EXTENDED NATURAL GAS ANALYSIS (*DHA)

MAIN PAGE

PRIMARY DB KEY:	**05-103-10735**	NAME/DESCRIP :	**125190121 PCU 297-10A9**
LEASE #:	**COD52141**		**INTERMEDIATE CASING**
FIELD/AREA:	**PICEANCE CREEK**		
PROJECT NO. :	**202603079**	ANALYSIS NO. :	**01**
COMPANY NAME :	**QB ENERGY OPERATING, LLC**	ANALYSIS DATE:	APRIL 10, 2026 13:04
OFFICE / BRANCH:	PARACHUTE, CO	SAMPLE DATE :	MARCH 5, 2026
CUSTOMER REF:		TO:	
PRODUCER :	QB ENERGY OPERATING LLC	EFFECTIVE DATE:	

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

SAMPLE CYCLE:			SAMPLE TYPE:	SPOT	
SAMPLE PRES. :	1548	psig	PROBE :	NO	
FLOW PRES. :		psig	CYLINDER NO. :	44	
LAB PRES:		psig	SAMPLED BY :	MIKE KELLEY	
SAMPLE TEMP. :	40	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: ***Possible moisture observed.***

COMPONENT	MOLE %	MASS %	GPM @ 14.65	GPM @ 14.73
GLYCOLS	0.0002	0.0006	0.0000	0.0000
ALCOHOLS	0.0000	0.0000	0.0000	0.0000
HELIUM	0.00	0.00	---	---
HYDROGEN	0.07	0.01	---	---
OXYGEN/ARGON	0.00	0.00	---	---
NITROGEN	0.07	0.10	---	---
CARBON DIOXIDE	0.03	0.07	---	---
METHANE	90.4220	77.4647	---	---
ETHANE	5.5654	8.9366	1.4842	1.4923
PROPANE	1.6750	3.9443	0.4597	0.4622
I-BUTANE	0.3805	1.1810	0.1239	0.1246
N-BUTANE	0.3886	1.2061	0.1219	0.1226
I-PENTANE	0.2031	0.7819	0.0730	0.0733
N-PENTANE	0.1518	0.5849	0.0550	0.0553
HEXANES PLUS	1.0434	5.7199	0.4450	0.4467
TOTALS	100.00000	100.00000	2.7627	2.7770

BTEX COMPONENTS	MOLE%	WT%
BENZENE	0.0175	0.0730
TOLUENE	0.0608	0.2992
ETHYLBENZENE	0.0051	0.0289
XYLENES	0.0422	0.2393
TOTAL BTEX	0.1256	0.6404

**(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 :	1039.4 /scf	1045.1 /scf
	NET WET REAL :	1021.2 /scf	1026.9 /scf
HHV	GROSS DRY REAL :	1149.1 /scf	1155.4 /scf
	GROSS WET REAL :	1129.0 /scf	1135.3 /scf

NET HEATING VALUE (60 °F ideal reaction):	21111.2 **Btu/lbm**
GROSS HEATING VALUE (60°F ideal reaction):	23336.5 **Btu/lbm**
RELATIVE DENSITY (AIR=1):	0.6451
DENSITY	0.04934 **lbm/scf**
COMPRESSIBILITY FACTOR :	0.9974
REGULAR WOBBE INDEX	1431.6

EMPACT

EXTENDED NATURAL GAS ANALYSIS (*DHA)

GLYCALC INFORMATION

PROJECT NO. :	202603079	ANALYSIS NO. :	01
COMPANY NAME :	QB ENERGY OPERATING, LLC	ANALYSIS DATE:	APRIL 10, 2026 13:04
ACCOUNT NO. :		SAMPLE DATE :	MARCH 5, 2026
PRODUCER :	QB ENERGY OPERATING LLC	CYLINDER NO. :	44
LEASE NO. :	COD52141	SAMPLED BY :	MIKE KELLEY
NAME/DESCRIP :	125190121 PCU 297-10A9 INTERMEDIATE CASING		
FIELD DATA		SAMPLE TEMP. :	40
SAMPLE PRES. :	1548	AMBIENT TEMP.:	
H2S BY STAIN TUBE:	_ *ppm mol*		
COMMENTS :	***SPOT*** ***NO PROBE*** ***Possible moisture observed.***		

