



**EXTENDED NATURAL GAS ANALYSIS (*DHA)
GLYCALC INFORMATION**

| | | | |
|----------------|------------------------------------|----------------|--------------------------|
| PROJECT NO. : | 202509081 | ANALYSIS NO. : | 02 |
| COMPANY NAME : | QB ENERGY OPERATING, LLC | ANALYSIS DATE: | SEPTEMBER 22, 2025 22:16 |
| ACCOUNT NO. : | | SAMPLE DATE : | SEPTEMBER 10, 2025 |
| PRODUCER : | | CYLINDER NO. : | 0450 |
| LEASE NO. : | | SAMPLED BY : | NICK CROY |
| NAME/DESCRIP : | PCU F27X-8G INTERMEDIATE CASING | | |

| | | | |
|--------------------|------|----------------|--|
| ***FIELD DATA*** | | SAMPLE TEMP. : | |
| SAMPLE PRES. : | 1963 | AMBIENT TEMP.: | |
| H2S BY STAIN TUBE: | — | | |
| COMMENTS : | — | | |

| <u>Componet</u> | <u>Mole %</u> | <u>Wt %</u> |
|------------------------|------------------|------------------|
| Helium | 0.00 | 0.00 |
| Hydrogen | 0.20 | 0.02 |
| Carbon Dioxide | 1.84 | 3.86 |
| Nitrogen | 0.16 | 0.21 |
| Methane | 83.3681 | 63.8201 |
| Ethane | 7.9799 | 11.4499 |
| Propane | 2.7059 | 5.6936 |
| Isobutane | 0.6620 | 1.8361 |
| n-Butane | 0.6001 | 1.6644 |
| Isopentane | 0.3338 | 1.1493 |
| n-Pentane | 0.2177 | 0.7495 |
| Cyclopentane | 0.0107 | 0.0358 |
| n-Hexane | 0.1322 | 0.5436 |
| Cyclohexane | 0.0824 | 0.3309 |
| Other Hexanes | 0.2790 | 1.1408 |
| Heptanes | 0.3000 | 1.4279 |
| Methylcyclohexane | 0.2134 | 0.9999 |
| 2,2,4 Trimethylpentane | 0.0001 | 0.0005 |
| Benzene | 0.0441 | 0.1644 |
| Toluene | 0.1225 | 0.5386 |
| Ethylbenzene | 0.0112 | 0.0567 |
| Xylenes | 0.1058 | 0.5359 |
| C8+ Heavies | 0.6309 | 3.7717 |
| <u>Subtotal</u> | <u>99.99980</u> | <u>99.99960</u> |
| Oxygen/Argon | 0.00 | 0.00 |
| Alcohols | 0.0002 | 0.0004 |
| <u>Total</u> | <u>100.00000</u> | <u>100.00000</u> |

| Calculated Values BTU @ | | Total | C6+ | C8+ | C10+ |
|-------------------------|---------------------|--------|--------|--------|----------------|
| | | | | | |
| | LHV Net Dry Real: | 1107.3 | 5178.5 | 6074.9 | 7336.5 Btu/scf |
| | Net Wet Real: | 1087.9 | 5088.0 | 5968.7 | 7208.2 Btu/scf |
| | HHV Gross Dry Real: | 1220.5 | 5558.4 | 6526.7 | 7927.5 Btu/scf |
| | Gross Wet Real: | 1199.2 | 5461.2 | 6412.6 | 7788.9 Btu/scf |

| Other Calculated Values | | | | | |
|--|---------|---------|---------|---------|---------------------|
| Regualr Wobbe Index* | 1436.5 | 2932.7 | 3181.7 | 3539.8 | Btu/scf |
| Net Heating Value (60 °F ideal reaction): | 20094.2 | 19120.9 | 19177.2 | 18955.6 | Btu/lbm |
| Gross Heating Value (60°F ideal reaction): | 22154.7 | 20526.8 | 20601.4 | 20475.4 | Btu/lbm |
| Molar Mass (MW): | 20.9576 | 103.713 | 122.268 | 146.086 | g/mol |
| Relative Density (AIR=1): | 0.7222 | 3.5815 | 4.2216 | 5.0438 | SG |
| Density: | 0.05522 | 0.27330 | 0.32220 | 0.38497 | lbm/scf |
| Compressibility Factor: | 0.9971 | 0.9954 | 0.9985 | 0.9997 | Z |
| Liquid Volume real gas @: | 14.65 | 18.7152 | 0.8434 | 0.3768 | 0.0887 gal/1000 scf |

