EMPACT

EXTENDED NATURAL GAS ANALYSIS (*DHA)

MAIN PAGE

PRIMARY DB KEY:	**05-103-10192**	NAME/DESCRIP :	**PCU F27X-8G**
LEASE #:			**PRODUCTION CASING**
FIELD/AREA:			

PROJECT NO. :	**202509081**	ANALYSIS NO. :	**01**
COMPANY NAME :	**QB ENERGY OPERATING, LLC**	ANALYSIS DATE:	SEPTEMBER 22, 2025 20:36
OFFICE / BRANCH:	PARACHUTE, CO	SAMPLE DATE :	SEPTEMBER 10, 2025
CUSTOMER REF:		TO:	
PRODUCER :		EFFECTIVE DATE:	

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

SAMPLE CYCLE:		SAMPLE TYPE:	
SAMPLE PRES. :	1971 psig	PROBE :	
FLOW PRES. :	psig	CYLINDER NO. :	0264
LAB PRES:	psig	SAMPLED BY :	NICK CROY
SAMPLE TEMP. :	ºf	SAMPLING COMPANY:	QB ENERGY
AMBIENT TEMP.:	ºf	H2S BY STAIN TUBE:	ppm mol
H2O BY STAIN TUBE:	#/mmcf	CO2 BY STAIN TUBE:	Mol %

FIELD COMMENTS:

LAB COMMENTS:

COMPONENT	MOLE %	MASS %	GPM @ 14.65	GPM @ 14.73
ALCOHOLS	0.0053	0.0089	0.0010	0.0010
HELIUM	0.00	0.00	---	---
HYDROGEN	0.15	0.02	---	---
OXYGEN/ARGON	0.00	0.00	---	---
NITROGEN	0.15	0.22	---	---
CARBON DIOXIDE	1.63	3.76	---	---
METHANE	87.3507	73.3390	---	---
ETHANE	7.2325	11.3818	1.9280	1.9386
PROPANE	1.7886	4.1277	0.4908	0.4934
I-BUTANE	0.3238	0.9850	0.1059	0.1065
N-BUTANE	0.3990	1.2137	0.1249	0.1256
I-PENTANE	0.2031	0.7669	0.0740	0.0744
N-PENTANE	0.1163	0.4392	0.0420	0.0422
HEXANES PLUS	0.6507	3.7378	0.2950	0.2955
TOTALS	100.00000	100.00000	3.0616	3.0772

BTEX COMPONENTS	MOLE%	WT%
BENZENE	0.0131	0.0535
TOLUENE	0.0364	0.1755
ETHYLBENZENE	0.0029	0.0161
XYLENES	0.0276	0.1534
TOTAL BTEX	0.0800	0.3985

CALCULATED VALUES**

	BTU @	14.65	14.73
LHV	NET DRY REAL :	1020.8 **/scf**	1026.4 **/scf**
	NET WET REAL :	1003.0 **/scf**	1008.6 **/scf**
HHV	GROSS DRY REAL :	1128.4 **/scf**	1134.6 **/scf**
	GROSS WET REAL :	1108.7 **/scf**	1114.9 **/scf**

NET HEATING VALUE (60 °F ideal reaction):	20313.2 **Btu/lbm**
GROSS HEATING VALUE (60°F ideal reaction):	22458.0 **Btu/lbm**
RELATIVE DENSITY (AIR=1):	0.6583
DENSITY	0.05034 **lbm/scf**
COMPRESSIBILITY FACTOR :	0.9974
REGULAR WOBBE INDEX	1391.5

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

***(CALC: GPA 2172, GPA 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.

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EXTENDED NATURAL GAS ANALYSIS (*DHA)

GLYCALC INFORMATION

PROJECT NO. :	202509081	ANALYSIS NO. :	01
COMPANY NAME :	QB ENERGY OPERATING, LLC	ANALYSIS DATE:	SEPTEMBER 22, 2025 20:36
ACCOUNT NO. :		SAMPLE DATE :	SEPTEMBER 10, 2025
PRODUCER :		CYLINDER NO. :	0264
LEASE NO. :		SAMPLED BY :	NICK CROY
NAME/DESCRIP :	PCU F27X-8G PRODUCTION CASING		
FIELD DATA		SAMPLE TEMP. :	
SAMPLE PRES. :	1971	AMBIENT TEMP.:	
H2S BY STAIN TUBE:	_ *ppm mol*		
COMMENTS :			

