

# **NORTHERN DELAWARE BASIN**

**LEA COUNTY, NM**

**BULLDOG**

**SQUINTS FED COM 8H**

**OWB**

**Design: AWP**

## **Standard Survey Report**

**05 February, 2020**

# Concho Resources LLC

## Survey Report

|                  |                         |                                     |                                  |
|------------------|-------------------------|-------------------------------------|----------------------------------|
| <b>Company:</b>  | NORTHERN DELAWARE BASIN | <b>Local Co-ordinate Reference:</b> | Well SQUINTS FED COM 8H          |
| <b>Project:</b>  | LEA COUNTY, NM          | <b>TVD Reference:</b>               | KB=25' @ 3429.0usft (LATSHAW 44) |
| <b>Site:</b>     | BULLDOG                 | <b>MD Reference:</b>                | KB=25' @ 3429.0usft (LATSHAW 44) |
| <b>Well:</b>     | SQUINTS FED COM 8H      | <b>North Reference:</b>             | Grid                             |
| <b>Wellbore:</b> | OWB                     | <b>Survey Calculation Method:</b>   | Minimum Curvature                |
| <b>Design:</b>   | AWP                     | <b>Database:</b>                    | edm                              |

|                    |                                      |                      |                |
|--------------------|--------------------------------------|----------------------|----------------|
| <b>Project</b>     | LEA COUNTY, NM                       |                      |                |
| <b>Map System:</b> | US State Plane 1927 (Exact solution) | <b>System Datum:</b> | Mean Sea Level |
| <b>Geo Datum:</b>  | NAD 1927 (NADCON CONUS)              |                      |                |
| <b>Map Zone:</b>   | New Mexico East 3001                 |                      |                |

|                              |          |                          |                  |
|------------------------------|----------|--------------------------|------------------|
| <b>Site</b>                  | BULLDOG  |                          |                  |
| <b>Site Position:</b>        |          | <b>Northing:</b>         | 398,637.10 usft  |
| <b>From:</b>                 | Map      | <b>Easting:</b>          | 741,887.40 usft  |
| <b>Position Uncertainty:</b> | 0.0 usft | <b>Slot Radius:</b>      | 13-3/16 "        |
|                              |          | <b>Latitude:</b>         | 32° 5' 36.820 N  |
|                              |          | <b>Longitude:</b>        | 103° 33' 8.116 W |
|                              |          | <b>Grid Convergence:</b> | 0.42 °           |

|                             |                            |                            |                                  |
|-----------------------------|----------------------------|----------------------------|----------------------------------|
| <b>Well</b>                 | SQUINTS FED COM 8H, ACTIVE |                            |                                  |
| <b>Well Position</b>        | <b>+N/-S</b>               | 0.0 usft                   | <b>Northing:</b> 494,283.00 usft |
|                             | <b>+E/-W</b>               | 0.0 usft                   | <b>Easting:</b> 768,518.70 usft  |
| <b>Position Uncertainty</b> | 3.0 usft                   | <b>Wellhead Elevation:</b> | usft                             |
|                             |                            | <b>Latitude:</b>           | 32° 21' 21.246 N                 |
|                             |                            | <b>Longitude:</b>          | 103° 27' 49.565 W                |
|                             |                            | <b>Ground Level:</b>       | 3,404.0 usft                     |

|           |            |             |                 |               |                     |
|-----------|------------|-------------|-----------------|---------------|---------------------|
| Wellbore  | OWB        |             |                 |               |                     |
| Magnetics | Model Name | Sample Date | Declination (°) | Dip Angle (°) | Field Strength (nT) |
|           | IGRF2015   | 1/6/2020    | 6.63            | 60.17         | 47,764.36391851     |

|                   |                            |                 |                 |                  |     |
|-------------------|----------------------------|-----------------|-----------------|------------------|-----|
| Design            | AWP                        |                 |                 |                  |     |
| Audit Notes:      |                            |                 |                 |                  |     |
| Version:          | 1.0                        | Phase:          | ACTUAL          | Tie On Depth:    | 0.0 |
| Vertical Section: | Depth From (TVD)<br>(usft) | +N/-S<br>(usft) | +E/-W<br>(usft) | Direction<br>(°) |     |
|                   | 0.0                        | 0.0             | 0.0             | 1.36             |     |

|                       |                  |                          |                  |                                   |
|-----------------------|------------------|--------------------------|------------------|-----------------------------------|
| <b>Survey Program</b> | <b>Date</b>      | 2/5/2020                 |                  |                                   |
| <b>From (usft)</b>    | <b>To (usft)</b> | <b>Survey (Wellbore)</b> | <b>Tool Name</b> | <b>Description</b>                |
| 146.0                 | 1,869.0          | MWD-SURF (OWB)           | MWD+IFR1+FDIR    | OWSG MWD + IFR1 + FDIR Correction |
| 1,955.0               | 20,343.0         | MWD-INTER/CRV/LAT (OWB)  | MWD+IFR1+FDIR    | OWSG MWD + IFR1 + FDIR Correction |

|                              |                        |                    |                              |                     |                     |                                |                                |                               |                              |
|------------------------------|------------------------|--------------------|------------------------------|---------------------|---------------------|--------------------------------|--------------------------------|-------------------------------|------------------------------|
| <b>Survey</b>                |                        |                    |                              |                     |                     |                                |                                |                               |                              |
| <b>Measured Depth (usft)</b> | <b>Inclination (°)</b> | <b>Azimuth (°)</b> | <b>Vertical Depth (usft)</b> | <b>+N/-S (usft)</b> | <b>+E/-W (usft)</b> | <b>Vertical Section (usft)</b> | <b>Dogleg Rate (°/100usft)</b> | <b>Build Rate (°/100usft)</b> | <b>Turn Rate (°/100usft)</b> |
| 0.0                          | 0.00                   | 0.00               | 0.0                          | 0.0                 | 0.0                 | 0.0                            | 0.00                           | 0.00                          | 0.00                         |
| 146.0                        | 0.17                   | 50.80              | 146.0                        | 0.1                 | 0.2                 | 0.1                            | 0.12                           | 0.12                          | 0.00                         |
| 228.0                        | 0.44                   | 192.14             | 228.0                        | -0.1                | 0.2                 | -0.1                           | 0.71                           | 0.33                          | 172.37                       |
| 310.0                        | 0.46                   | 215.57             | 310.0                        | -0.7                | -0.1                | -0.7                           | 0.22                           | 0.02                          | 28.57                        |
| 394.0                        | 0.25                   | 207.45             | 394.0                        | -1.1                | -0.3                | -1.1                           | 0.26                           | -0.25                         | -9.67                        |
| 462.0                        | 0.59                   | 239.25             | 462.0                        | -1.4                | -0.7                | -1.4                           | 0.59                           | 0.50                          | 46.76                        |
| 551.0                        | 0.66                   | 237.30             | 551.0                        | -1.9                | -1.5                | -2.0                           | 0.08                           | 0.08                          | -2.19                        |
| 636.0                        | 0.54                   | 234.06             | 636.0                        | -2.4                | -2.3                | -2.5                           | 0.15                           | -0.14                         | -3.81                        |
| 727.0                        | 0.86                   | 235.69             | 727.0                        | -3.1                | -3.2                | -3.1                           | 0.35                           | 0.35                          | 1.79                         |
| 811.0                        | 1.31                   | 228.45             | 811.0                        | -4.1                | -4.4                | -4.2                           | 0.56                           | 0.54                          | -8.62                        |

