



GAS QUALITY TEST REPORT

COMPANY SELLER

COTTON PET. CO.

STA. NO.

FIELD OR
LOCATION

So. CARLSBAD

CONTRACT NO.

SOURCE OR
RESERVOIR

MORROW

TEST DATE

11/10/75

WELL OR
STATION NAME

COTTON NOBEL

LAB

4

COMPOUND COMPONENTS	COMPONENT SPECIFIC GRAVITY	COMPONENT MOLE FRACTION	LIQUEFIABLE HYDROCARBONS	COMPONENT G. P. M.	MOLE FRACTION	G. P. M. CONTENT
NITROGEN	.9672	.0029	PROPANE	27.514	.	
CARBON DIOXIDE	1.5195	.0148	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		(.0178)	HEXANES	41.111	.	
			HEPTANES +	46.126	.	
METHANE	.5539	.9588	NATURAL GASOLINE - - - - -			
ETHANE	1.0382	.0192	TOTAL LIQUEFIABLE GPM			
PROPANE	1.5225	.0027	WATER VAPOR CONTENT:			
ISO-BUTANE	2.0068	.0006	Gas Mixture Static Pressure PSI			
N-BUTANE	2.0068	.0004	Hydrocarbon Dew Point °F			
ISO-PENTANE	2.4910	.0002	Water Vapor Dew Point °F			
N-PENTANE	2.4910	.0001	Lbs Water Vapor per MMCF			
HEXANES	2.9753	.0001	Conversion Constant			
HEPTANES +	3.7018	.0001	Water Vapor Mole Fraction			
			Moisture recorder reading			
			Make or type			

COMPOSITION - - - - - 1.0000

MIXTURE SPECIFIC GRAVITY:

Calculated From Analysis

.584

Determined by Test Instrument

.587

Instrument Make or Type

Pankaf

MIXTURE HEATING VALUE:

(Btu/cf at 14.73 Psia, 60°F, Sat.)

Calculated From Analysis

1001

Determined by Calorimeter

Calorimeter Verified ()

SULFUR CONTENT:

H₂S - Hydrogen Sulfide, Gr./100 cf

.01

RSH - Mercaptans "

.01

RSR - Sulfides "

.02

RSSR - Residuals "

.04

Total Sulfur, Gr./100 cf

.08

H₂S Grains to fraction conversion

X 0.0000157

H₂S Mole Fraction

Critical Pressure

679

Critical Temperature

352

REMARKS

4 Point Test Analysis

MEASUREMENT

Poswren

GAS

ANALYST

Acston