



**EXTENDED NATURAL GAS ANALYSIS (\*DHA)**

**MAIN PAGE**

PRIMARY DB KEY: **05-103-10782**      NAME/DESCRIP : **FEDERAL 4S-95-1-21DP**  
 LEASE #: **INTERMEDIATE CASING**  
 FIELD/AREA:

PROJECT NO. : **202501047**      ANALYSIS NO. : **01**  
 COMPANY NAME : **QB ENERGY OPERATING, LLC**      ANALYSIS DATE: **JANUARY 27, 2025 09:40**  
 OFFICE / BRANCH: **PARACHUTE**      SAMPLE DATE : **DECEMBER 16, 2024 15:00**  
 CUSTOMER REF: **TO:**  
 PRODUCER : **QB ENERGY OPERATING, LLC**      EFFECTIVE DATE:

**\*\*\*FIELD DATA\*\*\***

SAMPLE CYCLE:      SAMPLE TYPE:      SPOT  
 SAMPLE PRES. : 1647      psig      PROBE :  
 FLOW PRES. :      psig      CYLINDER NO. :      TBI-567  
 LAB PRES:      psig      SAMPLED BY :      ROWDY HAMILTON  
 SAMPLE TEMP. : 12      °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: **INT CSG Sample 2**  
 LAB COMMENTS:

COMPONENT	MOLE %	MASS %	GPM @	GPM @
			14.65	14.73
ALCOHOLS	0.0002	0.0004	0.0000	0.0000
HELIUM	0.00	0.00	---	---
HYDROGEN	0.22	0.03	---	---
OXYGEN/ARGON	0.00	0.00	---	---
NITROGEN	0.10	0.16	---	---
CARBON DIOXIDE	0.02	0.05	---	---
METHANE	96.9947	91.3898	---	---
ETHANE	1.7703	3.1263	0.4715	0.4741
PROPANE	0.2223	0.5757	0.0609	0.0613
I-BUTANE	0.0711	0.2427	0.0230	0.0231
N-BUTANE	0.0402	0.1373	0.0130	0.0131
I-PENTANE	0.0264	0.1117	0.0090	0.0090
N-PENTANE	0.0081	0.0343	0.0030	0.0030
HEXANES PLUS	0.5267	4.1418	0.2870	0.2875
<b>TOTALS</b>	<b>100.00000</b>	<b>100.00000</b>	<b>0.8674</b>	<b>0.8711</b>

BTEX COMPONENTS	MOLE%	WT%
BENZENE	0.0182	0.0835
TOLUENE	0.0347	0.1878
ETHYLBENZENE	0.0029	0.0181
XYLENES	0.0283	0.1766
<b>TOTAL BTEX</b>	<b>0.0841</b>	<b>0.4660</b>

	CALCULATED VALUES**	
	BTU @	
	14.65	14.73
LHV NET DRY REAL :	954.5 /scf	959.7 /scf
NET WET REAL :	937.8 /scf	943.0 /scf
HHV GROSS DRY REAL :	1058.1 /scf	1063.9 /scf
GROSS WET REAL :	1039.6 /scf	1045.4 /scf
NET HEATING VALUE (60 °F ideal reaction):		21297.6 Btu/lbm
GROSS HEATING VALUE (60°F ideal reaction):		23613.1 Btu/lbm
RELATIVE DENSITY (AIR=1):		0.5870
DENSITY		0.04486 lbm/scf
COMPRESSIBILITY FACTOR :		0.9979
REGULAR WOBBE INDEX		1382.5

\*(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.



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

PROJECT NO. :	202501047	ANALYSIS NO. :	01
COMPANY NAME :	QB ENERGY OPERATING, LLC	ANALYSIS DATE:	JANUARY 27, 2025 09:40
ACCOUNT NO. :		SAMPLE DATE :	DECEMBER 16, 2024 15:00
PRODUCER :	QB ENERGY OPERATING, LLC	CYLINDER NO. :	TBI-567
LEASE NO. :		SAMPLED BY :	ROWDY HAMILTON
NAME/DESCRIP :	FEDERAL 4S-95-1-21DP INTERMEDIATE CASING		

