



EXTENDED NATURAL GAS ANALYSIS (*DHA)

MAIN PAGE

PRIMARY DB KEY: 05-103-10646	NAME/DESCRIP : PICEANCE CREEK UNIT T35X-2G9
LEASE #:	SURFACE CASING
FIELD/AREA:	
PROJECT NO. : 202509096	ANALYSIS NO. : 03
COMPANY NAME : QB ENERGY OPERATING, LLC	ANALYSIS DATE: OCTOBER 01, 2025 21:37
OFFICE / BRANCH: PARACHUTE, CO	SAMPLE DATE : SEPTEMBER 05, 2025
CUSTOMER REF:	TO:
PRODUCER :	EFFECTIVE DATE:

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

SAMPLE CYCLE:	SAMPLE TYPE:
SAMPLE PRES. : 399 psig	PROBE :
FLOW PRES. : psig	CYLINDER NO. : ECA-714
LAB PRES: psig	SAMPLED BY : NICK CROY
SAMPLE TEMP. : °f	SAMPLING COMPANY: QB ENERGY
AMBIENT TEMP.: °f	H2S BY STAIN TUBE: — ppm mol
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 @ 14.65</u>	<u>GPM @ 14.73</u>
ALCOHOLS	0.0340	0.0676	0.0050	0.0050
HELIUM	0.01	0.00	---	---
HYDROGEN	0.10	0.01	---	---
OXYGEN/ARGON	0.00	0.00	---	---
NITROGEN	0.54	0.87	---	---
CARBON DIOXIDE	2.50	6.31	---	---
METHANE	94.4510	86.9232	---	---
ETHANE	1.8090	3.1205	0.4825	0.4851
PROPANE	0.1884	0.4766	0.0519	0.0522
I-BUTANE	0.0373	0.1244	0.0120	0.0121
N-BUTANE	0.0443	0.1477	0.0140	0.0141
I-PENTANE	0.0233	0.0964	0.0080	0.0080
N-PENTANE	0.0191	0.0791	0.0070	0.0070
HEXANES PLUS	0.2436	1.7745	0.1160	0.1160
TOTALS	100.00000	100.00000	0.6964	0.6995

<u>BTEX COMPONENTS</u>	<u>MOLE%</u>	<u>WT%</u>
BENZENE	0.0071	0.0318
TOLUENE	0.0123	0.0650
ETHYLBENZENE	0.0005	0.0030
XYLENES	0.0014	0.0085
TOTAL BTEX	0.0213	0.1083

	<u>CALCULATED VALUES**</u>	
<u>BTU @</u>	<u>14.65</u>	<u>14.73</u>
LHV NET DRY REAL :	910.4 /scf	915.3 /scf
NET WET REAL :	894.5 /scf	899.4 /scf
HHV GROSS DRY REAL :	1010.2 /scf	1015.7 /scf
GROSS WET REAL :	992.5 /scf	998.0 /scf
NET HEATING VALUE (60 °F ideal reaction):		19867.5 Btu/lbm
GROSS HEATING VALUE (60°F ideal reaction):		22039.2 Btu/lbm
RELATIVE DENSITY (AIR=1):		0.6006
DENSITY		0.04593 lbm/scf
COMPRESSIBILITY FACTOR :		0.9979
REGULAR WOBBE INDEX		1304.8

**(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.



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

PROJECT NO. :	202509096	ANALYSIS NO. :	03
COMPANY NAME :	QB ENERGY OPERATING, LLC	ANALYSIS DATE:	OCTOBER 01, 2025 21:37
ACCOUNT NO. :		SAMPLE DATE :	SEPTEMBER 05, 2025
PRODUCER :		CYLINDER NO. :	ECA-714
LEASE NO. :		SAMPLED BY :	NICK CROY
NAME/DESCRIP :	PICEANCE CREEK UNIT T35X-2G9 SURFACE CASING		

