EMPACT

EXTENDED NATURAL GAS ANALYSIS (*DHA)

MAIN PAGE

PRIMARY DB KEY:	**05-045-10733**	NAME/DESCRIP :	**300105029 PF31 FEDERAL 31-7**
LEASE #:	**C007090886C125**		**BRAIDEN HEAD**
FIELD/AREA:			

PROJECT NO. :	**202501048**	ANALYSIS NO. :	**01**
COMPANY NAME :	**QB ENERGY OPERATING, LLC**	ANALYSIS DATE:	JANUARY 27, 2025 11:27
OFFICE / BRANCH:	PARACHUTE, CO	SAMPLE DATE :	JANUARY 6, 2025
CUSTOMER REF:		TO:	
PRODUCER :	QB ENERGY OPERATING, LLC	EFFECTIVE DATE:	

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

SAMPLE CYCLE:			SAMPLE TYPE:	SPOT
SAMPLE PRES. :	280	psig	PROBE :	NO
FLOW PRES. :		psig	CYLINDER NO. :	ECA-751
LAB PRES:		psig	SAMPLED BY :	MIKE KELLEY
SAMPLE TEMP. :	39	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	0.0003	0.0006	0.0000	0.0000
HELIUM	0.01	0.00	---	---
HYDROGEN	0.04	0.00	---	---
OXYGEN/ARGON	0.00	0.00	---	---
NITROGEN	0.27	0.44	---	---
CARBON DIOXIDE	0.02	0.05	---	---
METHANE	94.3371	87.7207	---	---
ETHANE	3.7021	6.4523	0.9872	0.9926
PROPANE	0.9160	2.3413	0.2518	0.2532
I-BUTANE	0.1766	0.5949	0.0580	0.0583
N-BUTANE	0.1972	0.6644	0.0619	0.0623
I-PENTANE	0.0755	0.3156	0.0270	0.0271
N-PENTANE	0.0517	0.2162	0.0190	0.0191
HEXANES PLUS	0.2035	1.2040	0.0840	0.0840
TOTALS	100.00000	100.00000	1.4889	1.4966

BTEX COMPONENTS	MOLE%	WT%
BENZENE	0.0015	0.0068
TOLUENE	0.0021	0.0112
ETHYLBENZENE	0.0007	0.0043
XYLENES	0.0023	0.0142
TOTAL BTEX	0.0066	0.0365

**(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 :	963.5 /scf	968.7 /scf
	NET WET REAL :	946.7 /scf	951.9 /scf
HHV	GROSS DRY REAL :	1067.7 /scf	1073.5 /scf
	GROSS WET REAL :	1049.0 /scf	1054.8 /scf

NET HEATING VALUE (60 °F ideal reaction):	21238.4 **Btu/lbm**
GROSS HEATING VALUE (60°F ideal reaction):	23537.3 **Btu/lbm**
RELATIVE DENSITY (AIR=1):	0.5944
DENSITY	0.04546 **lbm/scf**
COMPRESSIBILITY FACTOR :	0.9977
REGULAR WOBBE INDEX	1386.0

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EXTENDED NATURAL GAS ANALYSIS (*DHA)

GLYCALC INFORMATION

PROJECT NO. :	202501048	ANALYSIS NO. :	01
COMPANY NAME :	QB ENERGY OPERATING, LLC	ANALYSIS DATE:	JANUARY 27, 2025 11:27
ACCOUNT NO. :		SAMPLE DATE :	JANUARY 6, 2025
PRODUCER :	QB ENERGY OPERATING, LLC	CYLINDER NO. :	ECA-751
LEASE NO. :	C007090886C125	SAMPLED BY :	MIKE KELLEY
NAME/DESCRIP :	300105029 PF31 FEDERAL 31-7 BRAIDEN HEAD		
FIELD DATA		SAMPLE TEMP. :	39
SAMPLE PRES. :	280	AMBIENT TEMP.:	
H2S BY STAIN TUBE:	_ *ppm mol*		
COMMENTS :	*SPOT* *NO PROBE*		

