EMPACT

NATURAL GAS ANALYSIS

PRIMARY DB KEY:
LEASE #:
FIELD/ AREA:

NAME/DESCRIP : **HOPE 2**
WELLHEAD

PROJECT NO. : **201909007**
COMPANY NAME : **RUNNING FOXES PETROLEUM**
OFFICE / BRANCH: CENTENNIAL, CO
CUSTOMER REF:
PRODUCER :

ANALYSIS NO. : **01**
ANALYSIS DATE: SEPTEMBER 04, 2019 13:06
SAMPLE DATE : SEPTEMBER 3, 2019
TO:
EFFECTIVE DATE:

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

SAMPLE CYCLE:
SAMPLE PRES. : 0.7 psig
FLOW PRES. : psig
LAB PRES: psig
SAMPLE TEMP. : 86 ºf
AMBIENT TEMP.: ºf
H2O BY STAIN TUBE: #/mmcf
FIELD COMMENTS:
LAB COMMENTS:

SAMPLE TYPE: SPOT
PROBE : NO
CYLINDER NO. : 0011
SAMPLED BY : GALE MCENDREE
SAMPLING COMPANY: EMPACT
H2S BY STAIN TUBE: ppm
CO2 BY STAIN TUBE: Mol %

COMPONENTS	NORM. MOLE%	GPM @ 14.73	GPM @ 14.65
HELIUM	0.18	-	-
HYDROGEN	0.01	-	-
OXYGEN/ARGON	0.06	-	-
NITROGEN	2.41	-	-
CO2	0.02	-	-
METHANE	90.22	-	-
ETHANE	0.93	0.2492	0.2479
PROPANE	0.94	0.2593	0.2579
ISOBUTANE	0.29	0.0955	0.0950
N-BUTANE	0.73	0.2311	0.2299
ISOPENTANE	0.77	0.2824	0.2809
N-PENTANE	1.02	0.3708	0.3688
HEXANES+	2.42	1.0522	1.0465
TOTAL	100.00	2.5405	2.5269

BTU @ 60 DEG F	**14.73**	**14.65**
GROSS DRY REAL =	1186.3 **/scf**	1179.9 **/scf**
GROSS SATURATED REAL =	1165.7 **/scf**	1159.3 **/scf**

RELATIVE DENSITY (AIR=1 @14.696 PSIA 60F)	0.6912
GRAVITY (LB/SCF)	0.05275
COMPRESSIBILITY FACTOR :	0.99738

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%**

EMPACT

NATURAL GAS ANALYSIS

PRIMARY DB KEY:		NAME/DESCRIP :	**MARTHA 4**
LEASE #:			**WELLHEAD**
FIELD/ AREA:			
PROJECT NO. :	**201909007**	ANALYSIS NO. :	**02**
COMPANY NAME :	**RUNNING FOXES PETROLEUM**	ANALYSIS DATE:	SEPTEMBER 04, 2019 13:29
OFFICE / BRANCH:	CENTENNIAL, CO	SAMPLE DATE :	SEPTEMBER 3, 2019
CUSTOMER REF:		TO:	
PRODUCER :		EFFECTIVE DATE:	
FIELD DATA			
SAMPLE CYCLE:		SAMPLE TYPE:	SPOT
SAMPLE PRES. :	50 psig	PROBE :	NO
FLOW PRES. :	psig	CYLINDER NO. :	0700
LAB PRES:	psig	SAMPLED BY :	GALE MCENDREE
SAMPLE TEMP. :	117 °f	SAMPLING COMPANY:	EMPACT
AMBIENT TEMP.:	°f	H2S BY STAIN TUBE:	- ppm
H2O BY STAIN TUBE	- #/mmcf	CO2 BY STAIN TUBE:	- Mol %
FIELD COMMENTS:			
LAB COMMENTS:			