FIELD DATA		SAMPLE TEMP. :	
SAMPLE PRES. :	399	AMBIENT TEMP.:	
H2S BY STAIN TUBE:	—		
COMMENTS :	—		

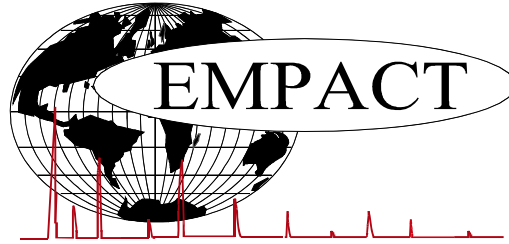
<u>Componet</u>	<u>Mole %</u>	<u>Wt %</u>
Helium	0.01	0.00
Hydrogen	0.10	0.01
Carbon Dioxide	2.50	6.31
Nitrogen	0.54	0.87
Methane	94.4510	86.9232
Ethane	1.8090	3.1205
Propane	0.1884	0.4766
Isobutane	0.0373	0.1244
n-Butane	0.0443	0.1477
Isopentane	0.0226	0.0936
n-Pentane	0.0191	0.0791
Cyclopentane	0.0007	0.0028
n-Hexane	0.0070	0.0346
Cyclohexane	0.0062	0.0299
Other Hexanes	0.0250	0.1232
Heptanes	0.0261	0.1495
Methylcyclohexane	0.0169	0.0952
2,2,4 Trimethylpentane	0.0000	0.0000
Benzene	0.0071	0.0318
Toluene	0.0123	0.0650
Ethylbenzene	0.0005	0.0030
Xylenes	0.0014	0.0085
C8+ Heavies	0.1411	1.2338
<u>Subtotal</u>	<u>99.96600</u>	<u>99.93240</u>
Oxygen/Argon	0.00	0.00
Alcohols	0.0340	0.0676
<u>Total</u>	<u>100.00000</u>	<u>100.00000</u>

Calculated Values BTU @		Total	C6+	C8+	C10+
	LHV Net Dry Real:	910.4	6390.6	7662.8	8646.1 Btu/scf
	Net Wet Real:	894.5	6278.9	7528.8	8495.0 Btu/scf
	HHV Gross Dry Real:	1010.2	6878.7	8263.3	9332.2 Btu/scf
	Gross Wet Real:	992.5	6758.5	8118.8	9169.1 Btu/scf

Other Calculated Values					
Regualr Wobbe Index*	1304.8	3288.6	3620.7	3859.3	Btu/scf
Net Heating Value (60 °F ideal reaction):	19867.5	18977.5	18985.5	18746.7	Btu/lbm
Gross Heating Value (60 °F ideal reaction):	22039.2	20426.5	20471.7	20231.5	Btu/lbm
Molar Mass (MW):	17.43218	126.901	151.639	170.366	g/mol
Relative Density (AIR=1):	0.6006	4.3812	5.2361	5.8830	SG
Density:	0.04593	0.33440	0.39959	0.44894	lbm/scf
Compressibility Factor:	0.9979	0.9976	0.9995	0.9999	Z
Liquid Volume real gas @:	17.1093	0.1156	0.0778	0.0568	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.



EXTENDED NATURAL GAS ANALYSIS (*DHA)
DHA COMPONENT LIST

PRIMARY DB KEY: **05-103-10646** NAME/DESCRIP : **PICEANCE CREEK UNIT T35X-2G9**
 LEASE #: SURFACE CASING
 FIELD/AREA:

PROJECT NO. : **202509096** ANALYSIS NO. : **03**
 COMPANY NAME : **QB ENERGY OPERATING, LLC** ANALYSIS DATE: **OCTOBER 01, 2025 21:37**
 OFFICE / BRANCH: **PARACHUTE, CO** SAMPLE DATE : **SEPTEMBER 05, 2025**
 CUSTOMER REF: TO:
 PRODUCER : EFFECTIVE DATE:

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

SAMPLE CYCLE: SAMPLE TYPE:
 SAMPLE PRES. : **399** psig PROBE :
 FLOW PRES. : psig CYLINDER NO. : **ECA-714**
 LAB PRES: psig SAMPLED BY : **NICK CROY**
 SAMPLE TEMP. : °f SAMPLING COMPANY: **QB ENERGY**
 AMBIENT TEMP.: °f 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
Helium	---	0.01	0.00	---	---
Hydrogen	---	0.10	0.01	---	---
Nitrogen	---	0.54	0.87	---	---
Carbon Dioxide	---	2.50	6.31	---	---
Methane	P1	94.4510	86.9232	---	---
Ethane	P2	1.8090	3.1205	0.483	0.485
Propane	P3	0.1884	0.4766	0.052	0.052
i-Butane	I4	0.0373	0.1244	0.012	0.012
Methanol	X1	0.0319	0.0586	0.004	0.004
n-Butane	P4	0.0443	0.1477	0.014	0.014
2,2-Dimethylpropane	I5	0.0035	0.0145	0.001	0.001
i-Pentane	I5	0.0191	0.0791	0.007	0.007
n-Pentane	P5	0.0191	0.0791	0.007	0.007
t-Butanol	X4	0.0021	0.0090	0.001	0.001
2,2-Dimethylbutane	I6	0.0034	0.0168	0.001	0.001
Cyclopentane	N5	0.0007	0.0028	0.000	0.000
2,3-Dimethylbutane	I6	0.0020	0.0099	0.001	0.001
2-Methylpentane	I6	0.0103	0.0509	0.004	0.004
3-Methylpentane	I6	0.0061	0.0302	0.002	0.002
n-Hexane	P6	0.0070	0.0346	0.003	0.003
2,2-Dimethylpentane	I7	0.0010	0.0057	0.000	0.000
Methylcyclopentane	N6	0.0032	0.0154	0.001	0.001
2,4-Dimethylpentane	I7	0.0011	0.0063	0.001	0.001
2,2,3-Trimethylbutane	I7	0.0004	0.0023	0.000	0.000
Benzene	A6	0.0071	0.0318	0.002	0.002
3,3-Dimethylpentane	I7	0.0007	0.0040	0.000	0.000
Cyclohexane	N6	0.0062	0.0299	0.002	0.002
2-Methylhexane	I7	0.0054	0.0310	0.003	0.003

2,3-Dimethylpentane	I7	0.0015	0.0086	0.001	0.001
1,1-Dimethylcyclopentane	N7	0.0011	0.0062	0.000	0.000
3-Methylhexane	I7	0.0057	0.0328	0.003	0.003
1c,3-Dimethylcyclopentane	N7	0.0008	0.0045	0.000	0.000
1t,3-Dimethylcyclopentane	N7	0.0007	0.0040	0.000	0.000
3-Ethylpentane	I7	0.0004	0.0023	0.000	0.000
1t,2-Dimethylcyclopentane	N7	0.0014	0.0079	0.001	0.001
n-Heptane	P7	0.0051	0.0293	0.002	0.002
1c,2-Dimethylcyclopentane	N7	0.0002	0.0012	0.000	0.000
Methylcyclohexane	N7	0.0169	0.0952	0.007	0.007
2,2-Dimethylhexane	I8	0.0008	0.0052	0.000	0.000
1,1,3-Trimethylcyclopentane	N7	0.0001	0.0006	0.000	0.000
Ethylcyclopentane	N7	0.0005	0.0028	0.000	0.000
2,5-Dimethylhexane	I8	0.0009	0.0059	0.000	0.000
2,2,3-Trimethylpentane	I8	0.0008	0.0052	0.000	0.000
2,4-Dimethylhexane	I8	0.0001	0.0006	0.000	0.000
1c,2t,4-Trimethylcyclopentane	N8	0.0003	0.0020	0.000	0.000
3,3-Dimethylhexane	I8	0.0004	0.0026	0.000	0.000
2,3,3-Trimethylpentane	I8	0.0001	0.0006	0.000	0.000
Toluene	A7	0.0123	0.0650	0.004	0.004
2,3-Dimethylhexane	I8	0.0007	0.0046	0.000	0.000
2-Methyl-3-ethylpentane	I8	0.0002	0.0013	0.000	0.000
2-Methylheptane	I8	0.0036	0.0236	0.002	0.002
4-Methylheptane	I8	0.0015	0.0098	0.001	0.001
3-Methyl-3-ethylpentane	I8	0.0002	0.0013	0.000	0.000
3,4-Dimethylhexane	I8	0.0002	0.0013	0.000	0.000
3-Methylheptane	I8	0.0031	0.0203	0.002	0.002
1c,2t,3-Trimethylcyclopentane	N8	0.0040	0.0258	0.002	0.002
3-Ethylhexane	I8	0.0003	0.0020	0.000	0.000
1t,4-Dimethylcyclohexane	N8	0.0017	0.0110	0.001	0.001
1,1-Dimethylcyclohexane	N8	0.0008	0.0052	0.000	0.000
2,2,5-Trimethylhexane	I9	0.0001	0.0008	0.000	0.000
3c-Ethylmethylcyclopentane	N8	0.0001	0.0006	0.000	0.000
3t-Ethylmethylcyclopentane	N8	0.0001	0.0006	0.000	0.000
2t-Ethylmethylcyclopentane	N8	0.0002	0.0013	0.000	0.000
2,2,4-Trimethylhexane	I9	0.0001	0.0008	0.000	0.000
1t,2-Dimethylcyclohexane	N8	0.0015	0.0096	0.001	0.001
1t,3-Dimethylcyclohexane	N8	0.0002	0.0013	0.000	0.000
n-Octane	P8	0.0052	0.0341	0.003	0.003
1c,4-Dimethylcyclohexane	N8	0.0010	0.0064	0.001	0.001
i-Propylcyclopentane	I8	0.0001	0.0006	0.000	0.000
2,3,5-Trimethylhexane	I9	0.0003	0.0022	0.000	0.000
2,2,3,4-Tetramethylpentane	I9	0.0001	0.0008	0.000	0.000
2,3,4-Trimethylhexane	I9	0.0001	0.0008	0.000	0.000
2,2-Dimethylheptane	I9	0.0006	0.0044	0.000	0.000
1,1,4-Trimethylcyclohexane	N9	0.0014	0.0102	0.001	0.001
2,2,3-Trimethylhexane	I9	0.0004	0.0029	0.000	0.000
2,4-Dimethylheptane	I9	0.0002	0.0015	0.000	0.000
Ethylcyclohexane	N8	0.0023	0.0148	0.001	0.001
n-Propylcyclopentane	N8	0.0008	0.0052	0.000	0.000
1c,3c,5-Trimethylcyclohexane	N9	0.0004	0.0029	0.000	0.000
2,5-Dimethylheptane	I9	0.0013	0.0096	0.001	0.001
3,3-Dimethylheptane	I9	0.0004	0.0029	0.000	0.000
3,5-Dimethylheptane	I9	0.0001	0.0008	0.000	0.000
2,6-Dimethylheptane	I9	0.0001	0.0008	0.000	0.000
1,1,3-Trimethylcyclohexane	N9	0.0001	0.0008	0.000	0.000
Ethylbenzene	I8	0.0005	0.0030	0.000	0.000
1,3-Dimethylbenzene (m-Xylene)	A8	0.0011	0.0067	0.000	0.000
1,4-Dimethylbenzene (p-Xylene)	A8	0.0002	0.0012	0.000	0.000
3,4-Dimethylheptane	I9	0.0001	0.0008	0.000	0.000
4-Ethylheptane	I9	0.0002	0.0015	0.000	0.000

