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MS Directional Survey Data Certification

**NM OIL CONSERVATION  
ARTESIA DISTRICT**

**APR 26 2018**

**RECEIVED**

MS Directional Job Number: DDMO-171209  
Survey Type: MWD  
Operating Company: RKI Exploration & Production LLC  
Well Name & Number: Tucker Draw 9-4 Federal COM 2H  
Location: Eddy County, NM  
API Number: 30-015-44478  
Tie In Depth: 809' MD  
Surveyed Depths: 982' – 18,536' MD  
Projected TD Survey: 18,588' MD  
Dates Performed: 12/17/2017 – 01/28/2018

*30-015-44478*

I certify that the data is true, correct and complete and within the limitations of the tool set forth by MS Directional; that I am authorized and qualified to make this report and that I have reviewed this report and find it conforms to the principles and procedures as set forth by MS Directional.

Digitally signed by:

*Kyle Etheridge*

MWD Surveyor Name: Kyle Etheridge

Date: 03-05-2018

Email: ketheridge@msdir.com

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V09.04.02

|             |                                  |
|-------------|----------------------------------|
| Company:    | RKI Exploration & Production LLC |
| Well Name:  | Tucker Draw 9-4 Federal COM 2H   |
| Location:   | Eddy County, NM                  |
| Rig:        | H&P #556                         |
| Job Number: | DDMO-171209                      |
| API #:      | 30-015-44478                     |

Magnetic Declination: 6.88 REFERENCED TO GRID NORTH

Vertical Section Azimuth: 355.80 Proposed Direction: 355.80

Survey Calculation Method: Minimum Curvature

| PTB: | MD     | INC  | AZM   | TVD      | N/S     | E/W     | VS      |
|------|--------|------|-------|----------|---------|---------|---------|
|      | 18,588 | 86.1 | 358.1 | 10921.27 | 7973.94 | -561.76 | 7993.66 |

| #      | Depth<br>Feet | Inc<br>Degrees | Azm<br>Degrees | TVD<br>Feet | N/S<br>Feet | E/W<br>Feet | Surface<br>Vert Sec | Closure<br>Distance | Azm    | DLS/<br>100 | BUR/<br>100' |
|--------|---------------|----------------|----------------|-------------|-------------|-------------|---------------------|---------------------|--------|-------------|--------------|
| TIE IN | 809           | 0.90           | 242.50         | 808.96      | -2.82       | -3.61       |                     | 4.58                | 232.00 |             |              |
| 1      | 982           | 0.10           | 15.40          | 981.95      | -3.30       | -4.78       | -2.94               | 5.81                | 235.34 | 0.56        | -0.46        |
| 2      | 1,077         | 0.20           | 335.40         | 1076.95     | -3.07       | -4.82       | -2.71               | 5.72                | 237.51 | 0.15        | 0.11         |
| 3      | 1,172         | 0.60           | 129.70         | 1171.95     | -3.24       | -4.51       | -2.90               | 5.55                | 234.31 | 0.83        | 0.42         |
| 4      | 1,267         | 1.60           | 131.70         | 1266.93     | -4.44       | -3.14       | -4.20               | 5.43                | 215.24 | 1.05        | 1.05         |
| 5      | 1,362         | 1.70           | 129.20         | 1361.89     | -6.21       | -1.05       | -6.12               | 6.30                | 189.62 | 0.13        | 0.11         |
| 6      | 1,456         | 0.40           | 223.50         | 1455.88     | -7.33       | -0.20       | -7.30               | 7.33                | 181.55 | 1.89        | -1.38        |
| 7      | 1,551         | 2.40           | 297.90         | 1550.85     | -6.64       | -2.18       | -6.46               | 6.99                | 198.21 | 2.45        | 2.11         |
| 8      | 1,646         | 4.20           | 288.60         | 1645.69     | -4.60       | -7.24       | -4.06               | 8.58                | 237.57 | 1.97        | 1.89         |
| 9      | 1,741         | 5.00           | 281.60         | 1740.38     | -2.66       | -14.59      | -1.58               | 14.83               | 259.68 | 1.03        | 0.84         |
| 10     | 1,835         | 5.10           | 280.00         | 1834.02     | -1.11       | -22.72      | 0.56                | 22.75               | 267.21 | 0.18        | 0.11         |
| 11     | 1,930         | 5.80           | 272.30         | 1928.59     | -0.18       | -31.68      | 2.14                | 31.68               | 269.67 | 1.06        | 0.74         |
| 12     | 2,025         | 8.00           | 270.60         | 2022.90     | 0.08        | -43.08      | 3.23                | 43.08               | 270.11 | 2.33        | 2.32         |
| 13     | 2,119         | 8.80           | 272.00         | 2115.89     | 0.40        | -56.81      | 4.56                | 56.81               | 270.40 | 0.88        | 0.85         |
| 14     | 2,214         | 7.00           | 269.80         | 2209.98     | 0.63        | -69.86      | 5.75                | 69.87               | 270.52 | 1.92        | -1.89        |
| 15     | 2,309         | 6.40           | 267.70         | 2304.33     | 0.40        | -80.94      | 6.33                | 80.94               | 270.28 | 0.68        | -0.63        |
| 16     | 2,403         | 5.90           | 267.30         | 2397.79     | -0.04       | -91.00      | 6.63                | 91.00               | 269.98 | 0.53        | -0.53        |
| 17     | 2,498         | 5.20           | 268.50         | 2492.34     | -0.38       | -100.18     | 6.96                | 100.18              | 269.78 | 0.75        | -0.74        |
| 18     | 2,593         | 5.80           | 270.40         | 2586.91     | -0.46       | -109.29     | 7.55                | 109.29              | 269.76 | 0.66        | 0.63         |
| 19     | 2,688         | 8.90           | 271.30         | 2681.11     | -0.26       | -121.44     | 8.63                | 121.44              | 269.88 | 3.27        | 3.26         |
| 20     | 2,782         | 11.80          | 272.00         | 2773.58     | 0.24        | -138.32     | 10.37               | 138.32              | 270.10 | 3.09        | 3.09         |
| 21     | 2,877         | 9.50           | 270.60         | 2866.93     | 0.66        | -155.86     | 12.08               | 155.87              | 270.24 | 2.44        | -2.42        |
| 22     | 2,971         | 7.70           | 268.60         | 2959.87     | 0.59        | -169.92     | 13.03               | 169.92              | 270.20 | 1.94        | -1.91        |
| 23     | 3,066         | 6.20           | 268.70         | 3054.17     | 0.32        | -181.41     | 13.60               | 181.41              | 270.10 | 1.58        | -1.58        |
| 24     | 3,161         | 5.70           | 269.10         | 3148.66     | 0.13        | -191.26     | 14.13               | 191.26              | 270.04 | 0.53        | -0.53        |
| 25     | 3,255         | 5.80           | 266.00         | 3242.19     | -0.28       | -200.66     | 14.42               | 200.66              | 269.92 | 0.35        | 0.11         |
| 26     | 3,350         | 5.70           | 267.80         | 3336.71     | -0.79       | -210.16     | 14.60               | 210.17              | 269.78 | 0.22        | -0.11        |
| 27     | 3,445         | 8.60           | 273.10         | 3430.96     | -0.59       | -221.97     | 15.67               | 221.97              | 269.85 | 3.13        | 3.05         |
| 28     | 3,540         | 9.70           | 273.60         | 3524.75     | 0.30        | -237.05     | 17.66               | 237.05              | 270.07 | 1.16        | 1.16         |
| 29     | 3,560         | 9.40           | 272.70         | 3544.47     | 0.48        | -240.37     | 18.08               | 240.37              | 270.11 | 1.68        | -1.50        |
| 30     | 3,624         | 8.50           | 273.60         | 3607.69     | 1.02        | -250.31     | 19.35               | 250.31              | 270.23 | 1.42        | -1.41        |
| 31     | 3,718         | 8.30           | 274.20         | 3700.69     | 1.96        | -264.01     | 21.29               | 264.02              | 270.42 | 0.23        | -0.21        |
| 32     | 3,813         | 8.20           | 273.60         | 3794.70     | 2.88        | -277.61     | 23.21               | 277.62              | 270.59 | 0.14        | -0.11        |
| 33     | 3,908         | 8.20           | 275.20         | 3888.73     | 3.92        | -291.12     | 25.23               | 291.14              | 270.77 | 0.24        | 0.00         |

