

EXTENDED NATURAL GAS ANALYSIS (*DHA)

MAIN PAGE

PRIMARY DB KEY: NAME/DESCRIP : **MARY JANE 8-5**
 LEASE #: **GAS AT SEPARATOR**

PROJECT NO. : **201712120** ANALYSIS NO. : **11**
 COMPANY NAME : **NIGHTHAWK PRODUCTION COMPANY** ANALYSIS DATE: **DECEMBER 22, 2017 11:52**
 OFFICE / BRANCH: **HIGHLANDS RANCH, CO** SAMPLE DATE : **DECEMBER 20, 2017 12:30**
 CUSTOMER REF: TO:
 PRODUCER : EFFECTIVE DATE:

*****FIELD DATA*****

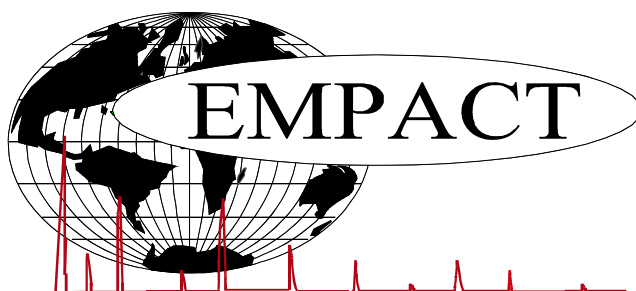
SAMPLE CYCLE: SAMPLE TYPE: **SPOT**
 SAMPLE PRES. : **23** psig PROBE : **NO**
 FLOW PRES. : psig CYLINDER NO. : **0350**
 LAB PRES: psig SAMPLED BY : **JOHN MOSER**
 SAMPLE TEMP. : **87.8** °f SAMPLING COMPANY: **EMPACT**
 AMBIENT TEMP.: °f H2S BY STAIN TUBE: **5.5** ppm
 H2O BY STAIN TUBE: #/mmcf CO2 BY STAIN TUBE: Mol %
 FIELD COMMENTS:
 LAB COMMENTS:

<u>COMPONENT</u>	<u>MOLE %</u>	<u>MASS %</u>	<u>GPM @ 14.730</u>	<u>GPM @ 14.650</u>
ALCOHOLS	0.0073	0.0099		
HELIUM	1.03	0.13	---	---
HYDROGEN	0.05	0.00	---	---
OXYGEN/ARGON	0.32	0.32	---	---
NITROGEN	49.7700	43.8100	---	---
CARBON DIOXIDE	2.16	2.99	---	---
METHANE	19.23600	9.69690	---	---
ETHANE	6.0752	5.7401	1.6302	1.6213
PROPANE	10.2225	14.1641	2.8249	2.8095
I-BUTANE	1.5890	2.9020	0.5219	0.5191
N-BUTANE	5.4177	9.8945	1.7136	1.7043
I-PENTANE	1.0974	2.4854	0.4003	0.3981
N-PENTANE	1.4586	3.3068	0.5300	0.5271
HEXANES PLUS	1.5663	4.5503	0.6532	0.6500
TOTALS	100.00000	100.00000	8.2741	8.2294

<u>BTEX COMPONENTS</u>	<u>MOLE%</u>	<u>WT%</u>	<u>BTU @</u>	<u>14.730</u>	<u>14.650</u>
BENZENE	0.0054	0.0133	LOW NET DRY REAL :	892.7 /scf	887.9 /scf
TOLUENE	0.0060	0.0174	NET WET REAL :	877.2 /scf	872.4 /scf
ETHYLBENZENE	0.0014	0.0047	HIGH GROSS DRY REAL :	973.1 /scf	967.8 /scf
XYLENES	0.0043	0.0143	GROSS WET REAL :	956.2 /scf	950.9 /scf
TOTAL BTEX	0.0171	0.0497	NET DRY REAL :	10666.3 /lb	10608.3 /lb
			GROSS DRY REAL :	11627.7 /lb	11564.5 /lb
			RELATIVE DENSITY (AIR=1):		1.0978
			DENSITY		0.08386 lb/scf
			COMPRESSIBILITY FACTOR :		0.99668
			REGULAR WOBBE INDEX		926.6

*(DETAILED HYDROCARBON ANALYSIS/NJ 1993) ; ASTM D6730,
 GPA 2261 & GPA 2286.
 (CALC: GPA 2172, GPA STD 2145 & TP-17 @14.696 & 60 F)

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.