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|                  |                         |                                     |                                  |
|------------------|-------------------------|-------------------------------------|----------------------------------|
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| <b>Project:</b>  | LEA COUNTY, NM          | <b>TVD Reference:</b>               | KB=25' @ 3429.0usft (LATSHAW 44) |
| <b>Site:</b>     | BULLDOG                 | <b>MD Reference:</b>                | KB=25' @ 3429.0usft (LATSHAW 44) |
| <b>Well:</b>     | SQUINTS FED COM 8H      | <b>North Reference:</b>             | Grid                             |
| <b>Wellbore:</b> | OWB                     | <b>Survey Calculation Method:</b>   | Minimum Curvature                |
| <b>Design:</b>   | AWP                     | <b>Database:</b>                    | edm                              |

### Survey

| Measured Depth (usft) | Inclination (°) | Azimuth (°) | Vertical Depth (usft) | +N/-S (usft) | +E/-W (usft) | Vertical Section (usft) | Dogleg Rate (°/100usft) | Build Rate (°/100usft) | Turn Rate (°/100usft) |
|-----------------------|-----------------|-------------|-----------------------|--------------|--------------|-------------------------|-------------------------|------------------------|-----------------------|
| 899.0                 | 0.52            | 232.34      | 898.9                 | -5.0         | -5.5         | -5.1                    | 0.90                    | -0.90                  | 4.42                  |
| 989.0                 | 0.40            | 159.58      | 988.9                 | -5.5         | -5.7         | -5.6                    | 0.62                    | -0.13                  | -80.84                |
| 1,071.0               | 0.70            | 162.08      | 1,070.9               | -6.3         | -5.5         | -6.4                    | 0.37                    | 0.37                   | 3.05                  |
| 1,160.0               | 0.59            | 166.54      | 1,159.9               | -7.2         | -5.2         | -7.3                    | 0.14                    | -0.12                  | 5.01                  |
| 1,250.0               | 0.13            | 334.93      | 1,249.9               | -7.6         | -5.1         | -7.7                    | 0.80                    | -0.51                  | 187.10                |
| 1,337.0               | 0.54            | 272.58      | 1,336.9               | -7.5         | -5.6         | -7.6                    | 0.57                    | 0.47                   | -71.67                |
| 1,425.0               | 0.76            | 258.89      | 1,424.9               | -7.6         | -6.6         | -7.7                    | 0.30                    | 0.25                   | -15.56                |
| 1,513.0               | 0.45            | 287.94      | 1,512.9               | -7.6         | -7.5         | -7.7                    | 0.48                    | -0.35                  | 33.01                 |
| 1,603.0               | 0.29            | 218.61      | 1,602.9               | -7.6         | -7.9         | -7.8                    | 0.49                    | -0.18                  | -77.03                |
| 1,693.0               | 0.41            | 222.12      | 1,692.9               | -8.1         | -8.3         | -8.2                    | 0.14                    | 0.13                   | 3.90                  |
| 1,782.0               | 0.07            | 291.28      | 1,781.9               | -8.3         | -8.6         | -8.5                    | 0.44                    | -0.38                  | 77.71                 |
| 1,869.0               | 0.13            | 148.98      | 1,868.9               | -8.3         | -8.6         | -8.5                    | 0.22                    | 0.07                   | -163.56               |
| 1,955.0               | 0.26            | 345.66      | 1,954.9               | -8.2         | -8.6         | -8.4                    | 0.45                    | 0.15                   | -189.91               |
| 2,050.0               | 0.42            | 7.72        | 2,049.9               | -7.7         | -8.6         | -7.9                    | 0.21                    | 0.17                   | 23.22                 |
| 2,145.0               | 0.64            | 6.56        | 2,144.9               | -6.8         | -8.5         | -7.0                    | 0.23                    | 0.23                   | -1.22                 |
| 2,239.0               | 1.08            | 357.89      | 2,238.9               | -5.4         | -8.4         | -5.6                    | 0.49                    | 0.47                   | -9.22                 |
| 2,334.0               | 1.55            | 0.87        | 2,333.9               | -3.2         | -8.4         | -3.4                    | 0.50                    | 0.49                   | 3.14                  |
| 2,429.0               | 1.73            | 10.47       | 2,428.8               | -0.5         | -8.2         | -0.7                    | 0.35                    | 0.19                   | 10.11                 |
| 2,524.0               | 2.06            | 15.73       | 2,523.8               | 2.5          | -7.4         | 2.4                     | 0.39                    | 0.35                   | 5.54                  |
| 2,619.0               | 2.39            | 17.71       | 2,618.7               | 6.1          | -6.4         | 5.9                     | 0.36                    | 0.35                   | 2.08                  |
| 2,713.0               | 2.72            | 20.71       | 2,712.6               | 10.0         | -5.0         | 9.9                     | 0.38                    | 0.35                   | 3.19                  |
| 2,808.0               | 1.43            | 19.33       | 2,807.6               | 13.2         | -3.8         | 13.1                    | 1.36                    | -1.36                  | -1.45                 |
| 2,903.0               | 0.88            | 27.28       | 2,902.5               | 15.0         | -3.1         | 14.9                    | 0.60                    | -0.58                  | 8.37                  |
| 2,998.0               | 0.23            | 104.64      | 2,997.5               | 15.6         | -2.5         | 15.5                    | 0.90                    | -0.68                  | 81.43                 |
| 3,093.0               | 1.20            | 66.88       | 3,092.5               | 15.9         | -1.4         | 15.9                    | 1.08                    | 1.02                   | -39.75                |
| 3,188.0               | 1.69            | 64.57       | 3,187.5               | 16.9         | 0.7          | 17.0                    | 0.52                    | 0.52                   | -2.43                 |
| 3,283.0               | 1.36            | 81.41       | 3,282.5               | 17.7         | 3.1          | 17.8                    | 0.58                    | -0.35                  | 17.73                 |
| 3,378.0               | 1.66            | 103.56      | 3,377.4               | 17.6         | 5.6          | 17.7                    | 0.68                    | 0.32                   | 23.32                 |
| 3,472.0               | 1.50            | 126.99      | 3,471.4               | 16.5         | 7.9          | 16.7                    | 0.70                    | -0.17                  | 24.93                 |
| 3,513.0               | 1.95            | 162.91      | 3,512.4               | 15.5         | 8.5          | 15.7                    | 2.80                    | 1.10                   | 87.61                 |
| 3,655.0               | 2.09            | 174.94      | 3,654.3               | 10.6         | 9.4          | 10.8                    | 0.31                    | 0.10                   | 8.47                  |
| 3,749.0               | 1.06            | 175.06      | 3,748.3               | 8.0          | 9.7          | 8.3                     | 1.10                    | -1.10                  | 0.13                  |
| 3,844.0               | 0.34            | 204.28      | 3,843.2               | 6.9          | 9.6          | 7.1                     | 0.82                    | -0.76                  | 30.76                 |
| 3,939.0               | 0.32            | 210.68      | 3,938.2               | 6.4          | 9.4          | 6.6                     | 0.04                    | -0.02                  | 6.74                  |
| 4,033.0               | 0.38            | 217.94      | 4,032.2               | 6.0          | 9.1          | 6.2                     | 0.08                    | 0.06                   | 7.72                  |
| 4,128.0               | 0.44            | 222.06      | 4,127.2               | 5.4          | 8.6          | 5.6                     | 0.07                    | 0.06                   | 4.34                  |
| 4,223.0               | 0.38            | 216.18      | 4,222.2               | 4.9          | 8.2          | 5.1                     | 0.08                    | -0.06                  | -6.19                 |
| 4,318.0               | 0.26            | 212.22      | 4,317.2               | 4.5          | 7.9          | 4.7                     | 0.13                    | -0.13                  | -4.17                 |
| 4,412.0               | 0.31            | 350.83      | 4,411.2               | 4.5          | 7.7          | 4.7                     | 0.57                    | 0.05                   | 147.46                |
| 4,507.0               | 1.33            | 14.51       | 4,506.2               | 5.9          | 8.0          | 6.1                     | 1.11                    | 1.07                   | 24.93                 |
| 4,602.0               | 1.32            | 25.58       | 4,601.2               | 7.9          | 8.7          | 8.1                     | 0.27                    | -0.01                  | 11.65                 |
| 4,697.0               | 1.42            | 32.61       | 4,696.2               | 9.9          | 9.8          | 10.1                    | 0.21                    | 0.11                   | 7.40                  |
| 4,792.0               | 1.54            | 37.34       | 4,791.1               | 11.9         | 11.2         | 12.2                    | 0.18                    | 0.13                   | 4.98                  |