COMPONENTS	NORM. MOLE%	**GPM @** 14.73	**GPM @** 14.65
HELIUM	0.17	-	-
HYDROGEN	0.01	-	-
OXYGEN/ARGON	0.02	-	-
NITROGEN	2.35	-	-
CO2	0.02	-	-
METHANE	93.38	-	-
ETHANE	3.87	1.0366	1.0309
PROPANE	0.05	0.0141	0.0140
ISOBUTANE	0.03	0.0100	0.0100
N-BUTANE	0.01	0.0030	0.0030
ISOPENTANE	0.01	0.0040	0.0040
N-PENTANE	0.00	0.0000	0.0000
HEXANES+	0.08	0.0352	0.0350
TOTAL	100.00	1.1029	1.0969

BTU @ 60 DEG F		**14.73**		**14.65**	
	GROSS DRY REAL =	1023.0	**/scf**	1017.5	**/scf**
	GROSS SATURATED REAL =	1005.2	**/scf**	999.7	**/scf**

RELATIVE DENSITY (AIR=1 @14.696 PSIA 60F)	0.5851
GRAVITY (LB/SCF)	0.04466
COMPRESSIBILITY FACTOR :	0.99789

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%**

EMPACT

NATURAL GAS ANALYSIS

PRIMARY DB KEY:
LEASE #:
FIELD/ AREA:

NAME/DESCRIP : **FEDERAL 1**
WELLHEAD

PROJECT NO. : **201909007**
COMPANY NAME : **RUNNING FOXES PETROLEUM**
OFFICE / BRANCH: CENTENNIAL, CO
CUSTOMER REF:
PRODUCER :

ANALYSIS NO. : **03**
ANALYSIS DATE: SEPTEMBER 04, 2019 13:52
SAMPLE DATE : SEPTEMBER 3, 2019
TO:
EFFECTIVE DATE:

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

SAMPLE CYCLE:
SAMPLE PRES. : 2 psig
FLOW PRES. : psig
LAB PRES: psig
SAMPLE TEMP. : 93 ºf
AMBIENT TEMP.: ºf
H2O BY STAIN TUBE - #/mmcf
FIELD COMMENTS:
LAB COMMENTS:

SAMPLE TYPE: SPOT
PROBE : NO
CYLINDER NO. : 1245
SAMPLED BY : GALE MCENDREE
SAMPLING COMPANY: EMPACT
H2S BY STAIN TUBE: - ppm
CO2 BY STAIN TUBE: - Mol %

COMPONENTS	NORM. MOLE%	**GPM @** 14.73	**GPM @** 14.65
HELIUM	0.11	-	-
HYDROGEN	0.00	-	-
OXYGEN/ARGON	0.03	-	-
NITROGEN	1.74	-	-
CO2	1.83	-	-
METHANE	82.06	-	-
ETHANE	7.50	2.0117	2.0008
PROPANE	2.33	0.6434	0.6399
ISOBUTANE	1.04	0.3408	0.3390
N-BUTANE	0.96	0.3036	0.3020
ISOPENTANE	0.65	0.2383	0.2370
N-PENTANE	0.27	0.0985	0.0980
HEXANES+	1.48	0.6444	0.6409
TOTAL	100.00	4.2807	4.2576

BTU @ 60 DEG F	**14.73**	**14.65**
GROSS DRY REAL =	1204.4 **/scf**	1197.9 **/scf**
GROSS SATURATED REAL =	1183.5 **/scf**	1177.0 **/scf**

RELATIVE DENSITY (AIR=1 @14.696 PSIA 60F)	0.7238
GRAVITY (LB/SCF)	0.05523
COMPRESSIBILITY FACTOR :	0.99698

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%**

EMPACT

NATURAL GAS ANALYSIS

PRIMARY DB KEY:
LEASE #:
FIELD/ AREA:

NAME/DESCRIP : **WK 1-13**
WELLHEAD

PROJECT NO. : **201909007**
COMPANY NAME : **RUNNING FOXES PETROLEUM**
OFFICE / BRANCH: CENTENNIAL, CO
CUSTOMER REF:
PRODUCER :

ANALYSIS NO. : **04**
ANALYSIS DATE: SEPTEMBER 04, 2019 14:15
SAMPLE DATE : SEPTEMBER 3, 2019
TO:
EFFECTIVE DATE:

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

SAMPLE CYCLE:
SAMPLE PRES. : 226 psig
FLOW PRES. : psig
LAB PRES: psig
SAMPLE TEMP. : 108 ºf
AMBIENT TEMP.: ºf
H2O BY STAIN TUBE - #/mmcf
FIELD COMMENTS:
LAB COMMENTS:

SAMPLE TYPE: SPOT
PROBE : NO
CYLINDER NO. : 0708
SAMPLED BY : GALE MCENDREE
SAMPLING COMPANY: EMPACT
H2S BY STAIN TUBE: - ppm
CO2 BY STAIN TUBE: - Mol %

COMPONENTS	NORM. MOLE%	GPM @ 14.73	GPM @ 14.65
HELIUM	0.32	-	-
HYDROGEN	0.00	-	-
OXYGEN/ARGON	0.05	-	-
NITROGEN	5.87	-	-
CO2	0.01	-	-
METHANE	90.20	-	-
ETHANE	2.50	0.6699	0.6663
PROPANE	0.50	0.1376	0.1369
ISOBUTANE	0.12	0.0392	0.0390
N-BUTANE	0.15	0.0472	0.0469
ISOPENTANE	0.09	0.0331	0.0330
N-PENTANE	0.11	0.0402	0.0400
HEXANES+	0.08	0.0352	0.0350
TOTAL	100.00	1.0024	0.9971

BTU @ 60 DEG F		**14.73**		**14.65**	
	GROSS DRY REAL =	993.0	**/scf**	987.6	**/scf**
	GROSS SATURATED REAL =	975.7	**/scf**	970.3	**/scf**

RELATIVE DENSITY (AIR=1 @14.696 PSIA 60F)	0.6041
GRAVITY (LB/SCF)	0.04610
COMPRESSIBILITY FACTOR :	0.99795

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%**

EMPACT

NATURAL GAS ANALYSIS

PRIMARY DB KEY:
LEASE #:
FIELD/ AREA:

NAME/DESCRIP : **MPD 10-2C WELLHEAD**

PROJECT NO. : **201909007**
COMPANY NAME : **RUNNING FOXES PETROLEUM**
OFFICE / BRANCH: CENTENNIAL, CO
CUSTOMER REF:
PRODUCER :

ANALYSIS NO. : **05**
ANALYSIS DATE: SEPTEMBER 04, 2019 14:39
SAMPLE DATE : SEPTEMBER 3, 2019
TO:
EFFECTIVE DATE:

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

SAMPLE CYCLE:
SAMPLE PRES. : 0.3 psig
FLOW PRES. : psig
LAB PRES: psig
SAMPLE TEMP. : 107 ºf
AMBIENT TEMP.: ºf
H2O BY STAIN TUBE: #/mmcf
FIELD COMMENTS:
LAB COMMENTS:

SAMPLE TYPE: SPOT
PROBE : NO
CYLINDER NO. : 0559
SAMPLED BY : GALE MCENDREE
SAMPLING COMPANY: EMPACT
H2S BY STAIN TUBE: ppm
CO2 BY STAIN TUBE: Mol %

COMPONENTS	NORM. MOLE%	GPM @ 14.73	GPM @ 14.65
HELIUM	0.20	-	-
HYDROGEN	0.02	-	-
OXYGEN/ARGON	0.05	-	-
NITROGEN	7.13	-	-
CO2	0.16	-	-
METHANE	81.03	-	-
ETHANE	3.90	1.0454	1.0397
PROPANE	2.23	0.6162	0.6128
ISOBUTANE	0.60	0.1970	0.1959
N-BUTANE	1.13	0.3568	0.3549
ISOPENTANE	0.87	0.3186	0.3169
N-PENTANE	1.27	0.4614	0.4589
HEXANES+	1.41	0.6132	0.6098
TOTAL	100.00	3.6086	3.5889

BTU @ 60 DEG F	**14.73**		**14.65**	
GROSS DRY REAL =	1164.0	**/scf**	1157.7	**/scf**
GROSS SATURATED REAL =	1143.8	**/scf**	1137.5	**/scf**

RELATIVE DENSITY (AIR=1 @14.696 PSIA 60F) 0.729
GRAVITY (LB/SCF) 0.05563
COMPRESSIBILITY FACTOR : 0.99714

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%**

EMPACT

NATURAL GAS ANALYSIS

PRIMARY DB KEY:
LEASE #:
FIELD/ AREA:

NAME/DESCRIP : **DROSS 22-1 WELLHEAD**

PROJECT NO. : **201909007**
COMPANY NAME : **RUNNING FOXES PETROLEUM**
OFFICE / BRANCH: CENTENNIAL, CO
CUSTOMER REF:
PRODUCER :

ANALYSIS NO. : **06**
ANALYSIS DATE: SEPTEMBER 04, 2019 15:01
SAMPLE DATE : SEPTEMBER 3, 2019
TO:
EFFECTIVE DATE:

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

SAMPLE CYCLE:
SAMPLE PRES. : 25 psig
FLOW PRES. : psig
LAB PRES: psig
SAMPLE TEMP. : 104 ºf
AMBIENT TEMP.: ºf
H2O BY STAIN TUBE: #/mmcf
FIELD COMMENTS:
LAB COMMENTS:

SAMPLE TYPE: SPOT
PROBE : NO
CYLINDER NO. : 0082
SAMPLED BY : GALE MCENDREE
SAMPLING COMPANY: EMPACT
H2S BY STAIN TUBE: ppm
CO2 BY STAIN TUBE: Mol %

COMPONENTS	NORM. MOLE%	GPM @ 14.73	GPM @ 14.65
HELIUM	0.13	-	-
HYDROGEN	0.00	-	-
OXYGEN/ARGON	0.02	-	-
NITROGEN	2.13	-	-
CO2	0.06	-	-
METHANE	94.39	-	-
ETHANE	1.92	0.5143	0.5115
PROPANE	0.35	0.0964	0.0959
ISOBUTANE	0.13	0.0422	0.0420
N-BUTANE	0.16	0.0502	0.0500
ISOPENTANE	0.09	0.0331	0.0330
N-PENTANE	0.10	0.0362	0.0360
HEXANES+	0.52	0.2260	0.2248
TOTAL	100.00	0.9984	0.9932

BTU @ 60 DEG F	**14.73**	**14.65**
GROSS DRY REAL =	1044.3 **/scf**	1038.7 **/scf**
GROSS SATURATED REAL =	1026.1 **/scf**	1020.5 **/scf**

RELATIVE DENSITY (AIR=1 @14.696 PSIA 60F)	0.5971
GRAVITY (LB/SCF)	0.04558
COMPRESSIBILITY FACTOR :	0.99786

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%**

EMPACT

NATURAL GAS ANALYSIS

PRIMARY DB KEY:
LEASE #:
FIELD/ AREA:

NAME/DESCRIP : **LEVON 1 WELLHEAD**

PROJECT NO. : **201909007**
COMPANY NAME : **RUNNING FOXES PETROLEUM**
OFFICE / BRANCH: CENTENNIAL, CO
CUSTOMER REF:
PRODUCER :

ANALYSIS NO. : **07**
ANALYSIS DATE: SEPTEMBER 04, 2019 14:38
SAMPLE DATE : SEPTEMBER 3, 2019
TO:
EFFECTIVE DATE:

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

SAMPLE CYCLE:
SAMPLE PRES. : 4 psig
FLOW PRES. : psig
LAB PRES: psig
SAMPLE TEMP. : 119 ºf
AMBIENT TEMP.: ºf
H2O BY STAIN TUBE: #/mmcf
FIELD COMMENTS:
LAB COMMENTS:

SAMPLE TYPE: SPOT
PROBE : NO
CYLINDER NO. : 0035
SAMPLED BY : GALE MCENDREE
SAMPLING COMPANY: EMPACT
H2S BY STAIN TUBE: ppm
CO2 BY STAIN TUBE: Mol %

COMPONENTS	NORM. MOLE%	GPM @ 14.73	GPM @ 14.65
HELIUM	0.08	-	-
HYDROGEN	0.00	-	-
OXYGEN/ARGON	0.03	-	-
NITROGEN	1.90	-	-
CO2	0.04	-	-
METHANE	80.95	-	-
ETHANE	7.11	1.9077	1.8973
PROPANE	5.58	1.5416	1.5332
ISOBUTANE	0.80	0.2625	0.2610
N-BUTANE	1.46	0.4616	0.4591
ISOPENTANE	0.40	0.1468	0.1460
N-PENTANE	0.36	0.1307	0.1300
HEXANES+	1.29	0.5611	0.5581
TOTAL	100.00	5.0120	4.9847