|                            |               |                                  |                |                   |             |                     |                       |                         |         |             |                          |  |         |  |
|----------------------------|---------------|----------------------------------|----------------|-------------------|-------------|---------------------|-----------------------|-------------------------|---------|-------------|--------------------------|--|---------|--|
| Company:                   |               | RKI Exploration & Production LLC |                |                   |             |                     |                       |                         |         |             |                          |  |         |  |
| Well Name:                 |               | Tucker Draw 9-4 Federal COM 2H   |                |                   |             |                     |                       |                         |         |             |                          |  |         |  |
| Location:                  |               | Eddy County, NM                  |                |                   |             |                     |                       |                         |         |             |                          |  |         |  |
| Rig:                       |               | H&P #556                         |                |                   |             |                     | Magnetic Declination: |                         | 6.88    |             | REFERENCED TO GRID NORTH |  |         |  |
| Job Number:                |               | DDMO-171209                      |                |                   |             |                     |                       |                         |         |             |                          |  |         |  |
| API #:                     |               | 30-015-44478                     |                |                   |             |                     |                       |                         |         |             |                          |  |         |  |
| Vertical Section Azimuth:  |               |                                  |                | 355.80            |             | Proposed Direction: |                       | 355.80                  |         |             |                          |  |         |  |
| Survey Calculation Method: |               |                                  |                | Minimum Curvature |             |                     |                       |                         |         |             |                          |  |         |  |
| PTB:                       | MD            |                                  | INC            |                   | AZM         |                     | TVD                   |                         | N/S     |             | E/W                      |  | VS      |  |
|                            | 18,588        |                                  | 86.1           |                   | 358.1       |                     | 10921.27              |                         | 7973.94 |             | -561.76                  |  | 7993.66 |  |
| #                          | Depth<br>Feet | Inc<br>Degrees                   | Azm<br>Degrees | TVD<br>Feet       | N/S<br>Feet | E/W<br>Feet         | Surface<br>Vert Sec   | Closure<br>Distance Azm |         | DLS/<br>100 | BUR/<br>100'             |  |         |  |
| 34                         | 4,003         | 7.10                             | 270.00         | 3982.89           | 4.54        | -303.74             | 26.77                 | 303.77                  | 270.86  | 1.37        | -1.16                    |  |         |  |
| 35                         | 4,098         | 6.80                             | 265.70         | 4077.19           | 4.11        | -315.22             | 27.19                 | 315.24                  | 270.75  | 0.63        | -0.32                    |  |         |  |
| 36                         | 4,192         | 6.70                             | 264.50         | 4170.54           | 3.17        | -326.22             | 27.06                 | 326.24                  | 270.56  | 0.18        | -0.11                    |  |         |  |
| 37                         | 4,287         | 6.80                             | 265.60         | 4264.88           | 2.21        | -337.35             | 26.91                 | 337.35                  | 270.38  | 0.17        | 0.11                     |  |         |  |
| 38                         | 4,382         | 6.90                             | 266.20         | 4359.20           | 1.40        | -348.65             | 26.93                 | 348.65                  | 270.23  | 0.13        | 0.11                     |  |         |  |
| 39                         | 4,477         | 6.70                             | 265.30         | 4453.53           | 0.57        | -359.87             | 26.92                 | 359.87                  | 270.09  | 0.24        | -0.21                    |  |         |  |
| 40                         | 4,571         | 6.60                             | 264.80         | 4546.90           | -0.37       | -370.71             | 26.78                 | 370.71                  | 269.94  | 0.12        | -0.11                    |  |         |  |
| 41                         | 4,666         | 6.70                             | 263.60         | 4641.26           | -1.48       | -381.65             | 26.47                 | 381.66                  | 269.78  | 0.18        | 0.11                     |  |         |  |
| 42                         | 4,760         | 6.60                             | 263.70         | 4734.63           | -2.69       | -392.47             | 26.06                 | 392.48                  | 269.61  | 0.11        | -0.11                    |  |         |  |
| 43                         | 4,855         | 6.70                             | 264.80         | 4828.99           | -3.79       | -403.42             | 25.77                 | 403.44                  | 269.46  | 0.17        | 0.11                     |  |         |  |
| 44                         | 4,950         | 6.60                             | 265.10         | 4923.35           | -4.76       | -414.38             | 25.60                 | 414.41                  | 269.34  | 0.11        | -0.11                    |  |         |  |