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|------------------|-------------------------|-------------------------------------|----------------------------------|
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| <b>Wellbore:</b> | OWB                     | <b>Survey Calculation Method:</b>   | Minimum Curvature                |
| <b>Design:</b>   | AWP                     | <b>Database:</b>                    | edm                              |

| Survey                |                 |             |                       |              |              |                         |                         |                        |                       |
|-----------------------|-----------------|-------------|-----------------------|--------------|--------------|-------------------------|-------------------------|------------------------|-----------------------|
| Measured Depth (usft) | Inclination (°) | Azimuth (°) | Vertical Depth (usft) | +N/-S (usft) | +E/-W (usft) | Vertical Section (usft) | Dogleg Rate (°/100usft) | Build Rate (°/100usft) | Turn Rate (°/100usft) |
| 4,887.0               | 1.85            | 32.03       | 4,886.1               | 14.2         | 12.8         | 14.5                    | 0.37                    | 0.33                   | -5.59                 |
| 4,981.0               | 0.55            | 43.86       | 4,980.1               | 15.8         | 13.9         | 16.2                    | 1.40                    | -1.38                  | 12.59                 |
| 5,076.0               | 0.83            | 208.35      | 5,075.1               | 15.6         | 13.9         | 15.9                    | 1.44                    | 0.29                   | 173.15                |
| 5,171.0               | 0.91            | 216.41      | 5,170.1               | 14.3         | 13.1         | 14.7                    | 0.15                    | 0.08                   | 8.48                  |
| 5,266.0               | 1.09            | 200.35      | 5,265.0               | 12.9         | 12.4         | 13.2                    | 0.35                    | 0.19                   | -16.91                |
| 5,361.0               | 1.02            | 195.80      | 5,360.0               | 11.2         | 11.8         | 11.5                    | 0.11                    | -0.07                  | -4.79                 |
| 5,447.0               | 1.00            | 196.99      | 5,446.0               | 9.8          | 11.4         | 10.0                    | 0.03                    | -0.02                  | 1.38                  |
| 5,561.0               | 1.10            | 232.95      | 5,560.0               | 8.2          | 10.2         | 8.4                     | 0.57                    | 0.09                   | 31.54                 |
| 5,654.0               | 1.17            | 98.38       | 5,653.0               | 7.5          | 10.5         | 7.7                     | 2.25                    | 0.08                   | -144.70               |
| 5,749.0               | 2.44            | 114.93      | 5,747.9               | 6.5          | 13.3         | 6.8                     | 1.43                    | 1.34                   | 17.42                 |
| 5,844.0               | 7.94            | 130.81      | 5,842.5               | 1.3          | 20.1         | 1.8                     | 5.93                    | 5.79                   | 16.72                 |
| 5,939.0               | 8.10            | 127.52      | 5,936.6               | -7.0         | 30.3         | -6.3                    | 0.51                    | 0.17                   | -3.46                 |
| 6,034.0               | 7.39            | 125.99      | 6,030.7               | -14.7        | 40.6         | -13.7                   | 0.78                    | -0.75                  | -1.61                 |
| 6,129.0               | 7.49            | 120.84      | 6,124.9               | -21.4        | 50.9         | -20.2                   | 0.71                    | 0.11                   | -5.42                 |
| 6,223.0               | 8.14            | 120.29      | 6,218.1               | -27.9        | 61.9         | -26.5                   | 0.70                    | 0.69                   | -0.59                 |
| 6,317.0               | 8.51            | 119.42      | 6,311.1               | -34.7        | 73.7         | -33.0                   | 0.42                    | 0.39                   | -0.93                 |
| 6,412.0               | 8.27            | 115.30      | 6,405.0               | -41.1        | 86.0         | -39.0                   | 0.68                    | -0.25                  | -4.34                 |
| 6,506.0               | 9.24            | 125.79      | 6,498.0               | -48.4        | 98.2         | -46.1                   | 1.98                    | 1.03                   | 11.16                 |
| 6,601.0               | 8.77            | 126.58      | 6,591.8               | -57.2        | 110.2        | -54.5                   | 0.51                    | -0.49                  | 0.83                  |
| 6,695.0               | 8.50            | 123.39      | 6,684.7               | -65.3        | 121.8        | -62.4                   | 0.58                    | -0.29                  | -3.39                 |
| 6,790.0               | 8.81            | 123.58      | 6,778.6               | -73.2        | 133.7        | -70.0                   | 0.33                    | 0.33                   | 0.20                  |
| 6,884.0               | 8.83            | 125.40      | 6,871.5               | -81.3        | 145.6        | -77.8                   | 0.30                    | 0.02                   | 1.94                  |
| 6,979.0               | 8.74            | 127.36      | 6,965.4               | -89.9        | 157.2        | -86.2                   | 0.33                    | -0.09                  | 2.06                  |
| 7,074.0               | 8.07            | 126.38      | 7,059.4               | -98.3        | 168.4        | -94.2                   | 0.72                    | -0.71                  | -1.03                 |
| 7,169.0               | 7.99            | 126.96      | 7,153.5               | -106.2       | 179.0        | -101.9                  | 0.12                    | -0.08                  | 0.61                  |
| 7,263.0               | 6.94            | 127.56      | 7,246.7               | -113.6       | 188.7        | -109.1                  | 1.12                    | -1.12                  | 0.64                  |
| 7,358.0               | 6.11            | 132.97      | 7,341.0               | -120.5       | 197.0        | -115.8                  | 1.09                    | -0.87                  | 5.69                  |
| 7,453.0               | 5.76            | 131.75      | 7,435.5               | -127.1       | 204.2        | -122.3                  | 0.39                    | -0.37                  | -1.28                 |
| 7,548.0               | 6.05            | 137.92      | 7,530.0               | -134.0       | 211.1        | -129.0                  | 0.73                    | 0.31                   | 6.49                  |
| 7,643.0               | 6.21            | 137.04      | 7,624.5               | -141.5       | 218.0        | -136.3                  | 0.20                    | 0.17                   | -0.93                 |
| 7,738.0               | 6.68            | 122.88      | 7,718.9               | -148.3       | 226.1        | -142.9                  | 1.74                    | 0.49                   | -14.91                |
| 7,832.0               | 6.24            | 123.50      | 7,812.3               | -154.0       | 235.0        | -148.4                  | 0.47                    | -0.47                  | 0.66                  |
| 7,927.0               | 5.26            | 121.30      | 7,906.8               | -159.2       | 243.0        | -153.4                  | 1.06                    | -1.03                  | -2.32                 |
| 8,021.0               | 4.51            | 128.13      | 8,000.5               | -163.7       | 249.6        | -157.7                  | 1.01                    | -0.80                  | 7.27                  |
| 8,116.0               | 4.23            | 132.41      | 8,095.2               | -168.3       | 255.1        | -162.3                  | 0.45                    | -0.29                  | 4.51                  |
| 8,211.0               | 3.69            | 129.49      | 8,190.0               | -172.7       | 260.1        | -166.4                  | 0.61                    | -0.57                  | -3.07                 |
| 8,306.0               | 3.90            | 133.90      | 8,284.8               | -176.8       | 264.8        | -170.5                  | 0.38                    | 0.22                   | 4.64                  |
| 8,401.0               | 3.16            | 131.16      | 8,379.6               | -180.8       | 269.1        | -174.4                  | 0.80                    | -0.78                  | -2.88                 |
| 8,496.0               | 1.28            | 124.63      | 8,474.5               | -183.1       | 271.9        | -176.6                  | 1.99                    | -1.98                  | -6.87                 |
| 8,591.0               | 1.21            | 138.23      | 8,569.5               | -184.5       | 273.4        | -178.0                  | 0.32                    | -0.07                  | 14.32                 |
| 8,686.0               | 0.65            | 159.69      | 8,664.5               | -185.7       | 274.3        | -179.2                  | 0.68                    | -0.59                  | 22.59                 |
| 8,781.0               | 0.32            | 25.08       | 8,759.5               | -186.0       | 274.6        | -179.4                  | 0.95                    | -0.35                  | -141.69               |
| 8,876.0               | 0.92            | 328.24      | 8,854.5               | -185.1       | 274.3        | -178.6                  | 0.83                    | 0.63                   | -59.83                |