Componet	Mole %	Wt %
Helium	0.00	0.00
Hydrogen	0.07	0.01
Carbon Dioxide	0.03	0.07
Nitrogen	0.07	0.10
Methane	90.4220	77.4647
Ethane	5.5654	8.9366
Propane	1.6750	3.9443
Isobutane	0.3805	1.1810
n-Butane	0.3886	1.2061
Isopentane	0.1981	0.7632
n-Pentane	0.1518	0.5849
Cyclopentane	0.0050	0.0187
n-Hexane	0.0866	0.3985
Cyclohexane	0.0486	0.2184
Other Hexanes	0.1496	0.6839
Heptanes	0.1659	0.8842
Methylcyclohexane	0.1522	0.7980
2,2,4 Trimethylpentane	0.0002	0.0012
Benzene	0.0175	0.0730
Toluene	0.0608	0.2992
Ethylbenzene	0.0051	0.0289
Xylenes	0.0422	0.2393
C8+ Heavies	0.3147	2.0953
Subtotal	99.99980	99.99940
Oxygen/Argon	0.00	0.00
Glycols	0.0002	0.0006
Total	100.00000	100.00000

Calculated Values BTU @ **14.65**		**Total Sample**	**C6+ Fraction**	**C8+ Fraction**	**C10+ Fraction**	
LHV	Net Dry Real:	1039.4	5137.5	6093.0	7290.7	**Btu/scf**
	Net Wet Real:	1021.2	5047.7	5986.5	7163.2	**Btu/scf**
HHV	Gross Dry Real:	1149.1	5517.2	6549.3	7886.2	**Btu/scf**
	Gross Wet Real:	1129.0	5420.8	6434.8	7748.3	**Btu/scf**
Other Calculated Values						
Regualr Wobbe Index*		1431.6	2925.3	3192.5	3530.1	**Btu/scf**
Net Heating Value (60 °F ideal reaction):		21111.2	19162.1	19277.3	18940.1	**Btu/lbm**
Gross Heating Value (60°F ideal reaction):		23336.5	20583.6	20726.9	20479.6	**Btu/lbm**
Molar Mass (MW):		18.72641	102.669	122.273	145.346	**g/mol**
Relative Density (AIR=1):		0.6451	3.5447	4.2215	5.0187	**SG**
Density:		0.04934	0.27054	0.32219	0.38299	**lbm/scf**
Compressiblity Factor:		0.9974	0.9951	0.9984	0.9997	**Z**
Liquid Volume real gas @:	**14.65**	18.0164	0.4436	0.1705	0.0329	**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.

EMPACT Analytical Systems Inc. 365 S Main St Brighton, CO 80601 303-637-0150

EXTENDED NATURAL GAS ANALYSIS (*DHA)

DHA COMPONENT LIST

PRIMARY DB KEY:	**05-103-10735**	NAME/DESCRIP :	**125190121 PCU 297-10A9**
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FIELD/AREA:	**PICEANCE CREEK**		
PROJECT NO. :	**202603079**	ANALYSIS NO. :	**01**
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OFFICE / BRANCH:	PARACHUTE, CO	SAMPLE DATE :	MARCH 5, 2026
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PRODUCER :	QB ENERGY OPERATING LLC	EFFECTIVE DATE:	
FIELD DATA			
SAMPLE CYCLE:		SAMPLE TYPE:	SPOT
SAMPLE PRES. :	1548 psig	PROBE :	NO
FLOW PRES. :	psig	CYLINDER NO. :	44
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SAMPLE TEMP. :	40 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:	***Possible moisture observed.***		

