



## GAS QUALITY TEST REPORT

COMPANY SELLER

YATES PET. C

STA. NO.

FIELD OR  
LOCATION

BURTON FLATS

CONTRACT NO.

SOURCE OR  
RESERVOIR

Mazon Water

TEST DATE

1 30, 76

WELL OR  
STATION NAME

Stodeman "DS"

LAB

4

| COMPOUND<br>COMPONENTS | COMPONENT<br>SPECIFIC GRAVITY | COMPONENT<br>MOLE FRACTION | LIQUEFIABLE<br>HYDROCARBONS                                                                                                                                                                                                                                                                                             | COMPONENT<br>G. P. M. | MOLE<br>FRACTION | G. P. M.<br>CONTENT |
|------------------------|-------------------------------|----------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|------------------|---------------------|
| NITROGEN               | .9672                         | .0086                      | PROPANE                                                                                                                                                                                                                                                                                                                 | 27.514                | .                |                     |
| CARBON DIOXIDE         | 1.5195                        | .0033                      | 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   |                               | (.0120)                    | HEXANES                                                                                                                                                                                                                                                                                                                 | 41.111                | .                |                     |
|                        |                               |                            | HEPTANES +                                                                                                                                                                                                                                                                                                              | 46.126                | .                |                     |
|                        |                               |                            | NATURAL GASOLINE - - - - -                                                                                                                                                                                                                                                                                              |                       |                  |                     |
| METHANE                | .5539                         | .8887                      | TOTAL LIQUEFIABLE GPM                                                                                                                                                                                                                                                                                                   |                       |                  |                     |
| ETHANE                 | 1.0382                        | .0624                      | <b>WATER VAPOR CONTENT:</b><br><br>Gas Mixture Static Pressure PSI _____<br>Hydrocarbon Dew Point °F _____<br>Water Vapor Dew Point °F _____<br>Lbs Water Vapor per MMCF _____<br>Conversion Constant <u>X 0.000021</u><br>Water Vapor Mole Fraction _____<br><br>Moisture recorder reading _____<br>Make or type _____ |                       |                  |                     |
| PROPANE                | 1.5225                        | .0227                      |                                                                                                                                                                                                                                                                                                                         |                       |                  |                     |
| ISO-BUTANE             | 2.0068                        | .0041                      |                                                                                                                                                                                                                                                                                                                         |                       |                  |                     |
| N-BUTANE               | 2.0068                        | .0053                      |                                                                                                                                                                                                                                                                                                                         |                       |                  |                     |
| ISO-PENTANE            | 2.4910                        | .0021                      |                                                                                                                                                                                                                                                                                                                         |                       |                  |                     |
| N-PENTANE              | 2.4910                        | .0011                      |                                                                                                                                                                                                                                                                                                                         |                       |                  |                     |
| HEXANES                | 2.9753                        | .0010                      |                                                                                                                                                                                                                                                                                                                         |                       |                  |                     |
| HEPTANES +             | 3.7018                        | .0006                      |                                                                                                                                                                                                                                                                                                                         |                       |                  |                     |
|                        |                               |                            |                                                                                                                                                                                                                                                                                                                         |                       |                  |                     |
|                        |                               |                            |                                                                                                                                                                                                                                                                                                                         |                       |                  |                     |
|                        |                               |                            |                                                                                                                                                                                                                                                                                                                         |                       |                  |                     |

COMPOSITION - - - - - 1.0000

## MIXTURE SPECIFIC GRAVITY:

Calculated From Analysis

.637

Determined by Test Instrument

.637

Instrument Make or Type

P. M. R. G.

## MIXTURE HEATING VALUE:

(Btu/cf at 14.73 Psia, 60°F, Sat.)

Calculated From Analysis

1102

Determined by Calorimeter

Calorimeter Verified ( )

## SULFUR CONTENT:

H<sub>2</sub>S - Hydrogen Sulfide, Gr./100 cf

.01

RSH - Mercaptans

.02

RSR - Sulfides

RECEIVED

.06

RSSR - Residuals

.04

Total Sulfur, Gr./100 cf

.13

H<sub>2</sub>S Grains to fraction conversion

0.0000157

H<sub>2</sub>S Mole FractionU. S. GEOLOGICAL SURVEY  
ARTESIA, NEW MEXICO

Critical Pressure

671

Critical Temperature

370

REMARKS 4 Point Analysis

MEASUREMENT

AREA

Roswell

GAS

ANALYST

ALSTON