

PRIMARY DB KEY: NAME/DESCRIP : SALEN #14-35
 LEASE #:
 FIELD/ AREA:

PROJECT NO. : 202404027 ANALYSIS NO. : 05
 COMPANY NAME : GRAND MESA OPERATING ANALYSIS DATE: APRIL 17, 2024 13:11
 OFFICE / BRANCH: WICHITA, KS SAMPLE DATE : APRIL 4, 2024
 CUSTOMER REF: TO:
 PRODUCER : EFFECTIVE DATE:

FIELD DATA

SAMPLE CYCLE: SAMPLE TYPE:
 SAMPLE PRES. : psig PROBE :
 FLOW PRES. : psig CYLINDER NO. : 1L TEDLAR
 LAB PRES: psig SAMPLED BY :
 SAMPLE TEMP. : °f SAMPLING COMPANY: GRAND MESA OPERATING
 AMBIENT TEMP.: °f H2S BY STAIN TUBE: — ppm mol
 H2O BY STAIN TUBE - #/mmcf CO2 BY STAIN TUBE: - Mol %
 FIELD COMMENTS: **RESAMPLE**
 LAB COMMENTS:

COMPONENTS	NORM. MOLE%	GPM @ 14.73	GPM @ 14.65
HELIUM	0.30	-	-
HYDROGEN	0.09	-	-
OXYGEN/ARGON	0.73	-	-
NITROGEN	18.01	-	-
CO2	1.75	-	-
METHANE	36.09	-	-
ETHANE	13.57	3.6514	3.6315
PROPANE	14.98	4.1517	4.1291
ISOBUTANE	4.46	1.4686	1.4606
N-BUTANE	6.21	1.9699	1.9592
ISOPENTANE	1.78	0.6546	0.6511
N-PENTANE	1.43	0.5215	0.5186
HEXANES+	0.60	0.2623	0.2608
TOTAL	100.00	12.6800	12.6109

BTU @ 60 DEG F

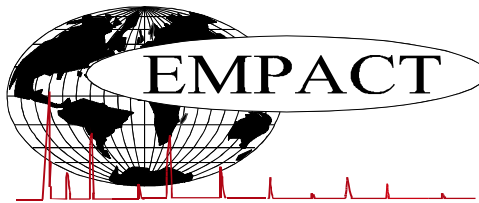
	14.73	14.65
GROSS DRY REAL =	1501.6 /scf	1493.4 /scf
GROSS SATURATED REAL =	1475.5 /scf	1467.3 /scf
RELATIVE DENSITY (AIR=1 @14.696 PSIA 60F)	1.0916	
DENSITY (lbm/scf)	0.08331	
COMPRESSIBILITY FACTOR :	0.9937	

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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SULFUR IN NATURAL GAS ANALYSIS

SN/PRIMARY DB KEY
LEASE #/ PROJECT #:
FIELD/AREA:

NAME/DESCRIP : SALEN #14-35

PROJECT NO. : 202404027
COMPANY NAME : GRAND MESA OPERATING
OFFICE / BRANCH: WICHITA, KS
CUSTOMER REF:
PRODUCER :

ANALYSIS NO. : 05
ANALYSIS DATE: APRIL 05, 2024 10:28
SAMPLE DATE : APRIL 4, 2024
TO:
EFFECTIVE DATE:

FIELD DATA

SAMPLE CYCLE:
SAMPLE PRES. : psig
FLOW PRES. : psig
LAB PRES: psig
SAMPLE TEMP. : °F
AMBIENT TEMP.: °F
H2O BY STAIN TUBE: #/mmcf
FIELD COMMENTS: **RESAMPLE**
LAB COMMENTS:

SAMPLE TYPE:
PROBE :
CYLINDER NO. : 1L TEDLAR
SAMPLED BY :
SAMPLING COMPANY: GRAND MESA OPERATING
H2S BY STAIN TUBE: — ppm mol
CO2 BY STAIN TUBE: - Mol %

<u>COMPONENT</u>	SULFUR		
	ppm mole (ul/L)	ppm wt (ug/g)	
Hydrogen Sulfide (H2S)	0.2	0.2	
Carbonyl Sulfide (COS)/Sulfur Dioxide (SO2)	0.1	0.1	
Methanethiol (MeSH)	0.2	0.2	
Ethanethiol (EtSH)	BDL		
Dimethylsulfide (DMS)	BDL		
Carbon Disulfide (CS2)	BDL		
i-Propanethiol (i-PrSH)	BDL		
t-Butanethiol (t-BuSH)	BDL		
n-Propanethiol (n-PrSH)	BDL		
Methylethylsulfide (MES)	BDL		
s-Butanethiol (s-BuSH)	BDL		
i-Butanethiol (i-BuSH)	BDL		
Thiophene (TP)	BDL		
Diethylsulfide (DES)	BDL		
n-Butanethiol (n-BuSH)	BDL		
Dimethyldisulfide (DMDS)	BDL		
Unidentified Sulfurs - Light Ends	BDL		
Methylthiophenes (MTP)	BDL		
2-Ethylthiophene (2-ETP)	BDL		
Methylethylsulfide (MEDS)	BDL		
Dimethylthiophenes (DMTP)	BDL		
Diethylsulfide (DEDS)	BDL		
Benzothiophene (BzTP)	BDL		
Unidentified Sulfurs - Mid Range	BDL		
Methylbenzothiophenes (MBzTP)	BDL		
Dimethylbenzothiophenes (DMBzTP)	BDL		
Trimethylbenzothiophenes (TMBzTP)	BDL		
Dibenzothiophenes (DBzTP)	BDL		
Methyldibenzothiophenes (MDBzTP)	BDL		
<u>Unidentified Sulfurs - Heavy Ends</u>	<u>BDL</u>		
TOTAL SULFUR	0.5	0.5	
GRAINS OF H2S	0.0117 / 100 scf	TOTAL GRAINS OF SULFUR	0.0292 / 100 scf
POUNDS OF H2S	0.00002 / 1000 scf	TOTAL POUNDS OF SULFUR	0.0000 / 1000 scf
WT% OF H2S	0.00002 / 1000 scf	TOTAL WT% OF SULFUR	0.00005 / 1000 scf

* ASTM D5504 ** DETECTION LIMIT DETERMINED TO BE 0.1 ppm (ul/L) Sulfur - BDL (BELOW DETECTION LIMIT)
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