# Concho Resources LLC

## Survey Report

|                  |                         |                                     |                                  |
|------------------|-------------------------|-------------------------------------|----------------------------------|
| <b>Company:</b>  | NORTHERN DELAWARE BASIN | <b>Local Co-ordinate Reference:</b> | Well SQUINTS FED COM 8H          |
| <b>Project:</b>  | LEA COUNTY, NM          | <b>TVD Reference:</b>               | KB=25' @ 3429.0usft (LATSHAW 44) |
| <b>Site:</b>     | BULLDOG                 | <b>MD Reference:</b>                | KB=25' @ 3429.0usft (LATSHAW 44) |
| <b>Well:</b>     | SQUINTS FED COM 8H      | <b>North Reference:</b>             | Grid                             |
| <b>Wellbore:</b> | OWB                     | <b>Survey Calculation Method:</b>   | Minimum Curvature                |
| <b>Design:</b>   | AWP                     | <b>Database:</b>                    | edm                              |

### Survey

| Measured Depth (usft)             | Inclination (°) | Azimuth (°) | Vertical Depth (usft) | +N/-S (usft) | +E/-W (usft) | Vertical Section (usft) | Dogleg Rate (°/100usft) | Build Rate (°/100usft) | Turn Rate (°/100usft) |
|-----------------------------------|-----------------|-------------|-----------------------|--------------|--------------|-------------------------|-------------------------|------------------------|-----------------------|
| 8,970.0                           | 0.77            | 316.50      | 8,948.5               | -184.0       | 273.5        | -177.5                  | 0.24                    | -0.16                  | -12.49                |
| 9,065.0                           | 0.97            | 277.98      | 9,043.4               | -183.4       | 272.2        | -176.9                  | 0.64                    | 0.21                   | -40.55                |
| 9,160.0                           | 1.36            | 303.65      | 9,138.4               | -182.7       | 270.5        | -176.2                  | 0.68                    | 0.41                   | 27.02                 |
| 9,255.0                           | 1.79            | 310.53      | 9,233.4               | -181.1       | 268.4        | -174.7                  | 0.49                    | 0.45                   | 7.24                  |
| 9,349.0                           | 1.88            | 296.70      | 9,327.3               | -179.5       | 265.9        | -173.1                  | 0.48                    | 0.10                   | -14.71                |
| 9,434.0                           | 1.55            | 273.43      | 9,412.3               | -178.8       | 263.6        | -172.5                  | 0.90                    | -0.39                  | -27.38                |
| 9,477.0                           | 2.07            | 266.16      | 9,455.3               | -178.8       | 262.2        | -172.5                  | 1.32                    | 1.21                   | -16.91                |
| 9,524.0                           | 3.13            | 336.64      | 9,502.2               | -177.7       | 260.8        | -171.4                  | 6.64                    | 2.26                   | 149.96                |
| 9,572.0                           | 8.19            | 0.37        | 9,550.0               | -173.0       | 260.3        | -166.8                  | 11.40                   | 10.54                  | 49.44                 |
| 9,619.0                           | 14.22           | 1.02        | 9,596.1               | -163.9       | 260.5        | -157.7                  | 12.83                   | 12.83                  | 1.38                  |
| 9,666.0                           | 19.54           | 359.68      | 9,641.0               | -150.3       | 260.5        | -144.1                  | 11.35                   | 11.32                  | -2.85                 |
| 9,713.0                           | 24.38           | 359.83      | 9,684.6               | -132.7       | 260.5        | -126.5                  | 10.30                   | 10.30                  | 0.32                  |
| 9,747.7                           | 26.05           | 359.05      | 9,716.0               | -117.9       | 260.3        | -111.7                  | 4.91                    | 4.81                   | -2.26                 |
| <b>FTP @ 9747.7'MD / 9716'TVD</b> |                 |             |                       |              |              |                         |                         |                        |                       |
| 9,761.0                           | 26.69           | 358.77      | 9,727.9               | -112.0       | 260.2        | -105.8                  | 4.91                    | 4.82                   | -2.08                 |
| 9,808.0                           | 27.78           | 357.85      | 9,769.7               | -90.5        | 259.6        | -84.3                   | 2.49                    | 2.32                   | -1.96                 |
| 9,856.0                           | 30.07           | 358.58      | 9,811.7               | -67.3        | 258.8        | -61.2                   | 4.83                    | 4.77                   | 1.52                  |
| 9,903.0                           | 32.32           | 3.32        | 9,851.9               | -43.0        | 259.3        | -36.8                   | 7.08                    | 4.79                   | 10.09                 |
| 9,951.0                           | 34.73           | 1.74        | 9,892.0               | -16.5        | 260.4        | -10.3                   | 5.34                    | 5.02                   | -3.29                 |
| 9,998.0                           | 37.38           | 0.13        | 9,929.9               | 11.1         | 260.9        | 17.3                    | 5.99                    | 5.64                   | -3.43                 |
| 10,045.0                          | 39.28           | 1.20        | 9,966.8               | 40.3         | 261.2        | 46.5                    | 4.28                    | 4.04                   | 2.28                  |
| 10,092.0                          | 43.99           | 0.91        | 10,001.9              | 71.5         | 261.8        | 77.7                    | 10.03                   | 10.02                  | -0.62                 |
| 10,140.0                          | 46.41           | 1.65        | 10,035.8              | 105.6        | 262.6        | 111.7                   | 5.16                    | 5.04                   | 1.54                  |
| 10,226.0                          | 52.55           | 2.41        | 10,091.6              | 170.9        | 264.9        | 177.1                   | 7.17                    | 7.14                   | 0.88                  |
| 10,273.0                          | 60.41           | 2.33        | 10,117.5              | 210.0        | 266.5        | 216.2                   | 16.72                   | 16.72                  | -0.17                 |
| 10,321.0                          | 69.00           | 4.52        | 10,138.0              | 253.2        | 269.1        | 259.6                   | 18.36                   | 17.90                  | 4.56                  |
| 10,384.0                          | 80.39           | 7.25        | 10,154.6              | 313.6        | 275.4        | 320.0                   | 18.55                   | 18.08                  | 4.33                  |
| 10,416.0                          | 86.33           | 8.15        | 10,158.3              | 345.1        | 279.6        | 351.6                   | 18.77                   | 18.56                  | 2.81                  |
| 10,514.0                          | 88.81           | 2.45        | 10,162.5              | 442.5        | 288.7        | 449.2                   | 6.34                    | 2.53                   | -5.82                 |
| 10,609.0                          | 91.18           | 2.53        | 10,162.5              | 537.4        | 292.8        | 544.2                   | 2.50                    | 2.49                   | 0.08                  |
| 10,704.0                          | 92.24           | 0.83        | 10,159.7              | 632.3        | 295.6        | 639.2                   | 2.11                    | 1.12                   | -1.79                 |
| 10,798.0                          | 93.26           | 0.54        | 10,155.2              | 726.2        | 296.7        | 733.0                   | 1.13                    | 1.09                   | -0.31                 |
| 10,893.0                          | 94.18           | 359.95      | 10,149.0              | 821.0        | 297.1        | 827.8                   | 1.15                    | 0.97                   | -0.62                 |
| 10,985.0                          | 94.20           | 359.27      | 10,142.3              | 912.8        | 296.5        | 919.5                   | 0.74                    | 0.02                   | -0.74                 |
| 11,080.0                          | 87.71           | 359.95      | 10,140.7              | 1,007.7      | 295.8        | 1,014.4                 | 6.87                    | -6.83                  | 0.72                  |
| 11,174.0                          | 87.54           | 359.59      | 10,144.6              | 1,101.6      | 295.5        | 1,108.3                 | 0.42                    | -0.18                  | -0.38                 |
| 11,272.0                          | 91.34           | 358.88      | 10,145.5              | 1,199.6      | 294.2        | 1,206.2                 | 3.94                    | 3.88                   | -0.72                 |
| 11,366.0                          | 91.51           | 358.77      | 10,143.2              | 1,293.5      | 292.2        | 1,300.1                 | 0.22                    | 0.18                   | -0.12                 |
| 11,461.0                          | 91.89           | 357.83      | 10,140.4              | 1,388.4      | 289.4        | 1,394.9                 | 1.07                    | 0.40                   | -0.99                 |
| 11,555.0                          | 90.66           | 359.51      | 10,138.3              | 1,482.4      | 287.2        | 1,488.8                 | 2.21                    | -1.31                  | 1.79                  |
| 11,650.0                          | 89.40           | 1.01        | 10,138.2              | 1,577.4      | 287.7        | 1,583.8                 | 2.06                    | -1.33                  | 1.58                  |
| 11,743.0                          | 89.30           | 0.77        | 10,139.3              | 1,670.4      | 289.1        | 1,676.7                 | 0.28                    | -0.11                  | -0.26                 |
| 11,837.0                          | 88.92           | 0.65        | 10,140.8              | 1,764.4      | 290.3        | 1,770.7                 | 0.42                    | -0.40                  | -0.13                 |
| 11,931.0                          | 88.18           | 0.36        | 10,143.1              | 1,858.3      | 291.1        | 1,864.7                 | 0.85                    | -0.79                  | -0.31                 |

