

# 1 General

## 1.1 Customer Information

|                |              |
|----------------|--------------|
| Company        | PICEANCE VLY |
| Representative |              |
| Address        |              |

## 1.2 Well Information

|                          |                                      |                 |               |
|--------------------------|--------------------------------------|-----------------|---------------|
| Well                     | RWF 422-35                           | Wellbore No.    |               |
| Well Name                | RWF 422-35                           | Common Name     | RWF 422-35    |
| Project                  | RU 35-06S-094W                       | Site            | RMV 15-35 Pad |
| Vertical Section Azimuth | 77.04 (°)                            | North Reference | True          |
| Origin N/S               |                                      | Origin E/W      |               |
| Spud Date                | 6/16/2012                            | UWI             | RWF 422-35    |
| Active Datum             | KB @5,575.7ft (above Mean Sea Level) |                 |               |

# 2 Survey Name

## 2.1 Survey Name: Survey #1

|              |           |          |  |
|--------------|-----------|----------|--|
| Survey Name  | Survey #1 | Company  |  |
| Date Started | 6/16/2012 | Ended    |  |
| Tool Name    | MWD       | Engineer |  |

### 2.1.1 Tie On Point

| MD (ft) | Inc (°) | Azi (°) | TVD (ft) | N/S (ft) | E/W (ft) |
|---------|---------|---------|----------|----------|----------|
| 0.0     | 0.00    | 0.00    | 0.00     | 0.00     | 0.00     |

### 2.1.2 Survey Stations

5952

| Date      | Type   | MD (ft) | Inc (°) | Azi (°) | TVD (ft) | N/S (ft) | E/W (ft) | V. Sec (ft) | DLS (°/100ft) | Build Rate (°/100ft) | Turn (°/100ft) | TFace (°) |
|-----------|--------|---------|---------|---------|----------|----------|----------|-------------|---------------|----------------------|----------------|-----------|
| 6/16/2012 | Tie On | 0.0     | 0.00    | 0.00    | 0.00     | 0.00     | 0.00     | 0.00        | 0.00          | 0.00                 | 0.00           | 0.00      |
| 6/16/2012 | NORMAL | 86.0    | 0.53    | 36.12   | 86.00    | 0.32     | 0.23     | 0.30        | 0.62          | 0.62                 | 0.00           | 36.12     |
|           | NORMAL | 178.0   | 3.70    | 72.35   | 177.93   | 1.57     | 3.31     | 3.58        | 3.57          | 3.45                 | 39.38          | 41.69     |
| 6/17/2012 | NORMAL | 209.0   | 5.19    | 75.50   | 208.83   | 2.22     | 5.63     | 5.98        | 4.87          | 4.81                 | 10.16          | 10.88     |
|           | NORMAL | 239.0   | 5.28    | 76.64   | 238.71   | 2.88     | 8.28     | 8.72        | 0.46          | 0.30                 | 3.80           | 49.70     |
|           | NORMAL | 270.0   | 5.89    | 76.55   | 269.56   | 3.58     | 11.22    | 11.73       | 1.97          | 1.97                 | -0.29          | 359.13    |
|           | NORMAL | 300.0   | 7.13    | 78.22   | 299.37   | 4.32     | 14.54    | 15.13       | 4.18          | 4.13                 | 5.57           | 9.51      |
|           | NORMAL | 330.0   | 7.39    | 79.54   | 329.13   | 5.05     | 18.26    | 18.92       | 1.03          | 0.87                 | 4.40           | 33.34     |
|           | NORMAL | 361.0   | 7.57    | 80.42   | 359.86   | 5.75     | 22.23    | 22.95       | 0.69          | 0.58                 | 2.84           | 32.91     |
|           | NORMAL | 391.0   | 8.01    | 79.89   | 389.58   | 6.44     | 26.24    | 27.01       | 1.49          | 1.47                 | -1.77          | 350.46    |
|           | NORMAL | 422.0   | 8.89    | 76.20   | 420.25   | 7.39     | 30.69    | 31.57       | 3.33          | 2.84                 | -11.90         | 326.53    |
|           | NORMAL | 462.0   | 9.76    | 79.24   | 459.72   | 8.76     | 37.02    | 38.04       | 2.50          | 2.18                 | 7.60           | 31.02     |
|           | NORMAL | 491.0   | 10.99   | 78.45   | 488.24   | 9.78     | 42.15    | 43.26       | 4.27          | 4.24                 | -2.72          | 353.01    |
|           | NORMAL | 522.0   | 11.64   | 79.64   | 518.64   | 10.93    | 48.12    | 49.34       | 2.23          | 2.10                 | 3.84           | 20.34     |
|           | NORMAL | 552.0   | 12.66   | 81.09   | 547.97   | 11.98    | 54.34    | 55.65       | 3.55          | 3.40                 | 4.83           | 17.37     |
|           | NORMAL | 583.0   | 13.72   | 80.21   | 578.15   | 13.14    | 61.32    | 62.70       | 3.48          | 3.42                 | -2.84          | 348.84    |
|           | NORMAL | 613.0   | 14.71   | 79.05   | 607.23   | 14.46    | 68.57    | 70.06       | 3.43          | 3.30                 | -3.87          | 343.39    |
|           | NORMAL | 644.0   | 15.74   | 78.63   | 637.14   | 16.04    | 76.55    | 78.20       | 3.34          | 3.32                 | -1.35          | 353.69    |
|           | NORMAL | 674.0   | 16.97   | 77.66   | 665.93   | 17.78    | 84.82    | 86.65       | 4.20          | 4.10                 | -3.23          | 347.01    |
|           | NORMAL | 704.0   | 17.94   | 76.34   | 694.55   | 19.81    | 93.59    | 95.64       | 3.49          | 3.23                 | -4.40          | 337.16    |
|           | NORMAL | 796.0   | 20.05   | 73.97   | 781.53   | 27.51    | 122.52   | 125.56      | 2.44          | 2.29                 | -2.58          | 338.79    |

