

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

**MAIN PAGE**

PRIMARY DB KEY: **05-045-19136** NAME/DESCRIP : **SGV FEDERAL #6-44D (8D)**  
 LEASE #: **300115252, COC-23443** CASING  
 FIELD/AREA: **PARACHUTE - #67350**

PROJECT NO. : **202405084** ANALYSIS NO. : **03**  
 COMPANY NAME : **CAERUS OIL & GAS LLC** ANALYSIS DATE: **MAY 17, 2024 08:48**  
 OFFICE / BRANCH: **PARACHUTE, CO** SAMPLE DATE : **MAY 9, 2024 9:00**  
 CUSTOMER REF: TO:  
 PRODUCER : **CAERUS PICEANCE LLC** EFFECTIVE DATE:

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

SAMPLE CYCLE: SAMPLE TYPE: SPOT  
 SAMPLE PRES. : 628 psig PROBE : NO  
 FLOW PRES. : psig CYLINDER NO. : ECA-751  
 LAB PRES: psig SAMPLED BY : ALEX GALLEGOS  
 SAMPLE TEMP. : 51 °f SAMPLING COMPANY: CAERUS OIL & GAS LLC  
 AMBIENT TEMP.: °f 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	14.73
ALCOHOLS	0.1616	0.2899	0.0210	0.0211
HELIUM	0.01	0.00	---	---
HYDROGEN	0.08	0.01	---	---
OXYGEN/ARGON	0.00	0.00	---	---
NITROGEN	0.10	0.16	---	---
CARBON DIOXIDE	0.02	0.05	---	---
METHANE	91.6677	82.2458	---	---
ETHANE	5.1664	8.6883	1.3771	1.3847
PROPANE	1.6012	3.9488	0.4397	0.4421
I-BUTANE	0.3132	1.0181	0.1019	0.1025
N-BUTANE	0.3527	1.1465	0.1109	0.1115
I-PENTANE	0.1464	0.5901	0.0530	0.0532
N-PENTANE	0.1110	0.4479	0.0400	0.0402
HEXANES PLUS	0.2698	1.4046	0.1060	0.1063
<b>TOTALS</b>	<b>100.00000</b>	<b>100.00000</b>	<b>2.2496</b>	<b>2.2616</b>

BTEX COMPONENTS	MOLE%	WT%
BENZENE	0.0001	0.0004
TOLUENE	0.0002	0.0010
ETHYLBENZENE	0.0001	0.0006
XYLENES	0.0001	0.0006
<b>TOTAL BTEX</b>	<b>0.0005</b>	<b>0.0026</b>

	CALCULATED VALUES**	
	14.65	14.73
<b>BTU @</b>		
LHV NET DRY REAL :	996.4 /scf	1001.8 /scf
NET WET REAL :	979.0 /scf	984.4 /scf
HHV GROSS DRY REAL :	1103.5 /scf	1109.5 /scf
GROSS WET REAL :	1084.2 /scf	1090.2 /scf
NET HEATING VALUE (60 °F ideal reaction):		21184.2 Btu/lbm
GROSS HEATING VALUE (60°F ideal reaction):		23453.4 Btu/lbm
RELATIVE DENSITY (AIR=1):		0.6167
DENSITY		0.04711 lbm/scf
COMPRESSIBILITY FACTOR :		0.9975
REGULAR WOBBE INDEX		1406.1

\*(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. :	202405084	ANALYSIS NO. :	03
COMPANY NAME :	CAERUS OIL & GAS LLC	ANALYSIS DATE:	MAY 17, 2024 08:48
ACCOUNT NO. :		SAMPLE DATE :	MAY 9, 2024 9:00
PRODUCER :	CAERUS PICEANCE LLC	CYLINDER NO. :	ECA-751
LEASE NO. :	300115252, COC-23443	SAMPLED BY :	ALEX GALLEGOS
NAME/DESCRIP :	SGV FEDERAL #6-44D (8D) CASING		

***FIELD DATA***		SAMPLE TEMP. :	51
SAMPLE PRES. :	628	AMBIENT TEMP.:	
H2S BY STAIN TUBE:	—		
COMMENTS :	<i>SPOT</i>		<i>NO PROBE</i>