***FIELD DATA***		SAMPLE TEMP. :	12
SAMPLE PRES. :	1647	AMBIENT TEMP.:	
H2S BY STAIN TUBE:	—		
COMMENTS :	<i>SPOT</i>		

<u>Componet</u>	<u>Mole %</u>	<u>Wt %</u>
Helium	0.00	0.00
Hydrogen	0.22	0.03
Carbon Dioxide	0.02	0.05
Nitrogen	0.10	0.16
Methane	96.9947	91.3898
Ethane	1.7703	3.1263
Propane	0.2223	0.5757
Isobutane	0.0711	0.2427
n-Butane	0.0402	0.1373
Isopentane	0.0255	0.1080
n-Pentane	0.0081	0.0343
Cyclopentane	0.0009	0.0037
n-Hexane	0.0060	0.0304
Cyclohexane	0.0078	0.0385
Other Hexanes	0.0218	0.1097
Heptanes	0.0234	0.1372
Methylcyclohexane	0.0224	0.1292
2,2,4 Trimethylpentane	0.0001	0.0007
Benzene	0.0182	0.0835
Toluene	0.0347	0.1878
Ethylbenzene	0.0029	0.0181
Xylenes	0.0283	0.1766
C8+ Heavies	0.3611	3.2301
<u>Subtotal</u>	<u>99.99980</u>	<u>99.99960</u>
Oxygen/Argon	0.00	0.00
Alcohols	0.0002	0.0004
<u>Total</u>	<u>100.00000</u>	<u>100.00000</u>

	<b>Total</b>	<b>C6+</b>	<b>C8+</b>	<b>C10+</b>
<b>Calculated Values BTU @</b>	<b>Sample</b>	<b>Fraction</b>	<b>Fraction</b>	<b>Fraction</b>
LHV Net Dry Real:	954.5	6673.0	7437.9	8130.3 Btu/scf
Net Wet Real:	937.8	6556.3	7307.9	7988.2 Btu/scf
HHV Gross Dry Real:	1058.1	7187.6	8029.4	8800.2 Btu/scf
Gross Wet Real:	1039.6	7062.0	7889.0	8646.4 Btu/scf

<b>Other Calculated Values</b>				
Regualr Wobbe Index*	1382.5	3350.4	3554.7	3742.5 Btu/scf
Net Heating Value (60 °F ideal reaction):	21297.6	18506.7	18482.7	18431.4 Btu/lbm
Gross Heating Value (60°F ideal reaction):	23613.1	19929.6	19948.8	19946.1 Btu/lbm
Molar Mass (MW):	17.02648	133.833	148.581	161.112 g/mol
Relative Density (AIR=1):	0.5870	4.6204	5.1306	5.5626 SG
Density:	0.04486	0.35269	0.39154	0.42455 lbm/scf
Compressibility Factor:	0.9979	0.9988	0.9996	0.9999 Z
Liquid Volume real gas @:	17.2488	0.2861	0.2363	0.1894 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.