Componet	Mole %	Wt %
Helium	0.01	0.00
Hydrogen	0.04	0.00
Carbon Dioxide	0.02	0.05
Nitrogen	0.27	0.44
Methane	94.3371	87.7207
Ethane	3.7021	6.4523
Propane	0.9160	2.3413
Isobutane	0.1766	0.5949
n-Butane	0.1972	0.6644
Isopentane	0.0749	0.3132
n-Pentane	0.0517	0.2162
Cyclopentane	0.0006	0.0024
n-Hexane	0.0216	0.1079
Cyclohexane	0.0100	0.0488
Other Hexanes	0.0448	0.2226
Heptanes	0.0336	0.1943
Methylcyclohexane	0.0255	0.1451
2,2,4 Trimethylpentane	0.0000	0.0000
Benzene	0.0015	0.0068
Toluene	0.0021	0.0112
Ethylbenzene	0.0007	0.0043
Xylenes	0.0023	0.0142
C8+ Heavies	0.0614	0.4488
Subtotal	99.99970	99.99940
Oxygen/Argon	0.00	0.00
Alcohols	0.0003	0.0006
Total	100.00000	100.00000

Calculated Values BTU @ **14.65**	**Total Sample**	**C6+ Fraction**	**C8+ Fraction**	**C10+ Fraction**	
LHV Net Dry Real:	963.5	5145.8	6259.1	7771.8	**Btu/scf**
Net Wet Real:	946.7	5055.8	6149.7	7635.9	**Btu/scf**
HHV Gross Dry Real:	1067.7	5541.9	6743.8	8414.0	**Btu/scf**
Gross Wet Real:	1049.0	5445.0	6625.9	8266.9	**Btu/scf**
Other Calculated Values					
Regualr Wobbe Index*	1386.0	2945.1	3251.6	3653.7	**Btu/scf**
Net Heating Value (60 °F ideal reaction):	21238.4	19293.8	19352.9	18620.7	**Btu/lbm**
Gross Heating Value (60°F ideal reaction):	23537.3	20774.6	20851.3	20158.8	**Btu/lbm**
Molar Mass (MW):	17.25338	101.98	124.942	154.508	**g/mol**
Relative Density (AIR=1):	0.5944	3.5211	4.3140	5.3344	**SG**
Density:	0.04546	0.26872	0.32927	0.40714	**lbm/scf**
Compressiblity Factor:	0.9977	0.9941	0.9983	0.9998	**Z**
Liquid Volume real gas @: **14.65**	17.4253	0.0837	0.0279	0.005	**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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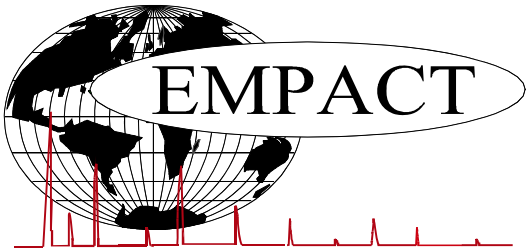

EXTENDED NATURAL GAS ANALYSIS (*DHA)

DHA COMPONENT LIST

PRIMARY DB KEY:	**05-045-10733**	NAME/DESCRIP :	**300105029 PF31 FEDERAL 31-7**
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FIELD/AREA:			
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PRODUCER :	QB ENERGY OPERATING, LLC	EFFECTIVE DATE:	
FIELD DATA			
SAMPLE CYCLE:		SAMPLE TYPE:	SPOT
SAMPLE PRES. :	280 psig	PROBE :	NO
FLOW PRES. :	psig	CYLINDER NO. :	ECA-751
LAB PRES:	psig	SAMPLED BY :	MIKE KELLEY
SAMPLE TEMP. :	39 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**
Helium	---	0.01	0.00	---	---
Hydrogen	---	0.04	0.00	---	---
Nitrogen	---	0.27	0.44	---	---
Carbon Dioxide	---	0.02	0.05	---	---
Methane	P1	94.3371	87.7207	---	---
Ethane	P2	3.7021	6.4523	0.987	0.993
Propane	P3	0.9160	2.3413	0.252	0.253
i-Butane	I4	0.1766	0.5949	0.058	0.058
Methanol	X1	0.0003	0.0006	0.000	0.000
n-Butane	P4	0.1972	0.6644	0.062	0.062
2,2-Dimethylpropane	I5	0.0026	0.0109	0.001	0.001
i-Pentane	I5	0.0723	0.3023	0.026	0.026
n-Pentane	P5	0.0516	0.2158	0.019	0.019
2,2-Dimethylbutane	I6	0.0027	0.0135	0.001	0.001
Cyclopentane	N5	0.0006	0.0024	0.000	0.000
2,3-Dimethylbutane	I6	0.0041	0.0205	0.002	0.002
2-Methylpentane	I6	0.0176	0.0879	0.007	0.007
3-Methylpentane	I6	0.0094	0.0470	0.004	0.004
UnknownC5s	U5	0.0001	0.0004	0.000	0.000
n-Hexane	P6	0.0216	0.1079	0.009	0.009
2,2-Dimethylpentane	I7	0.0005	0.0029	0.000	0.000
Methylcyclopentane	N6	0.0110	0.0537	0.004	0.004
2,4-Dimethylpentane	I7	0.0011	0.0064	0.001	0.001
2,2,3-Trimethylbutane	I7	0.0003	0.0017	0.000	0.000
Benzene	A6	0.0015	0.0068	0.000	0.000
3,3-Dimethylpentane	I7	0.0004	0.0023	0.000	0.000
Cyclohexane	N6	0.0100	0.0488	0.003	0.003
2-Methylhexane	I7	0.0052	0.0302	0.002	0.002
2,3-Dimethylpentane	I7	0.0013	0.0075	0.001	0.001