| 45                         | 5,045         | 7.30                             | 267.50         | 5017.65           | -5.49       | -425.85             | 25.71                 | 425.88                  | 269.26  | 0.80        | 0.74                     |  |         |  |
| 46                         | 5,139         | 7.60                             | 268.40         | 5110.86           | -5.92       | -438.03             | 26.17                 | 438.07                  | 269.23  | 0.34        | 0.32                     |  |         |  |
| 47                         | 5,234         | 7.30                             | 266.90         | 5205.06           | -6.42       | -450.33             | 26.57                 | 450.38                  | 269.18  | 0.38        | -0.32                    |  |         |  |
| 48                         | 5,329         | 6.90                             | 265.50         | 5299.33           | -7.20       | -462.05             | 26.66                 | 462.11                  | 269.11  | 0.46        | -0.42                    |  |         |  |
| 49                         | 5,424         | 6.60                             | 263.60         | 5393.67           | -8.25       | -473.16             | 26.42                 | 473.24                  | 269.00  | 0.39        | -0.32                    |  |         |  |
| 50                         | 5,518         | 5.50                             | 264.40         | 5487.14           | -9.30       | -483.02             | 26.10                 | 483.11                  | 268.90  | 1.17        | -1.17                    |  |         |  |
| 51                         | 5,613         | 5.30                             | 260.90         | 5581.72           | -10.43      | -491.88             | 25.62                 | 491.99                  | 268.78  | 0.41        | -0.21                    |  |         |  |
| 52                         | 5,708         | 5.60                             | 261.20         | 5676.29           | -11.84      | -500.79             | 24.87                 | 500.93                  | 268.65  | 0.32        | 0.32                     |  |         |  |
| 53                         | 5,802         | 4.40                             | 265.90         | 5769.93           | -12.80      | -508.92             | 24.51                 | 509.08                  | 268.56  | 1.35        | -1.28                    |  |         |  |
| 54                         | 5,897         | 4.20                             | 268.10         | 5864.67           | -13.17      | -516.03             | 24.66                 | 516.20                  | 268.54  | 0.27        | -0.21                    |  |         |  |
| 55                         | 5,992         | 3.90                             | 263.60         | 5959.43           | -13.65      | -522.72             | 24.67                 | 522.90                  | 268.50  | 0.46        | -0.32                    |  |         |  |
| 56                         | 6,086         | 3.10                             | 269.70         | 6053.25           | -14.02      | -528.44             | 24.72                 | 528.63                  | 268.48  | 0.94        | -0.85                    |  |         |  |
| 57                         | 6,181         | 2.70                             | 269.70         | 6148.13           | -14.04      | -533.25             | 25.05                 | 533.43                  | 268.49  | 0.42        | -0.42                    |  |         |  |
| 58                         | 6,276         | 1.30                             | 317.10         | 6243.08           | -13.27      | -536.22             | 26.04                 | 536.38                  | 268.58  | 2.16        | -1.47                    |  |         |  |
| 59                         | 6,371         | 1.20                             | 58.30          | 6338.06           | -11.95      | -536.10             | 27.34                 | 536.24                  | 268.72  | 2.03        | -0.11                    |  |         |  |
| 60                         | 6,465         | 1.20                             | 70.00          | 6432.04           | -11.10      | -534.34             | 28.06                 | 534.46                  | 268.81  | 0.26        | 0.00                     |  |         |  |
| 61                         | 6,560         | 1.20                             | 69.40          | 6527.02           | -10.41      | -532.48             | 28.62                 | 532.58                  | 268.88  | 0.01        | 0.00                     |  |         |  |
| 62                         | 6,654         | 1.10                             | 81.50          | 6621.00           | -9.93       | -530.66             | 28.96                 | 530.76                  | 268.93  | 0.28        | -0.11                    |  |         |  |
| 63                         | 6,750         | 1.20                             | 92.60          | 6716.98           | -9.84       | -528.75             | 28.91                 | 528.84                  | 268.93  | 0.25        | 0.10                     |  |         |  |
| 64                         | 6,844         | 0.60                             | 6.60           | 6810.97           | -9.39       | -527.71             | 29.28                 | 527.79                  | 268.98  | 1.39        | -0.64                    |  |         |  |
| 65                         | 6,939         | 0.50                             | 350.30         | 6905.97           | -8.49       | -527.72             | 30.18                 | 527.79                  | 269.08  | 0.19        | -0.11                    |  |         |  |
| 66                         | 7,033         | 0.30                             | 356.00         | 6999.97           | -7.84       | -527.81             | 30.83                 | 527.86                  | 269.15  | 0.22        | -0.21                    |  |         |  |
| 67                         | 7,128         | 0.20                             | 20.90          | 7094.97           | -7.44       | -527.76             | 31.23                 | 527.82                  | 269.19  | 0.15        | -0.11                    |  |         |  |

