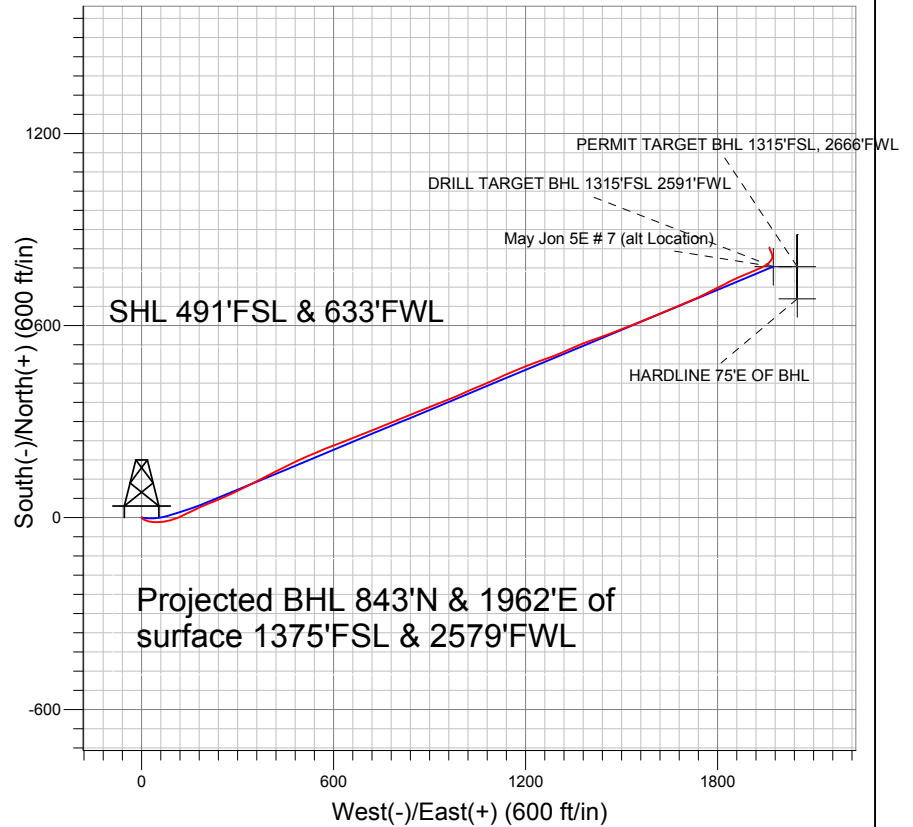
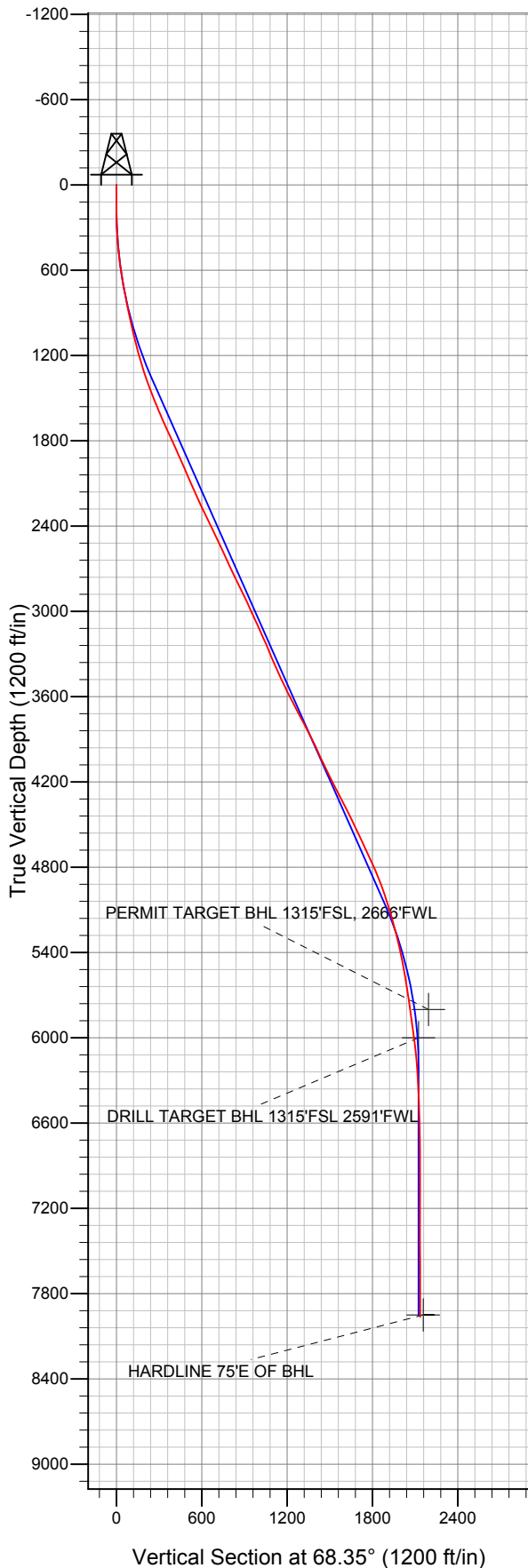