4-Methyloctane	I9	0.0009	0.0066	0.001	0.001
2-Methyloctane	I9	0.0006	0.0044	0.000	0.000
3-Ethylheptane	I9	0.0001	0.0008	0.000	0.000
3-Methyloctane	I9	0.0002	0.0015	0.000	0.000
1c,2t,4c-Trimethylcyclohexane	I9	0.0014	0.0102	0.001	0.001
3,3-Diethylpentane	I9	0.0001	0.0008	0.000	0.000
1,2-Dimethylbenzene (o-Xylene)	A8	0.0001	0.0006	0.000	0.000
i-Butylcyclopentane	N9	0.0006	0.0044	0.000	0.000
n-Nonane	P9	0.0018	0.0133	0.001	0.001
1,1-Methylethylcyclohexane	N9	0.0004	0.0029	0.000	0.000
i-Propylbenzene	A9	0.0001	0.0007	0.000	0.000
i-Propylcyclohexane	N9	0.0001	0.0008	0.000	0.000
2,2-Dimethyloctane	I10	0.0001	0.0008	0.000	0.000
2,4-Dimethyloctane	I10	0.0002	0.0016	0.000	0.000
2,6-Dimethyloctane	I10	0.0002	0.0016	0.000	0.000
n-Butylcyclopentane	N9	0.0008	0.0058	0.000	0.000
3,3-Dimethyloctane	I10	0.0002	0.0016	0.000	0.000
n-Propylbenzene	A9	0.0015	0.0103	0.001	0.001
3,6-Dimethyloctane	I10	0.0001	0.0008	0.000	0.000
3-Methyl-5-ethylheptane	I10	0.0004	0.0033	0.000	0.000
1,3-Methylethylbenzene	A9	0.0002	0.0014	0.000	0.000
1,4-Methylethylbenzene	A9	0.0001	0.0007	0.000	0.000
1,3,5-Trimethylbenzene	A9	0.0007	0.0048	0.000	0.000
2,3-Dimethyloctane	I10	0.0002	0.0016	0.000	0.000
5-Methylnonane	I10	0.0007	0.0057	0.000	0.000
1,2-Methylethylbenzene	A9	0.0004	0.0028	0.000	0.000
2-Methylnonane	I10	0.0001	0.0008	0.000	0.000
3-Ethyloctane	I10	0.0002	0.0016	0.000	0.000
3-Methylnonane	I10	0.0003	0.0025	0.000	0.000
1,2,4-Trimethylbenzene	A9	0.0001	0.0007	0.000	0.000
t-Butylbenzene	A10	0.0007	0.0054	0.000	0.000
i-Butylcyclohexane	N10	0.0003	0.0024	0.000	0.000
1t-Methyl-2-n-propylcyclohexane	I10	0.0001	0.0008	0.000	0.000
sec-Butylbenzene	A10	0.0001	0.0008	0.000	0.000
UnknownC9s	U9	0.0011	0.0081	0.001	0.001
n-Decane	P10	0.0023	0.0188	0.001	0.001
1,2,3-Trimethylbenzene	A9	0.0003	0.0021	0.000	0.000
1,3-Methyl-i-propylbenzene	A10	0.0003	0.0023	0.000	0.000
1,4-Methyl-i-propylbenzene	A10	0.0001	0.0008	0.000	0.000
Sec-Butylcyclohexane	A10	0.0002	0.0016	0.000	0.000
1,2-Methyl-i-propylbenzene	A10	0.0001	0.0008	0.000	0.000
3-Ethylnonane	I10	0.0004	0.0036	0.000	0.000
1,3-Diethylbenzene	A10	0.0017	0.0131	0.001	0.001
1,3-Methyl-n-propylbenzene	A10	0.0006	0.0047	0.000	0.000
1,4-Diethylbenzene	A10	0.0003	0.0023	0.000	0.000
n-Butylbenzene	A10	0.0004	0.0031	0.000	0.000
1,3-Dimethyl-5-ethylbenzene	A10	0.0001	0.0008	0.000	0.000
1,2-Diethylbenzene	A10	0.0004	0.0031	0.000	0.000
t-Decahydronaphthalene	A9	0.0002	0.0018	0.000	0.000
1,2-Methyl-n-propylbenzene	A10	0.0005	0.0038	0.000	0.000
1,3-Dimethyl-4-ethylbenzene	A10	0.0008	0.0061	0.001	0.001
1,2-Dimethyl-4-ethylbenzene	A10	0.0003	0.0023	0.000	0.000
1,3-Dimethyl-2-ethylbenzene	A10	0.0007	0.0054	0.000	0.000
1,2-Dimethyl-3-ethylbenzene	A10	0.0002	0.0016	0.000	0.000
1,2-Ethyl-i-propylbenzene	A10	0.0001	0.0009	0.000	0.000
1,4-Methyl-t-butylbenzene	A11	0.0002	0.0017	0.000	0.000
UnknownC10s	U10	0.0025	0.0204	0.002	0.002
n-Undecane	P11	0.0078	0.0699	0.005	0.005
1,4-Ethyl-i-propylbenzene	A11	0.0001	0.0009	0.000	0.000
1,2,4,5-Tetramethylbenzene	A11	0.0002	0.0016	0.000	0.000
1,2-Methyl-n-butylbenzene	A11	0.0004	0.0034	0.000	0.000
1,2,3,5-Tetramethylbenzene	A11	0.0004	0.0031	0.000	0.000
1,2-Methyl-t-butylbenzene	A11	0.0001	0.0009	0.000	0.000
5-Methylindan	A11	0.0006	0.0045	0.000	0.000