|                            |            |                                  |             |                   |          |                       |                  |                      |         |                          |           |  |         |  |
|----------------------------|------------|----------------------------------|-------------|-------------------|----------|-----------------------|------------------|----------------------|---------|--------------------------|-----------|--|---------|--|
| Company:                   |            | RKI Exploration & Production LLC |             |                   |          |                       |                  |                      |         |                          |           |  |         |  |
| Well Name:                 |            | Tucker Draw 9-4 Federal COM 2H   |             |                   |          |                       |                  |                      |         |                          |           |  |         |  |
| Location:                  |            | Eddy County, NM                  |             |                   |          |                       |                  |                      |         |                          |           |  |         |  |
| Rig:                       |            | H&P #556                         |             |                   |          | Magnetic Declination: |                  | 6.88                 |         | REFERENCED TO GRID NORTH |           |  |         |  |
| Job Number:                |            | DDMO-171209                      |             |                   |          |                       |                  |                      |         |                          |           |  |         |  |
| API #:                     |            | 30-015-44478                     |             |                   |          |                       |                  |                      |         |                          |           |  |         |  |
| Vertical Section Azimuth:  |            |                                  |             | 355.80            |          | Proposed Direction:   |                  | 355.80               |         |                          |           |  |         |  |
| Survey Calculation Method: |            |                                  |             | Minimum Curvature |          |                       |                  |                      |         |                          |           |  |         |  |
| PTB:                       | MD         |                                  | INC         |                   | AZM      |                       | TVD              |                      | N/S     |                          | E/W       |  | VS      |  |
|                            | 18,588     |                                  | 86.1        |                   | 358.1    |                       | 10921.27         |                      | 7973.94 |                          | -561.76   |  | 7993.66 |  |
| #                          | Depth Feet | Inc Degrees                      | Azm Degrees | TVD Feet          | N/S Feet | E/W Feet              | Surface Vert Sec | Closure Distance Azm |         | DLS/ 100                 | BUR/ 100' |  |         |  |
| 68                         | 7,223      | 0.10                             | 242.80      | 7189.97           | -7.32    | -527.78               | 31.35            | 527.83               | 269.21  | 0.30                     | -0.11     |  |         |  |
| 69                         | 7,317      | 0.10                             | 183.50      | 7283.97           | -7.44    | -527.86               | 31.24            | 527.91               | 269.19  | 0.11                     | 0.00      |  |         |  |
| 70                         | 7,412      | 0.20                             | 227.80      | 7378.97           | -7.64    | -527.98               | 31.05            | 528.04               | 269.17  | 0.15                     | 0.11      |  |         |  |
| 71                         | 7,507      | 0.30                             | 217.90      | 7473.97           | -7.94    | -528.26               | 30.77            | 528.32               | 269.14  | 0.11                     | 0.11      |  |         |  |
| 72                         | 7,601      | 0.40                             | 235.00      | 7567.96           | -8.33    | -528.68               | 30.42            | 528.75               | 269.10  | 0.15                     | 0.11      |  |         |  |
| 73                         | 7,696      | 0.50                             | 209.60      | 7662.96           | -8.88    | -529.16               | 29.90            | 529.23               | 269.04  | 0.23                     | 0.11      |  |         |  |
| 74                         | 7,791      | 0.10                             | 172.90      | 7757.96           | -9.32    | -529.35               | 29.48            | 529.43               | 268.99  | 0.45                     | -0.42     |  |         |  |
| 75                         | 7,885      | 0.30                             | 163.00      | 7851.96           | -9.64    | -529.27               | 29.15            | 529.36               | 268.96  | 0.22                     | 0.21      |  |         |  |
| 76                         | 7,979      | 0.30                             | 145.50      | 7945.96           | -10.07   | -529.06               | 28.70            | 529.15               | 268.91  | 0.10                     | 0.00      |  |         |  |
| 77                         | 8,074      | 0.40                             | 131.10      | 8040.96           | -10.50   | -528.67               | 28.25            | 528.77               | 268.86  | 0.14                     | 0.11      |  |         |  |
| 78                         | 8,169      | 0.20                             | 124.20      | 8135.95           | -10.81   | -528.28               | 27.91            | 528.39               | 268.83  | 0.21                     | -0.21     |  |         |  |
| 79                         | 8,263      | 0.40                             | 253.30      | 8229.95           | -10.99   | -528.46               | 27.74            | 528.57               | 268.81  | 0.58                     | 0.21      |  |         |  |
| 80                         | 8,358      | 1.00                             | 275.30      | 8324.95           | -11.01   | -529.60               | 27.80            | 529.72               | 268.81  | 0.68                     | 0.63      |  |         |  |
| 81                         | 8,453      | 1.00                             | 265.50      | 8419.93           | -11.00   | -531.25               | 27.94            | 531.37               | 268.81  | 0.18                     | 0.00      |  |         |  |
| 82                         | 8,547      | 1.20                             | 251.10      | 8513.91           | -11.38   | -533.00               | 27.68            | 533.12               | 268.78  | 0.36                     | 0.21      |  |         |  |
| 83                         | 8,642      | 0.30                             | 257.10      | 8608.91           | -11.76   | -534.19               | 27.39            | 534.32               | 268.74  | 0.95                     | -0.95     |  |         |  |
| 84                         | 8,737      | 0.50                             | 282.40      | 8703.90           | -11.73   | -534.83               | 27.47            | 534.96               | 268.74  | 0.28                     | 0.21      |  |         |  |
| 85                         | 8,832      | 0.80                             | 247.70      | 8798.90           | -11.89   | -535.85               | 27.39            | 535.98               | 268.73  | 0.51                     | 0.32      |  |         |  |
| 86                         | 8,926      | 1.10                             | 240.30      | 8892.88           | -12.59   | -537.24               | 26.79            | 537.39               | 268.66  | 0.34                     | 0.32      |  |         |  |
| 87                         | 9,021      | 0.90                             | 303.60      | 8987.87           | -12.63   | -538.66               | 26.86            | 538.80               | 268.66  | 1.12                     | -0.21     |  |         |  |
| 88                         | 9,116      | 0.40                             | 319.30      | 9082.87           | -11.96   | -539.49               | 27.58            | 539.63               | 268.73  | 0.55                     | -0.53     |  |         |  |
| 89                         | 9,211      | 0.50                             | 157.30      | 9177.87           | -12.09   | -539.55               | 27.45            | 539.69               | 268.72  | 0.94                     | 0.11      |  |         |  |
| 90                         | 9,306      | 1.00                             | 132.20      | 9272.86           | -13.03   | -538.78               | 26.46            | 538.93               | 268.61  | 0.62                     | 0.53      |  |         |  |
| 91                         | 9,400      | 0.30                             | 233.80      | 9366.85           | -13.73   | -538.37               | 25.74            | 538.54               | 268.54  | 1.17                     | -0.74     |  |         |  |
| 92                         | 9,495      | 1.90                             | 309.40      | 9461.83           | -12.88   | -539.78               | 26.69            | 539.94               | 268.63  | 1.95                     | 1.68      |  |         |  |
| 93                         | 9,590      | 1.70                             | 290.70      | 9556.79           | -11.38   | -542.32               | 28.37            | 542.44               | 268.80  | 0.65                     | -0.21     |  |         |  |
| 94                         | 9,684      | 0.80                             | 245.10      | 9650.77           | -11.16   | -544.22               | 28.73            | 544.33               | 268.83  | 1.36                     | -0.96     |  |         |  |
| 95                         | 9,779      | 0.90                             | 236.10      | 9745.76           | -11.86   | -545.44               | 28.12            | 545.57               | 268.75  | 0.18                     | 0.11      |  |         |  |
| 96                         | 9,874      | 1.30                             | 348.00      | 9840.75           | -11.22   | -546.28               | 28.82            | 546.40               | 268.82  | 1.93                     | 0.42      |  |         |  |
| 97                         | 9,969      | 1.30                             | 351.10      | 9935.72           | -9.10    | -546.67               | 30.96            | 546.75               | 269.05  | 0.07                     | 0.00      |  |         |  |
| 98                         | 10,063     | 1.10                             | 341.00      | 10029.70          | -7.19    | -547.13               | 32.90            | 547.18               | 269.25  | 0.31                     | -0.21     |  |         |  |
| 99                         | 10,158     | 1.00                             | 321.90      | 10124.68          | -5.68    | -547.94               | 34.47            | 547.97               | 269.41  | 0.38                     | -0.11     |  |         |  |
| 100                        | 10,240     | 1.00                             | 309.90      | 10206.67          | -4.66    | -548.93               | 35.56            | 548.95               | 269.51  | 0.25                     | 0.00      |  |         |  |