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1,1-Dimethylcyclopentane	N7	0.0010	0.0057	0.000	0.000
3-Methylhexane	I7	0.0047	0.0273	0.002	0.002
1c,3-Dimethylcyclopentane	N7	0.0017	0.0097	0.001	0.001
1t,3-Dimethylcyclopentane	N7	0.0015	0.0085	0.001	0.001
3-Ethylpentane	I7	0.0002	0.0012	0.000	0.000
1t,2-Dimethylcyclopentane	N7	0.0024	0.0137	0.001	0.001
n-Heptane	P7	0.0120	0.0697	0.006	0.006
1c,2-Dimethylcyclopentane	N7	0.0002	0.0012	0.000	0.000
Methylcyclohexane	N7	0.0255	0.1451	0.010	0.010
2,2-Dimethylhexane	I8	0.0006	0.0040	0.000	0.000
1,1,3-Trimethylcyclopentane	N7	0.0001	0.0006	0.000	0.000
Ethylcyclopentane	N7	0.0009	0.0051	0.000	0.000
2,5-Dimethylhexane	I8	0.0007	0.0046	0.000	0.000
2,2,3-Trimethylpentane	I8	0.0006	0.0040	0.000	0.000
2,4-Dimethylhexane	I8	0.0001	0.0006	0.000	0.000
1c,2t,4-Trimethylcyclopentane	N8	0.0005	0.0033	0.000	0.000
3,3-Dimethylhexane	I8	0.0002	0.0013	0.000	0.000
2,3,3-Trimethylpentane	I8	0.0001	0.0006	0.000	0.000
Toluene	A7	0.0021	0.0112	0.001	0.001
2,3-Dimethylhexane	I8	0.0006	0.0040	0.000	0.000
2-Methyl-3-ethylpentane	I8	0.0001	0.0006	0.000	0.000
2-Methylheptane	I8	0.0034	0.0225	0.002	0.002
4-Methylheptane	I8	0.0010	0.0066	0.001	0.001
3-Methyl-3-ethylpentane	I8	0.0001	0.0006	0.000	0.000
3,4-Dimethylhexane	I8	0.0001	0.0006	0.000	0.000
1c,3-Dimethylcyclohexane	N8	0.0001	0.0006	0.000	0.000
3-Methylheptane	I8	0.0024	0.0159	0.001	0.001
1c,2t,3-Trimethylcyclopentane	N8	0.0043	0.0280	0.002	0.002
3-Ethylhexane	I8	0.0003	0.0020	0.000	0.000
1t,4-Dimethylcyclohexane	N8	0.0017	0.0111	0.001	0.001
1,1-Dimethylcyclohexane	N8	0.0006	0.0039	0.000	0.000
2,2,5-Trimethylhexane	I9	0.0001	0.0008	0.000	0.000
3c-Ethylmethylcyclopentane	N8	0.0002	0.0013	0.000	0.000
3t-Ethylmethylcyclopentane	N8	0.0002	0.0013	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	0.0014	0.0091	0.001	0.001
1t,3-Dimethylcyclohexane	N8	0.0001	0.0006	0.000	0.000
UnknownC7s	U7	0.0001	0.0006	0.000	0.000
n-Octane	P8	0.0090	0.0596	0.005	0.005
1c,4-Dimethylcyclohexane	N8	0.0010	0.0065	0.001	0.001
i-Propylcyclopentane	I8	0.0001	0.0006	0.000	0.000
2,3,5-Trimethylhexane	I9	0.0002	0.0015	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	0.0005	0.0037	0.000	0.000
1,1,4-Trimethylcyclohexane	N9	0.0014	0.0103	0.001	0.001
2,2,3-Trimethylhexane	I9	0.0004	0.0030	0.000	0.000
2,4-Dimethylheptane	I9	0.0001	0.0008	0.000	0.000
4,4-Dimethylheptane	I9	0.0001	0.0008	0.000	0.000
Ethylcyclohexane	N8	0.0015	0.0097	0.001	0.001
n-Propylcyclopentane	N8	0.0006	0.0039	0.000	0.000
1c,3c,5-Trimethylcyclohexane	N9	0.0003	0.0022	0.000	0.000
2,5-Dimethylheptane	I9	0.0010	0.0074	0.001	0.001
3,3-Dimethylheptane	I9	0.0002	0.0015	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	0.0007	0.0043	0.000	0.000
2,3-Dimethylheptane	I9	0.0001	0.0008	0.000	0.000