Well Name: **May Jon 5E # 7 (alt Location)**  
 Surface Location: May Jon 4 Pad Sec.5-T2N-R68W  
 North American Datum 1983 US State Plane 1983 Colorado Northern Zone  
 Ground Elevation: 4931.0  
 +N/-S +E/-W Northing Easting Latitude Longitude Slot  
 0.0 0.0 1302205.03 3130131.83 40.162010 -105.034390  
 Original Well Elev WELL @ 4944.0ft (Original Well Elev)

## Sundance Energy, Weld County, CO



### LEGEND

- May Jon 5E # 7 (alt Location), Wellbore #1, Plan 2 (June 30, 2011) V0
- Wellbore #1
- Survey #1

## Final Survey Plot

Projected Final Survey -  
 8384'MD & 7964'TVD @ 2135'VS  
 0.8 deg Inc 342.3 deg AZ

Project: SEC.5-T2N-R68W  
 Site: May Jon 4 Pad Sec.5-T2N-R68W  
 Well: May Jon 5E # 7 (alt Location)  
 Plan: Wellbore #1



## **Directional**

### **Sundance Energy, Weld County, CO**

**SEC.5-T2N-R68W**

**May Jon 4 Pad Sec.5-T2N-R68W**

**May Jon 5E # 7 (alt Location)**

**Wellbore #1**

**Survey: Survey #1**

### **Standard Survey Report**

**14 November, 2011**

| Survey      | Wellbore Data       |                 |             |                     |            |            |                       |                       |                      |                     |
|-------------|---------------------|-----------------|-------------|---------------------|------------|------------|-----------------------|-----------------------|----------------------|---------------------|
|             | Measured Depth (ft) | Inclination (°) | Azimuth (°) | Vertical Depth (ft) | +N/-S (ft) | +E/-W (ft) | Vertical Section (ft) | Dogleg Rate (°/100ft) | Build Rate (°/100ft) | Turn Rate (°/100ft) |
| Survey Data | 0.0                 | 0.00            | 0.00        | 0.0                 | 0.0        | 0.0        | 0.0                   | 0.00                  | 0.00                 | 0.00                |
|             | 94.0                | 0.70            | 178.40      | 94.0                | -0.6       | 0.0        | -0.2                  | 0.74                  | 0.74                 | 0.00                |
|             | 185.0               | 1.70            | 144.00      | 185.0               | -2.2       | 0.8        | -0.1                  | 1.31                  | 1.10                 | -37.80              |
|             | 274.0               | 3.30            | 123.20      | 273.9               | -4.7       | 3.7        | 1.7                   | 2.04                  | 1.80                 | -23.37              |
|             | 366.0               | 5.50            | 118.70      | 365.6               | -8.3       | 9.8        | 6.1                   | 2.42                  | 2.39                 | -4.89               |
|             | 458.0               | 7.20            | 104.10      | 457.1               | -11.8      | 19.3       | 13.6                  | 2.53                  | 1.85                 | -15.87              |
|             | 549.0               | 8.50            | 98.60       | 547.2               | -14.2      | 31.5       | 24.0                  | 1.65                  | 1.43                 | -6.04               |
|             | 640.0               | 9.70            | 89.10       | 637.1               | -15.1      | 45.8       | 37.0                  | 2.11                  | 1.32                 | -10.44              |
|             | 731.0               | 10.40           | 84.90       | 726.7               | -14.2      | 61.6       | 52.0                  | 1.11                  | 0.77                 | -4.62               |
|             | 784.0               | 11.50           | 80.90       | 778.7               | -13.0      | 71.6       | 61.8                  | 2.52                  | 2.08                 | -7.55               |
|             | 841.0               | 11.80           | 77.90       | 834.5               | -10.8      | 82.9       | 73.1                  | 1.19                  | 0.53                 | -5.26               |
|             | 935.0               | 11.70           | 67.30       | 926.6               | -5.1       | 101.1      | 92.1                  | 2.30                  | -0.11                | -11.28              |
| 1,031.0     | 12.80               | 66.60           | 1,020.4     | 2.8                 | 119.9      | 112.5      | 1.16                  | 1.15                  | -0.73                |                     |