V09.04.02

| Company:                   |            | RKI Exploration & Production LLC |             |                   |          |                     |                       |          |         |          |                          |  |         |  |
|----------------------------|------------|----------------------------------|-------------|-------------------|----------|---------------------|-----------------------|----------|---------|----------|--------------------------|--|---------|--|
| Well Name:                 |            | Tucker Draw 9-4 Federal COM 2H   |             |                   |          |                     |                       |          |         |          |                          |  |         |  |
| Location:                  |            | Eddy County, NM                  |             |                   |          |                     |                       |          |         |          |                          |  |         |  |
| Rig:                       |            | H&P #556                         |             |                   |          |                     | Magnetic Declination: |          | 6.88    |          | REFERENCED TO GRID NORTH |  |         |  |
| Job Number:                |            | DDMO-171209                      |             |                   |          |                     |                       |          |         |          |                          |  |         |  |
| API #:                     |            | 30-015-44478                     |             |                   |          |                     |                       |          |         |          |                          |  |         |  |
| Vertical Section Azimuth:  |            |                                  |             | 355.80            |          | Proposed Direction: |                       | 355.80   |         |          |                          |  |         |  |
| Survey Calculation Method: |            |                                  |             | Minimum Curvature |          |                     |                       |          |         |          |                          |  |         |  |
| PTB:                       | MD         |                                  | INC         |                   | AZM      |                     | TVD                   |          | N/S     |          | E/W                      |  | VS      |  |
|                            | 18,588     |                                  | 86.1        |                   | 358.1    |                     | 10921.27              |          | 7973.94 |          | -561.76                  |  | 7993.66 |  |
| #                          | Depth Feet | Inc Degrees                      | Azm Degrees | TVD Feet          | N/S Feet | E/W Feet            | Surface Vert Sec      | Closure  |         | DLS/ 100 | BUR/ 100'                |  |         |  |
|                            |            |                                  |             |                   |          |                     |                       | Distance | Azm     |          |                          |  |         |  |
| 101                        | 10,349     | 6.70                             | 7.50        | 10315.40          | 2.26     | -548.83             | 42.45                 | 548.84   | 270.24  | 5.71     | 5.23                     |  |         |  |
| 102                        | 10,444     | 19.70                            | 3.10        | 10407.69          | 23.84    | -547.24             | 63.85                 | 547.75   | 272.49  | 13.72    | 13.68                    |  |         |  |
| 103                        | 10,539     | 30.90                            | 9.20        | 10493.46          | 64.04    | -542.45             | 103.60                | 546.22   | 276.73  | 12.09    | 11.79                    |  |         |  |
| 104                        | 10,634     | 37.60                            | 4.60        | 10571.95          | 117.08   | -536.22             | 156.04                | 548.85   | 282.32  | 7.56     | 7.05                     |  |         |  |
| 105                        | 10,728     | 45.40                            | 358.20      | 10642.33          | 179.24   | -534.97             | 217.94                | 564.20   | 288.52  | 9.44     | 8.30                     |  |         |  |
| 106                        | 10,823     | 53.70                            | 357.30      | 10703.91          | 251.41   | -537.84             | 290.12                | 593.70   | 295.05  | 8.77     | 8.74                     |  |         |  |
| 107                        | 10,918     | 60.70                            | 358.80      | 10755.35          | 331.16   | -540.51             | 369.86                | 633.90   | 301.50  | 7.49     | 7.37                     |  |         |  |
| 108                        | 11,012     | 69.30                            | 0.30        | 10795.04          | 416.27   | -541.14             | 454.79                | 682.73   | 307.57  | 9.26     | 9.15                     |  |         |  |
| 109                        | 11,107     | 75.10                            | 1.90        | 10824.07          | 506.66   | -539.39             | 544.81                | 740.03   | 313.21  | 6.31     | 6.11                     |  |         |  |
| 110                        | 11,202     | 83.40                            | 1.30        | 10841.77          | 599.88   | -536.79             | 637.58                | 804.98   | 318.18  | 8.76     | 8.74                     |  |         |  |