BTU @ 60 DEG F	**14.73**		**14.65**	
GROSS DRY REAL =	1261.1	**/scf**	1254.2	**/scf**
GROSS SATURATED REAL =	1239.2	**/scf**	1232.3	**/scf**

RELATIVE DENSITY (AIR=1 @14.696 PSIA 60F)	0.7325
GRAVITY (LB/SCF)	0.05589
COMPRESSIBILITY FACTOR :	0.99671

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%**

EMPACT

NATURAL GAS ANALYSIS

PRIMARY DB KEY:
LEASE #:
FIELD/ AREA:

NAME/DESCRIP : **CCCO OTHF 7-11 WELLHEAD**

PROJECT NO. : **201909007**
COMPANY NAME : **RUNNING FOXES PETROLEUM**
OFFICE / BRANCH: CENTENNIAL, CO
CUSTOMER REF:
PRODUCER :

ANALYSIS NO. : **08**
ANALYSIS DATE: SEPTEMBER 04, 2019 14:15
SAMPLE DATE : SEPTEMBER 3, 2019
TO:
EFFECTIVE DATE:

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

SAMPLE CYCLE:
SAMPLE PRES. : 5 psig
FLOW PRES. : psig
LAB PRES: psig
SAMPLE TEMP. : 109 ºf
AMBIENT TEMP.: ºf
H2O BY STAIN TUBE: #/mmcf
FIELD COMMENTS:
LAB COMMENTS:

SAMPLE TYPE: SPOT
PROBE : NO
CYLINDER NO. : 1630
SAMPLED BY : GALE MCENDREE
SAMPLING COMPANY: EMPACT
H2S BY STAIN TUBE: ppm
CO2 BY STAIN TUBE: Mol %

COMPONENTS	NORM. MOLE%	GPM @ 14.73	GPM @ 14.65
HELIUM	0.09	-	-
HYDROGEN	0.02	-	-
OXYGEN/ARGON	0.06	-	-
NITROGEN	4.23	-	-
CO2	0.03	-	-
METHANE	85.30	-	-
ETHANE	3.91	1.0483	1.0426
PROPANE	1.36	0.3759	0.3739
ISOBUTANE	0.56	0.1839	0.1829
N-BUTANE	0.99	0.3126	0.3109
ISOPENTANE	0.68	0.2493	0.2479
N-PENTANE	0.91	0.3307	0.3289
HEXANES+	1.86	0.8091	0.8047
TOTAL	100.00	3.3098	3.2918

BTU @ 60 DEG F	**14.73**		**14.65**	
GROSS DRY REAL =	1180.6	**/scf**	1174.2	**/scf**
GROSS SATURATED REAL =	1160.1	**/scf**	1153.7	**/scf**

RELATIVE DENSITY (AIR=1 @14.696 PSIA 60F)	0.7066
GRAVITY (LB/SCF)	0.05392
COMPRESSIBILITY FACTOR :	0.99724

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%**

EMPACT

NATURAL GAS ANALYSIS

PRIMARY DB KEY:		NAME/DESCRIP :	**CCCO ADAKA 11-1A WELLHEAD**
LEASE #:			
FIELD/ AREA:			
PROJECT NO. :	**201909007**	ANALYSIS NO. :	**09**
COMPANY NAME :	**RUNNING FOXES PETROLEUM**	ANALYSIS DATE:	SEPTEMBER 04, 2019 13:51
OFFICE / BRANCH:	CENTENNIAL, CO	SAMPLE DATE :	SEPTEMBER 3, 2019
CUSTOMER REF:		TO:	
PRODUCER :		EFFECTIVE DATE:	
FIELD DATA			
SAMPLE CYCLE:		SAMPLE TYPE:	SPOT
SAMPLE PRES. :	0.2 psig	PROBE :	NO
FLOW PRES. :	psig	CYLINDER NO. :	1155
LAB PRES:	psig	SAMPLED BY :	GALE MCENDREE
SAMPLE TEMP. :	112 ºf	SAMPLING COMPANY:	EMPACT
AMBIENT TEMP.:	ºf	H2S BY STAIN TUBE:	- ppm
H2O BY STAIN TUBE	- #/mmcf	CO2 BY STAIN TUBE:	- Mol %
FIELD COMMENTS:			
LAB COMMENTS:			

