GAS QUALITY TEST REPORT

COMPANY OR SELLER: Conoco
FIELD OR LOCATION: So. Carlsbad - Strawn
SOURCE OR RESERVOIR: Strawn
WELL OR STATION NAME: Gulf Fed #2 Short String
STA. NO. 1076-1 (1643)
CONTRACT NO. 1681
TEST DATE 1 15 76
LAB 4

COMPOUND COMPONENTS	COMPONENT SPECIFIC GRAVITY	COMPONENT MOLE FRACTION
NITROGEN	.9672	.0190
CARBON DIOXIDE	1.5195	.0048
HELIUM	.1382	.0001
OXYGEN	1.1048	—
HYDROGEN SULFIDE	1.1766	—
WATER VAPOR	.6220	—
HYDROCARBON DILUENTS		(.0239)
METHANE	.5539	.8302
ETHANE	1.0382	.0813
PROPANE	1.5225	.0316
ISO-BUTANE	2.0068	.0070
N-BUTANE	2.0068	.0116
ISO-PENTANE	2.4910	.0048
N-PENTANE	2.4910	.0037
HEXANES	2.9753	.0032
HEPTANES +	3.7018	.0027
COMPOSITION		1.0000

LIQUEFIABLE HYDROCARBONS	COMPONENT G.P.M.	MOLE FRACTION	G.P.M. CONTENT
PROPANE	27.514	.	
ISO-BUTANE	32.698	.	
N-BUTANE	31.510	.	
LPG			
ISO-PENTANE	36.582	.	
N-PENTANE	36.213	.	
HEXANES	41.111	.	
HEPTANES	46.126	.	
NATURAL GASOLINE			
TOTAL LIQUEFIABLE GPM			

WATER VAPOR CONTENT:

Gas Mixture Static Pressure PSI
Hydrocarbon Dew Point °F
Water Vapor Dew Point °F
Lbs Water Vapor per MMCF
Conversion Constant X 0.000021
Water Vapor Mole Fraction .
Moisture recorder reading
Make or type

MIXTURE SPECIFIC GRAVITY:

Calculated From Analysis .696
Determined by Test Instrument .691
Instrument Make or Type Cantrell

MIXTURE HEATING VALUE:
(Btu/cf at 14.73 Psia, 60° F, Sat.)

Calculated From Analysis 1172
Determined by Calorimeter .
Calorimeter Verified ( )

SULFUR CONTENT:

H_2S – Hydrogen Sulfide, Gr./100 cf .
RSH – Mercaptans " .
RSR – Sulfides " .
RSSR – Residuals " .
Total Sulfur, Gr./100 cf .
H_2S Grains to fraction conversion X 0.0000157
H_2S Mole Fraction

Critical Pressure 666 Critical Temperature 386

REMARKS Analysis After Re-working Well

MEASUREMENT AREA Roswell
GAS ANALYST Aerzon

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