

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 °f
AMBIENT TEMP.: °f
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 %

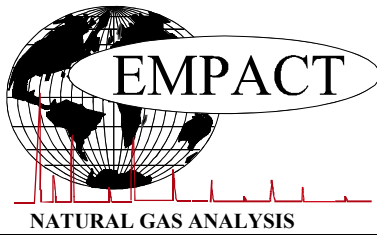
COMPONENTS	NORM. MOLE%	GPM @ 14.73	GPM @ 14.65
HELIUM	0.18	-	-
HYDROGEN	0.01	-	-
OXYGEN/ARGON	0.06	-	-
NITROGEN	2.41	-	-
CO2	0.02	-	-
METHANE	90.22	-	-
ETHANE	0.93	0.2492	0.2479
PROPANE	0.94	0.2593	0.2579
ISOBUTANE	0.29	0.0955	0.0950
N-BUTANE	0.73	0.2311	0.2299
ISOPENTANE	0.77	0.2824	0.2809
N-PENTANE	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%

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.



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:		

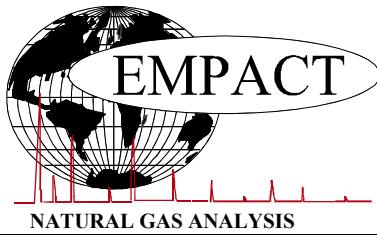
COMPONENTS	NORM. MOLE%	GPM @ 14.73	GPM @ 14.65
HELIUM	0.17	-	-
HYDROGEN	0.01	-	-
OXYGEN/ARGON	0.02	-	-
NITROGEN	2.35	-	-
CO2	0.02	-	-
METHANE	93.38	-	-
ETHANE	3.87	1.0366	1.0309
PROPANE	0.05	0.0141	0.0140
ISOBUTANE	0.03	0.0100	0.0100
N-BUTANE	0.01	0.0030	0.0030
ISOPENTANE	0.01	0.0040	0.0040
N-PENTANE	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%

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.



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 °f
AMBIENT TEMP.: °f
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

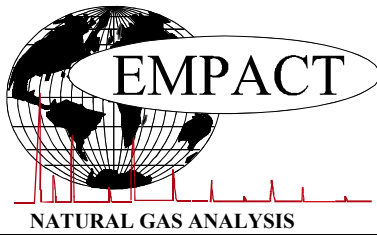
	14.73	14.65
GROSS DRY REAL =	1204.4 /scf	1197.9 /scf
GROSS SATURATED REAL =	1183.5 /scf	1177.0 /scf
RELATIVE DENSITY (AIR=1 @14.696 PSIA 60F)	0.7238	
GRAVITY (LB/SCF)	0.05523	
COMPRESSIBILITY FACTOR :	0.99698	

NOTE: REFERENCE GPA 2261(ASM 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 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.



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 °f
AMBIENT TEMP.: °f
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

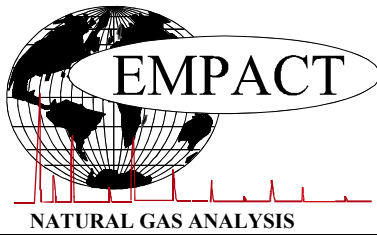
	14.73	14.65
GROSS DRY REAL =	993.0 /scf	987.6 /scf
GROSS SATURATED REAL =	975.7 /scf	970.3 /scf
RELATIVE DENSITY (AIR=1 @14.696 PSIA 60F)	0.6041	
GRAVITY (LB/SCF)	0.04610	
COMPRESSIBILITY FACTOR :	0.99795	

NOTE: REFERENCE GPA 2261(ASM 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 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.



PRIMARY DB KEY:	NAME/DESCRIP :	MPD 10-2C
LEASE #:		WELLHEAD
FIELD/ AREA:		
PROJECT NO. :	201909007	ANALYSIS NO. : 05
COMPANY NAME :	RUNNING FOXES PETROLEUM	ANALYSIS DATE: SEPTEMBER 04, 2019 14:39
OFFICE / BRANCH:	CENTENNIAL, CO	SAMPLE DATE : SEPTEMBER 3, 2019
CUSTOMER REF:		TO:
PRODUCER :		EFFECTIVE DATE:
FIELD DATA		
SAMPLE CYCLE:		SAMPLE TYPE: SPOT
SAMPLE PRES. : 0.3	psig	PROBE : NO
FLOW PRES. :	psig	CYLINDER NO. : 0559
LAB PRES:	psig	SAMPLED BY : GALE MCENDREE
SAMPLE TEMP. : 107	°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:		

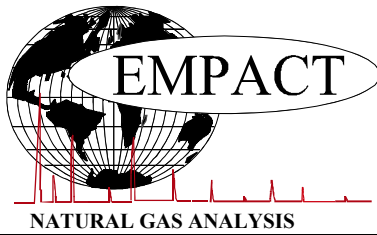
COMPONENTS	NORM. MOLE%	GPM @ 14.73	GPM @ 14.65
HELIUM	0.20	-	-
HYDROGEN	0.02	-	-
OXYGEN/ARGON	0.05	-	-
NITROGEN	7.13	-	-
CO2	0.16	-	-
METHANE	81.03	-	-
ETHANE	3.90	1.0454	1.0397
PROPANE	2.23	0.6162	0.6128
ISOBUTANE	0.60	0.1970	0.1959
N-BUTANE	1.13	0.3568	0.3549
ISOPENTANE	0.87	0.3186	0.3169
N-PENTANE	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%

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.