# Concho Resources LLC

## Survey Report

|                  |                         |                                     |                                  |
|------------------|-------------------------|-------------------------------------|----------------------------------|
| <b>Company:</b>  | NORTHERN DELAWARE BASIN | <b>Local Co-ordinate Reference:</b> | Well SQUINTS FED COM 8H          |
| <b>Project:</b>  | LEA COUNTY, NM          | <b>TVD Reference:</b>               | KB=25' @ 3429.0usft (LATSHAW 44) |
| <b>Site:</b>     | BULLDOG                 | <b>MD Reference:</b>                | KB=25' @ 3429.0usft (LATSHAW 44) |
| <b>Well:</b>     | SQUINTS FED COM 8H      | <b>North Reference:</b>             | Grid                             |
| <b>Wellbore:</b> | OWB                     | <b>Survey Calculation Method:</b>   | Minimum Curvature                |
| <b>Design:</b>   | AWP                     | <b>Database:</b>                    | edm                              |

### Survey

| Measured Depth (usft) | Inclination (°) | Azimuth (°) | Vertical Depth (usft) | +N/-S (usft) | +E/-W (usft) | Vertical Section (usft) | Dogleg Rate (°/100usft) | Build Rate (°/100usft) | Turn Rate (°/100usft) |
|-----------------------|-----------------|-------------|-----------------------|--------------|--------------|-------------------------|-------------------------|------------------------|-----------------------|
| 12,026.0              | 90.87           | 1.77        | 10,143.9              | 1,953.3      | 292.9        | 1,959.7                 | 3.20                    | 2.83                   | 1.48                  |
| 12,121.0              | 90.84           | 2.31        | 10,142.5              | 2,048.2      | 296.3        | 2,054.7                 | 0.57                    | -0.03                  | 0.57                  |
| 12,215.0              | 91.48           | 2.53        | 10,140.6              | 2,142.1      | 300.2        | 2,148.6                 | 0.72                    | 0.68                   | 0.23                  |
| 12,309.0              | 89.87           | 1.72        | 10,139.5              | 2,236.0      | 303.7        | 2,242.6                 | 1.92                    | -1.71                  | -0.86                 |
| 12,403.0              | 89.63           | 1.86        | 10,139.9              | 2,330.0      | 306.6        | 2,336.6                 | 0.30                    | -0.26                  | 0.15                  |
| 12,497.0              | 89.94           | 1.09        | 10,140.3              | 2,424.0      | 309.1        | 2,430.6                 | 0.88                    | 0.33                   | -0.82                 |
| 12,592.0              | 87.56           | 355.85      | 10,142.3              | 2,518.9      | 306.5        | 2,525.4                 | 6.06                    | -2.51                  | -5.52                 |
| 12,686.0              | 87.82           | 355.60      | 10,146.1              | 2,612.5      | 299.5        | 2,618.9                 | 0.38                    | 0.28                   | -0.27                 |
| 12,780.0              | 87.73           | 356.87      | 10,149.8              | 2,706.2      | 293.4        | 2,712.4                 | 1.35                    | -0.10                  | 1.35                  |
| 12,875.0              | 88.93           | 358.42      | 10,152.5              | 2,801.1      | 289.5        | 2,807.2                 | 2.06                    | 1.26                   | 1.63                  |
| 12,969.0              | 89.07           | 358.87      | 10,154.2              | 2,895.1      | 287.2        | 2,901.1                 | 0.50                    | 0.15                   | 0.48                  |
| 13,063.0              | 89.80           | 359.30      | 10,155.1              | 2,989.1      | 285.7        | 2,995.0                 | 0.90                    | 0.78                   | 0.46                  |
| 13,157.0              | 90.93           | 358.88      | 10,154.5              | 3,083.0      | 284.2        | 3,088.9                 | 1.28                    | 1.20                   | -0.45                 |
| 13,252.0              | 91.00           | 358.78      | 10,152.9              | 3,178.0      | 282.3        | 3,183.8                 | 0.13                    | 0.07                   | -0.11                 |
| 13,345.0              | 92.14           | 358.65      | 10,150.4              | 3,271.0      | 280.2        | 3,276.7                 | 1.23                    | 1.23                   | -0.14                 |
| 13,439.0              | 89.44           | 359.33      | 10,149.1              | 3,364.9      | 278.6        | 3,370.6                 | 2.96                    | -2.87                  | 0.72                  |
| 13,534.0              | 89.68           | 359.50      | 10,149.8              | 3,459.9      | 277.6        | 3,465.5                 | 0.31                    | 0.25                   | 0.18                  |
| 13,628.0              | 92.47           | 1.60        | 10,148.0              | 3,553.9      | 278.5        | 3,559.5                 | 3.71                    | 2.97                   | 2.23                  |
| 13,723.0              | 91.33           | 3.56        | 10,144.9              | 3,648.7      | 282.8        | 3,654.4                 | 2.39                    | -1.20                  | 2.06                  |
| 13,817.0              | 88.83           | 3.20        | 10,144.7              | 3,742.6      | 288.3        | 3,748.3                 | 2.69                    | -2.66                  | -0.38                 |