Componet	Mole %	Wt %
Helium	0.00	0.00
Hydrogen	0.15	0.02
Carbon Dioxide	1.63	3.76
Nitrogen	0.15	0.22
Methane	87.3507	73.3390
Ethane	7.2325	11.3818
Propane	1.7886	4.1277
Isobutane	0.3238	0.9850
n-Butane	0.3990	1.2137
Isopentane	0.2025	0.7647
n-Pentane	0.1163	0.4392
Cyclopentane	0.0006	0.0022
n-Hexane	0.0455	0.2052
Cyclohexane	0.0217	0.0956
Other Hexanes	0.1066	0.4783
Heptanes	0.0932	0.4869
Methylcyclohexane	0.0657	0.3376
2,2,4 Trimethylpentane	0.0000	0.0000
Benzene	0.0131	0.0535
Toluene	0.0364	0.1755
Ethylbenzene	0.0029	0.0161
Xylenes	0.0276	0.1534
C8+ Heavies	0.2380	1.7357
Subtotal	99.99470	99.99110
Oxygen/Argon	0.00	0.00
Alcohols	0.0053	0.0089
Total	100.00000	100.00000

Calculated Values BTU @ **14.65**		**Total Sample**	**C6+ Fraction**	**C8+ Fraction**	**C10+ Fraction**	
LHV	Net Dry Real:	1020.8	5502.9	6782.8	8189.3	**Btu/scf**
	Net Wet Real:	1003.0	5406.7	6664.2	8046.1	**Btu/scf**
HHV	Gross Dry Real:	1128.4	5913.8	7298.8	8844.1	**Btu/scf**
	Gross Wet Real:	1108.7	5810.4	7171.2	8689.5	**Btu/scf**
Other Calculated Values						
Regualr Wobbe Index*		1391.5	3034.2	3381.4	3751.4	**Btu/scf**
Net Heating Value (60 °F ideal reaction):		20313.2	19055.0	19011.1	18791.0	**Btu/lbm**
Gross Heating Value (60°F ideal reaction):		22458.0	20481.0	20457.4	20287.4	**Btu/lbm**
Molar Mass (MW):		19.10552	109.755	135.569	161.923	**g/mol**
Relative Density (AIR=1):		0.6583	3.7902	4.6797	5.5913	**SG**
Density:		0.05034	0.28921	0.35723	0.42670	**lbm/scf**
Compressiblity Factor:		0.9974	0.9958	0.9991	0.9999	**Z**
Liquid Volume real gas @:	**14.65**	18.0842	0.2941	0.1416	0.0698	**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 uderscore) indicates there was no tube pulled for H2S.

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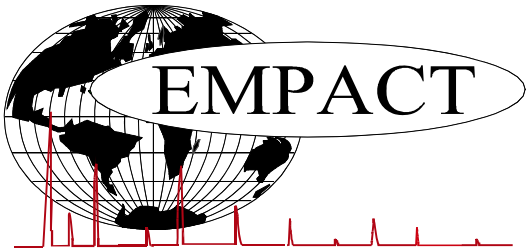

EXTENDED NATURAL GAS ANALYSIS (*DHA)

DHA COMPONENT LIST

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PRODUCER : EFFECTIVE DATE:
FIELD DATA
SAMPLE CYCLE: SAMPLE TYPE:
SAMPLE PRES. : 1971 psig PROBE :
FLOW PRES. : psig CYLINDER NO. : 0264
LAB PRES: psig SAMPLED BY : NICK CROY
SAMPLE TEMP. : ºf SAMPLING COMPANY: QB ENERGY
AMBIENT TEMP.: ºf H2S BY STAIN TUBE: _ ppm mol
H2O BY STAIN TUBE: - #/mmcf CO2 BY STAIN TUBE: - Mol %
FIELD COMMENTS:
LAB COMMENTS:

COMPONENT	PIANO #	MOLE %	MASS %	GPM @ **14.65**	GPM @ **14.73**
Hydrogen	---	0.15	0.02	---	---
Nitrogen	---	0.15	0.22	---	---
Carbon Dioxide	---	1.63	3.76	---	---
Methane	P1	87.3507	73.3390	---	---
Ethane	P2	7.2325	11.3818	1.928	1.939
Propane	P3	1.7886	4.1277	0.491	0.493
i-Butane	I4	0.3238	0.9850	0.106	0.107
Methanol	X1	0.0053	0.0089	0.001	0.001
n-Butane	P4	0.3990	1.2137	0.125	0.126
2,2-Dimethylpropane	I5	0.0040	0.0151	0.002	0.002
i-Pentane	I5	0.1985	0.7496	0.072	0.072
n-Pentane	P5	0.1163	0.4392	0.042	0.042
2,2-Dimethylbutane	I6	0.0069	0.0311	0.003	0.003
Cyclopentane	N5	0.0006	0.0022	0.000	0.000
2,3-Dimethylbutane	I6	0.0114	0.0514	0.005	0.005
2-Methylpentane	I6	0.0422	0.1903	0.017	0.017
3-Methylpentane	I6	0.0238	0.1073	0.010	0.010
n-Hexane	P6	0.0455	0.2052	0.019	0.019
2,2-Dimethylpentane	I7	0.0021	0.0110	0.001	0.001
Methylcyclopentane	N6	0.0223	0.0982	0.008	0.008
2,4-Dimethylpentane	I7	0.0033	0.0173	0.002	0.002
2,2,3-Trimethylbutane	I7	0.0009	0.0047	0.000	0.000
Benzene	A6	0.0131	0.0535	0.004	0.004
3,3-Dimethylpentane	I7	0.0012	0.0063	0.001	0.001
Cyclohexane	N6	0.0217	0.0956	0.007	0.007
2-Methylhexane	I7	0.0150	0.0787	0.007	0.007
2,3-Dimethylpentane	I7	0.0041	0.0215	0.002	0.002
1,1-Dimethylcyclopentane	N7	0.0032	0.0164	0.001	0.001
3-Methylhexane	I7	0.0137	0.0719	0.006	0.006

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1c,3-Dimethylcyclopentane	N7	0.0046	0.0237	0.002	0.002
1t,3-Dimethylcyclopentane	N7	0.0043	0.0221	0.002	0.002
3-Ethylpentane	I7	0.0008	0.0042	0.000	0.000
1t,2-Dimethylcyclopentane	N7	0.0068	0.0350	0.003	0.003
n-Heptane	P7	0.0304	0.1594	0.014	0.014
1c,2-Dimethylcyclopentane	N7	0.0005	0.0026	0.000	0.000
Methylcyclohexane	N7	0.0657	0.3376	0.026	0.026
2,2-Dimethylhexane	I8	0.0018	0.0108	0.001	0.001
1,1,3-Trimethylcyclopentane	N7	0.0003	0.0018	0.000	0.000
Ethylcyclopentane	N7	0.0020	0.0103	0.001	0.001
2,5-Dimethylhexane	I8	0.0020	0.0119	0.001	0.001
2,2,3-Trimethylpentane	I8	0.0018	0.0108	0.001	0.001
2,4-Dimethylhexane	I8	0.0001	0.0006	0.000	0.000
1c,2t,4-Trimethylcyclopentane	N8	0.0012	0.0071	0.001	0.001
3,3-Dimethylhexane	I8	0.0006	0.0036	0.000	0.000
2,3,3-Trimethylpentane	I8	0.0001	0.0006	0.000	0.000
Toluene	A7	0.0364	0.1755	0.012	0.012
2,3-Dimethylhexane	I8	0.0015	0.0089	0.001	0.001
2-Methyl-3-ethylpentane	I8	0.0001	0.0006	0.000	0.000
2-Methylheptane	I8	0.0081	0.0484	0.004	0.004
4-Methylheptane	I8	0.0025	0.0150	0.001	0.001
3-Methyl-3-ethylpentane	I8	0.0002	0.0012	0.000	0.000
3,4-Dimethylhexane	I8	0.0002	0.0012	0.000	0.000
1c,2c,4-Trimethylcyclopentane	N8	0.0001	0.0006	0.000	0.000
1c,3-Dimethylcyclohexane	N8	0.0001	0.0006	0.000	0.000
3-Methylheptane	I8	0.0064	0.0383	0.003	0.003
1c,2t,3-Trimethylcyclopentane	N8	0.0104	0.0611	0.005	0.005
3-Ethylhexane	I8	0.0002	0.0012	0.000	0.000
1t,4-Dimethylcyclohexane	N8	0.0047	0.0276	0.002	0.002
1,1-Dimethylcyclohexane	N8	0.0016	0.0094	0.001	0.001
2,2,5-Trimethylhexane	I9	0.0002	0.0014	0.000	0.000
3c-Ethylmethylcyclopentane	N8	0.0004	0.0024	0.000	0.000
3t-Ethylmethylcyclopentane	N8	0.0003	0.0018	0.000	0.000
2t-Ethylmethylcyclopentane	N8	0.0004	0.0024	0.000	0.000
2,2,4-Trimethylhexane	I9	0.0001	0.0007	0.000	0.000
1t,2-Dimethylcyclohexane	N8	0.0033	0.0194	0.002	0.002
1t,3-Dimethylcyclohexane	N8	0.0002	0.0011	0.000	0.000
n-Octane	P8	0.0192	0.1148	0.010	0.010
1c,4-Dimethylcyclohexane	N8	0.0026	0.0153	0.001	0.001
i-Propylcyclopentane	I8	0.0001	0.0006	0.000	0.000
2,3,5-Trimethylhexane	I9	0.0003	0.0020	0.000	0.000
2,2,3,4-Tetramethylpentane	I9	0.0001	0.0007	0.000	0.000
2,3,4-Trimethylhexane	I9	0.0001	0.0007	0.000	0.000
1c,2-Dimethylcyclohexane	N8	0.0001	0.0006	0.000	0.000
2,2-Dimethylheptane	I9	0.0010	0.0067	0.001	0.001
1,1,4-Trimethylcyclohexane	N9	0.0033	0.0218	0.002	0.002
2,2,3-Trimethylhexane	I9	0.0005	0.0033	0.000	0.000
2,4-Dimethylheptane	I9	0.0003	0.0020	0.000	0.000
4,4-Dimethylheptane	I9	0.0001	0.0007	0.000	0.000
Ethylcyclohexane	N8	0.0028	0.0164	0.001	0.001
n-Propylcyclopentane	N8	0.0009	0.0053	0.000	0.000
1c,3c,5-Trimethylcyclohexane	N9	0.0006	0.0040	0.000	0.000
2,5-Dimethylheptane	I9	0.0021	0.0141	0.001	0.001
3,3-Dimethylheptane	I9	0.0005	0.0033	0.000	0.000
3,5-Dimethylheptane	I9	0.0001	0.0007	0.000	0.000
2,6-Dimethylheptane	I9	0.0001	0.0007	0.000	0.000
1,1,3-Trimethylcyclohexane	N9	0.0002	0.0013	0.000	0.000
Ethylbenzene	I8	0.0029	0.0161	0.001	0.001
2,3-Dimethylheptane	I9	0.0001	0.0007	0.000	0.000
1,3-Dimethylbenzene (m-Xylene)	A8	0.0181	0.1006	0.007	0.007
1,4-Dimethylbenzene (p-Xylene)	A8	0.0061	0.0339	0.002	0.002
3,4-Dimethylheptane	I9	0.0002	0.0014	0.000	0.000