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 °f
AMBIENT TEMP.: °f
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

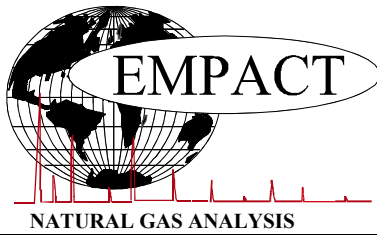
	14.73	14.65
GROSS DRY REAL =	1044.3 /scf	1038.7 /scf
GROSS SATURATED REAL =	1026.1 /scf	1020.5 /scf
RELATIVE DENSITY (AIR=1 @14.696 PSIA 60F)	0.5971	
GRAVITY (LB/SCF)	0.04558	
COMPRESSIBILITY FACTOR :	0.99786	

NOTE: REFERENCE GPA 2261(ASM 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 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.



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 °f
AMBIENT TEMP.: °f
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

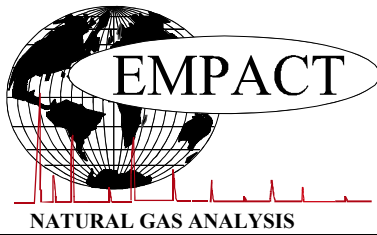
	14.73	14.65
GROSS DRY REAL =	1261.1 /scf	1254.2 /scf
GROSS SATURATED REAL =	1239.2 /scf	1232.3 /scf
RELATIVE DENSITY (AIR=1 @14.696 PSIA 60F)	0.7325	
GRAVITY (LB/SCF)	0.05589	
COMPRESSIBILITY FACTOR :	0.99671	

NOTE: REFERENCE GPA 2261(ASM 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 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.



PRIMARY DB KEY:	NAME/DESCRIP :	CCCO OTHF 7-11
LEASE #:		WELLHEAD
FIELD/ AREA:		
PROJECT NO. :	201909007	ANALYSIS NO. : 08
COMPANY NAME :	RUNNING FOXES PETROLEUM	ANALYSIS DATE: SEPTEMBER 04, 2019 14:15
OFFICE / BRANCH:	CENTENNIAL, CO	SAMPLE DATE : SEPTEMBER 3, 2019
CUSTOMER REF:		TO:
PRODUCER :		EFFECTIVE DATE:

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

SAMPLE CYCLE:		SAMPLE TYPE:	SPOT
SAMPLE PRES. :	5 psig	PROBE :	NO
FLOW PRES. :	psig	CYLINDER NO. :	1630
LAB PRES:	psig	SAMPLED BY :	GALE MCENDREE
SAMPLE TEMP. :	109 °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	0.09	-	-
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

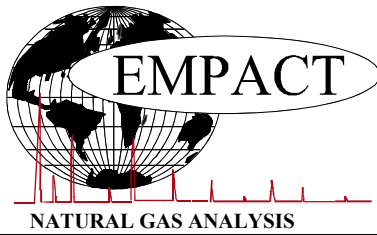
	14.73		14.65
GROSS DRY REAL =	1180.6	/scf	1174.2 /scf
GROSS SATURATED REAL =	1160.1	/scf	1153.7 /scf
RELATIVE DENSITY (AIR=1 @14.696 PSIA 60F)	0.7066		
GRAVITY (LB/SCF)	0.05392		
COMPRESSIBILITY FACTOR :	0.99724		

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%

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.



PRIMARY DB KEY:
LEASE #:
FIELD/ AREA:

NAME/DESCRIP :

**CCCO ADAKA 11-1A
WELLHEAD**

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

ANALYSIS NO. : **09**
ANALYSIS DATE: SEPTEMBER 04, 2019 13:51
SAMPLE DATE : SEPTEMBER 3, 2019
TO:
EFFECTIVE DATE:

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

SAMPLE CYCLE:
SAMPLE PRES. : 0.2 psig
FLOW PRES. : psig
LAB PRES: psig
SAMPLE TEMP. : 112 °f
AMBIENT TEMP.: °f
H2O BY STAIN TUBE - #/mmcf
FIELD COMMENTS:
LAB COMMENTS:

SAMPLE TYPE: SPOT
PROBE : NO
CYLINDER NO. : 1155
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	0.06	-	-
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

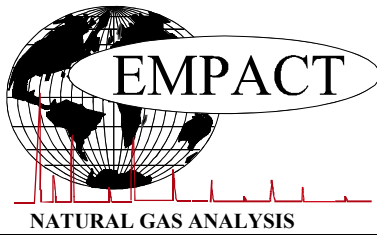
	14.73	14.65
GROSS DRY REAL =	1019.2 /scf	1013.7 /scf
GROSS SATURATED REAL =	1001.5 /scf	996.0 /scf
RELATIVE DENSITY (AIR=1 @14.696 PSIA 60F)	0.6037	
GRAVITY (LB/SCF)	0.04608	
COMPRESSIBILITY FACTOR :	0.99785	

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%

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.



PRIMARY DB KEY:
LEASE #:
FIELD/ AREA:

NAME/DESCRIP :

**AW CULLEN GOVT. 1
WELLHEAD**

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

ANALYSIS NO. : **10**
ANALYSIS DATE: SEPTEMBER 04, 2019 13:28
SAMPLE DATE : SEPTEMBER 3, 2019
TO:
EFFECTIVE DATE:

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

SAMPLE CYCLE:
SAMPLE PRES. : 0.5 psig
FLOW PRES. : psig
LAB PRES: psig
SAMPLE TEMP. : 117 °f
AMBIENT TEMP.: °f
H2O BY STAIN TUBE - #/mmcf
FIELD COMMENTS:
LAB COMMENTS:

SAMPLE TYPE: SPOT
PROBE : NO
CYLINDER NO. : 1632
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	0.12	-	-
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%

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.