* The Wobbe pressure base in the number considered is based upon the given Pb of the HHV above.
 #DIV/0 or 0 (zero) will appear in the Calculated Value Section when there is no C6+, C8+ or C10+ in the sample to calculate these factors.
 BDL - Below Detection Limit. The H2S LOS has a detection limit of 0.25 ppm. A _ (an underscore) indicates there was no tube pulled for H2S.

The data presented herein has been acquired by means of current analytical techniques and represents the judicious conclusion EMPACT Analytical Systems, Inc. Results of the analysis can be affected by the sampling conditions, therefore, are only warranted through proper lab protocol. EMPACT assumes no responsibility for interpretation or any consequences from application of the reported information and is the sole liability of the user. The reproduction in any media of this reported information may not be made, in portion or as a whole, without the written permission of EMPACT Analytical Systems, Inc.

| | | | | | |
|-------------------------------|----|--------|--------|-------|-------|
| 3-Methylhexane | I7 | 0.0428 | 0.2047 | 0.020 | 0.020 |
| 1c,3-Dimethylcyclopentane | N7 | 0.0147 | 0.0689 | 0.007 | 0.007 |
| 1t,3-Dimethylcyclopentane | N7 | 0.0137 | 0.0642 | 0.006 | 0.006 |
| 3-Ethylpentane | I7 | 0.0023 | 0.0110 | 0.001 | 0.001 |
| 1t,2-Dimethylcyclopentane | N7 | 0.0217 | 0.1017 | 0.010 | 0.010 |
| 2,2,4-Trimethylpentane | I8 | 0.0001 | 0.0005 | 0.000 | 0.000 |
| UnknownC6s | U6 | 0.0001 | 0.0004 | 0.000 | 0.000 |
| n-Heptane | P7 | 0.1039 | 0.4968 | 0.048 | 0.048 |
| 1c,2-Dimethylcyclopentane | N7 | 0.0047 | 0.0220 | 0.002 | 0.002 |
| Methylcyclohexane | N7 | 0.2134 | 0.9999 | 0.086 | 0.087 |
| 2,2-Dimethylhexane | I8 | 0.0065 | 0.0354 | 0.003 | 0.003 |
| 1,1,3-Trimethylcyclopentane | N7 | 0.0003 | 0.0016 | 0.000 | 0.000 |
| Ethylcyclopentane | N7 | 0.0069 | 0.0323 | 0.003 | 0.003 |
| 2,5-Dimethylhexane | I8 | 0.0067 | 0.0365 | 0.003 | 0.003 |
| 2,2,3-Trimethylpentane | I8 | 0.0061 | 0.0333 | 0.003 | 0.003 |
| 2,4-Dimethylhexane | I8 | 0.0005 | 0.0027 | 0.000 | 0.000 |
| 1c,2t,4-Trimethylcyclopentane | N8 | 0.0043 | 0.0231 | 0.002 | 0.002 |
| 3,3-Dimethylhexane | I8 | 0.0020 | 0.0109 | 0.001 | 0.001 |
| 2,3,4-Trimethylpentane | I8 | 0.0001 | 0.0005 | 0.000 | 0.000 |
| 2,3,3-Trimethylpentane | I8 | 0.0003 | 0.0016 | 0.000 | 0.000 |
| Toluene | A7 | 0.1225 | 0.5386 | 0.041 | 0.041 |
| 2,3-Dimethylhexane | I8 | 0.0054 | 0.0294 | 0.003 | 0.003 |
| 2-Methyl-3-ethylpentane | I8 | 0.0004 | 0.0022 | 0.000 | 0.000 |