<u>Componet</u>	<u>Mole %</u>	<u>Wt %</u>
Helium	0.01	0.00
Hydrogen	0.08	0.01
Carbon Dioxide	0.02	0.05
Nitrogen	0.10	0.16
Methane	91.6677	82.2458
Ethane	5.1664	8.6883
Propane	1.6012	3.9488
Isobutane	0.3132	1.0181
n-Butane	0.3527	1.1465
Isopentane	0.1408	0.5681
n-Pentane	0.1110	0.4479
Cyclopentane	0.0056	0.0220
n-Hexane	0.0495	0.2386
Cyclohexane	0.0175	0.0824
Other Hexanes	0.0901	0.4319
Heptanes	0.0561	0.3127
Methylcyclohexane	0.0293	0.1609
2,2,4 Trimethylpentane	0.0000	0.0000
Benzene	0.0001	0.0004
Toluene	0.0002	0.0010
Ethylbenzene	0.0001	0.0006
Xylenes	0.0001	0.0006
C8+ Heavies	0.0268	0.1755
<u>Subtotal</u>	<u>99.83840</u>	<u>99.71010</u>
Oxygen/Argon	0.00	0.00
Alcohols	0.1616	0.2899
<u>Total</u>	<u>100.00000</u>	<u>100.00000</u>

	<u>Total</u>	<u>C6+</u>	<u>C8+</u>	<u>C10+</u>
<b>Calculated Values BTU @ <u>14.65</u></b>	<b>Sample</b>	<b>Fraction</b>	<b>Fraction</b>	<b>Fraction</b>
LHV Net Dry Real:	996.4	4737.3	5883.5	6971.1 Btu/scf
Net Wet Real:	979.0	4654.5	5780.6	6849.2 Btu/scf
HHV Gross Dry Real:	1103.5	5103.7	6335.9	7486.7 Btu/scf
Gross Wet Real:	1084.2	5014.5	6225.1	7355.8 Btu/scf
<b>Other Calculated Values</b>				
Regualr Wobbe Index*	1406.1	2830.0	3146.3	3400.2 Btu/scf
Net Heating Value (60 °F ideal reaction):	21184.2	19370.5	19646.7	18820.8 Btu/lbm
Gross Heating Value (60°F ideal reaction):	23453.4	20871.5	21160.9	20214.9 Btu/lbm
Molar Mass (MW):	17.87991	93.17	117.568	141.176 g/mol
Relative Density (AIR=1):	0.6167	3.2159	4.0597	4.8745 SG
Density:	0.04711	0.24550	0.30982	0.37202 lbm/scf
Compressibility Factor:	0.9975	0.9913	0.9974	0.9996 Z
Liquid Volume real gas @:	<u>14.65</u>	17.7184	0.1057	0.007
				0 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.

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

PRIMARY DB KEY:	<b>05-045-19136</b>	NAME/DESCRIP :	<b>SGV FEDERAL #6-44D (8D)</b>
LEASE #:	<b>300115252, COC-23443</b>		<b>CASING</b>
FIELD/AREA:	<b>PARACHUTE - #67350</b>		
PROJECT NO. :	<b>202405084</b>	ANALYSIS NO. :	<b>03</b>
COMPANY NAME :	<b>CAERUS OIL &amp; GAS LLC</b>	ANALYSIS DATE:	<b>MAY 17, 2024 08:48</b>
OFFICE / BRANCH:	<b>PARACHUTE, CO</b>	SAMPLE DATE :	<b>MAY 9, 2024 9:00</b>
CUSTOMER REF:		TO:	
PRODUCER :	<b>CAERUS PICEANCE LLC</b>	EFFECTIVE DATE:	
<b>***FIELD DATA***</b>			
SAMPLE CYCLE:		SAMPLE TYPE:	<b>SPOT</b>
SAMPLE PRES. :	<b>628</b>	PROBE :	<b>NO</b>
FLOW PRES. :		PSIG	
LAB PRES:		CYLINDER NO. :	<b>ECA-751</b>
SAMPLE TEMP. :	<b>51</b>	SAMPLED BY :	<b>ALEX GALLEGOS</b>
AMBIENT TEMP.:		SAMPLING COMPANY:	<b>CAERUS OIL &amp; GAS LLC</b>
H2O BY STAIN TUBE:	<b>-</b>	H2S BY STAIN TUBE:	<b>- ppm mol</b>
FIELD COMMENTS:		CO2 BY STAIN TUBE:	<b>- Mol %</b>
LAB COMMENTS:			