|                  |                                  |                                     |                                      |
|------------------|----------------------------------|-------------------------------------|--------------------------------------|
| <b>Company:</b>  | Sundance Energy, Weld County, CO | <b>Local Co-ordinate Reference:</b> | Well May Jon 5E # 7 (alt Location)   |
| <b>Project:</b>  | SEC.5-T2N-R68W                   | <b>TVD Reference:</b>               | WELL @ 4944.0ft (Original Well Elev) |
| <b>Site:</b>     | May Jon 4 Pad Sec.5-T2N-R68W     | <b>MD Reference:</b>                | WELL @ 4944.0ft (Original Well Elev) |
| <b>Well:</b>     | May Jon 5E # 7 (alt Location)    | <b>North Reference:</b>             | True                                 |
| <b>Wellbore:</b> | Wellbore #1                      | <b>Survey Calculation Method:</b>   | Minimum Curvature                    |
| <b>Design:</b>   | Wellbore #1                      | <b>Database:</b>                    | Landmark                             |

| Survey              |                 |             |                     |            |            |                       |                       |                      |                     |  |
|---------------------|-----------------|-------------|---------------------|------------|------------|-----------------------|-----------------------|----------------------|---------------------|--|
| Measured Depth (ft) | Inclination (°) | Azimuth (°) | Vertical Depth (ft) | +N/-S (ft) | +E/-W (ft) | Vertical Section (ft) | Dogleg Rate (°/100ft) | Build Rate (°/100ft) | Turn Rate (°/100ft) |  |
| 1,125.0             | 14.20           | 67.00       | 1,111.8             | 11.5       | 140.0      | 134.4                 | 1.49                  | 1.49                 | 0.43                |  |
| 1,220.0             | 16.10           | 62.10       | 1,203.5             | 22.2       | 162.4      | 159.1                 | 2.41                  | 2.00                 | -5.16               |  |
| 1,314.0             | 17.70           | 66.60       | 1,293.4             | 34.0       | 187.0      | 186.4                 | 2.20                  | 1.70                 | 4.79                |  |
| 1,408.0             | 19.50           | 69.40       | 1,382.5             | 45.2       | 214.8      | 216.3                 | 2.14                  | 1.91                 | 2.98                |  |
| 1,503.0             | 21.00           | 65.60       | 1,471.6             | 57.8       | 245.2      | 249.2                 | 2.10                  | 1.58                 | -4.00               |  |
| 1,597.0             | 22.40           | 65.10       | 1,559.0             | 72.3       | 276.8      | 283.9                 | 1.50                  | 1.49                 | -0.53               |  |
| 1,693.0             | 24.40           | 64.50       | 1,647.1             | 88.5       | 311.3      | 322.0                 | 2.10                  | 2.08                 | -0.63               |  |
| 1,788.0             | 24.90           | 61.70       | 1,733.4             | 106.5      | 346.6      | 361.4                 | 1.34                  | 0.53                 | -2.95               |  |
| 1,883.0             | 24.40           | 62.40       | 1,819.8             | 125.0      | 381.6      | 400.8                 | 0.61                  | -0.53                | 0.74                |  |
| 1,977.0             | 23.50           | 65.20       | 1,905.7             | 141.9      | 415.8      | 438.8                 | 1.54                  | -0.96                | 2.98                |  |
| 2,070.0             | 23.60           | 62.40       | 1,990.9             | 158.3      | 449.1      | 475.8                 | 1.21                  | 0.11                 | -3.01               |  |
| 2,164.0             | 24.10           | 63.60       | 2,076.9             | 175.5      | 483.0      | 513.7                 | 0.74                  | 0.53                 | 1.28                |  |