2,3-Dimethylpentane	I7	0.0011	0.0065	0.000	0.000
1,1-Dimethylcyclopentane	N7	0.0009	0.0052	0.000	0.000
3-Methylhexane	I7	0.0037	0.0218	0.002	0.002
1c,3-Dimethylcyclopentane	N7	0.0012	0.0069	0.001	0.001
1t,3-Dimethylcyclopentane	N7	0.0011	0.0063	0.001	0.001
3-Ethylpentane	I7	0.0002	0.0012	0.000	0.000
1t,2-Dimethylcyclopentane	N7	0.0018	0.0104	0.001	0.001
2,2,4-Trimethylpentane	I8	0.0001	0.0007	0.000	0.000
UnknownC6s	U6	0.0001	0.0005	0.000	0.000
n-Heptane	P7	0.0059	0.0347	0.003	0.003
1c,2-Dimethylcyclopentane	N7	0.0003	0.0017	0.000	0.000
Methylcyclohexane	N7	0.0224	0.1292	0.009	0.009
2,2-Dimethylhexane	I8	0.0006	0.0041	0.000	0.000
1,1,3-Trimethylcyclopentane	N7	0.0002	0.0013	0.000	0.000
Ethylcyclopentane	N7	0.0007	0.0041	0.000	0.000
2,5-Dimethylhexane	I8	0.0008	0.0053	0.000	0.000
2,2,3-Trimethylpentane	I8	0.0007	0.0047	0.000	0.000
2,4-Dimethylhexane	I8	0.0001	0.0007	0.000	0.000
1c,2t,4-Trimethylcyclopentane	N8	0.0004	0.0026	0.000	0.000
3,3-Dimethylhexane	I8	0.0003	0.0020	0.000	0.000
2,3,4-Trimethylpentane	I8	0.0001	0.0007	0.000	0.000
2,3,3-Trimethylpentane	I8	0.0001	0.0007	0.000	0.000
Toluene	A7	0.0347	0.1878	0.012	0.012
2,3-Dimethylhexane	I8	0.0006	0.0041	0.000	0.000
2-Methyl-3-ethylpentane	I8	0.0001	0.0007	0.000	0.000
2-Methylheptane	I8	0.0031	0.0208	0.002	0.002
4-Methylheptane	I8	0.0010	0.0067	0.001	0.001
3-Methyl-3-ethylpentane	I8	0.0002	0.0014	0.000	0.000
3,4-Dimethylhexane	I8	0.0001	0.0007	0.000	0.000
3-Methylheptane	I8	0.0029	0.0194	0.001	0.001
1c,2t,3-Trimethylcyclopentane	N8	0.0043	0.0284	0.002	0.002
3-Ethylhexane	I8	0.0002	0.0014	0.000	0.000
1t,4-Dimethylcyclohexane	N8	0.0019	0.0125	0.001	0.001
1,1-Dimethylcyclohexane	N8	0.0008	0.0053	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	0.0001	0.0007	0.000	0.000
2t-Ethylmethylcyclopentane	N8	0.0001	0.0007	0.000	0.000
1t,2-Dimethylcyclohexane	N8	0.0014	0.0092	0.001	0.001
1t,3-Dimethylcyclohexane	N8	0.0001	0.0007	0.000	0.000
UnknownC7s	U7	0.0001	0.0006	0.000	0.000
n-Octane	P8	0.0069	0.0463	0.004	0.004
1c,4-Dimethylcyclohexane	N8	0.0011	0.0072	0.001	0.001
i-Propylcyclopentane	I8	0.0001	0.0007	0.000	0.000
2,3,5-Trimethylhexane	I9	0.0002	0.0015	0.000	0.000
2,3,4-Trimethylhexane	I9	0.0001	0.0008	0.000	0.000
2,2-Dimethylheptane	I9	0.0004	0.0030	0.000	0.000
1,1,4-Trimethylcyclohexane	N9	0.0016	0.0119	0.001	0.001
2,2,3-Trimethylhexane	I9	0.0003	0.0022	0.000	0.000
2,4-Dimethylheptane	I9	0.0002	0.0015	0.000	0.000
Ethylcyclohexane	N8	0.0010	0.0066	0.000	0.000
n-Propylcyclopentane	N8	0.0006	0.0039	0.000	0.000
1c,3c,5-Trimethylcyclohexane	N9	0.0005	0.0037	0.000	0.000
2,5-Dimethylheptane	I9	0.0014	0.0106	0.001	0.001
3,3-Dimethylheptane	I9	0.0004	0.0030	0.000	0.000
3,5-Dimethylheptane	I9	0.0002	0.0015	0.000	0.000
2,6-Dimethylheptane	I9	0.0002	0.0015	0.000	0.000
1,1,3-Trimethylcyclohexane	N9	0.0001	0.0008	0.000	0.000
Ethylbenzene	I8	0.0029	0.0181	0.001	0.001
2,3-Dimethylheptane	I9	0.0001	0.0008	0.000	0.000
1,3-Dimethylbenzene (m-Xylene)	A8	0.0182	0.1135	0.007	0.007

