



GAS QUALITY TEST REPORT

COMPANY SELLER

Gulf

STA. NO.

FIELD OR
LOCATION

S. Carlsbad

CONTRACT NO.

SOURCE OR
RESERVOIR

MORROW

TEST DATE 10.20.77

WELL OR
STATION NAME

G. F. State Gulf

LAB 3

COMPOUND COMPONENTS	COMPONENT SPECIFIC GRAVITY	COMPONENT MOLE FRACTION	LIQUEFIABLE HYDROCARBONS	COMPONENT G. P. M.	MOLE FRACTION	G. P. M. CONTENT
NITROGEN	.9672	. 0026	PROPANE	27.514	.	
CARBON DIOXIDE	1.5195	. 0107	ISO-BUTANE	32.698	.	
HELIUM	.1382	. 0001	N-BUTANE	31.510	.	
OXYGEN	1.1048	.	LPG - - - - -			
HYDROGEN SULFIDE	1.1766	.	ISO-PENTANE	36.582	.	
WATER VAPOR	.6220	.	N-PENTANE	36.213	.	
HYDROCARBON DILUENTS		(. 0134)	HEXANES	41.111	.	
			HEPTANES +	46.126	.	
METHANE	.5539	. 9639	NATURAL GASOLINE - - - - -			
ETHANE	1.0382	. 0192	TOTAL LIQUEFIABLE GPM			
PROPANE	1.5225	. 0025	WATER VAPOR CONTENT:			
ISO-BUTANE	2.0068	. 0003	Gas Mixture Static Pressure PSI 9630			
N-BUTANE	2.0068	. 0002	Hydrocarbon Dew Point °F			
ISO-PENTANE	2.4910	. 0002	Water Vapor Dew Point °F			
N-PENTANE	2.4910	. 0001	Lbs Water Vapor per MMCF 17			
HEXANES	2.9753	. 0001	Conversion Constant X 0.000021			
HEPTANES +	3.7018	. 0001	Water Vapor Mole Fraction			
			Moisture recorder reading			
			Make or type			

COMPOSITION - - - - - 1.0000

MIXTURE SPECIFIC GRAVITY:

Calculated From Analysis . 5787

Determined by Test Instrument . 580

Instrument Make or Type Ranney

MIXTURE HEATING VALUE:

(Btu/cf at 14.73 Psia, 60°F, Sat.)

Calculated From Analysis . 1004

Determined by Calorimeter

Calorimeter Verified ()

SULFUR CONTENT:

H₂S - Hydrogen Sulfide, Gr./100 cf . 19

RSH - Mercaptans " . 01

RSR - Sulfides " . 19

RSSR - Residuals " . 29

Total Sulfur, Gr./100 cf . 68

H₂S Grains to fraction conversion X 0.0000157H₂S Mole Fraction

Critical Pressure 677 Critical Temperature 351

REMARKS

MEASUREMENT

AREA Roswell

GAS

ANALYST

Creal