| 2,258.0             | 23.90           | 67.30       | 2,162.8             | 191.4      | 517.8      | 551.9                 | 1.61                  | -0.21                | 3.94                |  |
| 2,351.0             | 25.20           | 67.30       | 2,247.4             | 206.3      | 553.4      | 590.5                 | 1.40                  | 1.40                 | 0.00                |  |
| 2,444.0             | 25.70           | 69.40       | 2,331.3             | 221.1      | 590.5      | 630.4                 | 1.11                  | 0.54                 | 2.26                |  |
| 2,538.0             | 25.90           | 68.90       | 2,416.0             | 235.6      | 628.8      | 671.4                 | 0.31                  | 0.21                 | -0.53               |  |
| 2,634.0             | 25.20           | 67.70       | 2,502.6             | 250.9      | 667.2      | 712.8                 | 0.91                  | -0.73                | -1.25               |  |
| 2,728.0             | 25.00           | 68.00       | 2,587.7             | 266.0      | 704.2      | 752.6                 | 0.25                  | -0.21                | 0.32                |  |
| 2,822.0             | 24.90           | 68.60       | 2,672.9             | 280.6      | 741.0      | 792.3                 | 0.29                  | -0.11                | 0.64                |  |
| 2,917.0             | 25.30           | 68.40       | 2,759.0             | 295.4      | 778.5      | 832.6                 | 0.43                  | 0.42                 | -0.21               |  |
| 3,012.0             | 25.80           | 67.90       | 2,844.7             | 310.6      | 816.5      | 873.6                 | 0.57                  | 0.53                 | -0.53               |  |
| 3,107.0             | 25.90           | 66.80       | 2,930.2             | 326.6      | 854.8      | 915.0                 | 0.52                  | 0.11                 | -1.16               |  |
| 3,202.0             | 24.40           | 68.20       | 3,016.2             | 342.1      | 892.1      | 955.3                 | 1.70                  | -1.58                | 1.47                |  |
| 3,297.0             | 24.40           | 68.70       | 3,102.7             | 356.5      | 928.6      | 994.6                 | 0.22                  | 0.00                 | 0.53                |  |
| 3,392.0             | 23.60           | 67.70       | 3,189.5             | 370.8      | 964.4      | 1,033.2               | 0.94                  | -0.84                | -1.05               |  |
| 3,486.0             | 22.40           | 66.10       | 3,276.0             | 385.2      | 998.2      | 1,069.9               | 1.44                  | -1.28                | -1.70               |  |
| 3,581.0             | 24.40           | 66.50       | 3,363.2             | 400.4      | 1,032.8    | 1,107.6               | 2.11                  | 2.11                 | 0.42                |  |
| 3,675.0             | 24.10           | 68.40       | 3,448.9             | 415.2      | 1,068.4    | 1,146.2               | 0.89                  | -0.32                | 2.02                |  |
| 3,770.0             | 25.70           | 64.40       | 3,535.1             | 431.2      | 1,105.0    | 1,186.2               | 2.44                  | 1.68                 | -4.21               |  |
| 3,864.0             | 27.70           | 67.00       | 3,619.0             | 448.6      | 1,143.5    | 1,228.4               | 2.46                  | 2.13                 | 2.77                |  |
| 3,959.0             | 27.20           | 67.50       | 3,703.3             | 465.5      | 1,183.9    | 1,272.1               | 0.58                  | -0.53                | 0.53                |  |
| 4,053.0             | 28.40           | 69.60       | 3,786.5             | 481.5      | 1,224.7    | 1,316.0               | 1.65                  | 1.28                 | 2.23                |  |
| 4,148.0             | 26.70           | 70.20       | 3,870.7             | 496.6      | 1,266.0    | 1,359.9               | 1.81                  | -1.79                | 0.63                |  |