1,4-Dimethylbenzene (p-Xylene)	A8	0.0061	0.0381	0.002	0.002
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	0.0003	0.0022	0.000	0.000
4-Methyloctane	I9	0.0018	0.0136	0.001	0.001
2-Methyloctane	I9	0.0025	0.0189	0.001	0.001
1c,2t,3-Trimethylcyclohexane	N9	0.0001	0.0008	0.000	0.000
3-Ethylheptane	I9	0.0001	0.0008	0.000	0.000
3-Methyloctane	I9	0.0004	0.0030	0.000	0.000
1c,2t,4c-Trimethylcyclohexane	I9	0.0025	0.0186	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	0.0040	0.0250	0.002	0.002
i-Butylcyclopentane	N9	0.0013	0.0096	0.001	0.001
UnknownC8s	U8	0.0001	0.0007	0.000	0.000
n-Nonane	P9	0.0103	0.0776	0.006	0.006
1,1-Methylethylcyclohexane	N9	0.0007	0.0052	0.000	0.000
i-Propylbenzene	A9	0.0005	0.0035	0.000	0.000
i-Propylcyclohexane	N9	0.0002	0.0015	0.000	0.000
2,2-Dimethyloctane	I10	0.0001	0.0008	0.000	0.000
2,4-Dimethyloctane	I10	0.0005	0.0042	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	0.0008	0.0059	0.000	0.000
3,3-Dimethyloctane	I10	0.0009	0.0075	0.001	0.001
n-Propylbenzene	A9	0.0017	0.0120	0.001	0.001
3,6-Dimethyloctane	I10	0.0013	0.0109	0.001	0.001
3-Methyl-5-ethylheptane	I10	0.0001	0.0008	0.000	0.000
1,3-Methylethylbenzene	A9	0.0053	0.0374	0.003	0.003
1,4-Methylethylbenzene	A9	0.0023	0.0162	0.001	0.001
1,3,5-Trimethylbenzene	A9	0.0052	0.0367	0.002	0.002
2,3-Dimethyloctane	I10	0.0009	0.0075	0.001	0.001
5-Methylnonane	I10	0.0020	0.0167	0.001	0.001
1,2-Methylethylbenzene	A9	0.0022	0.0155	0.001	0.001
2-Methylnonane	I10	0.0021	0.0176	0.001	0.001
3-Ethylheptane	I10	0.0003	0.0025	0.000	0.000
3-Methylnonane	I10	0.0026	0.0217	0.002	0.002
1,2,4-Trimethylbenzene	A9	0.0001	0.0007	0.000	0.000
t-Butylbenzene	A10	0.0093	0.0733	0.005	0.005
i-Butylcyclohexane	N10	0.0006	0.0049	0.000	0.000
1t-Methyl-2-n-propylcyclohexane	I10	0.0002	0.0016	0.000	0.000
i-Butylbenzene	A10	0.0003	0.0024	0.000	0.000
sec-Butylbenzene	A10	0.0002	0.0016	0.000	0.000
UnknownC9s	U9	0.0020	0.0151	0.001	0.001
n-Decane	P10	0.0167	0.1396	0.010	0.010
1,2,3-Trimethylbenzene	A9	0.0020	0.0141	0.001	0.001
1,3-Methyl-i-propylbenzene	A10	0.0002	0.0016	0.000	0.000
1,4-Methyl-i-propylbenzene	A10	0.0003	0.0024	0.000	0.000
Sec-Butylcyclohexane	A10	0.0006	0.0049	0.000	0.000
1,2-Methyl-i-propylbenzene	A10	0.0023	0.0182	0.001	0.001
3-Ethylnonane	I10	0.0017	0.0156	0.001	0.001
1,3-Diethylbenzene	A10	0.0004	0.0032	0.000	0.000
1,3-Methyl-n-propylbenzene	A10	0.0005	0.0039	0.000	0.000
1,4-Diethylbenzene	A10	0.0026	0.0205	0.001	0.001
1,4-Methyl-n-propylbenzene	A10	0.0011	0.0087	0.001	0.001
n-Butylbenzene	A10	0.0024	0.0189	0.001	0.001
1,3-Dimethyl-5-ethylbenzene	A10	0.0008	0.0063	0.001	0.001
1,2-Diethylbenzene	A10	0.0008	0.0063	0.000	0.000
t-Decahydronaphthalene	A9	0.0002	0.0018	0.000	0.000
1,2-Methyl-n-propylbenzene	A10	0.0021	0.0166	0.001	0.001
1,3-Dimethyl-4-ethylbenzene	A10	0.0048	0.0378	0.003	0.003
1,2-Dimethyl-4-ethylbenzene	A10	0.0015	0.0118	0.001	0.001

