



GAS QUALITY TEST REPORT

COMPANY SELLER

MIDWEST OIL CO.

STA. NO.

FIELD OR
LOCATION

S. CARLSBAD

CONTRACT NO.

SOURCE OR
RESERVOIR

ATOCA

TEST DATE 11/27/72

WELL OR
STATION NAME

MIDWEST STATE "W"

LAB

4

COMPOUND COMPONENTS	COMPONENT SPECIFIC GRAVITY	COMPONENT MOL FRACTION	LIQUEFIABLE HYDROCARBONS	COMPONENT G. P. M.	MOL FRACTION	G. P. M. CONTENT
NITROGEN	.9672	.0068	PROPANE	27.514	.0070	.1926
CARBON DIOXIDE	1.5194	.0048	ISO-BUTANE	32.698	.0015	.0490
HELIUM	.1382	.0001	N-BUTANE	31.510	.0016	.0504
OXYGEN	1.1048	—	LPG ————			.2920
HYDROGEN SULFIDE	1.1765	—	ISO-PENTANE	36.582	.0008	.0293
WATER VAPOR	.6220	—	N-PENTANE	36.213	.0005	.0181
HYDROCARBON DILUENTS		(.0117)	HEXANES	41.111	.0008	.0329
METHANE	.5539	.9406	HEPTANES +	46.126	.0004	.0185
ETHANE	1.0392	.0351	NATURAL GASOLINE ————			.0988
PROPANE	1.5225	.0070	TOTAL LIQUEFIABLE GPM			.3908
ISO-BUTANE	2.0067	.0015	WATER VAPOR CONTENT:			
N-BUTANE	2.0067	.0016	Gas Mixture Static Pressure PSI _____			
ISO-PENTANE	2.4910	.0008	Hydrocarbon Dew Point °F _____			
N-PENTANE	2.4910	.0005	Water Vapor Dew Point °F _____			
HEXANES	2.9753	.0008	Lbs Water Vapor per MMCF _____			
HEPTANES +	3.4596	.0004	Conversion Constant X 0.002095			
COMPOSITION ———— 1.0000			Water Vapor Volume fraction _____			
MIXTURE SPECIFIC GRAVITY:			Moisture recorder reading _____			
Calculated From Analysis .5952			Make or type _____			
Determined by Test Instrument .599			SULFUR CONTENT:			
Instrument Make or Type <u>ICANALREF</u>			H ₂ S — Hydrogen Sulfide, Gr./100 cf .02			
MIXTURE HEATING VALUE:			RSH — Mercaptans " .01			
(Btu/cf at 14.73 Psia, 60°F, Sat.)			RSR — Sulfides " .01			
Calculated From Analysis 1037.2			RSSR — Residuals " .02			
Determined by Calorimeter			Total Sulfur, Gr./100 cf .06			
Calorimeter Verified ()			H ₂ S Grains to fraction conversion X .001572			
REMARKS: ANALYSIS DURING 300 RATE OF 4 POINT TEST			H ₂ S Volume Fraction _____			
MEASUREMENT AREA <u>ROSWELL</u>			Critical Pressure 673.5 Critical Temperature 356.3			
GAS ANALYST <u>ALSTON</u>						