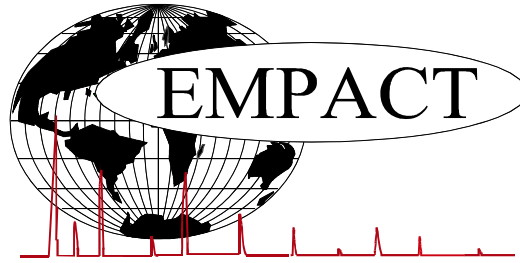
EXTENDED NATURAL GAS ANALYSIS (*DHA)

GLYCALC INFORMATION

PROJECT NO. :	201712120	ANALYSIS NO. :	11
COMPANY NAME :	NIGHTHAWK PRODUCTION COMPANY	ANALYSIS DATE:	DECEMBER 22, 2017 12:40
ACCOUNT NO. :		SAMPLE DATE :	DECEMBER 20, 2017 12:30
PRODUCER :		CYLINDER NO. :	0350
LEASE NO. :		SAMPLED BY :	JOHN MOSER
NAME/DESCRIP :	MARY JANE 8-5 GAS AT SEPARATOR		
FIELD DATA		SAMPLE TEMP. :	87.8
SAMPLE PRES. :	23	AMBIENT TEMP.:	
COMMENTS :	SPOT NO PROBE		

<u>Componet</u>	<u>Mole %</u>	<u>Wt %</u>
Helium	1.03	0.13
Hydrogen	0.05	0.00
Carbon Dioxide	2.16	2.99
Nitrogen	49.77	43.81
Methane	19.23600	9.69690
Ethane	6.0752	5.7401
Propane	10.2225	14.1641
Isobutane	1.5890	2.9020
n-Butane	5.4177	9.8945
Isopentane	1.0594	2.4017
n-Pentane	1.4586	3.3068
Cyclopentane	0.0380	0.0837
n-Hexane	0.4090	1.1075
Cyclohexane	0.0816	0.2158
Other Hexanes	0.5691	1.5354
Heptanes	0.2429	0.7614
Methycyclohexane	0.0766	0.2363
2,2,4 Trimethylpentane	0.0015	0.0054
Benzene	0.0054	0.0133
Toluene	0.0060	0.0174
Ethylbenzene	0.0014	0.0047
Xylenes	0.0043	0.0143
C8+ Heavies	0.1685	0.6388
<u>Subtotal</u>	<u>99.67270</u>	<u>99.67010</u>
Oxygen/Argon	0.32	0.32
Alcohols	0.0073	0.0099
Total	100.00000	100.00000

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**EXTENDED NATURAL GAS ANALYSIS (*DHA)
DHA COMPONENT LIST**

PRIMARY DB KEY:
LEASE #:

NAME/DESCRIP : **MARY JANE 8-5
GAS AT SEPARATOR**

PROJECT NO. : **201712120** ANALYSIS NO. : **11**
 COMPANY NAME : **NIGHTHAWK PRODUCTION COMPANY** ANALYSIS DATE: **DECEMBER 22, 2017 11:52**
 OFFICE / BRANCH: **HIGHLANDS RANCH, CO** SAMPLE DATE : **DECEMBER 20, 2017 12:30**
 CUSTOMER REF: TO:
 PRODUCER : EFFECTIVE DATE

*****FIELD DATA*****

SAMPLE CYCLE: SAMPLE TYPE: **SPOT**
 SAMPLE PRES. : **23** psig PROBE : **NO**
 FLOW PRES. : psig CYLINDER NO. : **0350**
 LAB PRES: psig SAMPLED BY : **JOHN MOSER**
 SAMPLE TEMP. : **87.8** °f SAMPLING COMPANY: **EMPACT**
 AMBIENT TEMP.: °f H2S BY STAIN TUBE: **5.5** ppm
 H2O BY STAIN TUBE: **-** #/mmcf CO2 BY STAIN TUBE: **-** Mol %
 FIELD COMMENTS:
 LAB COMMENTS:

COMPONENT	PIANO #	MOLE %	MASS %	GPM @ 14.730	GPM @ 14.650
Helium	---	1.03	0.13	---	---
Hydrogen	---	0.05	0.00	---	---
Oxygen/Argon	---	0.32	0.32	---	---
Nitrogen	---	49.77	43.81	---	---
Carbon Dioxide	---	2.16	2.99	---	---
Methane	P1	19.23600	9.69690	---	---
Ethane	P2	6.0752	5.7401	1.630	1.621
Propane	P3	10.2225	14.1641	2.825	2.810
i-Butane	I4	1.5890	2.9020	0.522	0.519
Methanol	X1	0.0017	0.0017	0.000	0.000
n-Butane	P4	5.4175	9.8941	1.714	1.704
2,2-Dimethylpropane	I5	0.0068	0.0154	0.003	0.003
Ethanol	X2	0.0055	0.0080	0.001	0.001
i-Pentane	I5	1.0526	2.3863	0.386	0.384
i-Propanol	X3	0.0001	0.0002	0.000	0.000
UnknownC4s	U4	0.0002	0.0004	0.000	0.000
n-Pentane	P5	1.4576	3.3045	0.530	0.527
2,2-Dimethylbutane	I6	0.0058	0.0157	0.002	0.002
Cyclopentane	N5	0.0380	0.0837	0.011	0.011
2,3-Dimethylbutane	I6	0.0231	0.0626	0.009	0.009
2-Methylpentane	I6	0.2175	0.5889	0.091	0.090
3-Methylpentane	I6	0.2305	0.6242	0.095	0.094
UnknownC5s	U5	0.0010	0.0023	0.000	0.000
n-Hexane	P6	0.4090	1.1075	0.169	0.168
2,2-Dimethylpentane	I7	0.0003	0.0009	0.000	0.000
Methylcyclopentane	N6	0.0901	0.2383	0.032	0.032