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1,3-Dimethylbenzene (m-Xylene)	A8	0.0016	0.0099	0.001	0.001
1,4-Dimethylbenzene (p-Xylene)	A8	0.0004	0.0024	0.000	0.000
3,4-Dimethylheptane	I9	0.0001	0.0008	0.000	0.000
3,4-Dimethylheptane (2)	I9	0.0001	0.0008	0.000	0.000
4-Ethylheptane	I9	0.0001	0.0008	0.000	0.000
4-Methyloctane	I9	0.0007	0.0052	0.000	0.000
2-Methyloctane	I9	0.0011	0.0082	0.001	0.001
3-Ethylheptane	I9	0.0001	0.0008	0.000	0.000
3-Methyloctane	I9	0.0001	0.0008	0.000	0.000
1c,2t,4c-Trimethylcyclohexane	I9	0.0010	0.0073	0.001	0.001
1,1,2-Trimethylcyclohexane	N9	0.0001	0.0008	0.000	0.000
3,3-Diethylpentane	I9	0.0001	0.0008	0.000	0.000
1,2-Dimethylbenzene (o-Xylene)	A8	0.0003	0.0019	0.000	0.000
i-Butylcyclopentane	N9	0.0006	0.0044	0.000	0.000
UnknownC8s	U8	0.0001	0.0006	0.000	0.000
n-Nonane	P9	0.0041	0.0305	0.002	0.002
1,1-Methylethylcyclohexane	N9	0.0003	0.0022	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	0.0001	0.0008	0.000	0.000
2,6-Dimethyloctane	I10	0.0001	0.0008	0.000	0.000
2,5-Dimethyloctane	I10	0.0001	0.0008	0.000	0.000
n-Butylcyclopentane	N9	0.0003	0.0022	0.000	0.000
3,3-Dimethyloctane	I10	0.0002	0.0016	0.000	0.000
n-Propylbenzene	A9	0.0004	0.0028	0.000	0.000
3,6-Dimethyloctane	I10	0.0001	0.0008	0.000	0.000
3-Methyl-5-ethylheptane	I10	0.0001	0.0008	0.000	0.000
1,3-Methylethylbenzene	A9	0.0003	0.0021	0.000	0.000
1,4-Methylethylbenzene	A9	0.0001	0.0007	0.000	0.000
1,3,5-Trimethylbenzene	A9	0.0004	0.0028	0.000	0.000
2,3-Dimethyloctane	I10	0.0001	0.0008	0.000	0.000
5-Methylnonane	I10	0.0002	0.0016	0.000	0.000
1,2-Methylethylbenzene	A9	0.0001	0.0007	0.000	0.000
2-Methylnonane	I10	0.0003	0.0025	0.000	0.000
3-Methylnonane	I10	0.0002	0.0016	0.000	0.000
t-Butylbenzene	A10	0.0005	0.0039	0.000	0.000
i-Butylcyclohexane	N10	0.0001	0.0008	0.000	0.000
UnknownC9s	U9	0.0009	0.0067	0.001	0.001
n-Decane	P10	0.0010	0.0082	0.001	0.001
1,2,3-Trimethylbenzene	A9	0.0001	0.0007	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	0.0001	0.0009	0.000	0.000
1,4-Diethylbenzene	A10	0.0002	0.0016	0.000	0.000
1,4-Methyl-n-propylbenzene	A10	0.0001	0.0008	0.000	0.000
n-Butylbenzene	A10	0.0001	0.0008	0.000	0.000
1,2-Methyl-n-propylbenzene	A10	0.0001	0.0008	0.000	0.000
1,3-Dimethyl-4-ethylbenzene	A10	0.0002	0.0016	0.000	0.000
1,2-Dimethyl-4-ethylbenzene	A10	0.0001	0.0008	0.000	0.000
1,3-Dimethyl-2-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	0.0001	0.0009	0.000	0.000
UnknownC10s	U10	0.0012	0.0099	0.001	0.001
n-Undecane	P11	0.0010	0.0090	0.001	0.001
1,4-Ethyl-i-propylbenzene	A11	0.0001	0.0009	0.000	0.000
1,2,4,5-Tetramethylbenzene	A11	0.0001	0.0008	0.000	0.000
1,2-Methyl-n-butylbenzene	A11	0.0001	0.0009	0.000	0.000
1,2,3,5-Tetramethylbenzene	A11	0.0001	0.0008	0.000	0.000