| 2-Methylheptane | I8 | 0.0308 | 0.1679 | 0.016 | 0.016 |
| 4-Methylheptane | I8 | 0.0096 | 0.0523 | 0.005 | 0.005 |
| 3-Methyl-3-ethylpentane | I8 | 0.0007 | 0.0038 | 0.000 | 0.000 |
| 3,4-Dimethylhexane | I8 | 0.0008 | 0.0043 | 0.000 | 0.000 |
| 1c,2c,4-Trimethylcyclopentane | N8 | 0.0004 | 0.0022 | 0.000 | 0.000 |
| 1c,3-Dimethylcyclohexane | N8 | 0.0002 | 0.0011 | 0.000 | 0.000 |
| 3-Methylheptane | I8 | 0.0243 | 0.1325 | 0.012 | 0.012 |
| 1c,2t,3-Trimethylcyclopentane | N8 | 0.0394 | 0.2110 | 0.020 | 0.020 |
| 3-Ethylhexane | I8 | 0.0008 | 0.0043 | 0.000 | 0.000 |
| 1t,4-Dimethylcyclohexane | N8 | 0.0173 | 0.0926 | 0.009 | 0.009 |
| 1,1-Dimethylcyclohexane | N8 | 0.0055 | 0.0294 | 0.002 | 0.002 |
| 2,2,5-Trimethylhexane | I9 | 0.0008 | 0.0049 | 0.000 | 0.000 |
| 3c-Ethylmethylcyclopentane | N8 | 0.0013 | 0.0070 | 0.001 | 0.001 |
| 3t-Ethylmethylcyclopentane | N8 | 0.0012 | 0.0064 | 0.001 | 0.001 |
| 2t-Ethylmethylcyclopentane | N8 | 0.0013 | 0.0070 | 0.001 | 0.001 |
| 1,1-Methylethylcyclopentane | N8 | 0.0003 | 0.0016 | 0.000 | 0.000 |
| 2,2,4-Trimethylhexane | I9 | 0.0005 | 0.0031 | 0.000 | 0.000 |
| 1t,2-Dimethylcyclohexane | N8 | 0.0124 | 0.0664 | 0.006 | 0.006 |
| 1t,3-Dimethylcyclohexane | N8 | 0.0020 | 0.0107 | 0.001 | 0.001 |
| UnknownC7s | U7 | 0.0001 | 0.0005 | 0.000 | 0.000 |
| n-Octane | P8 | 0.0795 | 0.4333 | 0.041 | 0.041 |
| 1c,4-Dimethylcyclohexane | N8 | 0.0087 | 0.0466 | 0.004 | 0.004 |
| i-Propylcyclopentane | I8 | 0.0006 | 0.0032 | 0.000 | 0.000 |
| 2,3,5-Trimethylhexane | I9 | 0.0014 | 0.0086 | 0.001 | 0.001 |
| 2,2,3,4-Tetramethylpentane | I9 | 0.0002 | 0.0012 | 0.000 | 0.000 |
| 2,3,4-Trimethylhexane | I9 | 0.0005 | 0.0031 | 0.000 | 0.000 |
| 1c,2-Dimethylcyclohexane | N8 | 0.0002 | 0.0011 | 0.000 | 0.000 |
| 2,2-Dimethylheptane | I9 | 0.0037 | 0.0227 | 0.002 | 0.002 |
| 1,1,4-Trimethylcyclohexane | N9 | 0.0132 | 0.0795 | 0.007 | 0.007 |
| 2,2,3-Trimethylhexane | I9 | 0.0020 | 0.0123 | 0.001 | 0.001 |
| 2,4-Dimethylheptane | I9 | 0.0011 | 0.0067 | 0.001 | 0.001 |
| 4,4-Dimethylheptane | I9 | 0.0002 | 0.0012 | 0.000 | 0.000 |
| Ethylcyclohexane | N8 | 0.0119 | 0.0637 | 0.005 | 0.005 |
| n-Propylcyclopentane | N8 | 0.0035 | 0.0188 | 0.002 | 0.002 |
| 1c,3c,5-Trimethylcyclohexane | N9 | 0.0011 | 0.0066 | 0.001 | 0.001 |
| 2,5-Dimethylheptane | I9 | 0.0100 | 0.0612 | 0.006 | 0.006 |
| 3,3-Dimethylheptane | I9 | 0.0016 | 0.0098 | 0.001 | 0.001 |
| 3,5-Dimethylheptane | I9 | 0.0002 | 0.0012 | 0.000 | 0.000 |