COMPONENT	PIANO #	MOLE %	MASS %	GPM @ 14.65	GPM @ 14.73
Helium	---	0.01	0.00	---	---
Hydrogen	---	0.08	0.01	---	---
Oxygen/Argon	---	0.00	0.00	---	---
Nitrogen	---	0.10	0.16	---	---
Carbon Dioxide	---	0.02	0.05	---	---
Carbon Monoxide	---	0.00	0.00	---	---
Methane	P1	91.6677	82.2458	---	---
Ethane	P2	5.1664	8.6883	1.377	1.385
Propane	P3	1.6012	3.9488	0.440	0.442
i-Butane	I4	0.3132	1.0181	0.102	0.103
Methanol	X1	0.1614	0.2893	0.021	0.021
n-Butane	P4	0.3526	1.1462	0.111	0.112
2,2-Dimethylpropane	I5	0.0039	0.0157	0.001	0.001
Ethanol	X2	0.0001	0.0003	0.000	0.000
i-Pentane	I5	0.1369	0.5524	0.050	0.050
i-Propanol	X3	0.0001	0.0003	0.000	0.000
UnknownC4s	U4	0.0001	0.0003	0.000	0.000
n-Pentane	P5	0.1110	0.4479	0.040	0.040
2,2-Dimethylbutane	I6	0.0045	0.0217	0.002	0.002
Cyclopentane	N5	0.0056	0.0220	0.002	0.002
2,3-Dimethylbutane	I6	0.0079	0.0381	0.003	0.003
2-Methylpentane	I6	0.0369	0.1778	0.015	0.015
3-Methylpentane	I6	0.0192	0.0926	0.008	0.008
n-Hexane	P6	0.0495	0.2386	0.020	0.020
2,2-Dimethylpentane	I7	0.0011	0.0061	0.001	0.001
Methylcyclopentane	N6	0.0216	0.1017	0.008	0.008
2,4-Dimethylpentane	I7	0.0021	0.0117	0.001	0.001
2,2,3-Trimethylbutane	I7	0.0004	0.0022	0.000	0.000
Benzene	A6	0.0001	0.0004	0.000	0.000
3,3-Dimethylpentane	I7	0.0005	0.0028	0.000	0.000

Cyclohexane	N6	0.0175	0.0824	0.006	0.006
2-Methylhexane	I7	0.0094	0.0527	0.004	0.004
2,3-Dimethylpentane	I7	0.0022	0.0123	0.001	0.001
1,1-Dimethylcyclopentane	N7	0.0015	0.0082	0.001	0.001
3-Methylhexane	I7	0.0080	0.0448	0.004	0.004
1c,3-Dimethylcyclopentane	N7	0.0029	0.0159	0.001	0.001
1t,3-Dimethylcyclopentane	N7	0.0026	0.0143	0.001	0.001
3-Ethylpentane	I7	0.0004	0.0022	0.000	0.000
1t,2-Dimethylcyclopentane	N7	0.0039	0.0214	0.002	0.002
n-Heptane	P7	0.0197	0.1104	0.009	0.009
1c,2-Dimethylcyclopentane	N7	0.0003	0.0016	0.000	0.000
Methylcyclohexane	N7	0.0293	0.1609	0.012	0.012
2,2-Dimethylhexane	I8	0.0008	0.0051	0.000	0.000
1,1,3-Trimethylcyclopentane	N7	0.0001	0.0006	0.000	0.000
Ethylcyclopentane	N7	0.0010	0.0055	0.000	0.000
2,5-Dimethylhexane	I8	0.0008	0.0051	0.000	0.000
2,2,3-Trimethylpentane	I8	0.0006	0.0039	0.000	0.000
2,4-Dimethylhexane	I8	0.0001	0.0006	0.000	0.000
1c,2t,4-Trimethylcyclopentane	N8	0.0006	0.0037	0.000	0.000
3,3-Dimethylhexane	I8	0.0002	0.0013	0.000	0.000
Toluene	A7	0.0002	0.0010	0.000	0.000
2,3-Dimethylhexane	I8	0.0005	0.0032	0.000	0.000
2-Methyl-3-ethylpentane	I8	0.0001	0.0006	0.000	0.000
2-Methylheptane	I8	0.0029	0.0185	0.001	0.001
4-Methylheptane	I8	0.0008	0.0051	0.000	0.000
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
3-Methylheptane	I8	0.0018	0.0115	0.001	0.001
1c,2t,3-Trimethylcyclopentane	N8	0.0030	0.0188	0.002	0.002
3-Ethylhexane	I8	0.0001	0.0006	0.000	0.000
1t,4-Dimethylcyclohexane	N8	0.0012	0.0075	0.001	0.001
1,1-Dimethylcyclohexane	N8	0.0004	0.0025	0.000	0.000
2,2,5-Trimethylhexane	I9	0.0001	0.0007	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	0.0001	0.0006	0.000	0.000
2,2,4-Trimethylhexane	I9	0.0001	0.0007	0.000	0.000
1t,2-Dimethylcyclohexane	N8	0.0007	0.0044	0.000	0.000
n-Octane	P8	0.0046	0.0294	0.002	0.002
1c,4-Dimethylcyclohexane	N8	0.0006	0.0037	0.000	0.000
2,3,5-Trimethylhexane	I9	0.0001	0.0007	0.000	0.000
2,2-Dimethylheptane	I9	0.0002	0.0014	0.000	0.000
1,1,4-Trimethylcyclohexane	N9	0.0005	0.0035	0.000	0.000
Ethylcyclohexane	N8	0.0004	0.0025	0.000	0.000
n-Propylcyclopentane	N8	0.0001	0.0006	0.000	0.000
2,5-Dimethylheptane	I9	0.0003	0.0021	0.000	0.000
3,3-Dimethylheptane	I9	0.0001	0.0007	0.000	0.000
2,6-Dimethylheptane	I9	0.0001	0.0007	0.000	0.000
Ethylbenzene	I8	0.0001	0.0006	0.000	0.000
1,3-Dimethylbenzene (m-Xylene)	A8	0.0001	0.0006	0.000	0.000
4-Methyloctane	I9	0.0002	0.0014	0.000	0.000
2-Methyloctane	I9	0.0002	0.0014	0.000	0.000
1c,2t,4c-Trimethylcyclohexane	I9	0.0002	0.0014	0.000	0.000
n-Nonane	P9	0.0005	0.0036	0.000	0.000
3,3-Dimethyloctane	I10	0.0001	0.0008	0.000	0.000
n-Propylbenzene	A9	0.0001	0.0007	0.000	0.000
3,6-Dimethyloctane	I10	0.0001	0.0008	0.000	0.000
1,3-Methylethylbenzene	A9	0.0004	0.0027	0.000	0.000
1,4-Methylethylbenzene	A9	0.0001	0.0007	0.000	0.000
1,3,5-Trimethylbenzene	A9	0.0002	0.0013	0.000	0.000
5-Methylnonane	I10	0.0001	0.0008	0.000	0.000
2-Methylnonane	I10	0.0002	0.0016	0.000	0.000
3-Methylnonane	I10	0.0001	0.0008	0.000	0.000