4-Methylindan	A11	0.0001	0.0008	0.000	0.000
1,2-Ethyl-n-propylbenzene	A11	0.0007	0.0060	0.000	0.000
2-Methylindan	A11	0.0003	0.0023	0.000	0.000
1,3-Methyl-n-butylbenzene	A11	0.0003	0.0025	0.000	0.000
1,3-Di-i-propylbenzene	A11	0.0005	0.0047	0.000	0.000
sec-Pentylbenzene	A11	0.0006	0.0051	0.000	0.000
n-Pentylbenzene	A11	0.0008	0.0068	0.000	0.000
1,2-Di-n-propylbenzene	A11	0.0009	0.0084	0.001	0.001
1,4-Di-i-propylbenzene	A11	0.0007	0.0065	0.001	0.001
Tetrahydronaphthalene	A10	0.0004	0.0030	0.000	0.000
Naphthalene	A10	0.0013	0.0096	0.001	0.001
1-t-Butyl-3,5-dimethylbenzene	A12	0.0005	0.0047	0.000	0.000
1,4-Ethyl-t-butylbenzene	A11	0.0002	0.0018	0.000	0.000
1,3-Di-n-propylbenzene	A12	0.0005	0.0047	0.000	0.000
UnknownC11s	U11	0.0018	0.0161	0.001	0.001
n-Dodecane	P12	0.0119	0.1163	0.009	0.009
1,3,5-Triethylbenzene	A12	0.0017	0.0158	0.001	0.001
1,2,4-Triethylbenzene	A12	0.0005	0.0047	0.000	0.000
1,4-Methyl-n-pentylbenzene	A12	0.0010	0.0093	0.001	0.001
n-Hexylbenzene	A12	0.0016	0.0149	0.001	0.001
1,2,3,4,5-Pentamethylbenzene	A13	0.0019	0.0162	0.001	0.001
2-Methylnaphthalene	A11	0.0019	0.0155	0.001	0.001
1-Methylnaphthalene	A11	0.0004	0.0033	0.000	0.000
UnknownC12s	U12	0.0030	0.0269	0.002	0.002
n-Tridecane	P13	0.0089	0.0941	0.007	0.007
UnknownC13s	U13	0.0046	0.0487	0.004	0.004
n-Tetradecane	P14	0.0042	0.0478	0.003	0.003
UnknownC14s	U14	0.0034	0.0387	0.003	0.003
n-Pentadecane	P15	0.0016	0.0195	0.001	0.001
UnknownC15s	U15	0.0054	0.0658	0.005	0.005
n-Hexadecane	P16	0.0005	0.0065	0.000	0.000
UnknownC16s	U16	0.0001	0.0013	0.000	0.000
n-Heptadecane	P17	0.0001	0.0014	0.000	0.000
UnknownC17s	U17	0.0030	0.0414	0.003	0.003
UnknownC18s	U18	0.0011	0.0161	0.001	0.001
UnknownC20s	U20	0.0001	0.0016	0.000	0.000
TOTAL		100.00000	100.00000	0.6964	0.6995