2,4-Dimethylpentane	I7	0.0054	0.0170	0.003	0.003
2,2,3-Trimethylbutane	I7	0.0005	0.0016	0.000	0.000
Benzene	A6	0.0054	0.0133	0.002	0.002
3,3-Dimethylpentane	I7	0.0006	0.0019	0.000	0.000
Cyclohexane	N6	0.0816	0.2158	0.028	0.028
2-Methylhexane	I7	0.0190	0.0598	0.009	0.009
2,3-Dimethylpentane	I7	0.0135	0.0425	0.006	0.006
1,1-Dimethylcyclopentane	N7	0.0090	0.0278	0.004	0.004
3-Methylhexane	I7	0.0360	0.1133	0.016	0.016
1c,3-Dimethylcyclopentane	N7	0.0143	0.0441	0.007	0.007
1t,3-Dimethylcyclopentane	N7	0.0081	0.0250	0.004	0.004
3-Ethylpentane	I7	0.0044	0.0139	0.002	0.002
1t,2-Dimethylcyclopentane	N7	0.0212	0.0654	0.010	0.010
2,2,4-Trimethylpentane	I8	0.0015	0.0054	0.001	0.001
UnknownC6s	U6	0.0021	0.0057	0.001	0.001
n-Heptane	P7	0.0910	0.2865	0.042	0.042
1c,2-Dimethylcyclopentane	N7	0.0020	0.0062	0.001	0.001
Methylcyclohexane	N7	0.0766	0.2363	0.031	0.031
2,2-Dimethylhexane	I8	0.0054	0.0194	0.002	0.002
1,1,3-Trimethylcyclopentane	N7	0.0010	0.0035	0.000	0.000
Ethylcyclopentane	N7	0.0036	0.0111	0.001	0.001
2,5-Dimethylhexane	I8	0.0017	0.0061	0.001	0.001
2,2,3-Trimethylpentane	I8	0.0007	0.0025	0.000	0.000
2,4-Dimethylhexane	I8	0.0020	0.0072	0.001	0.001
1c,2t,4-Trimethylcyclopentane	N8	0.0054	0.0190	0.002	0.002
3,3-Dimethylhexane	I8	0.0002	0.0007	0.000	0.000
1t,2c,4-Trimethylcyclopentane	N8	0.0046	0.0162	0.002	0.002
2,3,4-Trimethylpentane	I8	0.0001	0.0004	0.000	0.000
2,3,3-Trimethylpentane	I8	0.0001	0.0004	0.000	0.000
Toluene	A7	0.0060	0.0174	0.002	0.002
2,3-Dimethylhexane	I8	0.0023	0.0083	0.001	0.001
2-Methyl-3-ethylpentane	I8	0.0007	0.0025	0.000	0.000
1,1,2-Trimethylcyclopentane	N8	0.0001	0.0004	0.000	0.000
2-Methylheptane	I8	0.0150	0.0538	0.008	0.008
4-Methylheptane	I8	0.0027	0.0097	0.001	0.001
3-Methyl-3-ethylpentane	I8	0.0025	0.0090	0.001	0.001
3,4-Dimethylhexane	I8	0.0005	0.0018	0.000	0.000
1c,2c,4-Trimethylcyclopentane	N8	0.0002	0.0007	0.000	0.000
1c,3-Dimethylcyclohexane	N8	0.0005	0.0018	0.000	0.000
3-Methylheptane	I8	0.0053	0.0190	0.003	0.003
1c,2t,3-Trimethylcyclopentane	N8	0.0116	0.0409	0.006	0.006
3-Ethylhexane	I8	0.0022	0.0079	0.001	0.001
1t,4-Dimethylcyclohexane	N8	0.0035	0.0124	0.002	0.002
1,1-Dimethylcyclohexane	N8	0.0009	0.0032	0.000	0.000
2,2,5-Trimethylhexane	I9	0.0001	0.0004	0.000	0.000
3t-Ethylmethylcyclopentane	N8	0.0009	0.0032	0.000	0.000
2t-Ethylmethylcyclopentane	N8	0.0007	0.0025	0.000	0.000
1,1-Methylethylcyclopentane	N8	0.0017	0.0060	0.001	0.001
2,2,4-Trimethylhexane	I9	0.0002	0.0008	0.000	0.000
1t,2-Dimethylcyclohexane	N8	0.0031	0.0109	0.002	0.002
1c,2c,3-Trimethylcyclopentane	N8	0.0006	0.0021	0.000	0.000
UnknownC7s	U7	0.0130	0.0409	0.006	0.006
n-Octane	P8	0.0248	0.0890	0.013	0.013
1c,4-Dimethylcyclohexane	N8	0.0012	0.0042	0.001	0.001
i-Propylcyclopentane	I8	0.0003	0.0011	0.000	0.000
2,4,4-Trimethylhexane	I9	0.0002	0.0008	0.000	0.000
2,3,5-Trimethylhexane	I9	0.0005	0.0020	0.000	0.000
2,2,3,4-Tetramethylpentane	I9	0.0003	0.0012	0.000	0.000
2,3,4-Trimethylhexane	I9	0.0002	0.0008	0.000	0.000