2.1.2 Survey Stations (Continued)

| Date      | Type   | MD (ft) | Inc (°) | Azi (°) | TVD (ft) | N/S (ft) | E/W (ft) | V. Sec (ft) | DLS (°/100ft) | Build Rate (°/100ft) | Turn (°/100ft) | TFace (°) |
|-----------|--------|---------|---------|---------|----------|----------|----------|-------------|---------------|----------------------|----------------|-----------|
| 6/17/2012 | NORMAL | 887.0   | 20.91   | 73.38   | 866.78   | 36.46    | 153.07   | 157.35      | 0.97          | 0.95                 | -0.65          | 346.23    |
|           | NORMAL | 978.0   | 19.17   | 74.76   | 952.27   | 45.03    | 183.05   | 188.49      | 1.98          | -1.91                | 1.52           | 165.44    |
|           | NORMAL | 1,073.0 | 19.26   | 79.42   | 1,041.98 | 52.01    | 213.50   | 219.73      | 1.62          | 0.09                 | 4.91           | 88.84     |
| 6/18/2012 | NORMAL | 1,166.0 | 19.75   | 79.81   | 1,129.65 | 57.61    | 244.04   | 250.75      | 0.55          | 0.53                 | 0.42           | 15.07     |
|           | NORMAL | 1,257.0 | 20.17   | 76.79   | 1,215.18 | 63.91    | 274.45   | 281.79      | 1.22          | 0.46                 | -3.32          | 290.74    |
|           | NORMAL | 1,352.0 | 20.84   | 78.80   | 1,304.16 | 70.94    | 306.97   | 315.06      | 1.02          | 0.71                 | 2.12           | 47.37     |
|           | NORMAL | 1,448.0 | 19.96   | 74.58   | 1,394.15 | 78.61    | 339.52   | 348.50      | 1.78          | -0.92                | -4.40          | 237.14    |
|           | NORMAL | 1,544.0 | 19.47   | 75.23   | 1,484.52 | 87.05    | 370.79   | 380.87      | 0.56          | -0.51                | 0.68           | 156.20    |
|           | NORMAL | 1,640.0 | 19.85   | 77.63   | 1,574.92 | 94.62    | 402.18   | 413.16      | 0.93          | 0.40                 | 2.50           | 65.93     |
|           | NORMAL | 1,734.0 | 20.31   | 75.90   | 1,663.21 | 102.01   | 433.59   | 445.43      | 0.80          | 0.49                 | -1.84          | 306.94    |
|           | NORMAL | 1,828.0 | 20.22   | 74.94   | 1,751.39 | 110.21   | 465.10   | 477.97      | 0.37          | -0.10                | -1.02          | 254.40    |
|           | NORMAL | 1,924.0 | 20.49   | 79.59   | 1,841.40 | 117.55   | 497.65   | 511.34      | 1.71          | 0.28                 | 4.84           | 82.71     |
|           | NORMAL | 2,020.0 | 20.31   | 78.63   | 1,931.38 | 123.87   | 530.51   | 544.78      | 0.40          | -0.19                | -1.00          | 241.27    |
| 6/19/2012 | NORMAL | 2,116.0 | 19.52   | 77.92   | 2,021.64 | 130.51   | 562.53   | 577.47      | 0.86          | -0.82                | -0.74          | 196.69    |
|           | NORMAL | 2,211.0 | 20.75   | 80.42   | 2,110.83 | 136.64   | 594.64   | 610.14      | 1.58          | 1.29                 | 2.63           | 36.16     |
|           | NORMAL | 2,307.0 | 20.53   | 79.25   | 2,200.67 | 142.61   | 627.95   | 643.94      | 0.49          | -0.23                | -1.22          | 241.38    |
|           | NORMAL | 2,402.0 | 19.75   | 80.32   | 2,289.86 | 148.41   | 660.14   | 676.61      | 0.91          | -0.82                | 1.13           | 155.22    |
|           | NORMAL | 2,498.0 | 20.66   | 78.10   | 2,379.96 | 154.63   | 692.70   | 709.73      | 1.24          | 0.95                 | -2.31          | 318.84    |
