

Williams Energy Services  
Tulsa, Oklahoma  
CERTIFICATE OF ANALYSIS  
For production month 07/03

07/11/03 07:45:24

PAGE 1

30-039-07933

Station ID: 71897  
Station Name: ROSA UNIT #24  
Analysis Source: 71897Lab Identifier: K275  
Effective Date: 08/01/02Operator: 009024  
Analysis ID: 306519  
Analyzed Date: 07/29/02Sample On Date: 07/28/02  
Sample Off Date: 07/28/02  
Sample Type: S

| Component              | Mol %   | GPM   |
|------------------------|---------|-------|
| Helium                 | 0.0000  |       |
| CO                     | 0.0000  |       |
| CO2                    | 1.5740  |       |
| N2                     | 0.0890  |       |
| Hydrogen Sulfide (H2S) | 0.0000  |       |
| Methane (C1)           | 96.1630 |       |
| Ethane (C2)            | 1.8320  | 0.490 |
| Propane (C3)           | 0.2270  | 0.063 |
| I-butane (IC4)         | 0.0460  | 0.015 |
| N-butane (NC4)         | 0.0260  | 0.008 |
| I-pentane (IC5)        | 0.0000  | 0.000 |
| N-pentane (NC5)        | 0.0000  | 0.000 |
| Hexanes (C6)           | 0.0430  | 0.019 |
| Heptanes (C7)          |         |       |
| Octanes (C8)           |         |       |
| Nonanes (C9)           |         |       |
| Decanes (C10)          |         |       |

TOTAL 100.0000 0.595

## Calculation Parameters:

|                                     |                                    |
|-------------------------------------|------------------------------------|
| Specific Gravity @ 60 deg.F (AIR=1) | BTU Calculated/cubic ft @ 60 deg.F |
| Ideal Gravity: 0.5828               | Ideal BTU: 1016.2745               |
| Sample Gravity: 0.5838              | Dry BTU @ 14.730: 1018.4386        |
| Z Factor: 0.9979                    |                                    |

Remark: C6

|                           |  |                        |                           |
|---------------------------|--|------------------------|---------------------------|
| <b>KUTZ LAB</b>           |  | <b>Phone: 632-4455</b> | <b>Tested By: Pauline</b> |
| <b>DATE: 007/11/03</b>    |  |                        |                           |
|                           |  | <b>Bradenhead</b>      |                           |
| <b>METER NAME:</b>        |  | <b>Rosa #24</b>        |                           |
| <b>METER NUMBER:</b>      |  | <b>71897-01</b>        |                           |
| <b>SAMPLE DATE:</b>       |  | <b>07/09/03</b>        |                           |
| <b>ANALYZED DATE:</b>     |  | <b>07/10/03</b>        |                           |
|                           |  | <b>MOLE %</b>          |                           |
| <b>CARBON DIOXIDE CO2</b> |  | <b>0.278</b>           |                           |
| <b>NITROGEN (N2)</b>      |  | <b>1.213</b>           |                           |
| <b>METHANE (C1)</b>       |  | <b>93.378</b>          |                           |
| <b>ETHANE (C2)</b>        |  | <b>4.202</b>           |                           |
| <b>PROPANE (C3)</b>       |  | <b>0.440</b>           |                           |
| <b>ISO-BUTANE (IC4)</b>   |  | <b>0.124</b>           |                           |
| <b>N-BUTANE (NC4)</b>     |  | <b>0.089</b>           |                           |
| <b>ISO-PENTANE (IC5)</b>  |  | <b>0.045</b>           |                           |
| <b>N-PENTANE (NC5)</b>    |  | <b>0.023</b>           |                           |
| <b>HEXANES (C6+)</b>      |  | <b>0.207</b>           |                           |
| <b>TOTAL:</b>             |  | <b>100.00</b>          |                           |
|                           |  |                        |                           |
| <b>BTU</b>                |  | <b>1053.65</b>         |                           |
| <b>SPECIFIC GRAVITY</b>   |  | <b>0.5973</b>          |                           |
| <b>Line Pressure</b>      |  | <b>8#</b>              |                           |
|                           |  |                        |                           |
| <b>COMMENTS:</b>          |  |                        |                           |