



GAS QUALITY TEST REPORT

COMPANY SELLER MOBIL
FIELD OR LOCATION S. CARLSBAD
SOURCE OR RESERVOIR MORROW
WELL OR STATION NAME MOBIL FED. "PP" #1

STA. NO. _____
CONTRACT NO. _____
TEST DATE 10/5/73
LAB 4

COMPOUND COMPONENTS	COMPONENT SPECIFIC GRAVITY	COMPONENT MOL FRACTION	LIQUEFIABLE HYDROCARBONS	COMPONENT G. P. M.	MOL FRACTION	G. P. M. CONTENT
NITROGEN	.9672	.0019	PROPANE	27.514	.	.0578
CARBON DIOXIDE	1.5194	.0113	ISO-BUTANE	32.698	.	.0065
HELIUM	.1382	.0001	N-BUTANE	31.510	.	.0063
OXYGEN	1.1048	—	LPG — — — — —			.0706
HYDROGEN SULFIDE	1.1766	—	ISO-PENTANE	36.582	.	—
WATER VAPOR	.6220	—	N-PENTANE	36.213	.	—
HYDROCARBON DILUENTS		(.0133)	HEXANES	41.111	.	—
			HEPTANES +	46.126	.	—
METHANE	.5539	.9680	NATURAL GASOLINE — — — — —			—
ETHANE	1.0382	.0162	TOTAL LIQUEFIABLE GPM			.0706
PROPANE	1.5225	.0021	WATER VAPOR CONTENT:			
ISO-BUTANE	2.0067	.0002	Gas Mixture Static Pressure PSI _____			
N-BUTANE	2.0067	.0002	Hydrocarbon Dew Point °F _____			
ISO-PENTANE	2.4910	—	Water Vapor Dew Point °F _____			
N-PENTANE	2.4910	—	Lbs Water Vapor per MMCF _____			
HEXANES	2.9753	—	Conversion Constant <u>X 0.002095</u>			
HEPTANES +	3.4596	—	Water Vapor Volume fraction _____			
			Moisture recorder reading _____			
			Make or type _____			

COMPOSITION — — — — — 1.0000

MIXTURE SPECIFIC GRAVITY:

Calculated From Analysis .5760
Determined by Test Instrument .576
Instrument Make or Type RAIRGX

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

Calculated From Analysis 999.3
Determined by Calorimeter _____
Calorimeter Verified (_____)

SULFUR CONTENT:

H₂S — Hydrogen Sulfide, Gr./100 cf _____
RSH — Mercaptans _____
RSR — Sulfides No. TRACE
RSSR — Residuals _____
Total Sulfur, Gr./100 cf _____
H₂S Grains to fraction conversion X .001572
H₂S Volume Fraction _____

Critical Pressure 677.6 Critical Temperature 349.9

REMARKS SAMPLED DURING THIRD RATE OF 4 POINT TESTMEASUREMENT
AREA RoswellGAS
ANALYST AUSTON