|           | NORMAL | 2,593.0 | 20.14   | 78.80   | 2,469.00 | 161.27   | 725.14   | 742.84      | 0.60          | -0.55                | 0.74           | 155.19    |
|           | NORMAL | 2,689.0 | 19.82   | 78.20   | 2,559.22 | 167.80   | 757.29   | 775.63      | 0.40          | -0.33                | -0.63          | 212.36    |
|           | NORMAL | 2,785.0 | 20.40   | 79.24   | 2,649.37 | 174.26   | 789.65   | 808.62      | 0.71          | 0.60                 | 1.08           | 32.14     |
|           | NORMAL | 2,878.0 | 20.14   | 79.07   | 2,736.61 | 180.32   | 821.30   | 840.82      | 0.29          | -0.28                | -0.18          | 192.68    |
|           | NORMAL | 2,973.0 | 19.61   | 80.12   | 2,825.95 | 186.15   | 853.06   | 873.08      | 0.67          | -0.56                | 1.11           | 146.53    |
|           | NORMAL | 3,068.0 | 20.22   | 76.37   | 2,915.27 | 192.76   | 884.72   | 905.42      | 1.49          | 0.64                 | -3.95          | 293.76    |
|           | NORMAL | 3,164.0 | 19.97   | 76.44   | 3,005.43 | 200.51   | 916.78   | 938.40      | 0.26          | -0.26                | 0.07           | 174.54    |
|           | NORMAL | 3,257.0 | 21.50   | 75.26   | 3,092.40 | 208.57   | 948.71   | 971.32      | 1.71          | 1.65                 | -1.27          | 344.17    |
|           | NORMAL | 3,353.0 | 20.94   | 77.03   | 3,181.89 | 216.90   | 982.44   | 1,006.05    | 0.89          | -0.58                | 1.84           | 131.98    |
|           | NORMAL | 3,447.0 | 20.74   | 76.95   | 3,269.74 | 224.43   | 1,015.02 | 1,039.50    | 0.21          | -0.21                | -0.09          | 188.06    |
|           | NORMAL | 3,543.0 | 20.54   | 75.18   | 3,359.58 | 232.57   | 1,047.86 | 1,073.33    | 0.68          | -0.21                | -1.84          | 251.40    |
|           | NORMAL | 3,638.0 | 20.29   | 74.98   | 3,448.62 | 241.10   | 1,079.88 | 1,106.44    | 0.27          | -0.26                | -0.21          | 195.50    |
|           | NORMAL | 3,734.0 | 19.33   | 76.23   | 3,538.93 | 249.20   | 1,111.39 | 1,138.97    | 1.09          | -1.00                | 1.30           | 156.78    |
|           | NORMAL | 3,829.0 | 20.05   | 74.23   | 3,628.38 | 257.37   | 1,142.33 | 1,170.95    | 1.04          | 0.76                 | -2.11          | 315.95    |
|           | NORMAL | 3,925.0 | 19.61   | 75.11   | 3,718.69 | 265.98   | 1,173.74 | 1,203.49    | 0.55          | -0.46                | 0.92           | 146.26    |
|           | NORMAL | 4,020.0 | 19.56   | 74.47   | 3,808.19 | 274.34   | 1,204.47 | 1,235.31    | 0.23          | -0.05                | -0.67          | 256.58    |
|           | NORMAL | 4,115.0 | 17.70   | 75.67   | 3,898.21 | 282.17   | 1,233.78 | 1,265.64    | 2.00          | -1.96                | 1.26           | 168.92    |
|           | NORMAL | 4,210.0 | 17.00   | 76.77   | 3,988.89 | 288.92   | 1,261.30 | 1,293.96    | 0.81          | -0.74                | 1.16           | 155.42    |
| 6/20/2012 | NORMAL | 4,305.0 | 15.63   | 75.11   | 4,080.06 | 295.39   | 1,287.18 | 1,320.64    | 1.52          | -1.44                | -1.75          | 198.00    |