COMPONENT	PIANO #	MOLE %	MASS %	GPM @ **14.65**	GPM @ **14.73**
Hydrogen	---	0.07	0.01	---	---
Nitrogen	---	0.07	0.10	---	---
Carbon Dioxide	---	0.03	0.07	---	---
Methane	P1	90.4220	77.4647	---	---
Ethane	P2	5.5654	8.9366	1.484	1.492
Propane	P3	1.6750	3.9443	0.460	0.462
i-Butane	I4	0.3805	1.1810	0.124	0.125
n-Butane	P4	0.3886	1.2061	0.122	0.123
2,2-Dimethylpropane	I5	0.0038	0.0146	0.001	0.001
i-Pentane	I5	0.1943	0.7486	0.071	0.071
n-Pentane	P5	0.1518	0.5849	0.055	0.055
2,2-Dimethylbutane	I6	0.0066	0.0304	0.003	0.003
Cyclopentane	N5	0.0050	0.0187	0.001	0.001
2,3-Dimethylbutane	I6	0.0123	0.0566	0.005	0.005
2-Methylpentane	I6	0.0578	0.2660	0.024	0.024
3-Methylpentane	I6	0.0308	0.1417	0.013	0.013
n-Hexane	P6	0.0866	0.3985	0.036	0.036
2,2-Dimethylpentane	I7	0.0026	0.0139	0.001	0.001
Methylcyclopentane	N6	0.0421	0.1892	0.015	0.015
2,4-Dimethylpentane	I7	0.0044	0.0236	0.002	0.002
2,2,3-Trimethylbutane	I7	0.0010	0.0053	0.000	0.000
Benzene	A6	0.0175	0.0730	0.005	0.005
3,3-Dimethylpentane	I7	0.0015	0.0080	0.001	0.001
Cyclohexane	N6	0.0486	0.2184	0.017	0.017
2-Methylhexane	I7	0.0236	0.1263	0.011	0.011
2,3-Dimethylpentane	I7	0.0054	0.0289	0.002	0.002
1,1-Dimethylcyclopentane	N7	0.0044	0.0231	0.002	0.002

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3-Methylhexane	I7	0.0215	0.1150	0.010	0.010
1c,3-Dimethylcyclopentane	N7	0.0077	0.0404	0.004	0.004
Ethylene glycol	GL2	0.0002	0.0006	0.000	0.000
1t,3-Dimethylcyclopentane	N7	0.0071	0.0372	0.003	0.003
3-Ethylpentane	I7	0.0008	0.0043	0.000	0.000
1t,2-Dimethylcyclopentane	N7	0.0113	0.0593	0.005	0.005
2,2,4-Trimethylpentane	I8	0.0002	0.0012	0.000	0.000
n-Heptane	P7	0.0669	0.3580	0.031	0.031
1c,2-Dimethylcyclopentane	N7	0.0031	0.0162	0.001	0.001
Methylcyclohexane	N7	0.1522	0.7980	0.061	0.061
2,2-Dimethylhexane	I8	0.0025	0.0153	0.001	0.001
1,1,3-Trimethylcyclopentane	N7	0.0008	0.0048	0.000	0.000
Ethylcyclopentane	N7	0.0038	0.0199	0.002	0.002
2,5-Dimethylhexane	I8	0.0030	0.0183	0.002	0.002
2,2,3-Trimethylpentane	I8	0.0029	0.0177	0.001	0.001
2,4-Dimethylhexane	I8	0.0003	0.0018	0.000	0.000
1c,2t,4-Trimethylcyclopentane	N8	0.0021	0.0126	0.001	0.001
3,3-Dimethylhexane	I8	0.0010	0.0061	0.000	0.000
2,3,4-Trimethylpentane	I8	0.0001	0.0006	0.000	0.000
2,3,3-Trimethylpentane	I8	0.0001	0.0006	0.000	0.000
Toluene	A7	0.0608	0.2992	0.020	0.020
2,3-Dimethylhexane	I8	0.0025	0.0153	0.001	0.001
2-Methyl-3-ethylpentane	I8	0.0003	0.0018	0.000	0.000
2-Methylheptane	I8	0.0148	0.0903	0.008	0.008
4-Methylheptane	I8	0.0046	0.0280	0.002	0.002
3-Methyl-3-ethylpentane	I8	0.0005	0.0030	0.000	0.000
3,4-Dimethylhexane	I8	0.0004	0.0025	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	0.0113	0.0689	0.006	0.006
1c,2t,3-Trimethylcyclopentane	N8	0.0209	0.1252	0.011	0.011
3-Ethylhexane	I8	0.0016	0.0098	0.001	0.001
1t,4-Dimethylcyclohexane	N8	0.0091	0.0545	0.005	0.005
1,1-Dimethylcyclohexane	N8	0.0026	0.0156	0.001	0.001
2,2,5-Trimethylhexane	I9	0.0004	0.0027	0.000	0.000
3c-Ethylmethylcyclopentane	N8	0.0007	0.0042	0.000	0.000
3t-Ethylmethylcyclopentane	N8	0.0006	0.0036	0.000	0.000
2t-Ethylmethylcyclopentane	N8	0.0006	0.0036	0.000	0.000
1,1-Methylethylcyclopentane	N8	0.0002	0.0012	0.000	0.000
2,2,4-Trimethylhexane	I9	0.0002	0.0014	0.000	0.000
1t,2-Dimethylcyclohexane	N8	0.0063	0.0378	0.003	0.003
1t,3-Dimethylcyclohexane	N8	0.0025	0.0150	0.001	0.001
n-Octane	P8	0.0421	0.2568	0.022	0.022
1c,4-Dimethylcyclohexane	N8	0.0053	0.0318	0.003	0.003
i-Propylcyclopentane	I8	0.0003	0.0018	0.000	0.000
2,3,5-Trimethylhexane	I9	0.0007	0.0048	0.000	0.000
2,2,3,4-Tetramethylpentane	I9	0.0001	0.0007	0.000	0.000
2,3,4-Trimethylhexane	I9	0.0003	0.0020	0.000	0.000
1c,2-Dimethylcyclohexane	N8	0.0001	0.0006	0.000	0.000
2,2-Dimethylheptane	I9	0.0021	0.0144	0.001	0.001
1,1,4-Trimethylcyclohexane	N9	0.0060	0.0404	0.003	0.003
2,2,3-Trimethylhexane	I9	0.0021	0.0144	0.001	0.001
2,4-Dimethylheptane	I9	0.0005	0.0034	0.000	0.000
4,4-Dimethylheptane	I9	0.0001	0.0007	0.000	0.000
Ethylcyclohexane	N8	0.0051	0.0306	0.002	0.002
n-Propylcyclopentane	N8	0.0018	0.0108	0.001	0.001
1c,3c,5-Trimethylcyclohexane	N9	0.0007	0.0047	0.000	0.000
2,5-Dimethylheptane	I9	0.0046	0.0315	0.003	0.003
3,3-Dimethylheptane	I9	0.0009	0.0061	0.000	0.000
3,5-Dimethylheptane	I9	0.0001	0.0007	0.000	0.000

