

# Orifice Meter Test Report

**Date Performed: September 19, 2024 08:46 Rev 2**

|            |                |                  |             |             |              |                 |      |
|------------|----------------|------------------|-------------|-------------|--------------|-----------------|------|
| Company:   | QB ENERGY      | Insp. Freq:      | Semi-Annual | Lease #:    | COC55972E    | Quarter:        |      |
| Division:  | Piceance       | County:          | garfield    | API Number: | 05-045-21609 | Section:        | 31   |
| Area:      | south piceance | State:           | Colorado    | Seller:     | QB ENERGY    | Township:       | t7s  |
| Purchaser: | summit         |                  |             | Latitude:   | 39.401978    | Range:          | r92w |
| Last Test: | 07/13/2022     | Reason for Test: | Calibration | Longitude:  | -107.7-888   | Site Elevation: | 6906 |

## Flowing Conditions

|                | Found   | Left     | Average |
|----------------|---------|----------|---------|
| Differential:  | 0.000   | 0.000    | 100.000 |
| Pressure:      | 90.400  | 90.500   | 187.500 |
| Temperature:   | 64.000  | 67.200   | 60.000  |
| RTU Flow Rate: | 0.000   | 0.000    |         |
|                |         |          |         |
| Meter Time:    | 9:35:00 | 10:15:00 |         |

## Meter Inspection

|                              |                        |                             |
|------------------------------|------------------------|-----------------------------|
| PrimBrand: <u>SURESHOT</u>   | Model: <u>SIMPLEX</u>  | Ser #: <u>73035</u>         |
| RTUBrand: <u>Weatherford</u> | Model: <u>DACC3512</u> | Ser #: _____                |
| Firmware Version: _____      |                        |                             |
| DP Range: <u>0-400</u>       | Model: <u>KA3872</u>   | Ser #: <u>1144C40000000</u> |
| SP Range: <u>0-750</u>       | Model: <u>KA3872</u>   | Ser #: <u>1144C40000000</u> |
| Tmp Range: <u>0-150</u>      | Model: <u>KA3872</u>   | Ser #: <u>1144C40000000</u> |

|                  |                 |              |               |
|------------------|-----------------|--------------|---------------|
| Static Location: | <u>Upstream</u> | Tap Type:    | <u>Flange</u> |
| Leak Test:       | <u>Yes</u>      | Zero Cutoff: | <u>0.50</u>   |

## Orifice Plate

|                         |              |                              |
|-------------------------|--------------|------------------------------|
| Plate Size Existing RTI | <u>1.500</u> | Beta Ratio: <u>.49</u>       |
| Plate Size Found:       | <u>1.500</u> | Seal Inspection: <u>Good</u> |
| Tube ID Existing:       | <u>3.068</u> | Tube Serial: <u>73035</u>    |

Plate Inspected: Yes      Plate Clean No      Edge Sharp Yes      Oily Yes  
Smooth Yes      Surface Flat Yes      Dirty No  
Bevel Yes      Beveled DS Yes      Rough No  
Bowed No      Nicked No

Plate Changed: No \_\_\_\_\_

Plate Size Left: \_\_\_\_\_

## Meter Constants

|                     |           |                   |             |
|---------------------|-----------|-------------------|-------------|
| Calculation Method: | AGA3-1992 | FPV Method:       | AGA8-Gross2 |
| Pressure Type:      | PSIG      | Measured HV:      | 1107.10     |
| Atmos. Press.:      | 11.380    | Specific Gravity: | 0.630       |
| Pressure Base:      | 14.73     | N2:               | 0.08        |
| Temp. Base:         | 60.00     | CO2:              | 0.99        |

## DP Calibration

| Standard    | Found   | Left   | Flow Rate Error |
|-------------|---------|--------|-----------------|
| Reset A.P.0 | No      | 0.02   |                 |
| Reset W.P.0 | No      | 0.03   |                 |
| 0.000       | 0.020   | 0.02   |                 |
| 100.000     | 100.020 | 100.02 | 0.01 %          |
| 200.000     | 199.97  | 199.97 | 0.00 %          |
| 400.000     | 400.00  | 400.00 | 0.00 %          |
| 320.000     | 320.02  | 320.02 | 0.00 %          |
| 80.000      | 80.00   | 80.00  | 0.01 %          |
| 0.00        | 0.02    | 0.02   |                 |
|             |         |        |                 |
|             |         |        |                 |
|             |         |        |                 |
|             |         |        |                 |

## SP Calibration

|                       |              |                    |                 |
|-----------------------|--------------|--------------------|-----------------|
| Atmos. Press. Source: | <u>Fixed</u> | Obs. Atmos. Press: | <u>11.38</u>    |
| Standard (PSIG)       | Found (PSIG) | Left (PSIG)        | Flow Rate Error |
| 0.00                  | 0.23         | 0.00               | 1.24%           |
| 187.50                | 187.80       | 187.54             | 0.08%           |
| 375.00                | 375.44       | 375.01             | 0.06%           |
| 750.00                | 750.50       | 750.06             | 0.04%           |
| 600.00                | 600.39       | 600.04             | 0.04%           |
| 150.00                | 150.38       | 150.05             | 0.12%           |

## Temperature Calibration

| Standard | Found | Left                | Flow Rate Error |
|----------|-------|---------------------|-----------------|
| 62.80    | 62.89 | 62.89               | -0.01%          |
|          |       |                     |                 |
|          |       |                     |                 |
|          |       |                     |                 |
|          |       | <b>Total Error:</b> | 0.09%           |

Remarks:

Well was shut in and recently put back into service . Semi annual meter verification/calibration - temp. and dp. tested good as found, calibrated sp..  
Inspected 1.500" orifice plate - good. DL

Witness: \_\_\_\_\_ Signed: Jesse Latham /QB ENERGY/9702852615/1 - 970 285-2615 QB E

% errors stated on this report are based on spot averages and are not the values used for volume corrections