| | | | | | |
|---------------------------------|-----|--------|--------|-------|-------|
| 2,6-Dimethylheptane | I9 | 0.0004 | 0.0024 | 0.000 | 0.000 |
| 1,1,3-Trimethylcyclohexane | N9 | 0.0006 | 0.0036 | 0.000 | 0.000 |
| Ethylbenzene | I8 | 0.0112 | 0.0567 | 0.004 | 0.004 |
| 1c,2t,4t-Trimethylcyclohexane | N9 | 0.0002 | 0.0012 | 0.000 | 0.000 |
| 2,3-Dimethylheptane | I9 | 0.0004 | 0.0024 | 0.000 | 0.000 |
| 1,3-Dimethylbenzene (m-Xylene) | A8 | 0.0701 | 0.3551 | 0.027 | 0.027 |
| 1,4-Dimethylbenzene (p-Xylene) | A8 | 0.0231 | 0.1170 | 0.009 | 0.009 |
| 3,4-Dimethylheptane | I9 | 0.0007 | 0.0043 | 0.000 | 0.000 |
| 3,4-Dimethylheptane (2) | I9 | 0.0007 | 0.0043 | 0.000 | 0.000 |
| 4-Ethylheptane | I9 | 0.0011 | 0.0067 | 0.001 | 0.001 |
| 4-Methyloctane | I9 | 0.0076 | 0.0465 | 0.004 | 0.004 |
| 2-Methyloctane | I9 | 0.0118 | 0.0722 | 0.007 | 0.007 |
| 1c,2t,3-Trimethylcyclohexane | N9 | 0.0005 | 0.0030 | 0.000 | 0.000 |
| 3-Ethylheptane | I9 | 0.0005 | 0.0031 | 0.000 | 0.000 |
| 3-Methyloctane | I9 | 0.0016 | 0.0098 | 0.001 | 0.001 |
| 1c,2t,4c-Trimethylcyclohexane | I9 | 0.0114 | 0.0687 | 0.006 | 0.006 |
| 1,1,2-Trimethylcyclohexane | N9 | 0.0004 | 0.0024 | 0.000 | 0.000 |
| 3,3-Diethylpentane | I9 | 0.0006 | 0.0037 | 0.000 | 0.000 |
| 1,2-Dimethylbenzene (o-Xylene) | A8 | 0.0126 | 0.0638 | 0.005 | 0.005 |
| i-Butylcyclopentane | N9 | 0.0065 | 0.0392 | 0.003 | 0.003 |
| n-Nonane | P9 | 0.0568 | 0.3476 | 0.032 | 0.032 |
| 1,1-Methylethylcyclohexane | N9 | 0.0032 | 0.0193 | 0.002 | 0.002 |
| i-Propylbenzene | A9 | 0.0016 | 0.0092 | 0.001 | 0.001 |
| i-Propylcyclohexane | N9 | 0.0010 | 0.0060 | 0.001 | 0.001 |
| 2,2-Dimethyloctane | I10 | 0.0005 | 0.0034 | 0.000 | 0.000 |
| 2,4-Dimethyloctane | I10 | 0.0016 | 0.0109 | 0.001 | 0.001 |
| 2,6-Dimethyloctane | I10 | 0.0008 | 0.0054 | 0.000 | 0.000 |
| 2,5-Dimethyloctane | I10 | 0.0003 | 0.0021 | 0.000 | 0.000 |
| n-Butylcyclopentane | N9 | 0.0070 | 0.0422 | 0.004 | 0.004 |
| 3,3-Dimethyloctane | I10 | 0.0006 | 0.0041 | 0.000 | 0.000 |
