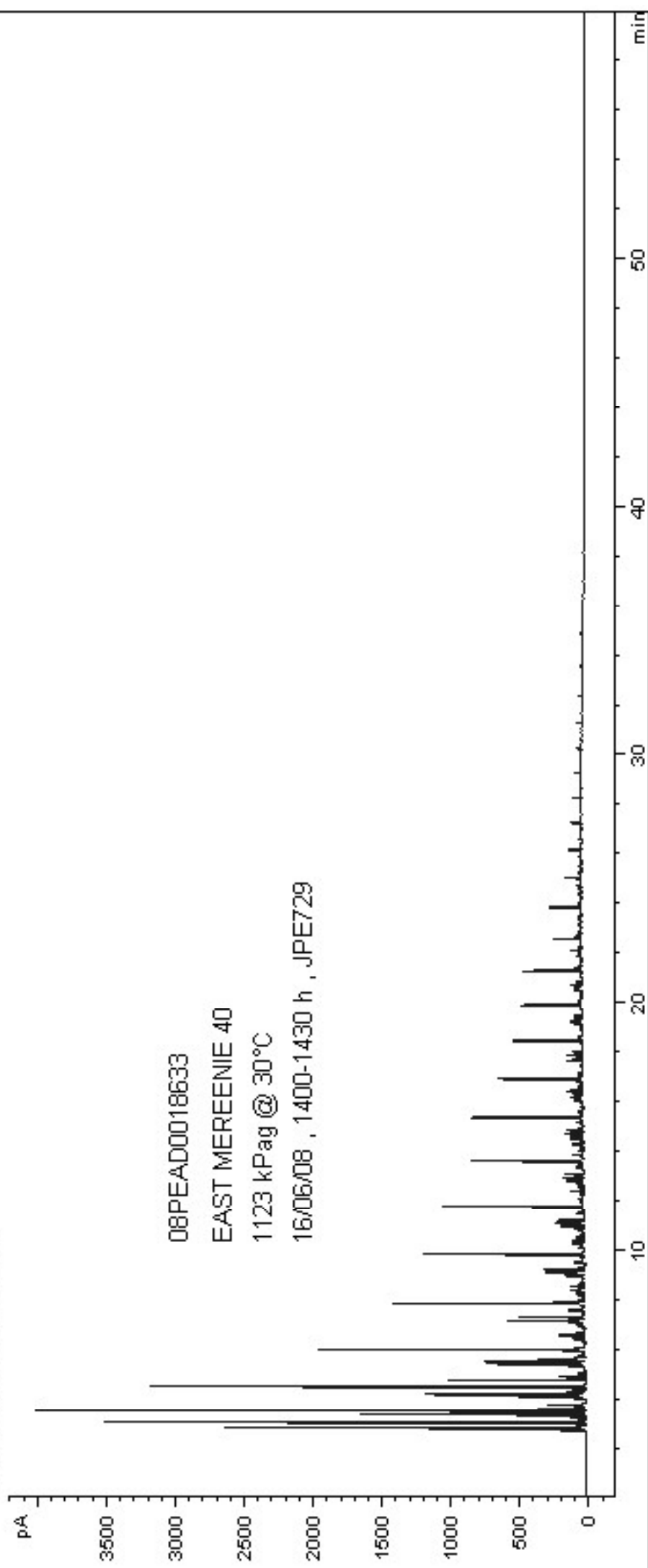
Av.Mol.Weight	31.16	142.35	128.74	22.62	32.08
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K Factors	Flash Gas/ Flash Liquid Ratio	HP Gas/ Recombined Liquid Ratio
C1	-----	12.38
C2	33.22	3.88
C3	6.33	1.17
IC4	2.10	0.47
NC4	1.37	0.31
IC5	0.53	0.15
NC5	0.32	0.10
C6	0.09	0.05
C7	0.02	0.02

FID1 A, (08JULY18633FLO.D)



FID1 A, (08JULY18633FL1.D)







**NATIONAL HYDRO TESTING SERVICES**  
 1 ELLEMSEA CCT. LONSDALE SA 5160  
 PH 8326 7755 MOBILE 0418 804 144

REGISTERED MARK  
 REF JPE 577

Date of Test: <u>8/08</u>
Previous Test Date:
Reference Temperature: <u>14</u>
Service: <u>I</u>


TESTED IN COMPLIANCE WITH AS2030.1	<b>CERTIFICATE OF TEST</b>	<b>29432</b>	S.A.A. APPROVED TEST STATION No.: 308A
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Client: AMDEL Serial No.: AA0285

Specification No.: DOT 3E 1800

Water Capacity: .5L Test Pressure: 2925 PSI Working Pressure: 1800 PSI

Condition: External <u>Good</u>	Condition: Internal <u>Good</u>	HYDROSTATIC/VISUAL TEST RESULT: <u>Passed</u>	WEIGHT TEST: Passed
Average	Average	Recommendation or Remarks:	
Poor	Poor		

Approved Signatory: 



**NATIONAL HYDRO TESTING SERVICES**  
 1 ELLEMSEA CCT. LONSDALE SA 5160  
 PH 8326 7755 MOBILE 0418 804 144

REGISTERED MARK  
 REF JPE 729

Date of Test: <u>8/08</u>
Previous Test Date:
Reference Temperature: <u>14</u>
Service: <u>I</u>


TESTED IN COMPLIANCE WITH AS2030.1	<b>CERTIFICATE OF TEST</b>	<b>29594</b>	S.A.A. APPROVED TEST STATION No.: 308A
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Client: AMDEL Serial No.: AA 0284/OTEK096

Specification No.: DOT 3E 1800

Water Capacity: .5L Test Pressure: 2925 PSI Working Pressure: 1800 PSI

Condition: External <u>Good</u>	Condition: Internal <u>Good</u>	HYDROSTATIC/VISUAL TEST RESULT: <u>Passed</u>	WEIGHT TEST: Passed
Average	Average	Recommendation or Remarks:	
Poor	Poor		

Approved Signatory: 



# NATIONAL HYDRO TESTING SERVICES

1 ELLEMSEA CCT. LONSDALE SA 5160  
PH 8326 7755 MOBILE 0418 804 144

REGISTERED MARK

REF # SPE 747

Date of Test: 8/08
Previous Test Date:
Reference Temperature: 14
Service: F

TESTED IN COMPLIANCE WITH AS2030.1

## CERTIFICATE OF TEST

29586

S.A.A. APPROVED

TEST STATION No.: 308A

Client: AMDEL

Serial No.: AAO 286

Specification No.: DOT 3E 1800

Water Capacity: 0.5 L

Test Pressure: 2925 PSI

Working Pressure: 1800 PSI

Condition: External	Condition: Internal	HYDROSTATIC/VISUAL TEST RESULT: <u>Passed</u>	WEIGHT TEST: Passed
<u>Good</u>	<u>Good</u>		
Average	Average	Recommendation or Remarks:	
Poor	Poor		

Approved Signatory: 