| 13,911.0              | 87.32           | 3.04        | 10,147.9              | 3,836.4      | 293.4        | 3,842.2                 | 1.62                    | -1.61                  | -0.17                 |
| 14,006.0              | 87.36           | 3.30        | 10,152.3              | 3,931.1      | 298.7        | 3,937.1                 | 0.28                    | 0.04                   | 0.27                  |
| 14,100.0              | 87.54           | 0.81        | 10,156.5              | 4,024.9      | 302.0        | 4,031.0                 | 2.65                    | 0.19                   | -2.65                 |
| 14,195.0              | 90.25           | 359.35      | 10,158.3              | 4,119.9      | 302.2        | 4,125.9                 | 3.24                    | 2.85                   | -1.54                 |
| 14,289.0              | 89.84           | 359.04      | 10,158.3              | 4,213.9      | 300.8        | 4,219.9                 | 0.55                    | -0.44                  | -0.33                 |
| 14,384.0              | 91.26           | 359.24      | 10,157.3              | 4,308.9      | 299.4        | 4,314.8                 | 1.51                    | 1.49                   | 0.21                  |
| 14,478.0              | 89.41           | 358.64      | 10,156.8              | 4,402.9      | 297.7        | 4,408.7                 | 2.07                    | -1.97                  | -0.64                 |
| 14,572.0              | 90.10           | 359.47      | 10,157.2              | 4,496.9      | 296.1        | 4,502.6                 | 1.15                    | 0.73                   | 0.88                  |
| 14,667.0              | 90.28           | 359.67      | 10,156.9              | 4,591.9      | 295.4        | 4,597.6                 | 0.28                    | 0.19                   | 0.21                  |
| 14,761.0              | 89.98           | 359.28      | 10,156.7              | 4,685.8      | 294.6        | 4,691.5                 | 0.52                    | -0.32                  | -0.41                 |
| 14,855.0              | 90.45           | 359.13      | 10,156.3              | 4,779.8      | 293.3        | 4,785.4                 | 0.52                    | 0.50                   | -0.16                 |
| 14,949.0              | 90.34           | 358.51      | 10,155.7              | 4,873.8      | 291.3        | 4,879.3                 | 0.67                    | -0.12                  | -0.66                 |
| 15,033.0              | 89.21           | 358.34      | 10,156.0              | 4,957.8      | 289.0        | 4,963.2                 | 1.36                    | -1.35                  | -0.20                 |
| 15,127.0              | 88.94           | 358.25      | 10,157.5              | 5,051.7      | 286.2        | 5,057.1                 | 0.30                    | -0.29                  | -0.10                 |
| 15,221.0              | 89.23           | 358.45      | 10,159.0              | 5,145.7      | 283.5        | 5,150.9                 | 0.37                    | 0.31                   | 0.21                  |
| 15,316.0              | 88.11           | 357.81      | 10,161.2              | 5,240.6      | 280.4        | 5,245.8                 | 1.36                    | -1.18                  | -0.67                 |
| 15,411.0              | 88.73           | 357.95      | 10,163.8              | 5,335.5      | 276.9        | 5,340.6                 | 0.67                    | 0.65                   | 0.15                  |
| 15,506.0              | 88.83           | 358.13      | 10,165.9              | 5,430.4      | 273.6        | 5,435.4                 | 0.22                    | 0.11                   | 0.19                  |
| 15,600.0              | 88.67           | 358.10      | 10,167.9              | 5,524.3      | 270.6        | 5,529.2                 | 0.17                    | -0.17                  | -0.03                 |
| 15,694.0              | 89.00           | 357.87      | 10,169.8              | 5,618.3      | 267.3        | 5,623.0                 | 0.43                    | 0.35                   | -0.24                 |
| 15,788.0              | 88.94           | 357.75      | 10,171.5              | 5,712.2      | 263.7        | 5,716.8                 | 0.14                    | -0.06                  | -0.13                 |
| 15,883.0              | 89.11           | 357.68      | 10,173.1              | 5,807.1      | 259.9        | 5,811.6                 | 0.19                    | 0.18                   | -0.07                 |
| 15,978.0              | 89.20           | 357.78      | 10,174.5              | 5,902.0      | 256.1        | 5,906.4                 | 0.14                    | 0.09                   | 0.11                  |

# Concho Resources LLC

## Survey Report

|                  |                         |                                     |                                  |
|------------------|-------------------------|-------------------------------------|----------------------------------|
| <b>Company:</b>  | NORTHERN DELAWARE BASIN | <b>Local Co-ordinate Reference:</b> | Well SQUINTS FED COM 8H          |
| <b>Project:</b>  | LEA COUNTY, NM          | <b>TVD Reference:</b>               | KB=25' @ 3429.0usft (LATSHAW 44) |
| <b>Site:</b>     | BULLDOG                 | <b>MD Reference:</b>                | KB=25' @ 3429.0usft (LATSHAW 44) |
| <b>Well:</b>     | SQUINTS FED COM 8H      | <b>North Reference:</b>             | Grid                             |
| <b>Wellbore:</b> | OWB                     | <b>Survey Calculation Method:</b>   | Minimum Curvature                |
| <b>Design:</b>   | AWP                     | <b>Database:</b>                    | edm                              |