| n-Propylbenzene | A9 | 0.0074 | 0.0424 | 0.003 | 0.003 |
| 3,6-Dimethyloctane | I10 | 0.0019 | 0.0129 | 0.001 | 0.001 |
| 3-Methyl-5-ethylheptane | I10 | 0.0005 | 0.0034 | 0.000 | 0.000 |
| 1,3-Methylethylbenzene | A9 | 0.0073 | 0.0419 | 0.004 | 0.004 |
| 1,4-Methylethylbenzene | A9 | 0.0028 | 0.0161 | 0.002 | 0.002 |
| 1,3,5-Trimethylbenzene | A9 | 0.0118 | 0.0677 | 0.005 | 0.005 |
| 2,3-Dimethyloctane | I10 | 0.0015 | 0.0102 | 0.001 | 0.001 |
| 5-Methylnonane | I10 | 0.0042 | 0.0285 | 0.002 | 0.002 |
| 1,2-Methylethylbenzene | A9 | 0.0061 | 0.0350 | 0.003 | 0.003 |
| 2-Methylnonane | I10 | 0.0010 | 0.0068 | 0.001 | 0.001 |
| 3-Ethylheptane | I10 | 0.0009 | 0.0061 | 0.001 | 0.001 |
| 3-Methylnonane | I10 | 0.0039 | 0.0265 | 0.002 | 0.002 |
| 1,2,4-Trimethylbenzene | A9 | 0.0002 | 0.0012 | 0.000 | 0.000 |
| t-Butylbenzene | A10 | 0.0111 | 0.0711 | 0.005 | 0.005 |
| i-Butylcyclohexane | N10 | 0.0016 | 0.0107 | 0.001 | 0.001 |
| 1t-Methyl-2-n-propylcyclohexane | I10 | 0.0005 | 0.0033 | 0.000 | 0.000 |
| i-Butylbenzene | A10 | 0.0002 | 0.0013 | 0.000 | 0.000 |
| sec-Butylbenzene | A10 | 0.0004 | 0.0026 | 0.000 | 0.000 |
| UnknownC9s | U9 | 0.0068 | 0.0416 | 0.004 | 0.004 |
| n-Decane | P10 | 0.0328 | 0.2227 | 0.020 | 0.020 |
| 1,2,3-Trimethylbenzene | A9 | 0.0002 | 0.0012 | 0.000 | 0.000 |
| 1,3-Methyl-i-propylbenzene | A10 | 0.0013 | 0.0083 | 0.001 | 0.001 |
| 1,4-Methyl-i-propylbenzene | A10 | 0.0011 | 0.0071 | 0.001 | 0.001 |
| Sec-Butylcyclohexane | A10 | 0.0005 | 0.0033 | 0.000 | 0.000 |
| 1,2-Methyl-i-propylbenzene | A10 | 0.0004 | 0.0026 | 0.000 | 0.000 |
| 3-Ethylnonane | I10 | 0.0015 | 0.0112 | 0.001 | 0.001 |
| 1,3-Diethylbenzene | A10 | 0.0049 | 0.0314 | 0.003 | 0.003 |
| 1,3-Methyl-n-propylbenzene | A10 | 0.0027 | 0.0173 | 0.002 | 0.002 |
| 1,4-Diethylbenzene | A10 | 0.0009 | 0.0058 | 0.000 | 0.000 |
| 1,4-Methyl-n-propylbenzene | A10 | 0.0002 | 0.0013 | 0.000 | 0.000 |
| n-Butylbenzene | A10 | 0.0021 | 0.0135 | 0.001 | 0.001 |
| 1,3-Dimethyl-5-ethylbenzene | A10 | 0.0008 | 0.0051 | 0.001 | 0.001 |