| 111                        | 11,215     | 85.00                            | 1.00        | 10843.08          | 612.81   | -536.53             | 650.46                | 814.49   | 318.80  | 12.52    | 12.31                    |  |         |  |
| 112                        | 11,330     | 86.20                            | 0.38        | 10851.91          | 727.46   | -535.15             | 764.70                | 903.10   | 323.66  | 1.17     | 1.04                     |  |         |  |
| 113                        | 11,424     | 86.50                            | 359.79      | 10857.89          | 821.27   | -535.01             | 858.25                | 980.16   | 326.92  | 0.70     | 0.32                     |  |         |  |
| 114                        | 11,518     | 86.40                            | 359.10      | 10863.71          | 915.08   | -535.92             | 951.88                | 1060.47  | 329.64  | 0.74     | -0.11                    |  |         |  |
| 115                        | 11,612     | 87.20                            | 357.90      | 10868.96          | 1008.90  | -538.38             | 1045.62               | 1143.56  | 331.91  | 1.53     | 0.85                     |  |         |  |
| 116                        | 11,707     | 90.50                            | 357.20      | 10870.87          | 1103.78  | -542.44             | 1140.55               | 1229.87  | 333.83  | 3.55     | 3.47                     |  |         |  |
| 117                        | 11,801     | 90.30                            | 356.30      | 10870.21          | 1197.63  | -547.77             | 1234.53               | 1316.95  | 335.42  | 0.98     | -0.21                    |  |         |  |
| 118                        | 11,894     | 87.90                            | 355.30      | 10871.67          | 1290.36  | -554.58             | 1327.51               | 1404.49  | 336.74  | 2.80     | -2.58                    |  |         |  |
| 119                        | 11,988     | 90.30                            | 355.00      | 10873.15          | 1384.00  | -562.52             | 1421.48               | 1493.95  | 337.88  | 2.57     | 2.55                     |  |         |  |
| 120                        | 12,083     | 91.60                            | 357.90      | 10871.57          | 1478.80  | -568.40             | 1516.45               | 1584.27  | 338.97  | 3.34     | 1.37                     |  |         |  |
| 121                        | 12,177     | 92.00                            | 357.50      | 10868.62          | 1572.67  | -572.17             | 1610.35               | 1673.52  | 340.01  | 0.60     | 0.43                     |  |         |  |
| 122                        | 12,272     | 91.10                            | 359.40      | 10866.05          | 1667.60  | -574.74             | 1705.21               | 1763.86  | 340.98  | 2.21     | -0.95                    |  |         |  |
| 123                        | 12,366     | 90.90                            | 359.60      | 10864.41          | 1761.58  | -575.56             | 1799.00               | 1853.22  | 341.91  | 0.30     | -0.21                    |  |         |  |
| 124                        | 12,460     | 90.90                            | 2.30        | 10862.93          | 1855.55  | -574.00             | 1892.60               | 1942.30  | 342.81  | 2.87     | 0.00                     |  |         |  |
| 125                        | 12,555     | 88.50                            | 2.40        | 10863.43          | 1950.46  | -570.11             | 1986.97               | 2032.07  | 343.71  | 2.53     | -2.53                    |  |         |  |
| 126                        | 12,649     | 89.40                            | 3.00        | 10865.15          | 2044.34  | -565.68             | 2080.28               | 2121.16  | 344.53  | 1.15     | 0.96                     |  |         |  |
| 127                        | 12,744     | 85.50                            | 1.50        | 10869.38          | 2139.15  | -561.95             | 2174.56               | 2211.73  | 345.28  | 4.40     | -4.11                    |  |         |  |
| 128                        | 12,838     | 93.10                            | 1.80        | 10870.52          | 2233.03  | -559.25             | 2268.00               | 2302.00  | 345.94  | 8.09     | 8.09                     |  |         |  |
| 129                        | 12,933     | 93.20                            | 3.80        | 10865.30          | 2327.77  | -554.62             | 2362.14               | 2392.93  | 346.60  | 2.10     | 0.11                     |  |         |  |
| 130                        | 13,026     | 94.90                            | 4.00        | 10858.74          | 2420.32  | -548.31             | 2453.98               | 2481.65  | 347.24  | 1.84     | 1.83                     |  |         |  |
| 131                        | 13,121     | 88.30                            | 1.40        | 10856.08          | 2515.12  | -543.84             | 2548.19               | 2573.24  | 347.80  | 7.47     | -6.95                    |  |         |  |
| 132                        | 13,215     | 87.90                            | 1.00        | 10859.20          | 2609.05  | -541.87             | 2641.73               | 2664.72  | 348.27  | 0.60     | -0.43                    |  |         |  |
| 133                        | 13,310     | 88.90                            | 0.40        | 10861.85          | 2704.00  | -540.71             | 2736.34               | 2757.53  | 348.69  | 1.23     | 1.05                     |  |         |  |