1,3-Dimethyl-2-ethylbenzene	A10	0.0032	0.0253	0.002	0.002
1,2-Dimethyl-3-ethylbenzene	A10	0.0007	0.0055	0.000	0.000
1,2-Ethyl-i-propylbenzene	A10	0.0020	0.0174	0.001	0.001
1,4-Methyl-t-butylbenzene	A11	0.0017	0.0148	0.001	0.001
UnknownC10s	U10	0.0061	0.0510	0.004	0.004
n-Undecane	P11	0.0278	0.2552	0.018	0.018
1,4-Ethyl-i-propylbenzene	A11	0.0015	0.0130	0.001	0.001
1,2,4,5-Tetramethylbenzene	A11	0.0019	0.0150	0.001	0.001
1,2-Methyl-n-butylbenzene	A11	0.0014	0.0122	0.001	0.001
1,2,3,5-Tetramethylbenzene	A11	0.0021	0.0166	0.001	0.001
1,2-Methyl-t-butylbenzene	A11	0.0018	0.0157	0.001	0.001
5-Methylindan	A11	0.0013	0.0101	0.001	0.001
4-Methylindan	A11	0.0010	0.0078	0.001	0.001
1,2-Ethyl-n-propylbenzene	A11	0.0009	0.0078	0.001	0.001
2-Methylindan	A11	0.0005	0.0039	0.000	0.000
1,3-Methyl-n-butylbenzene	A11	0.0009	0.0078	0.001	0.001
1,3-Di-i-propylbenzene	A11	0.0019	0.0181	0.001	0.001
sec-Pentylbenzene	A11	0.0030	0.0261	0.002	0.002
n-Pentylbenzene	A11	0.0005	0.0044	0.000	0.000
1,2-Di-n-propylbenzene	A11	0.0031	0.0295	0.002	0.002
1,4-Di-i-propylbenzene	A11	0.0011	0.0105	0.001	0.001
Tetrahydronaphthalene	A10	0.0045	0.0350	0.003	0.003
Naphthalene	A10	0.0007	0.0053	0.001	0.001
1-t-Butyl-3,5-dimethylbenzene	A12	0.0010	0.0095	0.001	0.001
1,4-Ethyl-t-butylbenzene	A11	0.0010	0.0095	0.001	0.001
1,3-Di-n-propylbenzene	A12	0.0017	0.0162	0.001	0.001
UnknownC11s	U11	0.0117	0.1074	0.008	0.008
n-Dodecane	P12	0.0314	0.3142	0.022	0.022
1,3,5-Triethylbenzene	A12	0.0056	0.0534	0.003	0.003
1,2,4-Triethylbenzene	A12	0.0020	0.0191	0.001	0.001
1,4-Methyl-n-pentylbenzene	A12	0.0037	0.0352	0.003	0.003
n-Hexylbenzene	A12	0.0042	0.0401	0.002	0.002
1,2,3,4,5-Pentamethylbenzene	A13	0.0054	0.0470	0.004	0.004
2-Methylnaphthalene	A11	0.0013	0.0109	0.001	0.001
1-Methylnaphthalene	A11	0.0012	0.0100	0.001	0.001
UnknownC12s	U12	0.0142	0.1304	0.009	0.009
n-Tridecane	P13	0.0179	0.1938	0.014	0.014
UnknownC13s	U13	0.0231	0.2501	0.018	0.018
n-Tetradecane	P14	0.0032	0.0373	0.003	0.003
UnknownC14s	U14	0.0117	0.1363	0.010	0.010
n-Pentadecane	P15	0.0004	0.0050	0.000	0.000
UnknownC15s	U15	0.0104	0.1297	0.009	0.009
n-Hexadecane	P16	0.0001	0.0014	0.000	0.000
UnknownC16s	U16	0.0012	0.0160	0.001	0.001
<b>TOTAL</b>		<b>100.00000</b>	<b>100.00000</b>	<b>0.8674</b>	<b>0.8711</b>

BTEX COMPONENTS	MOLE%	WT%	CALCULATED VALUES**		
			BTU @	14.65	14.73
BENZENE	0.0182	0.0835	LHV NET DRY REAL :	954.5 /scf	959.7 /scf
TOLUENE	0.0347	0.1878	NET WET REAL :	937.8 /scf	943.0 /scf
ETHYLBENZENE	0.0029	0.0181	HHV GROSS DRY REAL :	1058.1 /scf	1063.9 /scf
XYLENES	0.0283	0.1766	GROSS WET REAL :	1039.6 /scf	1045.4 /scf
TOTAL BTEX	0.0841	0.4660	NET HEATING VALUE (60 °F ideal reaction):		21297.6 Btu/lbm
			GROSS HEATING VALUE (60°F ideal reaction):		23613.1 Btu/lbm
			RELATIVE DENSITY (AIR=1):		0.5870
			DENSITY		0.04486 lb/scf
			COMPRESSIBILITY FACTOR :		0.9979
			REGULAR WOBBE INDEX		1382.5

\*(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>6686.1</u> /scf	Relative Density - SG (Air=1)	<u>4.6204</u>	<b>C6+ factors</b>
Gross Dry Ideal BTU	<u>7201.7</u> /scf	Z Compressibility Factor	<u>0.99882</u>	<u>0.99795</u>
Net Dry Ideal BTU	<u>18506.7</u> /lb	Density Factor	<u>352.686</u> lbm/1000 ft3	
Gross Dry Ideal BTU	<u>19929.6</u> /lb	Molar Mass or MW	<u>133.833</u> g/mol	
		Volume Liquid Ideal gas	<u>0.287</u> scf/gal	<u>18.2</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.