| 4,242.0             | 25.10           | 67.50       | 3,955.3             | 511.4      | 1,304.3    | 1,400.9               | 2.11                  | -1.70                | -2.87               |  |
| 4,337.0             | 25.20           | 65.90       | 4,041.3             | 527.4      | 1,341.4    | 1,441.3               | 0.72                  | 0.11                 | -1.68               |  |
| 4,431.0             | 25.70           | 68.40       | 4,126.1             | 543.1      | 1,378.6    | 1,481.7               | 1.26                  | 0.53                 | 2.66                |  |
| 4,526.0             | 27.20           | 71.60       | 4,211.2             | 557.5      | 1,418.3    | 1,524.0               | 2.18                  | 1.58                 | 3.37                |  |
| 4,620.0             | 27.50           | 68.90       | 4,294.7             | 572.1      | 1,459.0    | 1,567.1               | 1.36                  | 0.32                 | -2.87               |  |
| 4,715.0             | 26.80           | 69.40       | 4,379.2             | 587.5      | 1,499.5    | 1,610.5               | 0.77                  | -0.74                | 0.53                |  |
| 4,809.0             | 25.90           | 66.50       | 4,463.5             | 603.2      | 1,538.1    | 1,652.2               | 1.67                  | -0.96                | -3.09               |  |
| 4,904.0             | 24.90           | 67.20       | 4,549.3             | 619.2      | 1,575.6    | 1,692.9               | 1.10                  | -1.05                | 0.74                |  |
| 4,999.0             | 25.90           | 68.60       | 4,635.1             | 634.5      | 1,613.4    | 1,733.6               | 1.23                  | 1.05                 | 1.47                |  |
| 5,094.0             | 25.10           | 67.50       | 4,720.8             | 649.8      | 1,651.3    | 1,774.5               | 0.98                  | -0.84                | -1.16               |  |
| 5,189.0             | 23.30           | 67.00       | 4,807.5             | 664.8      | 1,687.2    | 1,813.5               | 1.91                  | -1.89                | -0.53               |  |
| 5,285.0             | 21.10           | 67.20       | 4,896.4             | 679.0      | 1,720.6    | 1,849.7               | 2.29                  | -2.29                | 0.21                |  |
| 5,380.0             | 19.00           | 63.30       | 4,985.6             | 692.5      | 1,750.2    | 1,882.2               | 2.62                  | -2.21                | -4.11               |  |
| 5,475.0             | 17.20           | 63.50       | 5,075.9             | 705.8      | 1,776.6    | 1,911.6               | 1.90                  | -1.89                | 0.21                |  |
| 5,570.0             | 15.70           | 62.90       | 5,167.0             | 717.9      | 1,800.6    | 1,938.4               | 1.59                  | -1.58                | -0.63               |  |
| 5,665.0             | 14.10           | 62.80       | 5,258.8             | 729.0      | 1,822.3    | 1,962.7               | 1.68                  | -1.68                | -0.11               |  |
| 5,760.0             | 13.50           | 64.90       | 5,351.1             | 739.0      | 1,842.7    | 1,985.3               | 0.82                  | -0.63                | 2.21                |  |
| 5,855.0             | 11.70           | 62.60       | 5,443.8             | 748.2      | 1,861.3    | 2,006.0               | 1.97                  | -1.89                | -2.42               |  |
| 5,950.0             | 9.40            | 66.30       | 5,537.2             | 755.7      | 1,876.9    | 2,023.3               | 2.52                  | -2.42                | 3.89                |  |
| 6,045.0             | 9.00            | 70.90       | 5,631.0             | 761.3      | 1,891.1    | 2,038.5               | 0.88                  | -0.42                | 4.84                |  |
| 6,140.0             | 8.50            | 67.30       | 5,724.8             | 766.4      | 1,904.6    | 2,052.9               | 0.78                  | -0.53                | -3.79               |  |