CALCULATED VALUES**

BTEX COMPONENTS	MOLE%	WT%	BTU @	14.65	14.73
BENZENE	0.0071	0.0318	LHV NET DRY REAL :	910.4 /scf	915.3 /scf
TOLUENE	0.0123	0.0650	NET WET REAL :	894.5 /scf	899.4 /scf
ETHYLBENZENE	0.0005	0.0030	HHV GROSS DRY REAL :	1010.2 /scf	1015.7 /scf
XYLENES	0.0014	0.0085	GROSS WET REAL :	992.5 /scf	998.0 /scf
TOTAL BTEX	0.0213	0.1083	NET HEATING VALUE (60 °F ideal reaction):		19867.5 Btu/lbm
			GROSS HEATING VALUE (60°F ideal reaction):		22039.2 Btu/lbm
			RELATIVE DENSITY (AIR=1):		0.6006
			DENSITY		0.04593 lb/scf
			COMPRESSIBILITY FACTOR :		0.9979
			REGULAR WOBBE INDEX		1304.8

*(DETAILED HYDROCARBON ANALYSIS/NJ 1993)

Mod ASTM D6730,GPA 2261 & GPA 2286.

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

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

Net Dry Ideal BTU	<u>6395.1</u> /scf	Relative Density - SG (Air=1)	<u>4.3812</u>	C6+ factors
Gross Dry Ideal BTU	<u>6883.5</u> /scf	Z Compressibility Factor	<u>0.99757</u>	<u>0.99599</u>
Net Dry Ideal BTU	<u>18977.5</u> /lb	Density Factor	<u>334.403</u> lbm/1000 ft3	
Gross Dry Ideal BTU	<u>20426.5</u> /lb	Molar Mass or MW	<u>126.901</u> g/mol	
		Volume Liquid Ideal gas	<u>0.116</u> scf/gal	<u>18.9</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.**

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.