1,2-Methyl-t-butylbenzene	A11	0.0001	0.0009	0.000	0.000
5-Methylindan	A11	0.0001	0.0008	0.000	0.000
4-Methylindan	A11	0.0001	0.0008	0.000	0.000
sec-Pentylbenzene	A11	0.0001	0.0009	0.000	0.000
n-Pentylbenzene	A11	0.0001	0.0009	0.000	0.000
1,2-Di-n-propylbenzene	A11	0.0001	0.0009	0.000	0.000
1,4-Di-i-propylbenzene	A11	0.0001	0.0009	0.000	0.000
Tetrahydronaphthalene	A10	0.0002	0.0015	0.000	0.000
Naphthalene	A10	0.0001	0.0008	0.000	0.000
1,3-Di-n-propylbenzene	A12	0.0001	0.0009	0.000	0.000
UnknownC11s	U11	0.0005	0.0045	0.000	0.000
n-Dodecane	P12	0.0008	0.0079	0.001	0.001
1,3,5-Triethylbenzene	A12	0.0002	0.0019	0.000	0.000
1,4-Methyl-n-pentylbenzene	A12	0.0001	0.0009	0.000	0.000
n-Hexylbenzene	A12	0.0003	0.0028	0.000	0.000
1,2,3,4,5-Pentamethylbenzene	A13	0.0002	0.0017	0.000	0.000
UnknownC12s	U12	0.0006	0.0055	0.000	0.000
n-Tridecane	P13	0.0005	0.0053	0.000	0.000
UnknownC13s	U13	0.0007	0.0075	0.001	0.001
n-Tetradecane	P14	0.0001	0.0012	0.000	0.000
UnknownC14s	U14	0.0002	0.0023	0.000	0.000
n-Pentadecane	P15	0.0001	0.0012	0.000	0.000
UnknownC15s	U15	0.0003	0.0037	0.000	0.000
n-Heptadecane	P17	0.0001	0.0014	0.000	0.000
TOTAL		100.00000	100.00000	1.4889	1.4966

BTEX COMPONENTS	MOLE%	WT%
BENZENE	0.0015	0.0068
TOLUENE	0.0021	0.0112
ETHYLBENZENE	0.0007	0.0043
XYLENES	0.0023	0.0142
TOTAL BTEX	0.0066	0.0365

**(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 :	963.5	**/scf**	968.7	**/scf**
	NET WET REAL :	946.7	**/scf**	951.9	**/scf**
HHV	GROSS DRY REAL :	1067.7	**/scf**	1073.5	**/scf**
	GROSS WET REAL :	1049.0	**/scf**	1054.8	**/scf**
	NET HEATING VALUE (60 °F ideal reaction):			21238.4	**Btu/lbm**
	GROSS HEATING VALUE (60°F ideal reaction):			23537.3	**Btu/lbm**
	RELATIVE DENSITY (AIR=1):			0.5944	
	DENSITY			0.04546	**lb/scf**
	COMPRESSIBILITY FACTOR :			0.9977	
	REGULAR WOBBE INDEX			1386.0	

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

Net Dry Ideal BTU	5131.5 **/scf**	Relative Density - SG (Air=1)	3.5211	***C6+factors***
Gross Dry Ideal BTU	5526.4 **/scf**	**Z** Compressiblity Factor	0.99409	0.99297
Net Dry Ideal BTU	19293.8 **/lb**	Density Factor	268.72 **lbm/1000 ft3**	
Gross Dry Ideal BTU	20774.6 **/lb**	Molar Mass or MW	101.98 **g/mol**	
		Volume Liquid Ideal gas	0.084 **scf/gal**	22

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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