COMPONENTS	NORM. MOLE%	**GPM @** 14.73	**GPM @** 14.65
HELIUM	0.06	-	-
HYDROGEN	0.00	-	-
OXYGEN/ARGON	0.36	-	-
NITROGEN	3.72	-	-
CO2	0.18	-	-
METHANE	91.94	-	-
ETHANE	1.92	0.5143	0.5115
PROPANE	1.22	0.3365	0.3347
ISOBUTANE	0.12	0.0392	0.0390
N-BUTANE	0.31	0.0974	0.0969
ISOPENTANE	0.05	0.0181	0.0180
N-PENTANE	0.05	0.0181	0.0180
HEXANES+	0.07	0.0301	0.0300
TOTAL	100.00	1.0537	1.0481

BTU @ 60 DEG F	**14.73**	**14.65**
GROSS DRY REAL =	1019.2 **/scf**	1013.7 **/scf**
GROSS SATURATED REAL =	1001.5 **/scf**	996.0 **/scf**

RELATIVE DENSITY (AIR=1 @14.696 PSIA 60F)	0.6037
GRAVITY (LB/SCF)	0.04608
COMPRESSIBILITY FACTOR :	0.99785

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%**

EMPACT

NATURAL GAS ANALYSIS

PRIMARY DB KEY:		NAME/DESCRIP :	**AW CULLEN GOVT. 1 WELLHEAD**
LEASE #:			
FIELD/ AREA:			
PROJECT NO. :	**201909007**	ANALYSIS NO. :	**10**
COMPANY NAME :	**RUNNING FOXES PETROLEUM**	ANALYSIS DATE:	SEPTEMBER 04, 2019 13:28
OFFICE / BRANCH:	CENTENNIAL, CO	SAMPLE DATE :	SEPTEMBER 3, 2019
CUSTOMER REF:		TO:	
PRODUCER :		EFFECTIVE DATE:	
FIELD DATA			
SAMPLE CYCLE:		SAMPLE TYPE:	SPOT
SAMPLE PRES. :	0.5 psig	PROBE :	NO
FLOW PRES. :	psig	CYLINDER NO. :	1632
LAB PRES:	psig	SAMPLED BY :	GALE MCENDREE
SAMPLE TEMP. :	117 °f	SAMPLING COMPANY:	EMPACT
AMBIENT TEMP.:	°f	H2S BY STAIN TUBE:	- ppm
H2O BY STAIN TUBE	- #/mmcf	CO2 BY STAIN TUBE:	- Mol %
FIELD COMMENTS:			
LAB COMMENTS:			

COMPONENTS	NORM. MOLE%	GPM @ 14.73	GPM @ 14.65
HELIUM	0.12	-	-
HYDROGEN	0.00	-	-
OXYGEN/ARGON	0.06	-	-
NITROGEN	2.68	-	-
CO2	0.03	-	-
METHANE	89.70	-	-
ETHANE	4.17	1.1173	1.1112
PROPANE	1.61	0.4441	0.4417
ISOBUTANE	0.40	0.1316	0.1309
N-BUTANE	0.40	0.1266	0.1259
ISOPENTANE	0.19	0.0693	0.0690
N-PENTANE	0.12	0.0432	0.0430
HEXANES+	0.52	0.2261	0.2248
TOTAL	100.00	2.1582	2.1465

BTU @ 60 DEG F	**14.73**	**14.65**
GROSS DRY REAL =	1090.4 **/scf**	1084.5 **/scf**
GROSS SATURATED REAL =	1071.4 **/scf**	1065.5 **/scf**

RELATIVE DENSITY (AIR=1 @14.696 PSIA 60F)	0.6323
GRAVITY (LB/SCF)	0.04826
COMPRESSIBILITY FACTOR :	0.99759

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%**