t-Butylbenzene	A10	0.0008	0.0060	0.000	0.000
UnknownC9s	U9	0.0001	0.0007	0.000	0.000
n-Decane	P10	0.0001	0.0008	0.000	0.000
1,2,3-Trimethylbenzene	A9	0.0001	0.0007	0.000	0.000
1,3-Methyl-i-propylbenzene	A10	0.0001	0.0007	0.000	0.000
1,3-Methyl-n-propylbenzene	A10	0.0001	0.0007	0.000	0.000
n-Butylbenzene	A10	0.0001	0.0007	0.000	0.000
1,4-Methyl-t-butylbenzene	A11	0.0001	0.0008	0.000	0.000
UnknownC10s	U10	0.0001	0.0008	0.000	0.000
UnknownC11s	U11	0.0003	0.0026	0.000	0.000
UnknownC12s	U12	0.0001	0.0009	0.000	0.000
<b>TOTAL</b>		<b>100.00000</b>	<b>100.00000</b>	<b>2.2496</b>	<b>2.2616</b>

**CALCULATED VALUES\*\***

BTEX COMPONENTS	MOLE%	WT%	BTU @	14.65	14.73
BENZENE	0.0001	0.0004	LHV NET DRY REAL :	996.4 /scf	1001.8 /scf
TOLUENE	0.0002	0.0010	NET WET REAL :	979.0 /scf	984.4 /scf
ETHYLBENZENE	0.0001	0.0006	HHV GROSS DRY REAL :	1103.5 /scf	1109.5 /scf
XYLENES	0.0001	0.0006	GROSS WET REAL :	1084.2 /scf	1090.2 /scf
<b>TOTAL BTEX</b>	<b>0.0005</b>	<b>0.0026</b>	NET HEATING VALUE (60 °F ideal reaction):		21184.2 Btu/lbm
			GROSS HEATING VALUE (60°F ideal reaction):		23453.4 Btu/lbm
			RELATIVE DENSITY (AIR=1):		0.6167
			DENSITY		0.04711 lb/scf
			COMPRESSIBILITY FACTOR :		0.9975
			REGULAR WOBBE INDEX		1406.1

\*(DETAILED HYDROCARBON ANALYSIS/NJ 1993)

Mod ASTM D6730, GPA 2261 & GPA 2286.