2,6-Dimethylheptane	I9	0.0002	0.0014	0.000	0.000
1,1,3-Trimethylcyclohexane	N9	0.0003	0.0020	0.000	0.000
Ethylbenzene	I8	0.0051	0.0289	0.002	0.002
1c,2t,4t-Trimethylcyclohexane	N9	0.0001	0.0007	0.000	0.000
2,3-Dimethylheptane	I9	0.0002	0.0014	0.000	0.000
1,3-Dimethylbenzene (m-Xylene)	A8	0.0287	0.1627	0.011	0.011
1,4-Dimethylbenzene (p-Xylene)	A8	0.0089	0.0505	0.003	0.003
3,4-Dimethylheptane	I9	0.0003	0.0020	0.000	0.000
3,4-Dimethylheptane (2)	I9	0.0004	0.0027	0.000	0.000
4-Ethylheptane	I9	0.0006	0.0041	0.000	0.000
4-Methyloctane	I9	0.0036	0.0247	0.002	0.002
2-Methyloctane	I9	0.0055	0.0377	0.003	0.003
1c,2t,3-Trimethylcyclohexane	N9	0.0002	0.0013	0.000	0.000
3-Ethylheptane	I9	0.0003	0.0020	0.000	0.000
3-Methyloctane	I9	0.0007	0.0048	0.000	0.000
1c,2t,4c-Trimethylcyclohexane	I9	0.0052	0.0350	0.003	0.003
1,1,2-Trimethylcyclohexane	N9	0.0002	0.0013	0.000	0.000
3,3-Diethylpentane	I9	0.0004	0.0027	0.000	0.000
1,2-Dimethylbenzene (o-Xylene)	A8	0.0046	0.0261	0.002	0.002
i-Butylcyclopentane	N9	0.0031	0.0209	0.002	0.002
UnknownC8s	U8	0.0003	0.0018	0.000	0.000
n-Nonane	P9	0.0287	0.1966	0.016	0.016
1,1-Methylethylcyclohexane	N9	0.0016	0.0108	0.001	0.001
i-Propylbenzene	A9	0.0006	0.0038	0.000	0.000
i-Propylcyclohexane	N9	0.0005	0.0034	0.000	0.000
2,2-Dimethyloctane	I10	0.0003	0.0023	0.000	0.000
2,4-Dimethyloctane	I10	0.0011	0.0084	0.001	0.001
2,6-Dimethyloctane	I10	0.0002	0.0015	0.000	0.000
2,5-Dimethyloctane	I10	0.0002	0.0015	0.000	0.000
n-Butylcyclopentane	N9	0.0023	0.0155	0.001	0.001
3,3-Dimethyloctane	I10	0.0014	0.0106	0.001	0.001
n-Propylbenzene	A9	0.0031	0.0199	0.001	0.001
3,6-Dimethyloctane	I10	0.0008	0.0061	0.000	0.000
3-Methyl-5-ethylheptane	I10	0.0004	0.0030	0.000	0.000
1,3-Methylethylbenzene	A9	0.0026	0.0167	0.001	0.001
1,4-Methylethylbenzene	A9	0.0009	0.0058	0.001	0.001
1,3,5-Trimethylbenzene	A9	0.0045	0.0289	0.002	0.002
2,3-Dimethyloctane	I10	0.0008	0.0061	0.000	0.000
5-Methylnonane	I10	0.0020	0.0152	0.001	0.001
1,2-Methylethylbenzene	A9	0.0023	0.0147	0.001	0.001
2-Methylnonane	I10	0.0007	0.0053	0.000	0.000
3-Ethyloctane	I10	0.0004	0.0030	0.000	0.000
3-Methylnonane	I10	0.0021	0.0160	0.001	0.001
1,2,4-Trimethylbenzene	A9	0.0001	0.0006	0.000	0.000
t-Butylbenzene	A10	0.0042	0.0301	0.002	0.002
i-Butylcyclohexane	N10	0.0008	0.0060	0.000	0.000
1t-Methyl-2-n-propylcyclohexane	I10	0.0003	0.0022	0.000	0.000
i-Butylbenzene	A10	0.0002	0.0014	0.000	0.000
sec-Butylbenzene	A10	0.0001	0.0007	0.000	0.000
UnknownC9s	U9	0.0100	0.0685	0.006	0.006
n-Decane	P10	0.0166	0.1261	0.010	0.010
1,2,3-Trimethylbenzene	A9	0.0001	0.0006	0.000	0.000
1,3-Methyl-i-propylbenzene	A10	0.0004	0.0029	0.000	0.000
1,4-Methyl-i-propylbenzene	A10	0.0003	0.0021	0.000	0.000
Sec-Butylcyclohexane	A10	0.0001	0.0008	0.000	0.000
1,2-Methyl-i-propylbenzene	A10	0.0002	0.0014	0.000	0.000
3-Ethylnonane	I10	0.0005	0.0042	0.000	0.000
1,3-Diethylbenzene	A10	0.0022	0.0158	0.001	0.001
1,3-Methyl-n-propylbenzene	A10	0.0012	0.0086	0.001	0.001
1,4-Diethylbenzene	A10	0.0007	0.0050	0.000	0.000
1,4-Methyl-n-propylbenzene	A10	0.0002	0.0014	0.000	0.000