| | | | | | |
|-------------------------------|-----|----------|----------|--------|--------|
| 1,2-Diethylbenzene | A10 | 0.0019 | 0.0122 | 0.001 | 0.001 |
| t-Decahydronaphthalene | A9 | 0.0007 | 0.0052 | 0.000 | 0.000 |
| 1,2-Methyl-n-propylbenzene | A10 | 0.0012 | 0.0077 | 0.001 | 0.001 |
| 1,3-Dimethyl-4-ethylbenzene | A10 | 0.0022 | 0.0141 | 0.001 | 0.001 |
| 1,2-Dimethyl-4-ethylbenzene | A10 | 0.0007 | 0.0045 | 0.000 | 0.000 |
| 1,3-Dimethyl-2-ethylbenzene | A10 | 0.0015 | 0.0096 | 0.001 | 0.001 |
| 1,2-Dimethyl-3-ethylbenzene | A10 | 0.0004 | 0.0026 | 0.000 | 0.000 |
| 1,2-Ethyl-i-propylbenzene | A10 | 0.0006 | 0.0043 | 0.000 | 0.000 |
| 1,4-Methyl-t-butylbenzene | A11 | 0.0009 | 0.0064 | 0.001 | 0.001 |
| UnknownC10s | U10 | 0.0159 | 0.1079 | 0.010 | 0.010 |
| n-Undecane | P11 | 0.0144 | 0.1074 | 0.010 | 0.010 |
| 1,4-Ethyl-i-propylbenzene | A11 | 0.0004 | 0.0028 | 0.000 | 0.000 |
| 1,2,4,5-Tetramethylbenzene | A11 | 0.0004 | 0.0026 | 0.000 | 0.000 |
| 1,2-Methyl-n-butylbenzene | A11 | 0.0001 | 0.0007 | 0.000 | 0.000 |
| 1,2,3,5-Tetramethylbenzene | A11 | 0.0005 | 0.0032 | 0.000 | 0.000 |
| 1,2-Methyl-t-butylbenzene | A11 | 0.0002 | 0.0014 | 0.000 | 0.000 |
| 5-Methylindan | A11 | 0.0008 | 0.0051 | 0.001 | 0.001 |
| 4-Methylindan | A11 | 0.0002 | 0.0012 | 0.000 | 0.000 |
| 1,2-Ethyl-n-propylbenzene | A11 | 0.0008 | 0.0057 | 0.001 | 0.001 |
| 2-Methylindan | A11 | 0.0003 | 0.0019 | 0.000 | 0.000 |
| 1,3-Methyl-n-butylbenzene | A11 | 0.0002 | 0.0014 | 0.000 | 0.000 |
| 1,3-Di-i-propylbenzene | A11 | 0.0003 | 0.0023 | 0.000 | 0.000 |
| sec-Pentylbenzene | A11 | 0.0004 | 0.0028 | 0.000 | 0.000 |
| n-Pentylbenzene | A11 | 0.0004 | 0.0028 | 0.000 | 0.000 |
| 1,2-Di-n-propylbenzene | A11 | 0.0001 | 0.0008 | 0.000 | 0.000 |
| 1,4-Di-i-propylbenzene | A11 | 0.0001 | 0.0008 | 0.000 | 0.000 |
| Tetrahydronaphthalene | A10 | 0.0004 | 0.0025 | 0.000 | 0.000 |
| Naphthalene | A10 | 0.0008 | 0.0049 | 0.001 | 0.001 |
| 1-t-Butyl-3,5-dimethylbenzene | A12 | 0.0001 | 0.0008 | 0.000 | 0.000 |
| 1,4-Ethyl-t-butylbenzene | A11 | 0.0001 | 0.0008 | 0.000 | 0.000 |
| 1,3-Di-n-propylbenzene | A12 | 0.0002 | 0.0015 | 0.000 | 0.000 |
| UnknownC11s | U11 | 0.0066 | 0.0492 | 0.004 | 0.004 |
| n-Dodecane | P12 | 0.0047 | 0.0382 | 0.003 | 0.003 |
| 1,3,5-Triethylbenzene | A12 | 0.0009 | 0.0070 | 0.001 | 0.001 |
| 1,2,4-Triethylbenzene | A12 | 0.0001 | 0.0008 | 0.000 | 0.000 |
| 1,4-Methyl-n-pentylbenzene | A12 | 0.0002 | 0.0015 | 0.000 | 0.000 |
| n-Hexylbenzene | A12 | 0.0005 | 0.0039 | 0.000 | 0.000 |
| 1,2,3,4,5-Pentamethylbenzene | A13 | 0.0007 | 0.0050 | 0.001 | 0.001 |
| 2-Methylnaphthalene | A11 | 0.0003 | 0.0021 | 0.000 | 0.000 |
| 1-Methylnaphthalene | A11 | 0.0001 | 0.0007 | 0.000 | 0.000 |
| UnknownC12s | U12 | 0.0048 | 0.0358 | 0.003 | 0.003 |
| n-Tridecane | P13 | 0.0012 | 0.0106 | 0.001 | 0.001 |
| UnknownC13s | U13 | 0.0020 | 0.0176 | 0.002 | 0.002 |
| n-Tetradecane | P14 | 0.0003 | 0.0029 | 0.000 | 0.000 |
| UnknownC14s | U14 | 0.0007 | 0.0066 | 0.001 | 0.001 |
| n-Pentadecane | P15 | 0.0001 | 0.0010 | 0.000 | 0.000 |
| UnknownC15s | U15 | 0.0002 | 0.0020 | 0.000 | 0.000 |
| n-Hexadecane | P16 | 0.0001 | 0.0011 | 0.000 | 0.000 |
| UnknownC16s | U16 | 0.0005 | 0.0054 | 0.000 | 0.000 |
| UnknownC17s | U17 | 0.0001 | 0.0012 | 0.000 | 0.000 |
| n-Octadecane | P18 | 0.0001 | 0.0012 | 0.000 | 0.000 |
| UnknownC20s | U20 | 0.0001 | 0.0013 | 0.000 | 0.000 |
| TOTAL | | 100.0000 | 100.0000 | 4.3273 | 4.3496 |