3,4-Dimethylheptane (2)	I9	0.0002	0.0014	0.000	0.000
4-Ethylheptane	I9	0.0003	0.0020	0.000	0.000
4-Methyloctane	I9	0.0018	0.0121	0.001	0.001
2-Methyloctane	I9	0.0028	0.0188	0.002	0.002
1c,2t,3-Trimethylcyclohexane	N9	0.0001	0.0007	0.000	0.000
3-Ethylheptane	I9	0.0003	0.0020	0.000	0.000
3-Methyloctane	I9	0.0002	0.0014	0.000	0.000
1c,2t,4c-Trimethylcyclohexane	I9	0.0027	0.0178	0.002	0.002
1,1,2-Trimethylcyclohexane	N9	0.0001	0.0007	0.000	0.000
3,3-Diethylpentane	I9	0.0001	0.0007	0.000	0.000
1,2-Dimethylbenzene (o-Xylene)	A8	0.0034	0.0189	0.001	0.001
i-Butylcyclopentane	N9	0.0017	0.0112	0.001	0.001
n-Nonane	P9	0.0138	0.0926	0.008	0.008
1,1-Methylethylcyclohexane	N9	0.0009	0.0060	0.001	0.001
i-Propylbenzene	A9	0.0001	0.0006	0.000	0.000
i-Propylcyclohexane	N9	0.0003	0.0020	0.000	0.000
2,2-Dimethyloctane	I10	0.0001	0.0007	0.000	0.000
2,4-Dimethyloctane	I10	0.0004	0.0030	0.000	0.000
2,6-Dimethyloctane	I10	0.0003	0.0022	0.000	0.000
2,5-Dimethyloctane	I10	0.0001	0.0007	0.000	0.000
n-Butylcyclopentane	N9	0.0019	0.0126	0.001	0.001
3,3-Dimethyloctane	I10	0.0002	0.0015	0.000	0.000
n-Propylbenzene	A9	0.0020	0.0126	0.001	0.001
3,6-Dimethyloctane	I10	0.0005	0.0037	0.000	0.000
3-Methyl-5-ethylheptane	I10	0.0002	0.0015	0.000	0.000
1,3-Methylethylbenzene	A9	0.0022	0.0138	0.001	0.001
1,4-Methylethylbenzene	A9	0.0008	0.0050	0.000	0.000
1,3,5-Trimethylbenzene	A9	0.0038	0.0239	0.002	0.002
2,3-Dimethyloctane	I10	0.0005	0.0037	0.000	0.000
5-Methylnonane	I10	0.0013	0.0097	0.001	0.001
1,2-Methylethylbenzene	A9	0.0020	0.0126	0.001	0.001
2-Methylnonane	I10	0.0003	0.0022	0.000	0.000
3-Ethyloctane	I10	0.0003	0.0022	0.000	0.000
3-Methylnonane	I10	0.0013	0.0097	0.001	0.001
1,2,4-Trimethylbenzene	A9	0.0001	0.0006	0.000	0.000
t-Butylbenzene	A10	0.0039	0.0274	0.002	0.002
i-Butylcyclohexane	N10	0.0006	0.0044	0.000	0.000
1t-Methyl-2-n-propylcyclohexane	I10	0.0002	0.0015	0.000	0.000
i-Butylbenzene	A10	0.0001	0.0007	0.000	0.000
sec-Butylbenzene	A10	0.0002	0.0014	0.000	0.000
UnknownC9s	U9	0.0016	0.0107	0.001	0.001
n-Decane	P10	0.0127	0.0946	0.008	0.008
1,3-Methyl-i-propylbenzene	A10	0.0005	0.0035	0.000	0.000
1,4-Methyl-i-propylbenzene	A10	0.0004	0.0028	0.000	0.000
Sec-Butylcyclohexane	A10	0.0002	0.0015	0.000	0.000
1,2-Methyl-i-propylbenzene	A10	0.0002	0.0014	0.000	0.000
3-Ethylnonane	I10	0.0006	0.0049	0.000	0.000
1,3-Diethylbenzene	A10	0.0022	0.0154	0.001	0.001
1,3-Methyl-n-propylbenzene	A10	0.0013	0.0091	0.001	0.001
1,4-Diethylbenzene	A10	0.0005	0.0035	0.000	0.000
1,4-Methyl-n-propylbenzene	A10	0.0001	0.0007	0.000	0.000
n-Butylbenzene	A10	0.0010	0.0070	0.000	0.000
1,3-Dimethyl-5-ethylbenzene	A10	0.0003	0.0021	0.000	0.000
1,2-Diethylbenzene	A10	0.0010	0.0070	0.000	0.000
t-Decahydronaphthalene	A9	0.0004	0.0032	0.000	0.000
1,2-Methyl-n-propylbenzene	A10	0.0007	0.0049	0.000	0.000
1,3-Dimethyl-4-ethylbenzene	A10	0.0015	0.0105	0.001	0.001
1,2-Dimethyl-4-ethylbenzene	A10	0.0004	0.0028	0.000	0.000
1,3-Dimethyl-2-ethylbenzene	A10	0.0010	0.0070	0.000	0.000
1,2-Dimethyl-3-ethylbenzene	A10	0.0003	0.0021	0.000	0.000
1,2-Ethyl-i-propylbenzene	A10	0.0003	0.0023	0.000	0.000
1,4-Methyl-t-butylbenzene	A11	0.0005	0.0039	0.000	0.000
UnknownC10s	U10	0.0050	0.0372	0.003	0.003