n-Butylbenzene	A10	0.0009	0.0065	0.000	0.000
1,3-Dimethyl-5-ethylbenzene	A10	0.0003	0.0021	0.000	0.000
1,2-Diethylbenzene	A10	0.0006	0.0043	0.000	0.000
t-Decahydronaphthalene	A9	0.0003	0.0025	0.000	0.000
1,2-Methyl-n-propylbenzene	A10	0.0007	0.0050	0.000	0.000
1,3-Dimethyl-4-ethylbenzene	A10	0.0015	0.0107	0.001	0.001
1,2-Dimethyl-4-ethylbenzene	A10	0.0004	0.0029	0.000	0.000
1,3-Dimethyl-2-ethylbenzene	A10	0.0009	0.0065	0.000	0.000
1,2-Dimethyl-3-ethylbenzene	A10	0.0003	0.0021	0.000	0.000
1,2-Ethyl-i-propylbenzene	A10	0.0002	0.0016	0.000	0.000
1,4-Methyl-t-butylbenzene	A11	0.0003	0.0024	0.000	0.000
UnknownC10s	U10	0.0044	0.0334	0.003	0.003
n-Undecane	P11	0.0083	0.0693	0.006	0.006
1,4-Ethyl-i-propylbenzene	A11	0.0003	0.0024	0.000	0.000
1,2,4,5-Tetramethylbenzene	A11	0.0002	0.0014	0.000	0.000
1,2-Methyl-n-butylbenzene	A11	0.0001	0.0008	0.000	0.000
1,2,3,5-Tetramethylbenzene	A11	0.0002	0.0014	0.000	0.000
1,2-Methyl-t-butylbenzene	A11	0.0003	0.0024	0.000	0.000
5-Methylindan	A11	0.0001	0.0007	0.000	0.000
4-Methylindan	A11	0.0003	0.0021	0.000	0.000
1,2-Ethyl-n-propylbenzene	A11	0.0004	0.0032	0.000	0.000
2-Methylindan	A11	0.0001	0.0007	0.000	0.000
1,3-Methyl-n-butylbenzene	A11	0.0001	0.0008	0.000	0.000
1,3-Di-i-propylbenzene	A11	0.0001	0.0009	0.000	0.000
sec-Pentylbenzene	A11	0.0002	0.0016	0.000	0.000
n-Pentylbenzene	A11	0.0002	0.0016	0.000	0.000
1,2-Di-n-propylbenzene	A11	0.0002	0.0017	0.000	0.000
1,4-Di-i-propylbenzene	A11	0.0001	0.0009	0.000	0.000
Tetrahydronaphthalene	A10	0.0001	0.0007	0.000	0.000
Naphthalene	A10	0.0003	0.0020	0.000	0.000
1-t-Butyl-3,5-dimethylbenzene	A12	0.0001	0.0009	0.000	0.000
1,4-Ethyl-t-butylbenzene	A11	0.0001	0.0009	0.000	0.000
1,3-Di-n-propylbenzene	A12	0.0001	0.0009	0.000	0.000
UnknownC11s	U11	0.0035	0.0292	0.002	0.002
n-Dodecane	P12	0.0028	0.0255	0.002	0.002
1,3,5-Triethylbenzene	A12	0.0005	0.0043	0.000	0.000
1,2,4-Triethylbenzene	A12	0.0001	0.0009	0.000	0.000
1,4-Methyl-n-pentylbenzene	A12	0.0001	0.0009	0.000	0.000
n-Hexylbenzene	A12	0.0001	0.0009	0.000	0.000
1,2,3,4,5-Pentamethylbenzene	A13	0.0003	0.0024	0.000	0.000
UnknownC12s	U12	0.0011	0.0092	0.001	0.001
n-Tridecane	P13	0.0006	0.0059	0.000	0.000
UnknownC13s	U13	0.0003	0.0029	0.000	0.000
n-Tetradecane	P14	0.0001	0.0011	0.000	0.000
TOTAL		100.00000	100.00000	2.7627	2.7770