| Survey   | Response  |
|--|---|
| 1. How many times have you used the service in the last 12 months? | 1. 1-3 times<br>2. 4-6 times<br>3. 7-9 times<br>4. 10-12 times<br>5. 13-15 times<br>6. 16-18 times<br>7. 19-21 times<br>8. 22-24 times<br>9. 25-27 times<br>10. 28-30 times<br>11. 31-33 times<br>12. 34-36 times<br>13. 37-39 times<br>14. 40-42 times<br>15. 43-45 times<br>16. 46-48 times<br>17. 49-51 times<br>18. 52-54 times<br>19. 55-57 times<br>20. 58-60 times<br>21. 61-63 times<br>22. 64-66 times<br>23. 67-69 times<br>24. 70-72 times<br>25. 73-75 times<br>26. 76-78 times<br>27. 79-81 times<br>28. 82-84 times<br>29. 85-87 times<br>30. 88-90 times<br>31. 91-93 times<br>32. 94-96 times<br>33. 97-99 times<br>34. 100-102 times<br>35. 103-105 times<br>36. 106-108 times<br>37. 109-111 times<br>38. 112-114 times<br>39. 115-117 times<br>40. 118-120 times<br>41. 121-123 times<br>42. 124-126 times<br>43. 127-129 times<br>44. 130-132 times<br>45. 133-135 times<br>46. 136-138 times<br>47. 139-141 times<br>48. 142-144 times<br>49. 145-147 times<br>50. 148-150 times<br>51. 151-153 times<br>52. 154-156 times<br>53. 157-159 times<br>54. 160-162 times<br>55. 163-165 times<br>56. 166-168 times<br>57. 169-171 times<br>58. 172-174 times<br>59. 175-177 times<br>60. 178-180 times<br>61. 181-183 times<br>62. 184-186 times<br>63. 187-189 times<br>64. 190-192 times<br>65. 193-195 times<br>66. 196-198 times<br>67. 199-201 times<br>68. 202-204 times<br>69. 205-207 times<br>70. 208-210 times<br>71. 211-213 times<br>72. 214-216 times<br>73. 217-219 times<br>74. 220-222 times<br>75. 223-225 times<br>76. 226-228 times<br>77. 229-231 times<br>78. 232-234 times<br>79. 235-237 times<br>80. 238-240 times<br>81. 241-243 times<br>82. 244-246 times<br>83. 247-249 times<br>84. 250-252 times<br>85. 253-255 times<br>86. 256-258 times<br>87. 259-261 times<br>88. 262-264 times<br>89. 265-267 times<br>90. 268-270 times<br>91. 271-273 times<br>92. 274-276 times<br>93. 277-279 times<br>94. 280-282 times<br>95. 283-285 times<br>96. 286-288 times<br>97. 289-291 times<br>98. 292-294 times<br>99. 295-297 times<br>100. 298-300 times<br>101. 301-303 times<br>102. 304-306 times<br>103. 307-309 times<br>104. 310-312 times<br>105. 313-315 times<br>106. 316-318 times<br>107. 319-321 times<br>108. 322-324 times<br>109. 325-327 times<br>110. 328-330 times<br>111. 331-333 times<br>112. 334-336 times<br>113. 337-339 times<br>114. 340-342 times<br>115. 343-345 times<br>116. 346-348 times<br>117. 349-351 times<br>118. 352-354 times<br>119. 355-357 times<br>120. 358-360 times<br>121. 361-363 times<br>122. 364-366 times<br>123. 367-369 times<br>124. 370-372 times<br>125. 373-375 times<br>126. 376-378 times<br>127. 379-381 times<br>128. 382-384 times<br>129. 385-387 times<br>130. 388-390 times<br>131. 391-393 times<br>132. 394-396 times<br>133. 397-399 times<br>134. 400-402 times<br>135. 403-405 times<br>136. 406-408 times<br>137. 409-411 times<br>138. 412-414 times<br>139. 415-417 times<br>140. 418-420 times<br>141. 421-423 times<br>142. 424-426 times<br>143. 427-429 times<br>144. 