|           | NORMAL | 4,400.0 | 13.10   | 72.56   | 4,172.08 | 301.90   | 1,309.83 | 1,344.17    | 2.74          | -2.66                | -2.68          | 192.81    |
|           | NORMAL | 4,496.0 | 12.37   | 75.94   | 4,265.72 | 307.66   | 1,330.18 | 1,365.30    | 1.09          | -0.76                | 3.52           | 136.05    |
|           | NORMAL | 4,591.0 | 10.11   | 72.56   | 4,358.89 | 312.64   | 1,348.01 | 1,383.79    | 2.48          | -2.38                | -3.56          | 194.60    |
|           | NORMAL | 4,687.0 | 10.14   | 72.99   | 4,453.40 | 317.63   | 1,364.13 | 1,400.62    | 0.08          | 0.03                 | 0.45           | 68.57     |
|           | NORMAL | 4,782.0 | 8.67    | 74.78   | 4,547.12 | 321.96   | 1,379.04 | 1,416.11    | 1.58          | -1.55                | 1.88           | 169.63    |
|           | NORMAL | 4,877.0 | 6.79    | 75.88   | 4,641.25 | 325.21   | 1,391.39 | 1,428.88    | 1.98          | -1.98                | 1.16           | 176.04    |
|           | NORMAL | 4,972.0 | 6.69    | 78.00   | 4,735.60 | 327.73   | 1,402.25 | 1,440.03    | 0.28          | -0.11                | 2.23           | 112.95    |
|           | NORMAL | 5,065.0 | 5.28    | 69.64   | 4,828.09 | 330.34   | 1,411.56 | 1,449.69    | 1.78          | -1.52                | -8.99          | 207.61    |
|           | NORMAL | 5,161.0 | 4.64    | 74.69   | 4,923.73 | 332.91   | 1,419.45 | 1,457.95    | 0.81          | -0.67                | 5.26           | 148.20    |
|           | NORMAL | 5,257.0 | 3.84    | 64.84   | 5,019.47 | 335.30   | 1,426.10 | 1,464.98    | 1.12          | -0.83                | -10.26         | 217.47    |
|           | NORMAL | 5,352.0 | 3.57    | 60.05   | 5,114.27 | 338.13   | 1,431.55 | 1,470.91    | 0.43          | -0.28                | -5.04          | 226.53    |
|           | NORMAL | 5,448.0 | 2.37    | 78.28   | 5,210.14 | 340.02   | 1,436.08 | 1,475.76    | 1.58          | -1.25                | 18.99          | 150.66    |
|           | NORMAL | 5,544.0 | 2.28    | 75.73   | 5,306.06 | 340.90   | 1,439.87 | 1,479.65    | 0.14          | -0.09                | -2.66          | 227.71    |
| 6/21/2012 | NORMAL | 5,639.0 | 0.50    | 61.34   | 5,401.03 | 341.56   | 1,442.07 | 1,481.94    | 1.89          | -1.87                | -15.15         | 183.96    |
|           | NORMAL | 5,732.0 | 0.18    | 132.64  | 5,494.03 | 341.66   | 1,442.53 | 1,482.41    | 0.51          | -0.34                | 76.67          | 158.92    |
|           | NORMAL | 5,826.0 | 0.57    | 179.75  | 5,588.03 | 341.09   | 1,442.64 | 1,482.39    | 0.50          | 0.41                 | 50.12          | 63.53     |
|           | NORMAL | 5,922.0 | 0.21    | 45.44   | 5,684.02 | 340.74   | 1,442.77 | 1,482.44    | 0.76          | -0.38                | -139.91        | 191.84    |
|           | NORMAL | 6,017.0 | 0.65    | 3.83    | 5,779.02 | 341.40   | 1,442.93 | 1,482.74    | 0.54          | 0.46                 | -43.80         | 302.60    |
|           | NORMAL | 6,113.0 | 0.59    | 344.02  | 5,875.02 | 342.41   | 1,442.83 | 1,482.87    | 0.23          | -0.06                | -20.64         | 244.61    |
|           | NORMAL | 6,208.0 | 0.19    | 39.21   | 5,970.01 | 343.01   | 1,442.80 | 1,482.97    | 0.53          | -0.42                | 58.09          | 162.05    |

