



GAS QUALITY TEST REPORT

CO. BUY SELLER

MOBIL Oil Corp.

STA. NO.

FIELD OR
LOCATION

S. CARLSBAD

CONTRACT NO.

SOURCE OR
RESERVOIR

MORROW

TEST DATE

9-28-73

WELL OR
STATION NAME

FEDERAL Com. "LL"

LAB

4

COMPOUND COMPONENTS	COMPONENT SPECIFIC GRAVITY	COMPONENT MOL FRACTION	LIQUEFIABLE HYDROCARBONS	COMPONENT G. P. M.	MOL FRACTION	G. P. M. CONTENT
NITROGEN	.9672	.0062	PROPANE	27.514	.	.0440
CARBON DIOXIDE	1.5194	.0101	ISO-BUTANE	32.698	.	.0098
HELIUM	.1382	.0001	N-BUTANE	31.510	.	.0126
OXYGEN	1.1048	-	LPG - - - - -			.0664
HYDROGEN SULFIDE	1.1766	-	ISO-PENTANE	36.582	.	.0073
WATER VAPOR	.6220	-	N-PENTANE	36.213	.	.0036
HYDROCARBON DILUENTS		(.0164)	HEXANES	41.111	.	.0082
			HEPTANES +	46.126	.	.0046
ETHANE	.5539	.9687	NATURAL GASOLINE - - - - -			.0237
ETHANE	1.0382	.0120	TOTAL LIQUEFIABLE GPM			.0901
PROPANE	1.5225	.0016	WATER VAPOR CONTENT:			
ISO-BUTANE	2.0067	.0003	Gas Mixture Static Pressure PSI			
N-BUTANE	2.0067	.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	.0002	Conversion Constant			
HEPTANES +	3.4596	.0001	Water Vapor Volume fraction			
			Moisture recorder reading			
			Make or type			

COMPOSITION - - - - - 1.0000

MIXTURE SPECIFIC GRAVITY:

Calculated From Analysis

.5759

Determined by Test Instrument

.578

Instrument Make or Type

RANNEY

MIXTURE HEATING VALUE:

Btu/cf at 14.73 Psia, 60°F, Sat.)

Calculated From Analysis

995.0

Determined by Calorimeter

Calorimeter Verified ()

SULFUR CONTENT:

H₂S - Hydrogen Sulfide, Gr./100 cf

.01

RSH - Mercaptans "

.04

RSR - Sulfides "

.01

RSSR - Residuals "

.03

Total Sulfur, Gr./100 cf

.09

H₂S Grains to fraction conversion

X .001572

H₂S Volume Fraction

Critical Pressure 676.0 Critical Temperature 348.6

REMARKS

4 Point Well Test

MEASUREMENT

Roswell

GAS

ANALYST

A. M. I.