1c,2-Dimethylcyclohexane	N8	0.0007	0.0025	0.000	0.000
2,2-Dimethylheptane	I9	0.0001	0.0004	0.000	0.000
1,1,4-Trimethylcyclohexane	N9	0.0047	0.0186	0.002	0.002
2,2,3-Trimethylhexane	I9	0.0026	0.0105	0.001	0.001
2,4-Dimethylheptane	I9	0.0002	0.0008	0.000	0.000
4,4-Dimethylheptane	I9	0.0003	0.0012	0.000	0.000
Ethylcyclohexane	N8	0.0017	0.0060	0.001	0.001
n-Propylcyclopentane	N8	0.0016	0.0057	0.001	0.001
1c,3c,5-Trimethylcyclohexane	N9	0.0003	0.0012	0.000	0.000
2,5-Dimethylheptane	I9	0.0004	0.0016	0.000	0.000
3,3-Dimethylheptane	I9	0.0001	0.0004	0.000	0.000
3,5-Dimethylheptane	I9	0.0002	0.0008	0.000	0.000
2,6-Dimethylheptane	I9	0.0002	0.0008	0.000	0.000
1,1,3-Trimethylcyclohexane	N9	0.0003	0.0012	0.000	0.000
Ethylbenzene	I8	0.0014	0.0047	0.001	0.001
1c,2t,4t-Trimethylcyclohexane	N9	0.0008	0.0032	0.000	0.000
2,3-Dimethylheptane	I9	0.0002	0.0008	0.000	0.000
1,3-Dimethylbenzene (m-Xylene)	A8	0.0021	0.0070	0.001	0.001
1,4-Dimethylbenzene (p-Xylene)	A8	0.0012	0.0040	0.000	0.000
3,4-Dimethylheptane	I9	0.0002	0.0008	0.000	0.000
3,4-Dimethylheptane (2)	I9	0.0005	0.0020	0.000	0.000
4-Ethylheptane	I9	0.0003	0.0012	0.000	0.000
2-Methyloctane	I9	0.0017	0.0069	0.001	0.001
1c,2t,3-Trimethylcyclohexane	N9	0.0016	0.0064	0.001	0.001
3-Ethylheptane	I9	0.0006	0.0024	0.000	0.000
3-Methyloctane	I9	0.0029	0.0117	0.002	0.002
1,2-Dimethylbenzene (o-Xylene)	A8	0.0010	0.0033	0.000	0.000
i-Butylcyclopentane	N9	0.0011	0.0044	0.001	0.001
UnknownC8s	U8	0.0015	0.0054	0.001	0.001
n-Nonane	P9	0.0093	0.0375	0.005	0.005
1,1-Methylethylcyclohexane	N9	0.0002	0.0008	0.000	0.000
i-Propylbenzene	A9	0.0008	0.0030	0.000	0.000
i-Propylcyclohexane	N9	0.0004	0.0016	0.000	0.000
2,2-Dimethyloctane	I10	0.0002	0.0009	0.000	0.000
2,4-Dimethyloctane	I10	0.0002	0.0009	0.000	0.000
2,6-Dimethyloctane	I10	0.0001	0.0004	0.000	0.000
n-Butylcyclopentane	N9	0.0012	0.0047	0.001	0.001
3,3-Dimethyloctane	I10	0.0003	0.0014	0.000	0.000
n-Propylbenzene	A9	0.0013	0.0049	0.001	0.001
3,6-Dimethyloctane	I10	0.0002	0.0009	0.000	0.000
3-Methyl-5-ethylheptane	I10	0.0004	0.0018	0.000	0.000
1,3-Methylethylbenzene	A9	0.0005	0.0019	0.000	0.000
1,4-Methylethylbenzene	A9	0.0002	0.0008	0.000	0.000
1,3,5-Trimethylbenzene	A9	0.0005	0.0019	0.000	0.000
2,3-Dimethyloctane	I10	0.0002	0.0009	0.000	0.000
1,2-Methylethylbenzene	A9	0.0012	0.0045	0.001	0.001
2-Methylnonane	I10	0.0001	0.0004	0.000	0.000
3-Ethyloctane	I10	0.0002	0.0009	0.000	0.000
3-Methylnonane	I10	0.0005	0.0022	0.000	0.000
1,2,4-Trimethylbenzene	A9	0.0001	0.0004	0.000	0.000
t-Butylbenzene	A10	0.0005	0.0021	0.000	0.000
i-Butylcyclohexane	N10	0.0003	0.0013	0.000	0.000
1t-Methyl-2-n-propylcyclohexane	I10	0.0001	0.0004	0.000	0.000
i-Butylbenzene	A10	0.0001	0.0004	0.000	0.000
sec-Butylbenzene	A10	0.0001	0.0004	0.000	0.000
UnknownC9s	U9	0.0057	0.0230	0.003	0.003
n-Decane	P10	0.0030	0.0134	0.002	0.002
1,2,3-Trimethylbenzene	A9	0.0002	0.0008	0.000	0.000
1,3-Methyl-i-propylbenzene	A10	0.0001	0.0004	0.000	0.000

