



GAS QUALITY TEST REPORT

COMPANY SELLER PENNZOIL
FIELD OR LOCATION So. CARLSBAD
SOURCE OR RESERVOIR WOLF CAMP
WELL OR STATION NAME MOORE Com. #1
OCT 26 1973
MIDLAND

STA. NO. _____
CONTRACT NO. _____
TEST DATE 10/23/73
LAB 4

COMPOUND COMPONENTS	COMPONENT SPECIFIC GRAVITY	COMPONENT MOL FRACTION	LIQUEFIABLE HYDROCARBONS	COMPONENT G. P. M.	MOL FRACTION	G. P. M. CONTENT
NITROGEN	.9672	.0069	PROPANE	27.514	.	1.2106
CARBON DIOXIDE	1.5194	.0012	ISO-BUTANE	32.698	.	.2223
HELIUM	.1382	.0001	N-BUTANE	31.510	.	.3498
OXYGEN	1.1048	.0030	LPG - - - - -			1.7827
HYDROGEN SULFIDE	1.1766	—	ISO-PENTANE	36.582	.	.0988
WATER VAPOR	.6220	—	N-PENTANE	36.213	.	.0797
HYDROCARBON DILUENTS		(.0112)	HEXANES	41.111	.	.0411
			HEPTANES +	46.126	.	.0231
METHANE	.5539	.8046	NATURAL GASOLINE - - - - -			.2427
ETHANE	1.0382	.1159	TOTAL LIQUEFIABLE GPM			2.0254
PROPANE	1.5225	.0440	WATER VAPOR CONTENT:			
ISO-BUTANE	2.0067	.0068	Gas Mixture Static Pressure PSI			
N-BUTANE	2.0067	.0111	Hydrocarbon Dew Point °F			
ISO-PENTANE	2.4910	.0027	Water Vapor Dew Point °F			
N-PENTANE	2.4910	.0022	Lbs Water Vapor per MMCF			
HEXANES	2.9753	.0010	Conversion Constant			X 0.002095
HEPTANES +	3.4596	.0005	Water Vapor Volume fraction			
			Moisture recorder reading			
			Make or type			

COMPOSITION - - - - - 1.0000

MIXTURE SPECIFIC GRAVITY:

Calculated From Analysis

.6976

Determined by Test Instrument

.700

Instrument Make or Type

PANARCO

MIXTURE HEATING VALUE:

(Btu/cf at 14.73 Psia, 60°F, Sat.)

Calculated From Analysis

1199.3

Determined by Calorimeter

Calorimeter Verified (

SULFUR CONTENT:

H₂S - Hydrogen Sulfide, Gr./100 cf

.03

RSH - Mercaptans "

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RSR - Sulfides "

.01

RSSR - Residuals "

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Total Sulfur, Gr./100 cf

.04

H₂S Grains to fraction conversion

X .001572

H₂S Volume Fraction

Critical Pressure 670.4 Critical Temperature 392.1

REMARKS

4 POINT TEST ANALYSIS

MEASUREMENT
AREA

ROSWELL

GAS
ANALYST

ALSTON