### Survey

| Measured Depth (usft) | Inclination (°) | Azimuth (°) | Vertical Depth (usft) | +N/-S (usft) | +E/-W (usft) | Vertical Section (usft) | Dogleg Rate (°/100usft) | Build Rate (°/100usft) | Turn Rate (°/100usft) |
|-----------------------|-----------------|-------------|-----------------------|--------------|--------------|-------------------------|-------------------------|------------------------|-----------------------|
| 16,073.0              | 88.27           | 358.53      | 10,176.6              | 5,996.9      | 253.1        | 6,001.2                 | 1.26                    | -0.98                  | 0.79                  |
| 16,167.0              | 88.57           | 358.73      | 10,179.2              | 6,090.9      | 250.8        | 6,095.1                 | 0.38                    | 0.32                   | 0.21                  |
| 16,262.0              | 89.05           | 358.86      | 10,181.2              | 6,185.8      | 248.8        | 6,190.0                 | 0.52                    | 0.51                   | 0.14                  |
| 16,356.0              | 87.91           | 359.97      | 10,183.7              | 6,279.8      | 247.8        | 6,283.9                 | 1.69                    | -1.21                  | 1.18                  |
| 16,451.0              | 87.91           | 0.74        | 10,187.2              | 6,374.7      | 248.4        | 6,378.8                 | 0.81                    | 0.00                   | 0.81                  |
| 16,545.0              | 87.18           | 1.55        | 10,191.2              | 6,468.6      | 250.3        | 6,472.7                 | 1.16                    | -0.78                  | 0.86                  |
| 16,640.0              | 87.52           | 2.25        | 10,195.6              | 6,563.5      | 253.5        | 6,567.6                 | 0.82                    | 0.36                   | 0.74                  |
| 16,735.0              | 88.14           | 0.89        | 10,199.2              | 6,658.4      | 256.1        | 6,662.6                 | 1.57                    | 0.65                   | -1.43                 |
| 16,829.0              | 88.36           | 1.70        | 10,202.0              | 6,752.3      | 258.2        | 6,756.5                 | 0.89                    | 0.23                   | 0.86                  |
| 16,923.0              | 88.21           | 2.04        | 10,204.9              | 6,846.2      | 261.3        | 6,850.5                 | 0.40                    | -0.16                  | 0.36                  |
| 17,017.0              | 87.89           | 0.87        | 10,208.0              | 6,940.1      | 263.6        | 6,944.4                 | 1.29                    | -0.34                  | -1.24                 |
| 17,112.0              | 88.55           | 1.71        | 10,211.0              | 7,035.0      | 265.8        | 7,039.4                 | 1.12                    | 0.69                   | 0.88                  |
| 17,207.0              | 88.09           | 1.31        | 10,213.8              | 7,130.0      | 268.3        | 7,134.3                 | 0.64                    | -0.48                  | -0.42                 |
| 17,301.0              | 89.27           | 1.52        | 10,216.0              | 7,223.9      | 270.6        | 7,228.3                 | 1.28                    | 1.26                   | 0.22                  |
| 17,396.0              | 86.87           | 359.81      | 10,219.1              | 7,318.8      | 271.7        | 7,323.2                 | 3.10                    | -2.53                  | -1.80                 |
| 17,490.0              | 86.87           | 0.16        | 10,224.3              | 7,412.7      | 271.7        | 7,417.1                 | 0.37                    | 0.00                   | 0.37                  |
| 17,585.0              | 88.76           | 359.76      | 10,227.9              | 7,507.6      | 271.6        | 7,512.0                 | 2.03                    | 1.99                   | -0.42                 |
| 17,679.0              | 88.57           | 359.03      | 10,230.1              | 7,601.6      | 270.6        | 7,605.9                 | 0.80                    | -0.20                  | -0.78                 |
| 17,774.0              | 87.86           | 358.52      | 10,233.1              | 7,696.5      | 268.6        | 7,700.7                 | 0.92                    | -0.75                  | -0.54                 |
| 17,868.0              | 87.88           | 358.46      | 10,236.5              | 7,790.4      | 266.1        | 7,794.5                 | 0.07                    | 0.02                   | -0.06                 |
| 17,963.0              | 87.36           | 357.98      | 10,240.5              | 7,885.3      | 263.2        | 7,889.3                 | 0.74                    | -0.55                  | -0.51                 |
| 18,057.0              | 88.03           | 357.99      | 10,244.3              | 7,979.2      | 259.9        | 7,983.1                 | 0.71                    | 0.71                   | 0.01                  |
| 18,152.0              | 88.38           | 358.57      | 10,247.2              | 8,074.1      | 257.0        | 8,077.9                 | 0.71                    | 0.37                   | 0.61                  |
| 18,246.0              | 88.85           | 359.43      | 10,249.5              | 8,168.0      | 255.4        | 8,171.8                 | 1.04                    | 0.50                   | 0.91                  |
| 18,341.0              | 89.15           | 0.62        | 10,251.2              | 8,263.0      | 255.4        | 8,266.7                 | 1.29                    | 0.32                   | 1.25                  |
| 18,435.0              | 89.74           | 1.01        | 10,252.1              | 8,357.0      | 256.7        | 8,360.7                 | 0.75                    | 0.63                   | 0.41                  |
| 18,530.0              | 91.96           | 359.33      | 10,250.7              | 8,452.0      | 257.0        | 8,455.7                 | 2.93                    | 2.34                   | -1.77                 |
| 18,624.0              | 91.78           | 359.63      | 10,247.6              | 8,545.9      | 256.2        | 8,549.6                 | 0.37                    | -0.19                  | 0.32                  |
| 18,718.0              | 92.99           | 0.25        | 10,243.7              | 8,639.8      | 256.1        | 8,643.5                 | 1.45                    | 1.29                   | 0.66                  |
| 18,813.0              | 91.27           | 358.79      | 10,240.2              | 8,734.8      | 255.3        | 8,738.4                 | 2.37                    | -1.81                  | -1.54                 |
| 18,912.0              | 91.83           | 359.05      | 10,237.5              | 8,833.7      | 253.4        | 8,837.2                 | 0.62                    | 0.57                   | 0.26                  |
| 19,006.0              | 93.07           | 358.93      | 10,233.5              | 8,927.6      | 251.8        | 8,931.1                 | 1.33                    | 1.32                   | -0.13                 |
| 19,101.0              | 90.52           | 358.22      | 10,230.5              | 9,022.5      | 249.4        | 9,025.9                 | 2.79                    | -2.68                  | -0.75                 |
| 19,194.0              | 90.57           | 357.96      | 10,229.6              | 9,115.5      | 246.3        | 9,118.7                 | 0.28                    | 0.05                   | -0.28                 |
| 19,289.0              | 90.85           | 358.28      | 10,228.4              | 9,210.4      | 243.2        | 9,213.6                 | 0.45                    | 0.29                   | 0.34                  |
| 19,384.0              | 90.62           | 358.24      | 10,227.2              | 9,305.4      | 240.3        | 9,308.4                 | 0.25                    | -0.24                  | -0.04                 |
| 19,478.0              | 91.28           | 358.33      | 10,225.7              | 9,399.3      | 237.5        | 9,402.3                 | 0.71                    | 0.70                   | 0.10                  |
| 19,572.0              | 91.40           | 358.43      | 10,223.5              | 9,493.2      | 234.8        | 9,496.1                 | 0.17                    | 0.13                   | 0.11                  |
| 19,667.0              | 91.19           | 358.61      | 10,221.3              | 9,588.2      | 232.4        | 9,591.0                 | 0.29                    | -0.22                  | 0.19                  |
| 19,761.0              | 91.18           | 357.96      | 10,219.4              | 9,682.1      | 229.6        | 9,684.8                 | 0.69                    | -0.01                  | -0.69                 |
| 19,856.0              | 91.80           | 357.92      | 10,216.9              | 9,777.0      | 226.2        | 9,779.6                 | 0.65                    | 0.65                   | -0.04                 |
| 19,951.0              | 91.66           | 357.92      | 10,214.0              | 9,871.9      | 222.7        | 9,874.4                 | 0.15                    | -0.15                  | 0.00                  |
| 20,045.0              | 91.81           | 358.61      | 10,211.2              | 9,965.8      | 219.9        | 9,968.2                 | 0.75                    | 0.16                   | 0.73                  |