1,4-Methyl-i-propylbenzene	A10	0.0001	0.0004	0.000	0.000
Sec-Butylcyclohexane	A10	0.0001	0.0004	0.000	0.000
1,2-Methyl-i-propylbenzene	A10	0.0006	0.0026	0.000	0.000
3-Ethylnonane	I10	0.0001	0.0005	0.000	0.000
1,3-Diethylbenzene	A10	0.0003	0.0013	0.000	0.000
1,3-Methyl-n-propylbenzene	A10	0.0001	0.0004	0.000	0.000
1,4-Methyl-n-propylbenzene	A10	0.0002	0.0009	0.000	0.000
1,3-Dimethyl-5-ethylbenzene	A10	0.0001	0.0004	0.000	0.000
1,2-Diethylbenzene	A10	0.0001	0.0004	0.000	0.000
t-Decahydronaphthalene	A9	0.0001	0.0005	0.000	0.000
1,2-Methyl-n-propylbenzene	A10	0.0001	0.0004	0.000	0.000
1,4-Dimethyl-2-ethylbenzene	A10	0.0002	0.0009	0.000	0.000
1,2-Dimethyl-3-ethylbenzene	A10	0.0001	0.0004	0.000	0.000
1,4-Methyl-t-butylbenzene	A11	0.0002	0.0009	0.000	0.000
UnknownC10s	U10	0.0053	0.0237	0.003	0.003
n-Undecane	P11	0.0009	0.0044	0.001	0.001
1,4-Ethyl-i-propylbenzene	A11	0.0001	0.0005	0.000	0.000
1,2,3,5-Tetramethylbenzene	A11	0.0001	0.0004	0.000	0.000
1,2-Methyl-t-butylbenzene	A11	0.0001	0.0005	0.000	0.000
1,2-Ethyl-n-propylbenzene	A11	0.0001	0.0005	0.000	0.000
sec-Pentylbenzene	A11	0.0001	0.0005	0.000	0.000
1,4-Di-i-propylbenzene	A11	0.0001	0.0005	0.000	0.000
Naphthalene	A10	0.0001	0.0004	0.000	0.000
UnknownC11s	U11	0.0017	0.0084	0.001	0.001
n-Dodecane	P12	0.0004	0.0021	0.000	0.000
1,3,5-Triethylbenzene	A12	0.0001	0.0005	0.000	0.000
1,2,3,4,5-Pentamethylbenzene	A13	0.0001	0.0005	0.000	0.000
UnknownC12s	U12	0.0002	0.0010	0.000	0.000
n-Tridecane	P13	0.0002	0.0012	0.000	0.000
UnknownC13s	U13	0.0001	0.0006	0.000	0.000
n-Tetradecane	P14	0.0001	0.0006	0.000	0.000
UnknownC14s	U14	0.0002	0.0013	0.000	0.000
n-Pentadecane	P15	0.0001	0.0007	0.000	0.000
TOTAL		100.00000	100.00000	8.2751	8.2304

BTEX COMPONENTS	MOLE%	WT%	BTU @	14.730	14.650
BENZENE	0.0054	0.0133	LOW NET DRY REAL :	892.7 /scf	887.9 /scf
TOLUENE	0.0060	0.0174	NET WET REAL :	877.2 /scf	872.4 /scf
ETHYLBENZENE	0.0014	0.0047	HIGH GROSS DRY REAL :	973.1 /scf	967.8 /scf
XYLENES	0.0043	0.0143	GROSS WET REAL :	956.2 /scf	950.9 /scf
TOTAL BTEX	0.0171	0.0497	NET DRY REAL :	10666.3 /lb	10608.3 /lb
			GROSS DRY REAL :	11627.7 /lb	11564.5 /lb
			RELATIVE DENSITY (AIR=1):		1.0978
			DENSITY		0.08386 lb/scf
			COMPRESSIBILITY FACTOR :		0.99668
			REGULAR WOBBE INDEX		926.6

*(DETAILED HYDROCARBON ANALYSIS/NJ 1993) ; ASTM D6730,
GPA 2261 & GPA 2286.
(CALC: GPA 2172, GPA STD 2145 & TP-17 @ 14.696 & 60 F)

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

Net Dry Ideal BTU	4681 /scf	Relative Density - SG (Air=1)	3.1916	C6+ factors
Gross Dry Ideal BTU	5046 /scf	Z Compressibility Factor	0.9907	0.98991
Net Dry Ideal BTU	19388.7 /lb	Density Factor	243.575 lbm/1000 ft3	
Gross Dry Ideal BTU	20900.9 /lb	Molar Mass or MW	92.421 g/mol	
		Volume Liquid Ideal gas	0.65 scf/gal	23.3

This hexanes plus fraction may be applied in place of published C6+ factors. The Z & GPM need additional calc for C6+ factors.

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