



|                            |                    |                                    |
|----------------------------|--------------------|------------------------------------|
| PRIMARY DB KEY:            | NAME/DESCRIP :     | FLATHEAD 32-20                     |
| LEASE #:                   |                    | WELL HEAD                          |
| FIELD/ AREA:               |                    |                                    |
| PROJECT NO. :              | 201807035          | ANALYSIS NO. : 03                  |
| COMPANY NAME :             | AUSTIN EXPLORATION | ANALYSIS DATE: JULY 09, 2018 08:37 |
| OFFICE / BRANCH:           | FLORENCE, CO       | SAMPLE DATE : JULY 2, 2018 18:10   |
| CUSTOMER REF:              |                    | TO:                                |
| PRODUCER :                 |                    | EFFECTIVE DATE:                    |
| ***FIELD DATA***           |                    |                                    |
| SAMPLE CYCLE:              |                    | SAMPLE TYPE: SPOT                  |
| SAMPLE PRES. : 1 oz        |                    | PROBE : NO                         |
| FLOW PRES. : psig          |                    | CYLINDER NO. : 0199                |
| LAB PRES: psig             |                    | SAMPLED BY : GALE MCENDREE         |
| SAMPLE TEMP. : 91 °f       |                    | SAMPLING COMPANY: EMPACT           |
| AMBIENT TEMP.: °f          |                    | H2S BY STAIN TUBE: <b>BDL</b> ppm  |
| H2O BY STAIN TUBE - #/mmcf |                    | CO2 BY STAIN TUBE: - Mol %         |
| FIELD COMMENTS:            |                    |                                    |
| LAB COMMENTS:              |                    |                                    |

| COMPONENTS                                | NORM.<br>MOLE% | GPM @<br>14.73 | GPM @<br>14.65 |
|---|----------------|----------------|----------------|
| HELIUM                                    | 0.09           | -              | -              |
| HYDROGEN                                  | 0.01           | -              | -              |
| OXYGEN/ARGON                              | 0.67           | -              | -              |
| NITROGEN                                  | 4.08           | -              | -              |
| CO2                                       | 2.62           | -              | -              |
| METHANE                                   | 81.22          | -              | -              |
| ETHANE                                    | 3.81           | 1.0213         | 1.0157         |
| PROPANE                                   | 3.43           | 0.9479         | 0.9427         |
| ISOBUTANE                                 | 0.61           | 0.2000         | 0.1989         |
| N-BUTANE                                  | 1.21           | 0.3820         | 0.3799         |
| ISOPENTANE                                | 0.46           | 0.1689         | 0.1680         |
| N-PENTANE                                 | 0.39           | 0.1417         | 0.1410         |
| HEXANES+                                  | 1.40           | 0.6091         | 0.6058         |
| <b>TOTAL</b>                              | <b>100.00</b>  | <b>3.4709</b>  | <b>3.4520</b>  |
| BTU @ 60 DEG F                            |                | <b>14.73</b>   | <b>14.65</b>   |
| GROSS DRY REAL =                          |                | 1145.0 /scf    | 1138.8 /scf    |
| GROSS SATURATED REAL =                    |                | 1125.1 /scf    | 1118.9 /scf    |
| RELATIVE DENSITY (AIR=1 @14.696 PSIA 60F) |                | 0.7313         |                |
| GRAVITY (LB/SCF)                          |                | 0.05580        |                |
| COMPRESSIBILITY FACTOR :                  |                | 0.99716        |                |

**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.*