



**NATURAL GAS ANALYSIS**

PRIMARY DB KEY:	NAME/DESCRIP :	SALEN 14-35	
LEASE #:		SALES GAS	
FIELD/ AREA:			
PROJECT NO. :	202001051	ANALYSIS NO. :	08
COMPANY NAME :	GRAND MESA OPERATING	ANALYSIS DATE:	JANUARY 13, 2020 10:08
OFFICE / BRANCH:	WICHITA, KS	SAMPLE DATE :	JANUARY 8, 2020
CUSTOMER REF:		TO:	
PRODUCER :		EFFECTIVE DATE:	
<b>***FIELD DATA***</b>			
SAMPLE CYCLE:		SAMPLE TYPE:	SPOT
SAMPLE PRES. :	15 psig	PROBE :	NO
FLOW PRES. :	psig	CYLINDER NO. :	1200
LAB PRES:	psig	SAMPLED BY :	GALE MCENDREE
SAMPLE TEMP. : :	64 °f	SAMPLING COMPANY:	EMPACT
AMBIENT TEMP. :	°f	H2S BY STAIN TUBE:	7 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	0.39	-	-
HYDROGEN	0.01	-	-
OXYGEN/ARGON	0.08	-	-
NITROGEN	15.26	-	-
CO2	1.51	-	-
METHANE	38.59	-	-
ETHANE	16.64	4.4760	4.4517
PROPANE	16.13	4.4690	4.4447
ISOBUTANE	2.76	0.9085	0.9036
N-BUTANE	4.78	1.5155	1.5073
ISOPENTANE	1.16	0.4265	0.4242
N-PENTANE	1.08	0.3933	0.3911
HEXANES+	1.61	0.7028	0.6990
<b>TOTAL</b>	<b>100.00</b>	<b>12.8916</b>	<b>12.8216</b>

BTU @ 60 DEG F

	<b>14.73</b>	<b>14.65</b>
GROSS DRY REAL =	1520.7 /scf	1512.4 /scf
GROSS SATURATED REAL =	1494.3 /scf	1486.0 /scf

RELATIVE DENSITY (AIR=1 @14.696 PSIA 60F) 1.063  
GRAVITY (LB/SCF) 0.08113  
COMPRESSIBILITY FACTOR : 0.99402

**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%**

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