

15-047-21553

23-265-18w

## NATURAL GAS ANALYSIS REPORT

Sampled by:  
Trilobite Testing, Inc.  
Hays, Kansas  
Scott City, Kansas  
Phone: 800-728-5369  
Fax: 785-625-5620

Analyzed by:  
Caraway Analytical, Inc  
P. O. Box 2137  
Liberal, Kansas 67905  
Phone: 620-624-5389  
Fax: 620-626-7108

|              |                     |              |          |
|--------------|---------------------|--------------|----------|
| Lab Number:  | 20072368            | Analyzed:    | 05/23/07 |
| Sample From: | Derley 2            | Pressure:    |          |
| Producer:    | Midcontinent Energy | Temperature: |          |
| Date:        |                     | Location:    | 23-26-18 |
| Time:        |                     | County:      | Edwards  |
| Sampler:     | Gary                | State:       | Kansas   |
| Source:      | Production Test     | Formation:   | Lans I   |

|                | Mole %     | GPM   |
|----------------|------------|-------|
| Helium         | He: 0.406  | 0.000 |
| Hydrogen       | H2: 0.073  | 0.000 |
| Oxygen         | O2: 0.000  | 0.000 |
| Nitrogen       | N2: 10.464 | 0.000 |
| Carbon Dioxide | CO2: 0.443 | 0.000 |
| Methane        | C1: 80.337 | 0.000 |
| Ethane         | C2: 4.264  | 1.140 |
| Propane        | C3: 2.111  | 0.582 |
| Iso Butane     | iC4: 0.327 | 0.107 |
| Normal Butane  | nC4: 0.813 | 0.256 |
| Iso Pentane    | iC5: 0.191 | 0.070 |
| Normal Pentane | nC5: 0.236 | 0.085 |
| Hexanes Plus   | C6+: 0.335 | 0.146 |

TOTAL: 100.000 2.387  
Z Fact: 0.9977  
SP.GR.: 0.6761  
BTU (SAT): 998.6 @ 14.73 psia  
BTU (DRY): 1016.3 @ 14.73 psia  
OCTANE RATING: 112.3

COMMENTS:

0.000