# Concho Resources LLC

## Survey Report

|                  |                         |                                     |                                  |
|------------------|-------------------------|-------------------------------------|----------------------------------|
| <b>Company:</b>  | NORTHERN DELAWARE BASIN | <b>Local Co-ordinate Reference:</b> | Well SQUINTS FED COM 8H          |
| <b>Project:</b>  | LEA COUNTY, NM          | <b>TVD Reference:</b>               | KB=25' @ 3429.0usft (LATSHAW 44) |
| <b>Site:</b>     | BULLDOG                 | <b>MD Reference:</b>                | KB=25' @ 3429.0usft (LATSHAW 44) |
| <b>Well:</b>     | SQUINTS FED COM 8H      | <b>North Reference:</b>             | Grid                             |
| <b>Wellbore:</b> | OWB                     | <b>Survey Calculation Method:</b>   | Minimum Curvature                |
| <b>Design:</b>   | AWP                     | <b>Database:</b>                    | edm                              |

| Survey                                |                 |             |                       |              |              |                         |                         |                        |                       |
|---------------------------------------|-----------------|-------------|-----------------------|--------------|--------------|-------------------------|-------------------------|------------------------|-----------------------|
| Measured Depth (usft)                 | Inclination (°) | Azimuth (°) | Vertical Depth (usft) | +N/-S (usft) | +E/-W (usft) | Vertical Section (usft) | Dogleg Rate (°/100usft) | Build Rate (°/100usft) | Turn Rate (°/100usft) |
| 20,139.0                              | 91.91           | 358.69      | 10,208.1              | 10,059.8     | 217.6        | 10,062.1                | 0.14                    | 0.11                   | 0.09                  |
| 20,233.0                              | 91.96           | 358.50      | 10,205.0              | 10,153.7     | 215.3        | 10,155.9                | 0.21                    | 0.05                   | -0.20                 |
| 20,282.0                              | 92.23           | 358.64      | 10,203.2              | 10,202.6     | 214.1        | 10,204.8                | 0.62                    | 0.55                   | 0.29                  |
| <b>Last MWD SVY @ 20282'MD</b>        |                 |             |                       |              |              |                         |                         |                        |                       |
| 20,321.6                              | 92.23           | 358.64      | 10,201.6              | 10,242.2     | 213.2        | 10,244.4                | 0.00                    | 0.00                   | 0.00                  |
| <b>LTP @ 20321.6'MD / 10201.6'TVD</b> |                 |             |                       |              |              |                         |                         |                        |                       |
| 20,343.0                              | 92.23           | 358.64      | 10,200.8              | 10,263.6     | 212.7        | 10,265.7                | 0.00                    | 0.00                   | 0.00                  |
| <b>PTD @ 20343'MD</b>                 |                 |             |                       |              |              |                         |                         |                        |                       |

| Design Targets                                                                                         |               |              |            |              |              |                 |                |                  |                   |
|--------------------------------------------------------------------------------------------------------|---------------|--------------|------------|--------------|--------------|-----------------|----------------|------------------|-------------------|
| Target Name                                                                                            | Dip Angle (°) | Dip Dir. (°) | TVD (usft) | +N/-S (usft) | +E/-W (usft) | Northing (usft) | Easting (usft) | Latitude         | Longitude         |
| FTP (SQUINTS FED C<br>- hit/miss target<br>- Shape                                                     | 0.00          | 0.00         | 10,145.0   | -117.6       | 305.6        | 494,165.40      | 768,824.30     | 32° 21' 20.057 N | 103° 27' 46.013 W |
| - actual wellpath misses target center by 240.0usft at 10073.8usft MD (9988.7 TVD, 59.1 N, 261.6 E)    |               |              |            |              |              |                 |                |                  |                   |
| - Circle (radius 50.0)                                                                                 |               |              |            |              |              |                 |                |                  |                   |
| 4000'VS (SQUINTS F                                                                                     | 0.00          | 180.66       | 10,145.0   | 3,994.4      | 281.6        | 498,277.44      | 768,800.32     | 32° 22' 0.748 N  | 103° 27' 45.903 W |
| - actual wellpath misses target center by 22.2usft at 14068.3usft MD (10155.1 TVD, 3993.3 N, 301.4 E)  |               |              |            |              |              |                 |                |                  |                   |
| - Point                                                                                                |               |              |            |              |              |                 |                |                  |                   |
| LTP (SQUINTS FED C                                                                                     | 0.00          | 0.00         | 10,176.2   | 10,242.5     | 244.2        | 504,525.50      | 768,762.90     | 32° 23' 2.576 N  | 103° 27' 45.746 W |
| - actual wellpath misses target center by 40.1usft at 20321.6usft MD (10201.6 TVD, 10242.2 N, 213.2 E) |               |              |            |              |              |                 |                |                  |                   |
| - Point                                                                                                |               |              |            |              |              |                 |                |                  |                   |
| PBHL (SQUINTS FEC                                                                                      | 1.55          | 179.66       | 10,195.0   | 10,292.5     | 243.9        | 504,575.50      | 768,762.60     | 32° 23' 3.070 N  | 103° 27' 45.745 W |
| - actual wellpath misses target center by 43.0usft at 20343.0usft MD (10200.8 TVD, 10263.6 N, 212.7 E) |               |              |            |              |              |                 |                |                  |                   |
| - Rectangle (sides W60.0 H2,295.5 D30.0)                                                               |               |              |            |              |              |                 |                |                  |                   |
| 8000'VS (SQUINTS F                                                                                     | -1.20         | 179.66       | 10,248.0   | 7,996.1      | 257.7        | 502,279.13      | 768,776.35     | 32° 22' 40.347 N | 103° 27' 45.803 W |
| - actual wellpath misses target center by 3.5usft at 18074.1usft MD (10244.9 TVD, 7996.3 N, 259.3 E)   |               |              |            |              |              |                 |                |                  |                   |
| - Point                                                                                                |               |              |            |              |              |                 |                |                  |                   |

| Design Annotations    |                       |                   |              |                                |
|-----------------------|-----------------------|-------------------|--------------|--------------------------------|
| Measured Depth (usft) | Vertical Depth (usft) | Local Coordinates |              | Comment                        |
|                       |                       | +N/-S (usft)      | +E/-W (usft) |                                |
| 9,747.7               | 9,716.0               | -117.9            | 260.3        | FTP @ 9747.7'MD / 9716'TVD     |
| 20,282.0              | 10,203.2              | 10,202.6          | 214.1        | Last MWD SVY @ 20282'MD        |
| 20,321.6              | 10,201.6              | 10,242.2          | 213.2        | LTP @ 20321.6'MD / 10201.6'TVD |
| 20,343.0              | 10,200.8              | 10,263.6          | 212.7        | PTD @ 20343'MD                 |

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