































| | Nai | ura | I Ga | as L | iaui | ds | |
|------------|-----------------|-----------------------|----------------|---|-----------------------------|--------------------------------------|------------------------|
| | 1 Btu/gallon | 2 MMBtu/ gallon | 3 \$/gallon | 4 \$/MMBtu ^{1,2} (= 3/2) | 5 Btu/cf | 6 MMBtu/Mcf | 7 \$/Mcf (= 4*6) |
| Methane | 59,755 | 0.06 | 0.42 | 7.00 | 1,012 | 1.01 | \$7.07 |
| Ethane | 74,010 | 0.07 | 0.37 | 5.21 | 1,773 | 1.77 | \$9.23 |
| Propane | 91,740 | 0.09 | 0.68 | 7.58 | 2,524 | 2.52 | \$19.10 |
| n Butane | 103,787 | 0.10 | 0.86 | 8.60 | 3,271 | 3.27 | \$28.11 |
| iso Butane | 100,176 | 0.10 | 0.91 | 9.08 | 3,261 | 3.26 | \$29.58 |
| entanes+* | 105,000 | 0.11 | 1.01 | 9.14 | 4,380 | 4.38 | \$40.02 |
| | | 8 \$/MMBt | u Cor | 9 Vapor nposition | 10 Mixture (MMBtu/Mcf | 11 Value) (\$/Mcf) (8*10) | |
| Me | thane | 7.00 | | 82% | 0.83 | \$5.81 | |
| Eth | ane | 5.21 | | 8% | 0.14 | \$0.73 | |
| Pro | opane | 7.58 | | 4% | 0.10 | \$0.76 | |
| n B | lutane | 8.60 | | 3% | 0.10 | \$0.86 | |
| iso | Butane | 9.08 | | 1% | 0.03 | \$0.27 | |
| Per | ntanes+ | 9.14 | | 2% | 0.09 | \$0.82 | _ |
| Per | ntanes+ al | 9.14 | | 2% | 0.09 | \$0.82 \$9.25 | _ |

| s Recovery Profitable? | | | | | | | | | | | | |
|---|---|---------------------------|----------------------------|---------------------------|-------------------------------|-------------------------------|--|--|--|--|--|--|
| Financial Analysis for a Conventional VRU Project | | | | | | | | | | | | |
| Peak Capacity (Mcf/day) | Installation & Capital Costs ¹ (\$) | O&M Costs (\$/year) | Value of Gas² (\$/year) | Annual Savings (\$) | Simple Payback (months) | Internal Rate of Return | | | | | | |
| 25 | \$35,738 | \$7,367 | \$42,203 | \$34,836 | 13 | 94% | | | | | | |
| 50 | \$46,073 | \$8,419 | \$84,406 | \$75,987 | 8 | 164% | | | | | | |
| 100 | \$55,524 | \$10,103 | \$168,812 | \$158,709 | 5 | 286% | | | | | | |
| 200 | \$74,425 | \$11,787 | \$337,625 | \$325,838 | 3 | 438% | | | | | | |
| 500 | \$103,959 | \$16,839 | \$844,062 | \$827,223 | 2 | 796% | | | | | | |





