2.1.2 Survey Stations (Continued)

| Date      | Type   | MD (ft) | Inc (°) | Azi (°) | TVD (ft) | N/S (ft) | E/W (ft) | V. Sec (ft) | DLS (°/100ft) | Build Rate (°/100ft) | Turn (°/100ft) | TFace (°) |
|-----------|--------|---------|---------|---------|----------|----------|----------|-------------|---------------|----------------------|----------------|-----------|
| 6/21/2012 | NORMAL | 6,301.0 | 0.32    | 166.18  | 6,063.01 | 342.87   | 1,442.96 | 1,483.10    | 0.49          | 0.14                 | 136.53         | 146.24    |
|           | NORMAL | 6,396.0 | 0.53    | 206.16  | 6,158.01 | 342.22   | 1,442.83 | 1,482.82    | 0.37          | 0.22                 | 42.08          | 75.81     |
|           | NORMAL | 6,492.0 | 0.97    | 18.16   | 6,254.01 | 342.60   | 1,442.88 | 1,482.96    | 1.56          | 0.46                 | 179.17         | 174.82    |
|           | NORMAL | 6,587.0 | 1.04    | 1.30    | 6,348.99 | 344.22   | 1,443.15 | 1,483.59    | 0.32          | 0.07                 | -17.75         | 274.80    |
| 6/22/2012 | NORMAL | 6,683.0 | 0.77    | 5.12    | 6,444.98 | 345.73   | 1,443.23 | 1,484.01    | 0.29          | -0.28                | 3.98           | 169.31    |
|           | NORMAL | 6,778.0 | 1.24    | 358.62  | 6,539.97 | 347.40   | 1,443.26 | 1,484.41    | 0.51          | 0.49                 | -6.84          | 343.10    |
|           | NORMAL | 6,872.0 | 0.95    | 105.06  | 6,633.96 | 348.21   | 1,443.99 | 1,485.30    | 1.88          | -0.31                | 113.23         | 148.87    |
|           | NORMAL | 6,967.0 | 0.79    | 73.35   | 6,728.95 | 348.20   | 1,445.38 | 1,486.65    | 0.53          | -0.17                | -33.38         | 236.21    |
|           | NORMAL | 7,063.0 | 1.11    | 136.30  | 6,824.93 | 347.71   | 1,446.66 | 1,487.79    | 1.07          | 0.33                 | 65.57          | 106.09    |
|           | NORMAL | 7,159.0 | 0.75    | 214.79  | 6,920.93 | 346.52   | 1,446.94 | 1,487.80    | 1.26          | -0.38                | 81.76          | 142.57    |
|           | NORMAL | 7,254.0 | 1.28    | 233.52  | 7,015.91 | 345.38   | 1,445.73 | 1,486.36    | 0.65          | 0.56                 | 19.72          | 41.64     |
|           | NORMAL | 7,349.0 | 1.31    | 250.62  | 7,110.89 | 344.39   | 1,443.85 | 1,484.31    | 0.41          | 0.03                 | 18.00          | 94.14     |
| 6/23/2012 | NORMAL | 7,445.0 | 1.49    | 232.45  | 7,206.86 | 343.27   | 1,441.83 | 1,482.09    | 0.50          | 0.19                 | -18.93         | 282.82    |
|           | NORMAL | 7,539.0 | 1.93    | 215.12  | 7,300.82 | 341.23   | 1,439.95 | 1,479.80    | 0.72          | 0.47                 | -18.44         | 301.51    |
|           | NORMAL | 7,634.0 | 2.94    | 226.61  | 7,395.73 | 338.25   | 1,437.26 | 1,476.51    | 1.18          | 1.06                 | 12.09          | 31.61     |
|           | NORMAL | 7,730.0 | 3.08    | 220.83  | 7,491.60 | 334.60   | 1,433.78 | 1,472.30    | 0.35          | 0.15                 | -6.02          | 291.86    |
|           | NORMAL | 7,825.0 | 3.09    | 211.82  | 7,586.46 | 330.50   | 1,430.76 | 1,468.44    | 0.51          | 0.01                 | -9.48          | 266.68    |
|           | NORMAL | 7,914.0 | 3.34    | 212.22  | 7,675.32 | 326.26   | 1,428.12 | 1,464.91    | 0.28          | 0.28                 | 0.45           | 5.33      |
|           | NORMAL | 7,970.0 | 3.34    | 212.22  | 7,731.23 | 323.50   | 1,426.38 | 1,462.60    | 0.00          | 0.00                 | 0.00           | 0.00      |