430-432 times<br>145. 433-435 times<br>146. 436-438 times<br>147. 439-441 times<br>148. 442-444 times<br>149. 445-447 times<br>150. 448-450 times<br>151. 451-453 times<br>152. 454-456 times<br>153. 457-459 times<br>154. 460-462 times<br>155. 463-465 times<br>156. 466-468 times<br>157. 469-471 times<br>158. 472-474 times<br>159. 475-477 times<br>160. 478-480 times<br>161. 481-483 times<br>162. 484-486 times<br>163. 487-489 times<br>164. 490-492 times<br>165. 493-495 times<br>166. 496-498 times<br>167. 499-501 times<br>168. 502-504 times<br>169. 505-507 times<br>170. 508-510 times<br>171. 511-513 times<br>172. 514-516 times<br>173. 517-519 times<br>174. 520-522 times<br>175. 523-525 times<br>176. 526-528 times<br>177. 529-531 times<br>178. 532-534 times<br>179. 535-537 times<br>180. 538-540 times<br>181. 541-543 times<br>182. 544-546 times<br>183. 547-549 times<br>184. 550-552 times<br>185. 553-555 times<br>186. 556-558 times<br>187. 559-561 times<br>188. 562-564 times<br>189. 565-567 times<br>190. 568-570 times<br>191. 571-573 times<br>192. 574-576 times<br>193. 577-579 times<br>194. 580-582 times<br>195. 583-585 times<br>196. 586-588 times<br>197. 589-591 times<br>198. 592-594 times<br>199. 595-597 times<br>200. 598-600 times<br>201. 601-603 times<br>202. 604-606 times<br>203. 607-609 times<br>204. 610-612 times<br>205. 613-615 times<br>206. 616-618 times<br>207. 619-621 times<br>208. 622-624 times<br>209. 625-627 times<br>210. 628-630 times<br>211. 631-633 times<br>212. 634-636 times<br>213. 637-639 times<br>214. 640-642 times<br>215. 643-645 times<br>216. 646-648 times<br>217. 649-651 times<br>218. 652-654 times<br>219. 655-657 times<br>220. 658-660 times<br>221. 661-663 times<br>222. 664-666 times<br>223. 667-669 times<br>224. 670-672 times<br>225. 673-675 times<br>226. 676-678 times<br>227. 679-681 times<br>228. 682-684 times<br>229. 685-687 times<br>230. 688-690 times<br>231. 691-693 times<br>232. 694-696 times<br>233. 697-699 times<br>234. 700-702 times<br>235. 703-705 times<br>236. 706-708 times<br>237. 709-711 times<br>238. 712-714 times<br>239. 715-717 times<br>240. 718-720 times<br>241. 721-723 times<br>242. 724-726 times<br>243. 727-729 times<br>244. 730-732 times<br>245. 733-735 times<br>246. 736-738 times<br>247. 739-741 times<br>248. 742-744 times<br>249. 745-747 times<br>250. 748-750 times<br>251. 751-753 times<br>252. 754-756 times<br>253. 757-759 times<br>254. 760-762 times<br>255. 763-765 times<br>256. 766-768 times<br>257. 769-771 times<br>258. 772-774 times<br>259. 775-777 times<br>260. 778-780 times<br>261. 781-783 times<br>262. 784-786 times<br>263. 787-789 times<br>264. 790-792 times<br>265. 793-795 times<br>266. 796-798 times<br>267. 799-801 times<br>268. 802-804 times<br>269. 805-807 times<br>270. 808-810 times<br>271. 811-813 times<br>272. 814-816 times<br>273. 817-819 times<br>274. 820-822 times<br>275. 823-825 times<br>276. 826-828 times<br>277. 829-831 times<br>278. 832-834 times<br>279. 835-837 times<br>280. 838-840 times<br>281. 841-84 |

Checked By: \_\_\_\_\_ Approved By: \_\_\_\_\_ Date: \_\_\_\_\_