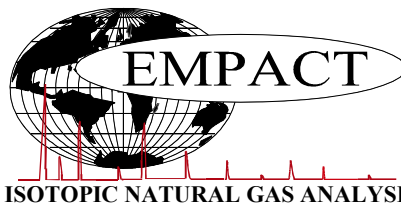
\*\* (CALC: GPA 2172, GPA 2145 & TP-17 @14.696 & 60 F)

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

Net Dry Ideal BTU	<u>4710.8</u> /scf	Relative Density - SG (Air=1)	<u>3.2159</u>	<b>C6+ factors</b>
Gross Dry Ideal BTU	<u>5075.1</u> /scf	Z Compressibility Factor	<u>0.99129</u>	<u>0.99067</u>
Net Dry Ideal BTU	<u>19370.5</u> /lb	Density Factor	<u>245.502</u> lbm/1000 ft3	
Gross Dry Ideal BTU	<u>20871.5</u> /lb	Molar Mass or MW	<u>93.17</u> g/mol	
		Volume Liquid Ideal gas	<u>0.106</u> scf/gal	<u>23.3</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.**

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 LEASE #: **300115252, COC-23443** CASING  
 FIELD/AREA: **PARACHUTE - #67350**

PROJECT NO. : **202405084** ANALYSIS NO. : **03**  
 COMPANY NAME : **CAERUS OIL & GAS LLC** ANALYSIS DATE: **MAY 28, 2024 16:24**  
 OFFICE / BRANCH: **PARACHUTE, CO** SAMPLE DATE : **MAY 9, 2024 9:00**  
 CUSTOMER REF: TO:  
 PRODUCER : **CAERUS PICEANCE LLC** EFFECTIVE DATE:

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

SAMPLE CYCLE: SAMPLE TYPE: **SPOT**  
 SAMPLE PRES. : **628** psig PROBE : **NO**  
 FLOW PRES. : psig CYLINDER NO. : **ECA-751**  
 LAB PRES: psig SAMPLED BY : **ALEX GALLEGOS**  
 SAMPLE TEMP. : **51** °f SAMPLING COMPANY: **CAERUS OIL & GAS LLC**  
 AMBIENT TEMP.: °f H2S BY STAIN TUBE: **-** ppm mol  
 H2O BY STAIN TUBE: **-** #/mmcf CO2 BY STAIN TUBE: **-** Mol %  
 FIELD COMMENTS:  
 LAB COMMENTS:

COMPONENTS	NORM. MOLE%	GPM @ 14.65	d13C % VPDB	dD % VSMOW
HELIUM	0.01	-	-	-
HYDROGEN	0.08	-	-	-
OXYGEN/ARGON	0.00	-	-	-
NITROGEN	0.10	-	-	-
CO2	0.02	-	<b>-6.8</b>	-
METHANE	91.67	-	<b>-38.7</b>	<b>-184</b>
ETHANE	5.17	1.3781	<b>-28.0</b>	-
PROPANE	1.60	0.4397	<b>-26.5</b>	-
ISOBUTANE	0.31	0.1009	<b>-26.8</b>	-
N-BUTANE	0.35	0.1099	<b>-25.9</b>	-
ISOPENTANE	0.15	0.0470	<b>-26.2</b>	-
N-PENTANE	0.11	0.0400	<b>-25.4</b>	-
HEXANES+	0.43	0.1559	-	-
<b>TOTAL</b>	<b>100.00</b>	<b>2.2715</b>		

BTU @ 60 DEG F

**14.65**  
 GROSS DRY REAL = **1107.8** /scf  
 GROSS SATURATED REAL = **1088.4** /scf

RELATIVE DENSITY (AIR=1 @14.696 PSIA 60F) **0.6184**  
 GRAVITY (LB/SCF) **0.04720**  
 COMPRESSIBILITY FACTOR : **0.99750**

NOTE: REFERENCE GPA 2261(ASTM D1945 & ASME-PTC), 2145, & 2172 CURRENT PUBLICATIONS

Reference: Per GPA 2172-14 sec 9 **The C6+ is derived from the following ratios of C6, C7 & C8+ respectively: 60% 30% 10%**

The NG Composition File #: **202405084-03-A-147**  
 The Isotopic Data File #: **DIG-035592**

Note: Stable isotope results based on multi-point laboratory calibration

Precision δ<sup>13</sup>C < 0.5 ‰ Precision δD < 5.0 ‰

Values in red represent low peak heights. Interpret with caution.

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