

APPENDIX IV: HYDROCARBON ANALYSIS

Gas analysis was performed by GEARHART COREDATA on a sample collected at the manifold during Flow Test 1.

SANTOS LIMITED
GAS ANALYSIS FOR
EAST MEREENIE NO. 36

GAS ANALYSIS

CLIENT: SANTOS LIMITED
WELL: EAST MEREENIE NO 36 DST #: 1
DATE: 9-05-95 TIME: 14:40 FORMATION: P1-280
DEPTH: 1405.7M-714M PRESSURE: 615 PSI
FLOW RATE: 3.38 MMCFD RECOVERY: _____
SAMPLE TAKEN FROM: MANIFOLD ANALYSIS TEMP: 22C
CYLINDER ID EX 215

ANALYSIS

GAS	MOLE %
METHANE.....	<u>72.5672</u>
ETHANE.....	<u>13.0490</u>
PROPANE.....	<u>4.5040</u>
ISO BUTANE.....	<u>0.4758</u>
BUTANE.....	<u>1.2711</u>
ISO PENTANE.....	<u>0.2804</u>
PENTANE.....	<u>0.3766</u>
NEO PENTANE.....	<u>0.0068</u>
HEXANE.....	<u>0.2179</u>
HEPTANE.....	<u>0.0343</u>
OCTANE +.....	<u>0.0601</u>
CARBON DIOXIDE.....	<u>0.0861</u>
NITROGEN.....	<u>7.0709</u>
OXYGEN.....	_____
.....	_____
.....	_____

AVERAGE MOLECULAR WEIGHT = 21.35CALCULATED GAS DENSITY: 0.7372 (RELATIVE TO AIR = 1)CALORIFIC VALUE GROSS: 1183.50 BTU/CU. FT. 44.10 MJ/CU. M.CALORIFIC VALUE NETT: 1073.45 BTU/CU. FT. 39.99 MJ/CU. M.

2.373

2.782 Ethane

3.56 Nitrogen

3.942 Methane

Iso Butane

6.257 Propane

6.72 Butane

7.485 Iso Pentane

7.847 Pentane

8.288
8.593

9.36 Hexane

9.817

10.315 Hexane

11.35
11.628
12.015

12.882

13.418
13.685
13.99214.702
15.09

15.542

17.442
17.872
18.275
18.555
18.747

19.48

21.1
21.413
21.89
22.10822.522
22.88323.933
24.185

25.173

26.458
26.857

27.842