

Outrun Survey  
Yates Petroleum

Well number : Preston Federal No.

Date : 23-SEP-1998

| Measured<br>Depth | Vertical<br>Depth | Vent.<br>Section | Inc<br>Deg | Azimuth<br>Deg | Coordinates |           | D-leg<br>/100ft |
|-------------------|-------------------|------------------|------------|----------------|-------------|-----------|-----------------|
|                   |                   |                  |            |                | Latitude    | Departure |                 |
| 3900.0            | 3899.67           | -1.7             | 1.48       | 232.91         | -1.71       | 28.32     | 0.56            |
| 3950.0            | 3949.65           | -2.6             | 1.76       | 232.43         | -2.57       | 27.19     | 0.56            |
| 4000.0            | 3999.62           | -3.5             | 2.11       | 238.44         | -3.52       | 25.80     | 0.80            |
| 4050.0            | 4049.59           | -4.4             | 2.18       | 242.33         | -4.44       | 24.17     | 0.32            |
| 4100.0            | 4099.55           | -5.3             | 2.34       | 244.79         | -5.32       | 22.41     | 0.37            |
| 4150.0            | 4149.50           | -6.1             | 2.51       | 250.49         | -6.12       | 20.45     | 0.59            |
| 4200.0            | 4199.45           | -6.8             | 2.58       | 253.92         | -6.80       | 18.34     | 0.33            |
| 4250.0            | 4249.40           | -7.4             | 2.57       | 255.10         | -7.40       | 16.17     | 0.11            |
| 4300.0            | 4299.35           | -8.0             | 2.64       | 253.09         | -8.02       | 13.99     | 0.23            |
| 4350.0            | 4349.30           | -8.7             | 2.73       | 254.07         | -8.58       | 11.74     | 0.20            |
| 4400.0            | 4399.24           | -9.3             | 2.67       | 256.63         | -9.28       | 9.46      | 0.27            |
| 4450.0            | 4449.19           | -9.7             | 2.57       | 260.53         | -9.73       | 7.22      | 0.41            |
| 4500.0            | 4499.14           | -10.0            | 2.46       | 263.44         | -10.04      | 5.05      | 0.34            |
| 4550.0            | 4549.10           | -10.2            | 2.28       | 268.70         | -10.18      | 3.00      | 0.57            |
| 4600.0            | 4599.06           | -10.1            | 2.02       | 278.83         | -10.07      | 1.13      | 0.92            |
| 4650.0            | 4649.03           | -9.7             | 1.98       | 283.61         | -9.73       | -0.58     | 0.34            |
| 4700.0            | 4699.00           | -9.3             | 1.97       | 284.84         | -9.31       | -2.25     | 0.09            |
| 4750.0            | 4748.97           | -8.9             | 2.00       | 283.90         | -8.88       | -3.93     | 0.09            |
| 4800.0            | 4798.94           | -8.5             | 2.02       | 283.72         | -8.46       | -5.63     | 0.04            |
| 4850.0            | 4848.91           | -8.0             | 2.06       | 283.83         | -8.04       | -7.36     | 0.08            |
| 4900.0            | 4898.88           | -7.6             | 2.03       | 285.36         | -7.59       | -9.09     | 0.12            |
| 4950.0            | 4948.85           | -7.1             | 2.08       | 284.60         | -7.12       | -10.82    | 0.11            |
| 5000.0            | 4998.81           | -6.7             | 2.08       | 285.54         | -6.65       | -12.57    | 0.07            |
| 5050.0            | 5048.78           | -6.2             | 2.10       | 285.71         | -6.16       | -14.32    | 0.04            |
| 5100.0            | 5098.75           | -5.7             | 2.13       | 284.78         | -5.67       | -16.11    | 0.09            |
| 5150.0            | 5148.71           | -5.2             | 2.13       | 285.00         | -5.20       | -17.90    | 0.02            |
| 5200.0            | 5198.68           | -4.7             | 2.16       | 284.41         | -4.72       | -19.71    | 0.07            |
| 5250.0            | 5248.64           | -4.3             | 2.20       | 282.53         | -4.28       | -21.56    | 0.16            |
| 5300.0            | 5298.60           | -3.9             | 2.18       | 281.96         | -3.87       | -23.43    | 0.06            |
| 5350.0            | 5348.57           | -3.5             | 2.10       | 281.52         | -3.49       | -25.26    | 0.16            |
| 5400.0            | 5398.54           | -3.1             | 2.07       | 281.30         | -3.13       | -27.04    | 0.06            |
| 5450.0            | 5448.50           | -2.8             | 2.12       | 282.04         | -2.76       | -28.83    | 0.11            |
| 5500.0            | 5498.47           | -2.5             | 2.07       | 276.95         | -2.46       | -30.63    | 0.39            |
| 5550.0            | 5548.44           | -2.3             | 1.96       | 274.77         | -2.28       | -32.38    | 0.27            |
| 5600.0            | 5598.41           | -2.1             | 2.01       | 275.90         | -2.12       | -34.10    | 0.13            |
| 5650.0            | 5648.37           | -2.0             | 2.26       | 273.98         | -1.96       | -35.96    | 0.51            |
| 5700.0            | 5698.32           | -1.8             | 2.81       | 272.78         | -1.83       | -38.16    | 1.11            |
| 5750.0            | 5748.26           | -1.6             | 2.94       | 275.88         | -1.64       | -40.66    | 0.41            |
| 5800.0            | 5798.18           | -1.2             | 3.38       | 280.79         | -1.24       | -43.39    | 1.03            |

ORIGINAL LOCATION