| BTEX COMPONENTS | MOLE% | WT% |
|-----------------|--------|--------|
| BENZENE | 0.0441 | 0.1644 |
| TOLUENE | 0.1225 | 0.5386 |
| ETHYLBENZENE | 0.0112 | 0.0567 |
| XYLENES | 0.1058 | 0.5359 |
| TOTAL BTEX | 0.2836 | 1.2956 |

*(DETAILED HYDROCARBON ANALYSIS/NJ 1993)
Mod ASTM D6730, GPA 2261 & GPA 2286.

** (CALC: GPA 2172, GPA 2145 & TP-17 @14.696 & 60 F)

CALCULATED VALUES**

| BTU @ | 14.65 | 14.73 |
|--|-------------|-----------------|
| LHV NET DRY REAL : | 1107.3 /scf | 1113.3 /scf |
| NET WET REAL : | 1087.9 /scf | 1093.9 /scf |
| HHV GROSS DRY REAL : | 1220.5 /scf | 1227.2 /scf |
| GROSS WET REAL : | 1199.2 /scf | 1205.9 /scf |
| NET HEATING VALUE (60 °F ideal reaction): | | 20094.2 Btu/lbm |
| GROSS HEATING VALUE (60°F ideal reaction): | | 22154.7 Btu/lbm |
| RELATIVE DENSITY (AIR=1): | | 0.7222 |
| DENSITY | | 0.05522 lb/scf |
| COMPRESSIBILITY FACTOR : | | 0.9971 |
| REGULAR WOBBE INDEX | | 1436.5 |

C6+ Fraction of DHA Gas Analysis @60°F, 14.696 psia

| | | | | |
|---|--------------------|-------------------------------|-----------------------------|-------------------|
| Net Dry Ideal BTU | <u>5170.7</u> /scf | Relative Density - SG (Air=1) | <u>3.5815</u> | C6+factors |
| Gross Dry Ideal BTU | <u>5550</u> /scf | Z Compressibility Factor | <u>0.99536</u> | <u>0.99437</u> |
| Net Dry Ideal BTU | <u>19120.9</u> /lb | Density Factor | <u>273.301</u> lbm/1000 ft3 | |
| Gross Dry Ideal BTU | <u>20526.8</u> /lb | Molar Mass or MW | <u>103.713</u> g/mol | |
| | | Volume Liquid Ideal gas | <u>0.846</u> scf/gal | <u>22.4</u> |
| This hexanes plus fraction may be applied in place of published C6+ factors. The Z & GPM need additional calc for C6+ factors. | | | | |
| #DIV/0 or 0 (zero) will appear in this section when there is no hexanes plus in the sample to calculate C6+ factors. | | | | |

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