n-Undecane	P11	0.0130	0.1064	0.009	0.009
1,4-Ethyl-i-propylbenzene	A11	0.0003	0.0023	0.000	0.000
1,2,4,5-Tetramethylbenzene	A11	0.0004	0.0028	0.000	0.000
1,2-Methyl-n-butylbenzene	A11	0.0001	0.0008	0.000	0.000
1,2,3,5-Tetramethylbenzene	A11	0.0005	0.0035	0.000	0.000
1,2-Methyl-t-butylbenzene	A11	0.0002	0.0016	0.000	0.000
5-Methylindan	A11	0.0007	0.0049	0.000	0.000
4-Methylindan	A11	0.0002	0.0014	0.000	0.000
1,2-Ethyl-n-propylbenzene	A11	0.0008	0.0062	0.001	0.001
2-Methylindan	A11	0.0003	0.0021	0.000	0.000
1,3-Methyl-n-butylbenzene	A11	0.0002	0.0016	0.000	0.000
1,3-Di-i-propylbenzene	A11	0.0003	0.0026	0.000	0.000
sec-Pentylbenzene	A11	0.0005	0.0039	0.000	0.000
n-Pentylbenzene	A11	0.0005	0.0039	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	0.0008	0.0055	0.001	0.001
Naphthalene	A10	0.0014	0.0094	0.001	0.001
1-t-Butyl-3,5-dimethylbenzene	A12	0.0002	0.0017	0.000	0.000
1,4-Ethyl-t-butylbenzene	A11	0.0003	0.0026	0.000	0.000
1,3-Di-n-propylbenzene	A12	0.0003	0.0026	0.000	0.000
UnknownC11s	U11	0.0026	0.0212	0.002	0.002
n-Dodecane	P12	0.0108	0.0963	0.008	0.008
1,3,5-Triethylbenzene	A12	0.0021	0.0178	0.001	0.001
1,2,4-Triethylbenzene	A12	0.0004	0.0034	0.000	0.000
1,4-Methyl-n-pentylbenzene	A12	0.0004	0.0034	0.000	0.000
n-Hexylbenzene	A12	0.0011	0.0094	0.001	0.001
1,2,3,4,5-Pentamethylbenzene	A13	0.0028	0.0217	0.002	0.002
2-Methylnaphthalene	A11	0.0007	0.0052	0.001	0.001
1-Methylnaphthalene	A11	0.0003	0.0022	0.000	0.000
UnknownC12s	U12	0.0037	0.0302	0.002	0.002
n-Tridecane	P13	0.0073	0.0704	0.006	0.006
UnknownC13s	U13	0.0035	0.0338	0.003	0.003
n-Tetradecane	P14	0.0037	0.0384	0.003	0.003
UnknownC14s	U14	0.0022	0.0228	0.002	0.002
n-Pentadecane	P15	0.0015	0.0167	0.001	0.001
UnknownC15s	U15	0.0014	0.0155	0.001	0.001
n-Hexadecane	P16	0.0006	0.0071	0.001	0.001
UnknownC16s	U16	0.0018	0.0214	0.002	0.002
n-Heptadecane	P17	0.0002	0.0025	0.000	0.000
UnknownC17s	U17	0.0023	0.0289	0.002	0.002
n-Octadecane	P18	0.0001	0.0013	0.000	0.000
UnknownC18s	U18	0.0010	0.0133	0.001	0.001
UnknownC19s	U19	0.0009	0.0127	0.001	0.001
UnknownC20s	U20	0.0001	0.0015	0.000	0.000
TOTAL		100.00000	100.00000	3.0616	3.0772