|             |                                  |
|-------------|----------------------------------|
| Company:    | RKI Exploration & Production LLC |
| Well Name:  | Tucker Draw 9-4 Federal COM 2H   |
| Location:   | Eddy County, NM                  |
| Rig:        | H&P #556                         |
| Job Number: | DDMO-171209                      |
| API #:      | 30-015-44478                     |

Magnetic Declination: 6.88 REFERENCED TO GRID NORTH

Vertical Section Azimuth: 355.80 Proposed Direction: 355.80

Survey Calculation Method: Minimum Curvature

| PTB: | MD     | INC  | AZM   | TVD      | N/S     | E/W     | VS      |
|------|--------|------|-------|----------|---------|---------|---------|
|      | 18,588 | 86.1 | 358.1 | 10921.27 | 7973.94 | -561.76 | 7993.66 |

| #   | Depth Feet | Inc Degrees | Azm Degrees | TVD Feet | N/S Feet | E/W Feet | Surface Vert Sec | Closure Distance | Azm    | DLS/ 100 | BUR/ 100' |
|-----|------------|-------------|-------------|----------|----------|----------|------------------|------------------|--------|----------|-----------|
| 134 | 13,404     | 87.90       | 359.30      | 10864.48 | 2797.96  | -540.96  | 2830.07          | 2849.78          | 349.06 | 1.58     | -1.06     |
| 135 | 13,499     | 85.10       | 359.60      | 10870.28 | 2892.77  | -541.87  | 2924.69          | 2943.08          | 349.39 | 2.96     | -2.95     |
| 136 | 13,593     | 85.20       | 358.00      | 10878.23 | 2986.41  | -543.83  | 3018.22          | 3035.52          | 349.68 | 1.70     | 0.11      |
| 137 | 13,688     | 87.20       | 358.30      | 10884.52 | 3081.15  | -546.89  | 3112.93          | 3129.31          | 349.94 | 2.13     | 2.11      |
| 138 | 13,775     | 88.50       | 357.80      | 10887.78 | 3168.03  | -549.85  | 3199.80          | 3215.40          | 350.15 | 1.60     | 1.49      |
| 139 | 13,870     | 87.00       | 358.00      | 10891.51 | 3262.89  | -553.33  | 3294.66          | 3309.48          | 350.38 | 1.59     | -1.58     |
| 140 | 13,963     | 87.50       | 358.10      | 10895.98 | 3355.73  | -556.49  | 3387.48          | 3401.56          | 350.58 | 0.55     | 0.54      |
| 141 | 14,058     | 88.70       | 357.50      | 10899.13 | 3450.61  | -560.13  | 3482.36          | 3495.78          | 350.78 | 1.41     | 1.26      |
| 142 | 14,152     | 89.00       | 358.10      | 10901.01 | 3544.52  | -563.74  | 3576.29          | 3589.07          | 350.96 | 0.71     | 0.32      |
| 143 | 14,246     | 91.30       | 358.70      | 10900.77 | 3638.48  | -566.37  | 3670.18          | 3682.29          | 351.15 | 2.53     | 2.45      |
| 144 | 14,340     | 91.70       | 358.60      | 10898.31 | 3732.42  | -568.58  | 3764.04          | 3775.48          | 351.34 | 0.44     | 0.43      |
| 145 | 14,434     | 91.90       | 0.40        | 10895.35 | 3826.36  | -569.40  | 3857.79          | 3868.50          | 351.54 | 1.93     | 0.21      |
| 146 | 14,529     | 90.10       | 1.40        | 10893.70 | 3921.33  | -567.91  | 3952.39          | 3962.24          | 351.76 | 2.17     | -1.89     |
| 147 | 14,622     | 90.90       | 1.70        | 10892.88 | 4014.29  | -565.39  | 4044.92          | 4053.91          | 351.98 | 0.92     | 0.86      |
| 148 | 14,716     | 90.10       | 2.10        | 10892.06 | 4108.24  | -562.27  | 4138.38          | 4146.54          | 352.21 | 0.95     | -0.85     |
| 149 | 14,810     | 89.20       | 1.50        | 10892.64 | 4202.19  | -559.32  | 4231.87          | 4239.25          | 352.42 | 1.15     | -0.96     |
| 150 | 14,903     | 88.00       | 1.40        | 10894.91 | 4295.13  | -556.97  | 4324.39          | 4331.09          | 352.61 | 1.29     | -1.29     |
| 151 | 14,997     | 88.50       | 1.50        | 10897.78 | 4389.05  | -554.59  | 4417.88          | 4423.95          | 352.80 | 0.54     | 0.53      |
| 152 | 15,091     | 89.10       | 1.90        | 10899.75 | 4482.99  | -551.80  | 4511.37          | 4516.82          | 352.98 | 0.77     | 0.64      |
| 153 | 15,186     | 89.60       | 1.20        | 10900.83 | 4577.95  | -549.23  | 4605.88          | 4610.78          | 353.16 | 0.91     | 0.53      |
| 154 | 15,280     | 89.90       | 1.00        | 10901.24 | 4671.93  | -547.43  | 4699.48          | 4703.89          | 353.32 | 0.38     | 0.32      |
| 155 | 15,374     | 90.40       | 0.50        | 10900.99 | 4765.92  | -546.20  | 4793.13          | 4797.12          | 353.46 | 0.75     | 0.53      |
| 156 | 15,468     | 89.40       | 359.30      | 10901.15 | 4859.92  | -546.36  | 4886.88          | 4890.53          | 353.59 | 1.66     | -1.06     |
| 157 | 15,562     | 89.60       | 359.20      | 10901.98 | 4953.91  | -547.59  | 4980.71          | 4984.08          | 353.69 | 0.24     | 0.21      |
| 158 | 15,655     | 89.90       | 359.20      | 10902.38 | 5046.90  | -548.89  | 5073.54          | 5076.66          | 353.79 | 0.32     | 0.32      |
| 159 | 15,749     | 90.40       | 359.00      | 10902.13 | 5140.89  | -550.37  | 5167.39          | 5170.26          | 353.89 | 0.57     | 0.53      |
| 160 | 15,843     | 90.30       | 358.90      | 10901.56 | 5234.87  | -552.09  | 5261.24          | 5263.90          | 353.98 | 0.15     | -0.11     |
| 161 | 15,938     | 89.40       | 359.30      | 10901.81 | 5329.85  | -553.58  | 5356.08          | 5358.53          | 354.07 | 1.04     | -0.95     |
| 162 | 16,032     | 89.90       | 359.20      | 10902.38 | 5423.84  | -554.81  | 5449.91          | 5452.15          | 354.16 | 0.54     | 0.53      |
| 163 | 16,126     | 89.40       | 359.30      | 10902.96 | 5517.83  | -556.04  | 5543.74          | 5545.78          | 354.25 | 0.54     | -0.53     |
| 164 | 16,220     | 90.10       | 0.20        | 10903.37 | 5611.83  | -556.45  | 5637.51          | 5639.35          | 354.34 | 1.21     | 0.74      |
| 165 | 16,314     | 88.70       | 357.50      | 10904.35 | 5705.80  | -558.34  | 5731.36          | 5733.05          | 354.41 | 3.24     | -1.49     |
| 166 | 16,408     | 89.10       | 356.30      | 10906.16 | 5799.64  | -563.42  | 5825.33          | 5826.94          | 354.45 | 1.35     | 0.43      |