BTEX COMPONENTS	MOLE%	WT%
BENZENE	0.0175	0.0730
TOLUENE	0.0608	0.2992
ETHYLBENZENE	0.0051	0.0289
XYLENES	0.0422	0.2393
TOTAL BTEX	0.1256	0.6404

**(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 :	1039.4	/scf	1045.1	/scf
	NET WET REAL :	1021.2	/scf	1026.9	/scf
HHV	GROSS DRY REAL :	1149.1	/scf	1155.4	/scf
	GROSS WET REAL :	1129.0	/scf	1135.3	/scf
	NET HEATING VALUE (60 °F ideal reaction):			21111.2	Btu/lbm
	GROSS HEATING VALUE (60°F ideal reaction):			23336.5	Btu/lbm
	RELATIVE DENSITY (AIR=1):			0.6451	
	DENSITY			0.04934	lb/scf
	COMPRESSIBILITY FACTOR :			0.9974	
	REGULAR WOBBE INDEX			1431.6	

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

Net Dry Ideal BTU	5128.4 /scf	Relative Density - SG (Air=1)	3.5447		***C6+factors***
Gross Dry Ideal BTU	5507.5 /scf	**Z** Compressiblity Factor	0.99511		0.99432
Net Dry Ideal BTU	19162.1 /lb	Density Factor	270.536	**lbm/1000 ft3**	
Gross Dry Ideal BTU	20583.6 /lb	Molar Mass or MW	102.669	**g/mol**	
		Volume Liquid Ideal gas	0.445	**scf/gal**	22.3

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.