BTEX COMPONENTS	MOLE%	WT%
BENZENE	0.0131	0.0535
TOLUENE	0.0364	0.1755
ETHYLBENZENE	0.0029	0.0161
XYLENES	0.0276	0.1534
TOTAL BTEX	0.0800	0.3985

**(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 :	1020.8 /scf	1026.4 /scf
	NET WET REAL :	1003.0 /scf	1008.6 /scf
HHV	GROSS DRY REAL :	1128.4 /scf	1134.6 /scf
	GROSS WET REAL :	1108.7 /scf	1114.9 /scf

NET HEATING VALUE (60 °F ideal reaction):	20313.2 Btu/lbm
GROSS HEATING VALUE (60°F ideal reaction):	22458.0 Btu/lbm
RELATIVE DENSITY (AIR=1):	0.6583
DENSITY	0.05034 lb/scf
COMPRESSIBILITY FACTOR :	0.9974
REGULAR WOBBE INDEX	1391.5

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

Net Dry Ideal BTU	5496.8 /scf	Relative Density - SG (Air=1)	3.7902		***C6+factors***
Gross Dry Ideal BTU	5907.2 /scf	**Z** Compressiblity Factor	0.99576		0.99437
Net Dry Ideal BTU	19055 /lb	Density Factor	289.215	lbm/1000 ft3	
Gross Dry Ideal BTU	20481 /lb	Molar Mass or MW	109.755	g/mol	
		Volume Liquid Ideal gas	0.295	scf/gal	21.3

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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