|                            |            |                                  |                   |          |                     |                       |                  |                      |         |                          |           |  |         |  |
|----------------------------|------------|----------------------------------|-------------------|----------|---------------------|-----------------------|------------------|----------------------|---------|--------------------------|-----------|--|---------|--|
| Company:                   |            | RKI Exploration & Production LLC |                   |          |                     |                       |                  |                      |         |                          |           |  |         |  |
| Well Name:                 |            | Tucker Draw 9-4 Federal COM 2H   |                   |          |                     |                       |                  |                      |         |                          |           |  |         |  |
| Location:                  |            | Eddy County, NM                  |                   |          |                     |                       |                  |                      |         |                          |           |  |         |  |
| Rig:                       |            | H&P #556                         |                   |          |                     | Magnetic Declination: |                  | 6.88                 |         | REFERENCED TO GRID NORTH |           |  |         |  |
| Job Number:                |            | DDMO-171209                      |                   |          |                     |                       |                  |                      |         |                          |           |  |         |  |
| API #:                     |            | 30-015-44478                     |                   |          |                     |                       |                  |                      |         |                          |           |  |         |  |
| Vertical Section Azimuth:  |            |                                  | 355.80            |          | Proposed Direction: |                       | 355.80           |                      |         |                          |           |  |         |  |
| Survey Calculation Method: |            |                                  | Minimum Curvature |          |                     |                       |                  |                      |         |                          |           |  |         |  |
| PTB:                       | MD         |                                  | INC               |          | AZM                 |                       | TVD              |                      | N/S     |                          | E/W       |  | VS      |  |
|                            | 18,588     |                                  | 86.1              |          | 358.1               |                       | 10921.27         |                      | 7973.94 |                          | -561.76   |  | 7993.66 |  |
| #                          | Depth Feet | Inc Degrees                      | Azm Degrees       | TVD Feet | N/S Feet            | E/W Feet              | Surface Vert Sec | Closure Distance Azm |         | DLS/ 100                 | BUR/ 100' |  |         |  |
| 167                        | 16,502     | 89.40                            | 354.40            | 10907.39 | 5893.32             | -571.04               | 5919.31          | 5920.92              | 354.47  | 2.05                     | 0.32      |  |         |  |
| 168                        | 16,596     | 90.40                            | 355.60            | 10907.55 | 5986.96             | -579.24               | 6013.30          | 6014.91              | 354.47  | 1.66                     | 1.06      |  |         |  |
| 169                        | 16,691     | 90.90                            | 356.10            | 10906.47 | 6081.70             | -586.11               | 6108.29          | 6109.88              | 354.50  | 0.74                     | 0.53      |  |         |  |
| 170                        | 16,785     | 91.20                            | 357.20            | 10904.75 | 6175.52             | -591.60               | 6202.27          | 6203.79              | 354.53  | 1.21                     | 0.32      |  |         |  |
| 171                        | 16,878     | 89.50                            | 358.00            | 10904.18 | 6268.44             | -595.50               | 6295.21          | 6296.66              | 354.57  | 2.02                     | -1.83     |  |         |  |
| 172                        | 16,972     | 89.00                            | 353.40            | 10905.41 | 6362.14             | -602.54               | 6389.18          | 6390.61              | 354.59  | 4.92                     | -0.53     |  |         |  |
| 173                        | 17,067     | 92.80                            | 357.80            | 10903.92 | 6456.80             | -609.83               | 6484.13          | 6485.54              | 354.60  | 6.12                     | 4.00      |  |         |  |
| 174                        | 17,161     | 93.60                            | 359.20            | 10898.67 | 6550.62             | -612.28               | 6577.87          | 6579.18              | 354.66  | 1.71                     | 0.85      |  |         |  |
| 175                        | 17,255     | 93.10                            | 0.50              | 10893.18 | 6644.46             | -612.53               | 6671.48          | 6672.63              | 354.73  | 1.48                     | -0.53     |  |         |  |
| 176                        | 17,348     | 91.30                            | 3.20              | 10889.61 | 6737.33             | -609.53               | 6763.88          | 6764.85              | 354.83  | 3.49                     | -1.94     |  |         |  |
| 177                        | 17,443     | 89.90                            | 5.30              | 10888.62 | 6832.06             | -602.49               | 6857.83          | 6858.57              | 354.96  | 2.66                     | -1.47     |  |         |  |
| 178                        | 17,537     | 90.10                            | 4.40              | 10888.62 | 6925.72             | -594.54               | 6950.66          | 6951.19              | 355.09  | 0.98                     | 0.21      |  |         |  |
| 179                        | 17,630     | 89.90                            | 2.90              | 10888.62 | 7018.53             | -588.62               | 7042.79          | 7043.17              | 355.21  | 1.63                     | -0.22     |  |         |  |
| 180                        | 17,724     | 90.50                            | 2.90              | 10888.29 | 7112.41             | -583.87               | 7136.07          | 7136.33              | 355.31  | 0.64                     | 0.64      |  |         |  |
| 181                        | 17,819     | 92.10                            | 3.10              | 10886.13 | 7207.25             | -578.90               | 7230.29          | 7230.46              | 355.41  | 1.70                     | 1.68      |  |         |  |
| 182                        | 17,913     | 90.70                            | 2.10              | 10883.84 | 7301.12             | -574.63               | 7323.60          | 7323.70              | 355.50  | 1.83                     | -1.49     |  |         |  |
| 183                        | 18,007     | 91.20                            | 2.90              | 10882.28 | 7395.02             | -570.53               | 7416.94          | 7416.99              | 355.59  | 1.00                     | 0.53      |  |         |  |
| 184                        | 18,101     | 86.40                            | 4.00              | 10884.25 | 7488.80             | -564.88               | 7510.06          | 7510.07              | 355.69  | 5.24                     | -5.11     |  |         |  |
| 185                        | 18,195     | 86.60                            | 3.70              | 10889.98 | 7582.41             | -558.58               | 7602.96          | 7602.96              | 355.79  | 0.38                     | 0.21      |  |         |  |
| 186                        | 18,289     | 83.40                            | 0.60              | 10898.18 | 7675.96             | -555.06               | 7696.00          | 7696.00              | 355.86  | 4.73                     | -3.40     |  |         |  |
| 187                        | 18,383     | 85.60                            | 358.80            | 10907.19 | 7769.52             | -555.55               | 7789.34          | 7789.35              | 355.91  | 3.02                     | 2.34      |  |         |  |
| 188                        | 18,477     | 86.30                            | 358.10            | 10913.83 | 7863.25             | -558.09               | 7883.00          | 7883.03              | 355.94  | 1.05                     | 0.74      |  |         |  |
| 189                        | 18,536     | 86.10                            | 358.10            | 10917.74 | 7922.09             | -560.04               | 7941.83          | 7941.86              | 355.96  | 0.34                     | -0.34     |  |         |  |
| PTB:                       | 18,588     | 86.10                            | 358.10            | 10921.27 | 7973.94             | -561.76               | 7993.66          | 7993.70              | 355.97  | 0.00                     | 0.00      |  |         |  |